THE LIFE AND TIMES OF LOUIS C. NETTLESHIP, PE

Refrigeration Engineer

1912 – 1995



Central Oklahoma Chapter, ASHRAE



Louis C. Nettleship

CONTENTS

PREFACE		3
Chapter 1	TIMELINE	9
Chapter 2	Refrigeration and Food Safety	15
Chapter 3	Moving Through the Chairs	23
Chapter 4	Planes, Trains and Automobiles	41
Chapter 5	ASHRAE Fellow and 50-Year Distinguished Member	47
APPENDICES		52
EPILOGUE		53
AFTERWORD	Additional Personal Letters	57

Photo on Page 1:
Louis C. Nettleship
posing with golden gavel.
Holiday Inn Northwest,
Oklahoma City, OK
circa 1971

The Life and Times of Louis C. Nettleship

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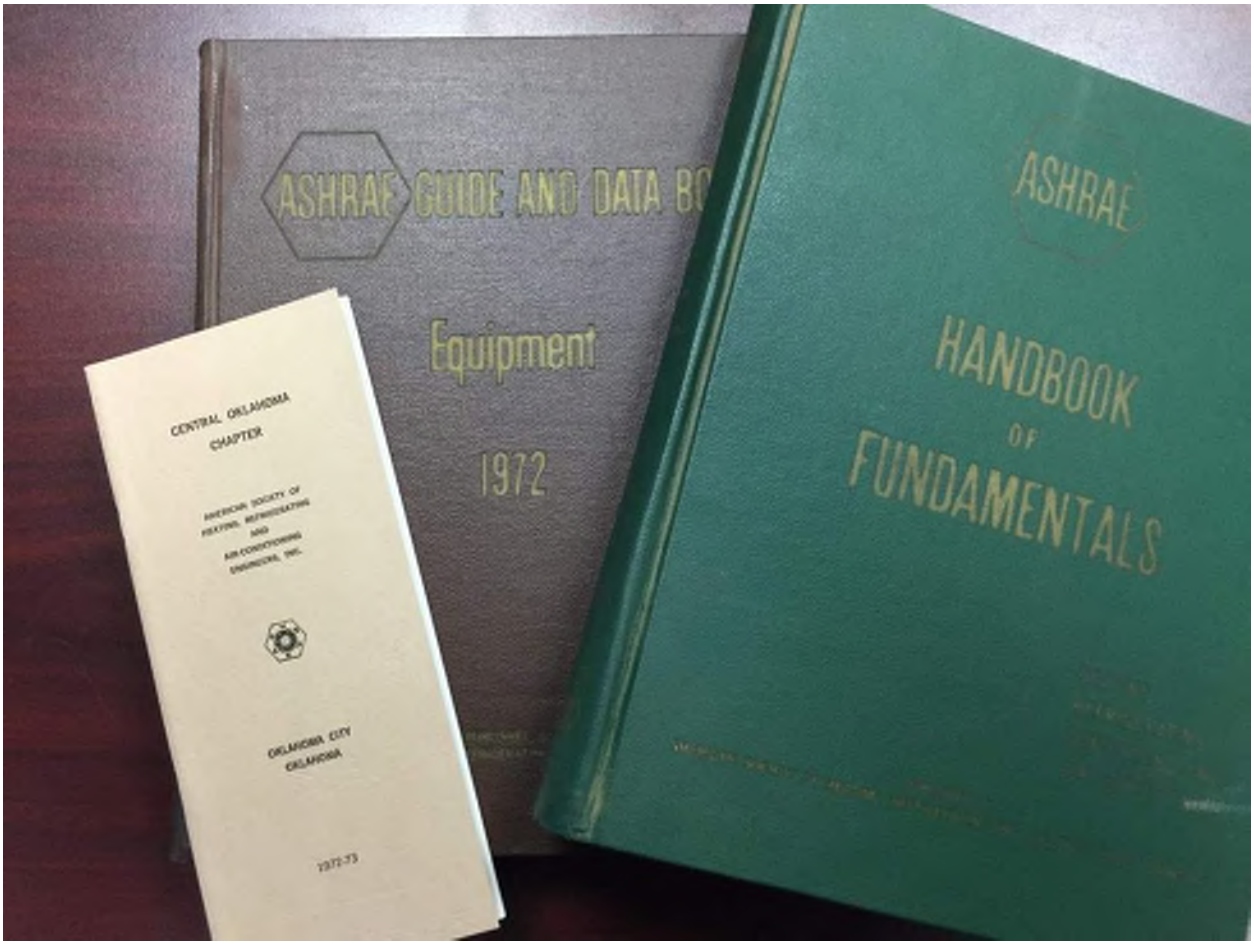
PREFACE

On Monday, February 1, 2016, the Central Oklahoma Chapter of ASHRAE held a regular monthly board of governors meeting. As part of the normal agenda, each committee chairperson gave a report outlining activities of the past month, planned events and activities for the upcoming month, and discussed the status of the Presidential Award of Excellence (PAOE) point totals to date. The PAOE point system is a structured system used by ASHRAE to recognize and reward Chapter activities that support the goals and initiatives specifically outlined by the Society president each year.

During the historian's report, it was mentioned that interviewing Fellows of the Society in our Chapter about their personal history is a PAOE goal and that we planned on conducting an interview again this year once we've identified a suitable candidate. The brief discussion that ensued included the fact that this activity is limited only by the number of Fellows that our Chapter has, and that, per PAOE rules, we cannot repeat a previous interview unless five or more years have passed, in which case the interview becomes an update to the previous one.

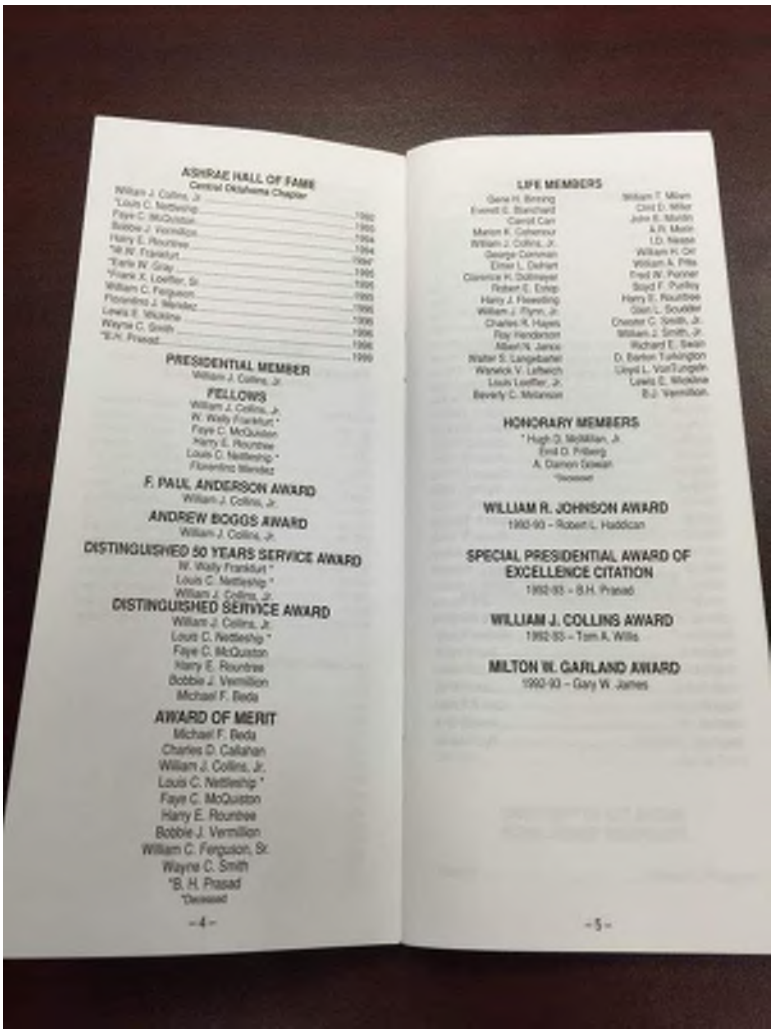
It was at that point in the discussion that a young committee member asked, "Who are our Chapter Fellows?" a question which actually would lead to the eventual creation of this report on *The Life and Times of Louis C. Nettleship*.

The reason for the young member not knowing is not entirely his fault, as he and, in fact, all the new members of the 21st century face the same circumstance. Something as simple as a past decision to save



money on the Chapter's member roster, while at the same time making it more accessible, has actually affected how members today learn Chapter history. Sometimes, technological advancements can have unintended consequences.

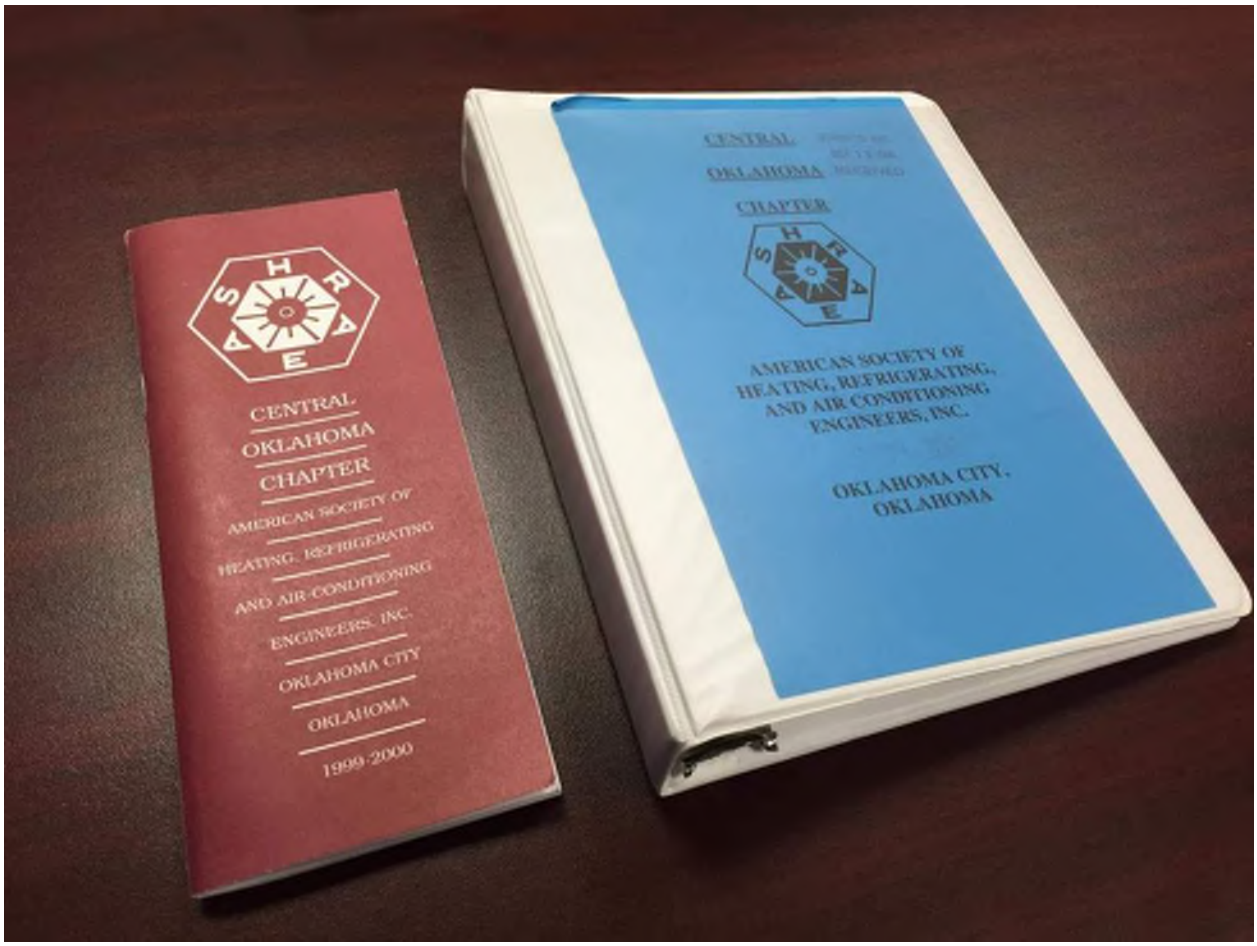
Back in the late 1960s, the Chapter changed its annual member roster from an 8.5"x11" format to a 3.5"x 8.5" tall, professionally published booklet designed to fit in a suit jacket pocket or pants pocket, allowing members to easily carry the booklet to meetings and have at-the-ready for quick reference when an engineer, vendor, or contractor's phone number was needed. The booklet also contained meeting dates and times conveniently located in the front, including program topics, names of the board members and committees, and a listing of Chapter honors and awards. Starting in the 1981 edition, the honors and awards listing was expanded to include a list of members who have achieved the grade of Fellow.



In 2001, however, the handy pocket-sized roster booklet was changed to a 7 inch wide by 8.5 inch tall three-ring binder. The change was not needed due to expanded content, but was to save money on publishing as the "guts" could now be easily printed on an office printer, hole-punched and inserted, and the binders reused year after year. While the change seemed like a good idea at the time, it made the book more of a desk reference than a portable pocket-sized resource.

In the fall of 2008, in an effort to eliminate 100% of the printing costs, the printed roster was eliminated altogether and replaced with an online searchable member database. The database program itself was an adaptation of one the Northeastern Oklahoma ASHRAE Chapter started using a few years prior. They seemed happy with their new program and recommended it to us. The new Central Oklahoma Chapter online member database, however, was not programmed with the ability to input and display Chapter honors and awards. The original program created for the Northeastern Oklahoma Chapter didn't have that function, and honestly, no one involved in the transition asked about it.

With the member database up and running, being fed automatically with member contact info updates from the Society, and the printed roster now a thing of the past, the Chapter no longer had to sit down once a year and update the roster. But, with the home for the honors and awards list still in the old paper roster, it wasn't getting updated either. As it turns out, it actually took the Chapter a few years before realizing that no one was updating the honors and awards list with achievements earned by individuals



and the Chapter each year. In fact, the Chapter's honors and awards list was actually not updated from about 2008 to 2011, as it had become out-of-sight, out-of-mind with the process for its updating, a manual process that had been in place for decades, now eliminated.

In the old days, the roster committee had to publish the booklet each fall with numerous updates on members' personal and professional contact information. It was that process of manually going through the booklet from front to back every year that forced them to look, not only at member contact info, but also at the honors and awards list in the front of the book and make all necessary updates to it as well.

It wasn't until 2011 that the old honors and awards list was once again made available, this time on the Chapter website, where it could be found with a little searching, separate from the member database. Being available on the website was convenient in a way, but not as convenient as when it was the first few pages of a booklet that you carried around with you and frequently referenced.

Therefore, because of the efforts to save money and the technological novelty of going paperless, our member in the board of governors meeting had no idea who our Chapter Fellows were because he had never wandered through the website, found the honors and awards list, and read through it. But how does that lead us to *The Life and Times of Louis C. Nettleship*?

By the Chapter unintentionally making the honors and awards inconvenient to access, it caused the young member to ask who are our Fellows. However, the issue goes further than that. If the Chapter hadn't lost track of the honors and awards list for a few years, it wouldn't have put the accuracy of the list in question.

In the board of governors meeting, our current Chapter historian stated that, once back at the office, he would email everyone a list of Chapter Fellows which he planned on pulling from the Chapter website. However, after downloading the list from the Chapter website and getting ready to send it out, he recalled that the current honors and awards list might now be less than accurate due to those neglected years. Before sending it out, he decided to compare our Chapter's list of Fellows against a list available online from ASHRAE Society. After finding the Society list, downloading it and comparing the two, it was discovered that the Society's list and the Central Oklahoma Chapter's list were different by one person: *Louis C. Nettleship*.

This discrepancy was significant as our Chapter only has eight people that have achieved that grade since its inception in 1935. Estimating that our Chapter has had well over a thousand members since inception certainly puts our eight Fellows in a very exclusive group. To become an ASHRAE Fellow, a member has to be nominated based on invention, research, teaching, design, original work, or as an engineering executive on projects of unusual or important scope, and then go through a rigorous review process at the Society level. The grade signifies those receiving it have attained special distinction in their field.

Once this discrepancy was discovered, a different email was sent out to the board of governors, as well as to certain senior members in the Chapter, and the ASHRAE Region VIII historian, explaining that our Fellows list included Louis C. Nettleship but the Society's list did not and asked if anyone knew for sure that Nettleship did in fact achieve that grade.

Of those that responded, none knew whether he did or not. Louis Nettleship had passed away many years prior to this, and there are very few of his contemporaries still around. One senior member responded saying that most likely what had happened was that someone wanted to nominate him, started gathering the paperwork, told the board of governors he was being nominated, but then never followed through with the process. Kind of like the game of telephone, once the message made it around, and all the way to the roster editor, he WAS a Fellow. Based on this, the suggestion was made to not trust our list, but instead, trust the Society's list and just remove Louis C. Nettleship from our local list so that it would match the official list from the Society.

Before following through with that suggestion, however, our Chapter historian decided to email the Society manager of membership on February 15, 2016, and ask what grade they actually had for Louis Nettleship in their database. A response came back the next morning stating that the Society only has one Nettleship in the current database, and they were not showing any advanced membership grade for him. They said they also searched the old database as well and didn't find anything. Finally, they said they searched the scanned applications and renewals, which go all the way back to the early 60s, and still nothing. They then said they would see if their librarian/historian had anything for him in their paper records.

That was basically strike two for Mr. Nettleship remaining on our list of Fellows. At that point, our current and most recent past historian both started digging up photos and mentions of Louis Nettleship in our archives trying to find any proof that he actually achieved the grade of Fellow. We knew the "rumor" that he was a Fellow would be there, since it made it into our Honors and Awards list, but we needed proof that he was awarded that grade.

The best we could find was one sentence in a board of governors meeting minutes from October 6, 1986, that recorded Louis Nettleship being named a Fellow and stating that he was to be awarded at the 1987 winter meeting. Scans of these meeting minutes and other documents were then emailed to the Society's manager of membership with the request that they try to check the minutes from the 1987 winter meeting to see if Louis was named a Fellow, and that if so, could they let us know and update their official Fellow list?

The manager of membership responded by forwarding the scans to their Chapter programs manager who was able to check into this. She responded back the next day stating:

> *"Thank you so much for contacting us. You are absolutely correct, Mr. Nettleship was elevated to the grade of Fellow at the 1987 Winter Meeting. I was able to confirm this in ASHRAE Insights. The H&A Resource Manual (which lists past award recipients) has been updated to include this as well. We will work on getting the complete listing of Fellows updated online in the next week or so. I'll also work to see if we can get Mr. Nettleship's membership record updated."*

Hallelujah! Case closed.

Upon getting copied on this response, the ASHRAE Region VIII historian emailed saying that he and the director and regional chair of Region VIII think that a written personal history on Louis Nettleship should be created, since a very important part of his history was nearly lost. We agreed and this document is the result.

To prepare for the compilation of information that makes up this history, a further dig through the Chapter archives was conducted, as well as contacting a few very senior Chapter members to ask if they had any specific memories of Louis Nettleship. After collecting all the documents and thoughts, there were still a number of holes in the history that existed. It was at that point that a Google search was conducted to find Louis' next of kin and hopefully reach out to them for photos, documents and memories.

The search turned up Louis' obituary which gave the names of the family members. A further deep search revealed the email address for Bruce Nettleship, Louis' son, a textiles salesman who lives in Texas. An email was sent to Bruce on February 23, 2016, explaining what was going on and asking if he would be willing to help on this project. We were very excited when Bruce emailed back saying he would be glad to help, plus he copied his two sisters and all the grandkids enlisting their help as well!

Bruce and our Chapter historian scheduled a time to meet personally on February 29, 2016, while Bruce was in Oklahoma City on business. Bruce brought a number of photos, letters and ASHRAE award certificates belonging to his father. The two talked and the Central Oklahoma Chapter historian got to know who Louis C. Nettleship was through the memories of his son. In later email communications, Bruce provided additional photos, certificates, dates and memories. He even provided a photo of Louis' actual framed ASHRAE Fellow certificate.

* * * * * * * * *

This personal history of Louis C. Nettleship is compiled from chapter archives originally kept by the late Bob Vermillion, who was a chapter historian and a personal friend of Louis Nettleship, documents kept by Harry Rountree, who also is one of our ASHRAE Fellows, chapter archives, including those from Bill Collins, currently kept by Alan Loeffler, our most recent past chapter historian, documents provided by Bruce Nettleship and the Nettleship family, and from sources available online.

We wish to give a very special 'thank you' to the whole Nettleship family (Louis' children Karen, Bruce, and Ellen; and the grandkids, Jim, Linda, Ryan, Ashley, and Jeff) for their contribution of photos, letters and personal memories. The personal letters written by Louis himself to his family, many of them recently collected and compiled by his daughter Karen in a book she called *Cubits* are invaluable toward learning who Louis really was. Louis wrote hundreds of personal letters to his family over the years. As Karen states "I fully realized for the first time how right Daddy was when he always insisted that letters were so much better than phone calls." For the benefit of the readers of this history document, many of those letters have been reproduced at the bottom of every page starting at chapter two. Plus, some of Louis' doodles he liked to put in his letters are sprinkled in as well.

The sum of everything collected for this project reveals a man of character and substance, deeply committed to his family and his profession. He had a great sense of humor, often off-the-wall and off color, a passion for refrigeration, ASHRAE and the metric system. Putting all that together made him one very unique human being!

We hope you enjoy learning about the life and times of Louis C. Nettleship. It is our anticipation that, by studying the life of one of the pillars of the Central Oklahoma chapter, readers will learn keys to being a leader in ASHRAE chapter operations, and how life is enriched through strong family ties.

Dusty Stoabs, PE, CPMP
ASHRAE Central Oklahoma Chapter Historian

ASHRAE Central Oklahoma Chapter

www.ashraecok.org

Chapter 1

TIMELINE

November 16, 1871 ..... Earnest "Lape" Nettleship (Louis' father) is born[1]

June 2, 1879 ..... Ione L Williams (Louis' mother) is born[2]

1899 ..... Lape Nettleship marries Ione Williams in Arkansas. The couple lives with Lape's parents in Prairie Township (Fayetteville), Arkansas but eventually moves to the house at 312 St Charles Street where Louis grows up in the heart of Fayetteville[2]

November 21, 1912 ..... Louis Christopher Nettleship is born. He has two older sisters, Wilma (11 years old) and Thelma (9 years old), and will have a younger brother, Johnny, about two-and-a-half years later[2]

Fall 1929 ..... Louis attends the University of Arkansas at the age of 16, which is located only a few blocks away from his home. Louis becomes a member of Pi Kappa Alpha fraternity[3]

1933 ..... Louis graduates from the University of Arkansas[4]

1934 ..... Louis goes to work for Frick Company, a manufacturer of refrigerating, air-conditioning, farm and sawmill machinery, in their Oklahoma City office[5]

July 23, 1937 ..... Louis marries Elnora Anna Rey in Oklahoma City[6]

1937 ..... Louis and Elnora move to Waynesboro, Pennsylvania, the Frick Company headquarters, and Louis works in the estimating department[7]

1940 ..... Louis is exempted from military service due to having migraine headaches[8]

1940s to '80s (intermittent) Louis is a competitive chess player and teaches chess at night school, participates in a radio show about chess, and plays in and wins some chess tournaments. Louis and Elnora are tournament bridge players[8]

March 7, 1944 ..... Elnora gives birth to Karen in Waynesboro, Pennsylvania[9]

1945 ..... Louis becomes a member of the American Society of Refrigerating Engineers (ASRE)[10]

[1] Appendix 27 and Louis letter to family 11/17/72
[2] Appendix 27
[3] Appendix 26
[4] 1992-November COK Newsletter, *Sou'wester,* interview with Louis Nettleship by B.H. Prasad
[5] Louis letter to family 7/23/71
[6] Louis letter to family 1/24/80 (reprinted on page 60)
[7] Louis letter to family 3/2/73 (reprinted on page 33)
[8] Nettleship family
[9] Louis letter to family 3/2/73 (reprinted on page 33)
[10] Appendix 23

1945 ..... Louis, Elnora and Karen move to New Orleans, Louisiana as Louis works as a salesman based out of the Frick Company New Orleans office[11]. Louis eventually becomes the manager of the New Orleans office. Louis also does work for the Navy with refrigeration on ships that come to the port of New Orleans. Some of the Navy work is classified Top Secret[12]

1947 ..... Lape Nettleship passes away at the age of 77[13]

October 17, 1950 ..... Elnora gives birth to fraternal twins, Ellen and Bruce in New Orleans[14]

1954 ..... Louis, Elnora and the children move back to Oklahoma City and Louis goes to work for Jones-Newby Supply Company[14]

1957 ..... Louis becomes a member of the American Society of Heating and Air-Conditioning Engineers (ASHAE)[15]

1959 ..... Louis automatically becomes a member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) when ASRE and ASHAE merge to form ASHRAE[16]

1963 ..... Louis and Bob Bradford open Bradford & Nettleship, Inc. The company is commonly referred to as Bradford & Nettleship Supply[17]

March 9, 1966 ..... Louis is nominated by Lloyd Von Tungeln, Central Oklahoma Chapter (COK) Chapter president, at the recommendation of William J. "Bill" Collins Jr. to serve on the ASHRAE Society Technical Committee (TC) 5.1 Industrial Refrigeration[18]

March 24, 1966 ..... Louis first accepts the nomination to be ASHRAE COK Chapter treasurer and "move through the chairs"[19]

June, 1966 ..... Ione Nettleship passes away at the age of 87[20]

July 1, 1966 ..... Louis begins his service as COK Chapter treasurer, but within a few months moves up one chair to Chapter secretary when Bob Allsman, the Chapter president, moves to Detroit[21]

December 4, 1967 ..... Louis, as chapter vice-president (president-elect), makes a motion at the board of governors (BOG) meeting to purchase new metal lapel name badge holders for use at Chapter meetings;[22] those name badge holders are still in use as of 2016

[11] Louis letter to family 3/2/73 (reprinted on page 33)
[12] 1992-November *Sou'wester* interview with Louis by B.H. Prasad
[13] Louis letter to family 11/7/72
[14] Nettleship family
[15] Appendix 23
[16] Appendix 4
[17] Appendix 28
[18] Appendix 5
[19] Appendix 6
[20] Appendix 27
[21] Appendix 6 & 7 and COK Chapter ASHRAE document "History Recalled"
[22] Appendix 10

May 13, 1968 ..... Louis becomes COK Chapter president for the first time[23];

September 10, 1968..... As Chapter president, Louis makes the change to permanently move the social hour out of the same time slot as the Chapter technical training session,[24] plus he ensures that a technical session is scheduled and occurs at every Chapter meeting, which was never the case before

Fall 1970..... Louis is voted in by the COK BOG to serve as Chapter President the second time taking over after the sudden death of the sitting Chapter President, Ham Nelson[25]

March 30, 1971..... Louis is appointed by the Society president Frank Bridgers to serve on the "GUIDE & DATA BOOK – 1974 Applications Volume" committee, which would end up producing the "ASHRAE Handbook & Product Directory, 1974 Applications" edition[26]

1971-1983 (approximate)... Louis serves on various Society technical and handbook committees including: TC 4.1 Load Calculations, TC 5.1 Industrial Refrigeration, TC 10.5 Refrigerated Warehouses, TC 11.1 Meat Products, TC 11.5 Fruits and Vegetables; ASHRAE Handbook & Product Directory, 1974 Applications and 1978 Applications editions; and ASHRAE Handbook, Fundamentals, 1981 edition[27]

April, 1971..... The Central Oklahoma Chapter earns the first ever PAOE[28] with a score high enough to make them the number one Chapter in the Society,[29] and Louis wins the fourth ever Golden Gavel Award[30]

October, 1972 ..... Louis is the Chapter technical program speaker and gives a talk on "The Challenge of Refrigeration"[31]

November, 1972 ..... Louis' "The Challenge of Refrigeration" article is published in the November 1972 issue of the ASHRAE Journal (Vol. 14, No. 11)[31]

April 10, 1974..... Louis writes a scathing letter to the ASHRAE Region VIII DRC accusing the Arkansas Chapter of inflating attendance figures by counting members of other societies at joint meetings and taking out a loan to inflate their Research Promotion contribution, all to win the Golden Gavel[32]

[23] Appendix 4 & 11
[24] Appendix 12
[25] Appendix 4; also COK Chapter ASHRAE document "History Recalled" page 19
[26] Appendix 17
[27] Appendix 17 & 22
[28] Appendix 4
[29] Appendix 30
[30] Appendix 18
[31] Appendix 1
[32] Appendix 19

November 10, 1975 ..... Bradford & Nettleship, Inc. moves from 2130 NW 40th Street to 320 East Hill, which is one block east of their present location[33]

June, 1976 ..... Louis receives the ASHRAE Distinguished Service Award[34]

January 10, 1977 ..... Louis gives "Cubits" speech on the metric system at Chapter meeting with infamous "finger" photo and racy "Think Metric" poster behind him[35]

1977 ..... Louis retires from Bradford & Nettleship and starts doing part-time engineering consulting work, including working for Charles Perry at Perry Air Conditioning Company[36] and for Bob Vermillion at A.M.E. Inc. in Oklahoma City[37]

1983 (approximate) ..... Louis receives the ASHRAE Regional Award of Merit from Regional chairman Emil E. Finley[34]

January, 1978 ..... Louis achieves the ASHRAE grade of Life Member at age 65 and 32 years of continuous membership[38]

August, 1980 ..... ASHRAE BOG forms the "Metric Coordination Committee" with Louis Nettleship as chairman. Other committee members include Jerald D. Parker and Clarence H. Dollmeyer. Committee purpose: to assist members with any problems they may have in conversion tactics and keep them advised of developments in the System International (SI)[39]

Aug 1980 – May 1981 ..... Louis contributes a full page to all but one issue of the ASHRAE Chapter newsletter, the *Sou'wester* entitled "Metric Coordination" where he works out an engineering problem using English units and then shows it worked in metric units[40]

December 8, 1980..... Louis is the honoree of the annual ASHRAE Chapter "Roast" event on past-presidents night. From the COK *History Recalled* document: "This year's 'Roast' … ended memorably with the introduction of a young lady possessing extreme qualifications, extremely well displayed, who claimed to be a great granddaughter of one of the Chapter members of the Nettleship Fan Club of Arkansas. Nettleship's response to all the banter was aptly … 'Welcome to Fantasy Island' "[41]

1984 ..... Louis writes the short story "Uninhibited Lady" about his mother[42]

1985 ..... Louis retires a second time; this time from A.M.E., Inc.[43]

[33] Louis letter to family 11/6/75
[34] Appendix 4
[35] Chapter roster 76-77 edition and date associated with photo
[36] 1978 Applications Handbook
[37] Nettleship family
[38] COK Chapter ASHRAE document "History Recalled" page 21
[39] 1980-81 COK Annual Report
[40] COK Chapter ASHRAE document "History Recalled" page 22; also November 1980 *Sou'wester*
[41] COK Chapter ASHRAE document "History Recalled" page 22
[42] Appendix 2
[43] Appendix 23

April, 1985 ..... Bill Collins nominates Louis Nettleship to receive the grade of ASHRAE Fellow and the Society review process begins[44]

April, 1985 ..... "Uninhibited Lady" is published in Good Old Days magazine[45]

October, 1986 ..... Louis' achievement of the grade of Fellow is announced at the COK board of governors meeting[46]

January 18, 1987 ..... Louis is announced as a Fellow at the ASHRAE Society winter meeting in New York[47] however, he does not attend due to his difficulties traveling

1988 ..... Louis writes the short story "Motoring to the West Coast"[48]

1993 ..... Louis is the second member inducted into the COK Chapter Hall of Fame, behind Bill Collins who was inducted the year prior[49]

March 10, 1995 ..... Louis is awarded the ASHRAE Distinguished 50-Year Member Award and is invited to formally accept the award at the Society annual meeting in San Diego, however, Louis is unable to attend due to health reasons[50]

July 24, 1995 ..... Louis Nettleship passes away at the age of 82[51]

February 3, 2011 ..... Elnora Nettleship passes away at the age of 99[52]



[44] Louis letter to family 4/16/85 (excerpt on page 47)
[45] Appendix 2
[46] Appendix 21
[47] Appendix 29
[48] Appendix 3
[49] Appendix 30
[50] Appendix 22 & 23
[51] Appendix 24 & 25
[52] Appendix 24



6/27/69 I've got to go home and figure out a way to fix my sagging gutter on the back of the house. The spikes holding it have come loose in the middle so it's sagging. As you know, it's about 15' in the air, and I get a nose bleed at that altitude. There is also another problem. I got out my 12' step ladder last evening, set it in a good position, and with my electric drill, put a hole in the side of the gutter next to the fascia board. Thought if I could screw it into the wood it would help support the gutter while I was messing around with the spikes. You see the power wire to the house ties on right underneath the center of the gutter, and if the gutter falls, it will fall on the wire and probably the ground at the same time, and if I've got hold of the other end – ZING!!!! Anyway, here I am hanging over the top of the ladder last night, holding my trusty drill, and a squadron of wasps start buzzing around. I look around and for the first time, notice they are in the process of building a nest at the top of the bathroom window, about 15 1/2" away from my exposed belly. Now they do not like me interfering with their project and I do not like them interfering with my project – so we compromise and I withdraw – but not before giving serious thought to throwing the drill at the nest. We will renew our negotiations tonight – perhaps with a water hose
(the battle of the Little Big Hornet).

Chapter 2

Refrigeration and Food Safety

In researching ASHRAE Central Oklahoma Chapter archives, doing online research, plus looking through letters provided by the Nettleship family, a compiled list of the Society-level work Louis participated in is as follows:

- Technical Committee (TC) 4.1 Load Calculations
- TC 5.1 Industrial Refrigeration
- TC 10.5 Refrigerated Warehouses
- TC 11.1 Meat Products
- TC 11.5 Fruits and Vegetables
- ASHRAE Handbook & Product Directory, 1974 Applications
- ASHRAE Handbook & Product Directory, 1978 Applications
- ASHRAE Handbook, Fundamentals, 1981

Louis' ASHRAE Handbook work specifically concerned the refrigeration sections in those volumes. Refrigeration was Louis' specialty. Louis was a registered Professional Engineer (PE) in the State of Oklahoma and he referred to himself as a *refrigeration engineer*.

Although air conditioning involves refrigeration equipment, the "R" in ASHRAE normally refers to systems operating at temperatures colder than that normally used for air conditioning. These types of systems are used for food preparation and storage, pharmaceutical, chemical and petroleum processes, laboratory environmental chambers, and various industrial uses.

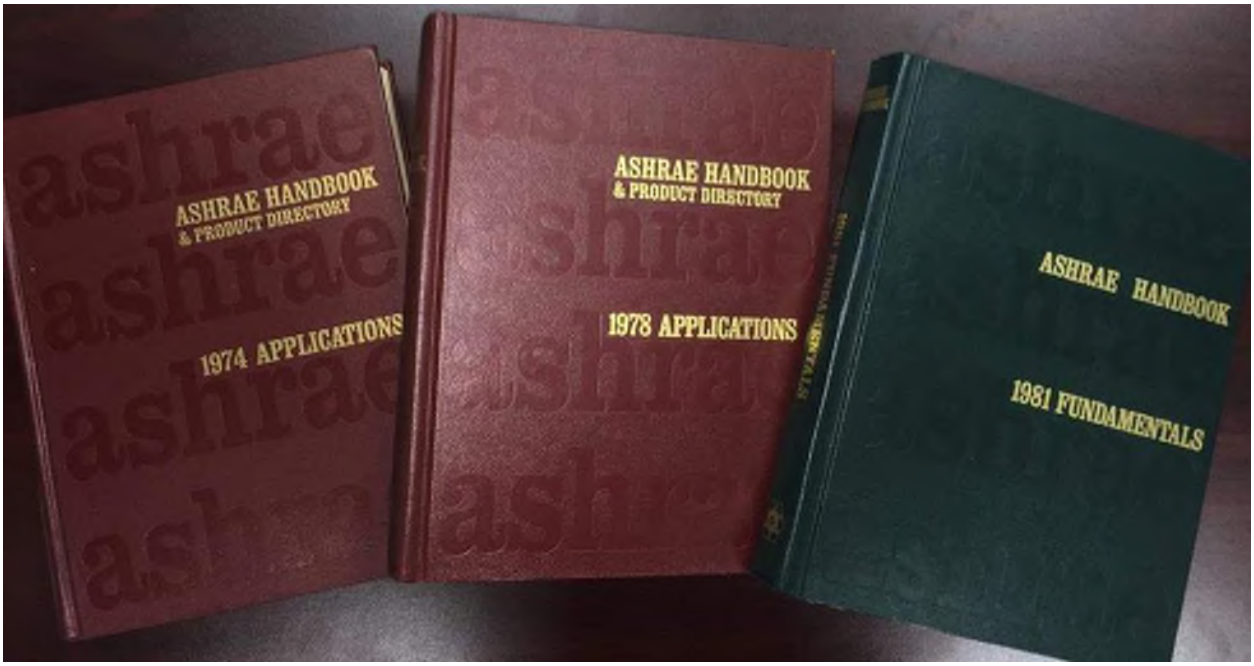
Louis' first job out of college was with the Frick Company, a manufacturer of refrigerating, air conditioning, farm, and sawmill machinery. The Frick Company started him off with a two-year training program. Louis recalls in a 1992 "ASHRAE Leadership Recall" interview with B.H. Prasad: "By the time you finished that training course, you were supposed to design things out in the field without any help from the factory."

From that interview, and in talking with people that knew Louis, we really don't know what drew him to the refrigeration systems and equipment industry. His son, Bruce, reflects that his dad loved math, which, of course, is one of the main reasons students choose engineering as a career. We may, however, have a clue from his 5/2/75 letter to his daughter Karen:

"One summer when I was going to college, Wilma and Ted lived in Evansville, Indiana, and I went to visit them and stayed all summer - got me a job in

ASHVE published the *Guide* from 1922 until 1961 when it merged with the ASRE *Refrigerating Data Book and Catalog*, published since 1932. The combined publication was called the *ASHRAE Guide and Data Book*. Separate volumes were issued for Fundamentals and Equipment, and Applications. In 1967, the information in the *Guide and Data Book* was regrouped into a *Handbook of Fundamentals*, with separate Systems, Applications, and Equipment volumes. In 1973, the *Guide and Data Book* was renamed the *ASHRAE Handbook & Product Directory*. In 1985, separate I-P and SI unit volumes were issued, and in 1986, a separate Refrigeration volume was established. Although volume groupings have shifted over the years, the name and the essential method by which the ASHRAE Handbook is compiled have continued to the present. (Courtesy of ASHRAE website - *A Brief History of the ASHRAE Handbook*)

11/28/69 SAY, I got my birthday package you sent – the pajamas are wonderful and fit perfectly, and I really needed them. Haven't bought a new pair in years. All my old ones are so full of holes its pitiful, but not without advantages. Anywhere I needed to scratch, I could get to it thru a hole someplace. I've learned to enjoy that, so I may cut some holes in the new ones at appropriate points.



an ice cream plant and worked on the night shift making ice cream. I love the ice cream when it comes out of the freezer, before it's hardened, and ate so much of it that summer, you would think I would have gotten burned out on it - but never did."

Perhaps a young man making ice cream all summer long was all it took to lead him to the refrigeration industry!

Louis' work at Frick Company included designing and selling refrigeration systems for dairies, breweries, ice plants, and petrochemical facilities, and after World War II, he spent a lot of time on refrigeration systems involved with the production of synthetic rubber. It was in 1945, when Louis first became a member of the American Society of Refrigerating Engineers (ASRE).

During WWII, Louis was exempted from active duty military service due to having migraine headaches. However, he did work as a dollar-a-year man doing volunteer work for the US Navy. Louis worked on refrigeration systems on ships that would enter the Port of New Orleans. He was involved in adding air conditioning to aviators' ready rooms on aircraft carriers, which were some of the first vessels to get air conditioning. Louis recalls in his 1992 interview, at 80 years old

> Starting back in World War I, out of a sense of national pride and willingness to support their country, a large number of men who were experts in their profession, donated their services for only a token salary of one dollar per year. The law wouldn't allow unpaid volunteers working for the government. These men became known as "dollar-a-year men." The practice continued through World War II

12/18/69 Taffy has been having great sport with the possum that has taken up residence in our back yard. I've done everything but shoot him trying to get him to leave. I say "him" but it must be a "her", it's the biggest possum I've ever seen – am sure it will weigh 30 pounds, and looks real mean. Nothing seem to faze it much – when Taffy or I chase it, it just ambles along like it wasn't in any hurry, and Taffy and I aren't in any real hurry to catch up with it. I hit it on the head the other night with a coke bottle I threw at it. It was a direct solid hit on the head, but it didn't faze it. I told Elnora I bet if we turned Joe, the parrot, loose on it, it would leave.

looking back over his career, the work he did for the US Navy stood out as the most memorable to him.

This experience with the Navy showed that even though Louis was a refrigeration engineer, he was able to apply his knowledge of low temperature systems to create comfort cooling, air conditioning solutions as well. The ability to speak the language of both refrigeration and HVAC would prove to serve him well in the future as a leader in ASHRAE.

In 1954, Louis "got tired" of New Orleans and desired to return to Oklahoma City. He left the Frick Company and moved his family back to Oklahoma City. Drawing on his 20 years of engineering and sales experience with the Frick Company, he was hired at the Jones-Newby Supply Company, a heating, ventilating, air conditioning, and refrigeration parts and supplies wholesale vendor.

In the commercial refrigeration market, then and still today, HVAC consulting engineers who develop plans and specifications for building mechanical systems, rely heavily on the engineering expertise of refrigeration equipment vendors when it comes to layout and specification



Photo 1- Louis and Elnora, circa 1940

12/19/69 Our parrot is about the most bedraggled looking bird that ever came out of the jungle. We finally decided something was chewing on his feathers, like maybe lice – SO, I got some lice spray yesterday and we took him down into the wash-room, and took him out of the cage. Not it sounds real simple to say "I took him out of the cage", but it is a pretty painful ordeal, for me, that is. I put on my leather gloves, but in spite of that he had me almost hollering out loud, or gasping for breath – that bird has real powerful jaws, and he was really biting my fingers and hands just like he was cracking nuts, and the pain was pretty bad. I couldn't stand it without the gloves. Anyway, I held him by the tips of his wings while Elnora sprayed him under his arms, on his back and stomach, and all over. Then before we put him back in the cage, we sprayed the cage real good. Hope it helps him, although he wouldn't speak to me for quite a while, he was so mad – and squawk – you would have thought we were wringing his neck. When I put him back in the cage, he had hold of one of my fingers and wouldn't turn loose.



of refrigerated cabinets, display cases, and cold storage, such as refrigerators and freezers. These systems and equipment are often put out to bid with a "performance specification" which requires the detailed equipment selection, layout and interconnections to be determined by the vendor's sales engineer as part of their sales contract.

By this point in his career, Louis had become an expert at not only helping consulting engineers develop their specifications, but also at responding to these specifications after they were put out to bid with detailed design, equipment selection, price proposals, technical submittals, and sales to installing contractors. Most all of the HVAC consulting engineers in Oklahoma City were members of the American Society of Heating and Air-Conditioning Engineers (ASHAE), and therefore, to gain more opportunities for interaction with them, Louis became a member of ASHAE in 1957.

In 1963, with almost 30 years' experience under his belt, Louis partnered Bob Bradford to open Bradford & Nettleship, Inc., a refrigeration, parts and supplies wholesaler with a strong emphasis on commercial refrigeration. The company was often referred to as Bradford & Nettleship Supply.

In 1972, being well established as an expert in the field of refrigeration, Louis was requested by the Central Oklahoma Chapter of ASHRAE to be the keynote speaker at the first Chapter Meeting of the year. Louis prepared for his talk by putting together a paper entitled "The Challenge of Refrigeration" (Appendix 1). Louis gave his speech to 125 members and guests at the October 9, 1972 Chapter meeting. His paper that accompanied his speech was so thorough that ASHRAE Society published it in the very next ASHRAE Journal following the Chapter Meeting.

In his article, Louis addressed the reluctance of the American Society of Refrigerating Engineers (ASRE) to merge with the American Society of Heating and Air-Conditioning Engineers (ASHAE) in 1959. Louis was a member of both societies and had experienced the merger, and the concerns, firsthand.

"There was a considerable amount of grumbling on the part of many members of ASRE. It was felt by some that the interests of the refrigeration engineer would be secondary to those of the combined societies. Before the merger, those of us who were members of ASRE can recall receiving letters from concerned members requesting that we vote against the merger. But the majority of the members of each Society, having faith in their officers' ability to decide what was best for all concerned, voted in favor of the merger."

Louis pointed out that 10 years after the merger, nationally, many refrigeration engineers did, in fact, fall away and stop attending. He gave possible reasons for this such as a lack of refrigeration topics included in the Society publications, lack of programs on refrigeration at Chapter and Society meetings, and lack of refrigeration engineers in leadership roles at the top level of ASHRAE. Louis cited an example of

12/26/69 I tell you, there is something comforting about a pot belly. I really like mine. It keeps my stomach warm, and assures me that I won't starve to death if I go into hibernation for several days. Besides that, I've got a lot of money invested.

how the typical ASHRAE member tends to forget about the "R" in ASHRAE:

"At the New Orleans Semiannual Meeting … a Chapter officer, who had just been introduced to a man from the U.S. Dept. of Agriculture (USDA), turned to me and asked, 'What is a man from the USDA doing at an ASHRAE meeting?' I thought he was joking and then remembered he had spent his entire working life in the field of air conditioning."

Louis described that ASHRAE did try to address this problem.

"A permanent 'R' in ASHRAE Committee was formed in 1969, and its members have been quite active in formulating plans to increase the recognition of, and interest in, refrigeration disciplines; thereby attracting manpower for training, and refrigeration-oriented engineers into active participation in our activities and into industry."

Louis made the point in his article that not only is refrigeration important, it is actually MORE important to mankind than air conditioning!

"Air conditioning may mean the greatest dollar volume for manufacturers, engineers, and salesmen. However, if we are to be sincerely and truly a Society dedicated to the 'benefit of the general public,' we must admit that - from the standpoint of the preservation for the world's food supply alone - refrigeration is not just a 'special interest group' but one of the greatest challenges ASHRAE has."

"Virtually no recognition is extended to the importance of refrigeration by the press. This past summer, during the power shortage in the Northeast, headlines proclaimed of the untold suffering of the public from the heat because air-conditioning equipment was inoperable. The serious part about a power shortage in New York City or any other heavily populated area is downtime on refrigeration equipment used for preservation of food products. Visualize for yourself our home refrigerators and freezers shutting down for several days. Visualize dairy plants without refrigeration. Visualize all the cold storage plants in New York City with the refrigeration equipment idle - millions of cubic feet of cold storage space filled with meats, fresh fruits, vegetables and frozen foods, turning into tons and tons of wilted, spoiled, soggy foods unfit for human consumption."

"Lack of air conditioning would in no way begin to duplicate the mass hysteria of millions of people with no food supplies. Resulting deaths from starvation would be astounding. Give a man the choice between maintaining comfortable air conditioning and eating, and there is no question which choice he must, of necessity, make to stay alive."

Louis went on to explain in detail the important role that the refrigeration engineer plays on a global scale and how ASHRAE is in the unique position to develop and impart the knowledge needed to preserve the food supply and ultimately feed the world's population in the face of challenges such as growing population, inadequate power supplies and limited availability of trained manpower.

1/9/70 I've always made out my own personal income tax, and I'm sure a good accountant could probably save me some money, except I've always felt it was probably better not to have any witnesses.

"ASHRAE has great strength and ability in the combined knowledge of its individual members, and further - due to the overlapping of some of our technologies - many of our members are quite versatile and capable of diverting their abilities to other disciplines of our Society. Certainly, I think ASHRAE would be very remiss if it did not make every effort, quickly, to unify the goals of our membership for the benefit of all mankind."

Louis went on to outline two suggestions on how to maximize ASHRAE's ability to develop refrigeration engineering solutions to meet the world's demands: 1) Each ASHRAE leader must work to develop every discipline, not just the ones they are most familiar with, and 2) ASHRAE Chapters should develop handbook committees to continuously review and comment on the content of the handbooks produced by the Society.

On the first point, Louis gave an example of a wrongheaded leadership approach and attitude taken by a senior executive at ASHRAE that actually resulted in refrigeration being minimized within ASHRAE:

"It is the responsibility of each member of ASHRAE to make sure his sphere of interest is served by actively participating in the Society affairs; by attending all Chapter, Regional and Society meetings; by offering papers for presentation at meetings and for publication; by serving on technical committees; and by involvement in our research work. If your interest isn't being served, it is up to you to do something about it."

Louis went on to cite reasons as to why the minority discipline within ASHRAE will not and in some instances, cannot, "do something about it." Instead, Louis gave his suggestion of a better approach to ensure that the "R" is ASHRAE is fully developed:

"I feel the responsibility of unification lies with our Society, Regional, and Chapter officers. Each officer should realize that, in accepting office in ASHRAE, he has at the same time accepted responsibility for development of all our



Photo 2 - Louis at work; Bradford and Nettleship, Inc. circa 1965

1/15/70 Saturday morning at 5:30 I get on that fast speedy plush gorgeous SAN FRANCISCO CHIEF train and relax in splendor leaving my car in Amarillo to relax until I get back. Nowadays I get a bedroom instead of a roomette, because my old hairy potbelly sticks out so far I can't get the bed up and down in a roomette without opening the door and standing out in the aisle.

disciplines. He should be as genuinely interested and enthusiastic about the preservation of the apple crop in the State of Washington or the vegetable crop in Peru as he is in the air conditioning of a large office building. He should be just as interested in listening to a program on the refrigeration required for production of synthetic rubber as he is in a program on high pressure duct systems. Any officer of ASHRAE should look beyond his own personal endeavors with an intense desire to cover the entire scope of ASHRAE, and develop every discipline to the best of his abilities."

Louis' second suggestion moved beyond the attitude required to ensure all subjects were promoted, and went into the very practical need that the technical information ASHRAE provides should be accurate and up-to-date. Furthermore, he explained that the review and commenting on the technical publications must be done at the Chapter level, not at national meetings, since only approximately 10% of members attended national meetings.

"An active Handbook Committee in each ASHRAE Chapter should consist of various subcommittees to cover our various disciplines. Each subcommittee should have a chairman knowledgeable in a particular field, to recruit interested members and to hold meetings or study groups on selected Chapters of the Handbook. Results of discussions on each Chapter studied should be finalized in report form to be sent through channels to the Technical Committee (TC) responsible for that Chapter. Reports should comment on parts that cannot be easily understood, information that should be included and, equally important, should comment on acceptable information in the Chapter so the TC will know what parts are to be retained. Such reports would be excellent feedback material for the Handbook, and could form the basis for articles in ASHRAE Journal and for programs for Chapter and Society levels. Users of equipment may be invited to subcommittee meetings to provide information on processes involved."

Louis certainly modeled his suggestions by participating, himself, in technical and handbook committees and holding numerous leadership positions at the Chapter level. Also, during his two years as Chapter President (1968-69 and 1970-71), Louis certainly emphasized refrigeration as a topic, and for several years after his 1972 article on "The Challenge of Refrigeration" the Chapter was diligent in having at least one meeting dedicated to refrigeration each year.

11/25/70 I got back from SF. What a trip! Got on the train Sat. at 6AM and got into SF the next morning at 10AM. Sunday evening about a dozen of us old men decided we should see the town, so one of them said he knew a little about SF and we should go down to Fishermen's Wharf for dinner … guess how he got us down there – on a cable car … can't you just see your pappy hanging on to the outside of a cable car with his coattail flying in the breeze up and down those steep hills. The meetings were real good and I got full of real smart, among other things such as a lot of food. But $5.20 for a pack of cigarettes, $3.20 for a cup of coffee, $2.60 for a coke, $2.90 for bacon and eggs, has to be unreal. I told them I could understand why everybody smoked marijuana, because it was cheaper than cigarettes.



3/13/70 A traveling salesman was driving down a country road one day and he saw a big billboard with a sign on it "Granny's Whorehouse – 5 miles". A couple of minutes later there was another sign, "Granny's Whorehouse – 3 miles". Then he saw a big white two story house set back from the highway, and a big sign saying, "This is it – Granny's Whorehouse." his curiosity got the best of him so he pulled in, stopped, got out and went inside. Inside it looked like an old country hotel lobby, with a little old white haired lady behind the registration desk. She looked to be about 70, and she said she was Granny. The man asked about the signs he had seen and she told him, "Yep, just give me $20 and go upstairs and take your pick." He gave her $20 and she told him to go upstairs and take the first door to the right. He was getting in the mood now, so he went tearing up the stairs and rushed into the first door on the right, which happened to be an outside door, and he fell some 5 feet to the ground which was the side of a hill – he rolled and tumbled down the steep hill for 50 or 60 yards before he got to the bottom of the ravine. He was battered and bruised and his clothes torn– he sat up and looked around dazed, and saw a little sign on a stake, just a few feet away from him. He finally got his eyes focused on the sign and read, "You have just been screwed by Granny".

Chapter 3

Moving Through the Chairs

Although Louis had been a member of the American Society of Refrigerating Engineers (ASRE) since 1945, and a member of the American Society of Heating and Air-Conditioning Engineers (ASHAE) since 1957, and then of course, a member of the merged Society since 1959, it wasn't until 1966 when he really became involved. When he did, he jumped in with both feet!

Louis had moved his family back to Oklahoma City in 1954 and went to work for the Jones-Newby HVAC&R Wholesale Parts and Supplies Company. Louis became a member of ASHAE in 1957 to gain more opportunities for interaction with HVAC consulting engineers. By doing so, he automatically became assigned to the local Chapter and started receiving copies of the Chapter newsletter, the *Sou'wester*, in the mail which notified him of meeting dates, times and locations. Upon attending his first meeting, he would have been issued a Chapter roster with the contact information of all members.

At some point around February or March, 1966, William J. "Bill" Collins Jr., Chapter past president, twice past regional director, and Society board member, and Lloyd Von Tungeln, then Chapter president, brainstormed names of who they would like to put forward for nominations to the Society-level committees. Others may have been in the room as well. Appendix 5 contains the actual hand-written notes of proposed names and committees, presumably in Bill Collins' own hand since it's on his company's letterhead, or perhaps dictated by Bill to his secretary, to Lloyd, or someone else.

In looking at the page, it appears that they started by making a list, in pen, of prominent members in the Chapter with a dash to the right of each name. They then, still using a pen, started at the top writing the name of the committee to which they would like to see each person nominated. The name at the top of list was "Nettleship" and "Industrial Refrig TC" was written to the right of his name. Louis must have been the first person

Known today as the Central Oklahoma Chapter of ASHRAE, the Chapter was originally chartered by Frank Loeffler, Sr. in 1935 as the "Oklahoma Chapter of the American Society of Heating and Ventilating Engineers" (ASHVE) which was based on the original name for ASHRAE when it was founded in 1895. ASHVE as a national Society changed their name to ASHAE in 1954, just three years prior to Louis Nettleship joining. The Oklahoma Chapter was rechartered in 1965 as the Central Oklahoma Chapter of ASHRAE to help distinguish it from the Northeastern Oklahoma Chapter which serves Tulsa, Oklahoma and surrounding area. The Northeastern Oklahoma Chapter was actually chartered back in 1948, but it took 17 years for the Oklahoma Chapter name overlap to be rectified.

5/6/71 Taffy is still going strong. During the evening while Mother and I are watching TV, she lays on the divan snuggled up close to mother – then just about 10:00 (and she doesn't miss it a few minutes either way), she'll get down off the divan and walk back towards the bedroom – as she passes my chair she'll stop and stand right in the middle of the floor, and look up at me, and wait until I get up and go to bed. She knows exactly when its bedtime. In the morning, she stays in bed when I get up but at just the exact time that I'm down to the bottom of the first cup of coffee, I hear her jump off the bed and come staggering out to the living room to have her morning coffee. She drinks it and goes right back to bed – doesn't even want to go outdoors. On Saturday's she knows it's nap afternoon, and when I get home at noon, she runs and jumps on the bed, where she stays until I have a bowl of chili and join her. What a dog!!!



The Sou'wester

Central Oklahoma Chapter News-Letter
American Society of Heating, Refrigerating and Air-Conditioning Engineers

VOLUME XX, Number 3 DECEMBER 1965

PRESIDENT'S MESSAGE

THERMAL SYSTEMS CENTRAL PLANT
SUBJECT FOR DECEMBER 9TH

The title of the presentation at our December 9th, 1965, meeting will be "Thermal Systems Central Plant Facilities in Downtown Oklahoma City."

Mr. Ernest E. Groteheed, Project Manager for the Downtown Oklahoma City Central Plant, will be our featured speaker. Mr. Groteheed is a Registered Professional Engineer in Oklahoma, having done graduate work in Power Engineering at Ohio State University and the University of Oklahoma. His undergraduate work was done at the University of Akron.

Mr. Groteheed has had continuous experience in power plant operations and design. Before becoming associated with Thermal Systems, he was Water Production Superintendent and Water Utility Engineer with the Oklahoma City Water Department.

Mr. Ed Rhoades, Assistant Public Relations Director for Oklahoma Natural Gas, will assist Mr. Groteheed in the question and answer session.

With Urban Renewal playing a big part in our city's future, Thermal Systems central plant will play a big part in urban renewal. The subject matter for our meeting should be informative and interesting.

The date.....Monday, December 9
The place.....Johnson Inn
The time.....Cocktails' 5:45 PM
Gruntle' 6:30 PM
Table' 6:45 PM
Meetin' 7:30 PM

WHAT A S H R A E?

Every man has debts for the good things in life. Aside from your parents, it is your church, a wise friend who counseled you, the influence of something, a teacher who inspired you, your wife, children; all of these and many more contributed to your blessings today.

We pay these debts in stewardship in our church, being a member, working in Kiwanis or other civic service clubs, activity in our Chamber of Commerce, and just being good citizens.

But there is another debt, - one I feel strongly. I am blessed with my vocation, my capability to provide for my family. I am proud of my industry. I am sure each of you feel as I do. We can pay this debt by supporting and promoting our industry. This is WHAT A S H R A E.

Harry Koutres

Please return the reservation card at once!

that came to mind as having the most clear-cut match between his technical knowledge and one of ASHRAE's established Technical Committees (TC). With Louis being back in OKC for over 10 years at this point, and Bill Collins being an HVAC consulting engineer, Bill would have no doubt been very familiar with Louis' knowledge level in the area of refrigeration.

The second name was "Bill Flynn" with "Membership" next to his name. Then "Bill Johnson" with "Fuels & Combustion," however, "Fuels & Combustion" is crossed out in pen. Apparently, someone in the room had second thoughts. Next on the list are Louis Loeffler and Earle Gray, but they didn't get a committee written in pen next to them. Then was Walt Glancy with "Heat Transfer" next to his name; it's also crossed out, but it's crossed out in pencil. One can imagine that after Bill got past the first couple of names, he started having a little more difficulty assigning committees, so whomever the note-taker was, they switched to pencil before the page got really messy.

Many more committees on the list are written down in pencil. Names that never got a committee were scratched out. Someone else's handwriting, in pen is on the right-hand side of the page showing this truly was a collaborative effort.

On the left-hand side of the page is "OK," "Out of town," "No," "Yes" next to almost every name. These must have been the responses of the individuals after being called and asked if they would be willing to serve if elected. Louis Nettleship responded in the affirmative, as did everyone else except for Walt Glancy, whom they apparently couldn't get a hold of, and John Carnahan who appears to have said "No" to the offer to work on the Guide and Data Book committee. Interestingly, Bill Collins' own name was listed and then crossed out indicating that he, himself, didn't want to be nominated to another committee at this point in time.

The second page of Appendix 5 is the actual letter that Lloyd Von Tungeln mailed to Andrew Boggs at ASHRAE Society.

Very shortly after Louis received his call for nomination to a Society technical committee, he received another call on March 24, 1966, this time from senior member of the Central Oklahoma Chapter, Guillaume Thomas (G.T.) Donceel, who was serving on the nominations committee. Certainly the proverbial phrase "no good deed goes unpunished" comes to mind. Louis had been a member for over 10 years before he agreed to serve on the Society's industrial refrigeration committee. That was good enough for G.T. Donceel to decide it was time for Louis to get his feet wet in Chapter operations.

Mr. Donceel asked Louis if he would be willing to accept a nomination as Chapter treasurer for the upcoming 1966-67 Chapter year. Louis knew that an election to Chapter treasurer for one year actually meant an election to treasurer the first

11/5/71 There was a man went to the doc for a check-up. During the examination, the doc asked the man, "Do you get up grouchy in the mornings?" the man answered, "No, I let her sleep."



Photo 3 - William J. "Bill" Collins Jr., 1964

year, then an appointment to Chapter secretary the second year, Chapter vice-president the third year, and Chapter president the fourth year; commonly referred to as "moving through the chairs."

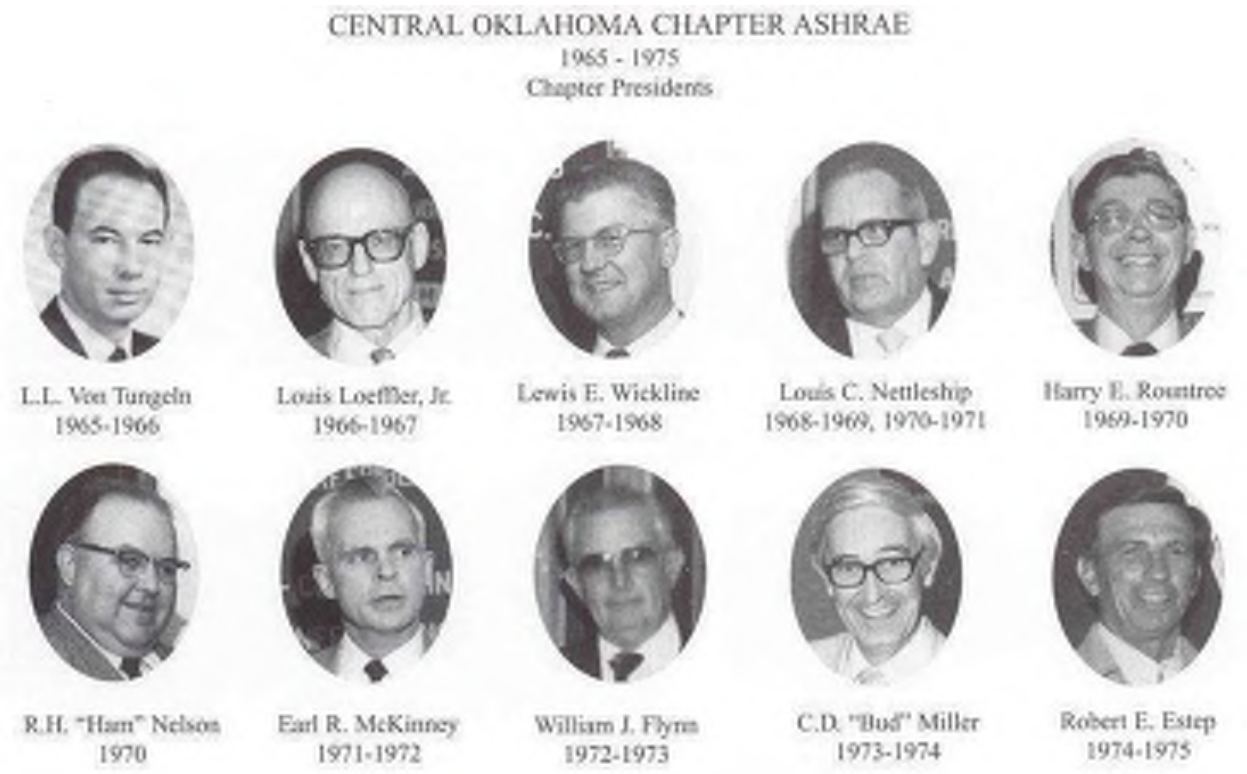
Louis may or may not have known at this time in his life that the year following service as Chapter president included a year on the board of governors which was to be followed by another year as Chapter assistant vice-president and delegate to the regional conference, and then followed potentially by a career of continued service on the board of governors and special committees.

But, even knowing what he knew, Louis proceeded to write a letter, the same day he received the call from Mr. Donceel, to Louis Loeffler Jr., then Chapter vice-president and president-elect for the 1966-67 year. Louis' letter to Mr. Loeffler stated that he was willing to accept the nomination and that he considered it an honor (Appendix 6).

The ASHRAE calendar year runs from July 1st to June 30th. So, all officers officially take over their new positions on July 1st even though they are normally "installed" in the presence of the membership at the last Chapter meeting of the year, in May. Back in the 1960s, the COK had board of governors meetings every month of the year and they rotated someone through the treasurer position like all the other officer roles. Today, the COK has been in the habit of re-nominating the same person as treasurer, bypassing that seat on the way to becoming president. Also, at the time Louis started in Chapter operations, they were in the habit of having the incoming president preside over the June board meeting, but the outgoing secretary and treasurer would normally continue their duties until the July board meeting.

Therefore, in July, 1966, Louis began serving as COK Chapter treasurer at the first board of governors meeting of the year. At the beginning of the ASHRAE year, during the summer prior to any Chapter meetings starting up in the fall, the treasurer did not have much responsibility aside from accounting for money collected at the annual summer BBQ. Amazingly, the COK Chapter wasn't in the habit of operating from a formal approved budget at that time, so Louis didn't even have the task of working with the board and officers to put together a proposed one.

11/19/71 Got me a new calculator this week. It's really not new – about 7 or 8 years old. Traded my little old antique Monroe in on it – it's a later model Monroematic. Didn't see any reason to spend a lot of money buying an electronic because I don't use one that much. Only use it to work on cash flow and budget figures, extend and check inventory prices which comes only once a year, and addition of estimates. For anything where I don't need to get to the exact penny I use my slide rule – it's much faster and a lot easier. As you know, I can make a slide rule talk to itself, and if I'm figuring some equipment for a customer, and he is sitting here watching me, he can watch a calculator and tell what I'm doing, what kind of discount, etc. But if use a slide rule, he doesn't have the slightest idea what I'm doing.



Just as Louis was getting into the swing of things as Chapter treasurer, just prior to the first Chapter meeting of the year in October, Bob Allsman, the Chapter President, suddenly had to move to Detroit due to a transfer with his employer. The Chapter bylaws at that time stated that in the event of a vacancy to one of the Chapter offices, the board of governors shall make an appointment to fill the vacancy. The board of governors met and decided that all officers should immediately move up one chair. This caused Louis Loeffler Jr. to move up to president; Lewis E. Wickline to move up to vice-president; and Louis Nettleship to move up to Chapter secretary. The board then made a motion to nominate Harry Rountree to treasurer; they voted, and Harry was elected unanimously.

Interestingly, the very next year, John Levenhagen was elected by the membership to treasurer, but he changed jobs, and industries, in December, 1967, and quit ASHRAE leaving the treasurer's position open again. That year, the board voted and filled the open position with Robert H. "Ham" Nelson.

In those days, the secretary played a much larger role than today. Presently, the secretary is responsible for the meeting minutes at the board of governors and Chapter meetings, and, realistically, not much else. With computers, all correspondence and documents are saved by the authors and collected by the historian at the end of the year. The president communicates directly via email to the Chapter membership and regional

12/10/71 I didn't sleep too good last night. Ate a big supper of roast beef and noodles that Mother had fixed. It was so good, I ate too much. Then she gave me a great big helping of raisin nut cake with ice cream on it. About an hour later I was watching TV and decided I needed something to munch on, so went out to the kitchen and got me a big glass, put a bunch of ice cream in it, a little milk, threw in a couple of chocolate cookies, and a handful of cashew nuts, and ate it. That sounds pretty good and I don't know why I kept waking up at all hours of the night and going to the kitchen for some soda.

and Society officers. Right or wrong, today in the COK Chapter, the president ends up performing most of the duties actually assigned to the secretary as outlined in the *ASHRAE Manual for Chapter Operations*. In the 1960s, however, that was not the case.

When Louis moved into the role of Chapter secretary, he not only took notes at meetings and produced the minutes (actually his secretary at the office produced them from his notes using a typewriter and carbon paper), but he also was responsible for producing all official correspondence that went out to the membership, the region, and to the Society. Additionally, he would have to collect and maintain the Chapter records for the year, including financial reports turned in at the board meetings; and he would have to ensure invitations for all meetings were sent out in a timely manner, including proposed agendas for board meetings. On top of all that, it was his responsibility to ensure delivery of the newsletter to every member (around 200 copies). In the 1960s, being the Chapter secretary meant authoring dozens of letters and physically mailing hundreds over the course of a year. Today, with email and distribution lists automatically generated by membership management programs, we tend to be spoiled.

Louis Nettleship was an excellent note taker and prolific letter writer. His meeting minutes were all very detailed. Appendix 7 contains one of his two-page Chapter meeting minutes provided as an example. Note how the "Technical workshop" was held during the social hour, and that at the end of the first paragraph, Louis made a point to say, concerning the technical session: "Approximately 40 were in attendance ***at all times***."

What is most impressive about Louis' writing was how diligent he was in writing letters. For even the smallest items concerning Chapter business, he would take the time to author a letter, dictate it to his secretary for typing, sign it, mail it, and keep a copy in his files. But even on routine matters, Louis always had an air of professionalism in his

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Christmas 1971

Dear Linda and Jim:

Since Christmas is for sweet good little children, I'll write this letter to my two sweet lovable grandchildren, Linda and Jim Hall, and I'm sure you've been good because I was talking with Santa Clause over in the coffee shop this morning and he said he was on his way to Pennsylvania to see you. He was a little worried about one of his reindeer because he had a sore hoof, but he thought he would make it okay. Santa sure ate a big breakfast before he left here - he ate 9 eggs, two pounds of bacon, six pork chops, two loaves of bread made into toast, and drank 16 cups of coffee. No wonder he's got a round little belly. The lights on his sleigh were a little dim, so I put some new batteries in for him. We fed his reindeer a whole bunch of hay, and some milk for two of the young reindeer. I noticed one of them had a little cold, so I gave him a box of Kleenex to blow on. Santa spent last night in a room over in the Habana Inn, and I let his reindeer sleep here in our warehouse. Watched them take off this morning, and before long they were way high in the sky, out of sight. Sure hope they got up there okay.

B-Mom opened the big Christmas box you sent to us, and I never saw so many packages. Presents in there from Jim and Linda to everybody. We haven't opened them yet, but we sure do thank you. I just can't wait to see what's inside them. This is Thursday morning, so I'll have to wait until tomorrow night, Christmas Eve. The packages are all down under our Christmas tree, and we have such a pretty tree with little blinking lights all over it. Bruce's parrot looks at it and says, "AWK, AWK". I don't know what that means in parrot talk, do you?

You probably won't get this letter until Monday, after Santa Clause has been there, but I love you all and hope you really have a wonderful wide-eyed time under the tree.



Photo 4 - ASHRAE Chapter Meeting at the Habana Inn, circa 1967. Louis Nettleship at head table, far right

letters, never neglecting to provide a polite affirmation when deserved. Today, we have the ability to send an email instantly and almost effortlessly, but very few people take the time to properly correspond and include a 'thank you' for a job well done. The idea of writing a letter and mailing it today is almost extinct.

Several of the appendices include samples of professional letters written by Louis. The letters in Appendix 14 are particularly good examples. The first is from Louis to John Kamp, copying I.D. Nease, where Louis graciously complements Mr. Nease for providing snacks for the bus trip to the Tulsa joint Chapter meeting and where he insists that Mr. Nease be reimbursed for the cost of the ingredients he and his secretary used to prepare the snacks. The second letter is where Louis takes the time to thoroughly thank Jim Johnston for sponsoring the annual dinner/dance and for providing Faberge perfume to all the women attending. The wording of that second letter shows that Louis was a real class-act.

Louis was also quite a character, however, to which anyone that knew him would attest. At the

5/5/72 "Oh, I got a brand new pair of roller skates – and you got a brand new key", was what the waitress was singing to me over in the coffee shop early this morning. I told her my key was old and probably didn't work anymore, and also that I doubted her roller skates were very new. So I'm not starting off the day too well.

August 14, 1967, board of governors meeting, Bill Collins moved that a committee composed of Lewis Wickline, Louis Nettleship and Louis Loeffler Jr. be charged with selecting a new meeting place for the coming year (reference Appendix 8). Bill called this committee phonetically, the "Three Loo-is-es" since all their first names were pronounced the same. Louis Loeffler called it the "Three L" committee.

The old meeting place, Val Gene's at Penn Square, had enough room for the social hour and Chapter meeting but just couldn't accommodate a separate space for a technical session going on at the same time, plus, they felt like they weren't getting good service. The three "L's" each went out to investigate facilities that could accommodate a meeting of around 150 people, plus a separate room for technical sessions, and collect price quotes for meals, the bar, set-up, tear-down, etc. They visited the Habana Inn on Route 66 (recently converted to I-44) and Penn, Howard Johnson's on North Lincoln, and the Home Builder's Building.

The committee decided that Howard Johnson's would be difficult to work with since the Chapter would have to coordinate with one person for the restaurant catering and a different person for the meeting rooms. Plus, Louis Nettleship got the feeling that the Howard Johnson's restaurant manager "could not care less about whether we patronized him or not." They also determined that the catering at the Home Builder's Building would be too expensive. So, they chose the Habana Inn.

The board of governors had given the Three L committee authorization to not only investigate meeting locations, but to decide and commit to one. Appendix 9 contains Louis Nettleship's letter to Harry Rountree, then acting Chapter secretary, and his letter to the manager of the Habana Inn. In Louis' letter to Harry, he informs him of the details behind the decision to select the Habana



Photo 5 - Old paper nametag, circa 1965. Front and back

Inn and that, since Harry was out of town, he had taken the liberty of acting as secretary and wrote the confirmation letter to the Habana Inn. Louis says that he hopes "this is okay with you."

Even though the committee consisted of three "loo-is-es" it seems like Louis Nettleship might have taken over and sort-of ramrodded the Habana Inn choice. If that were true, what could have been his motivation for doing so? Certainly the fact that the Habana Inn was directly across the street from Bradford & Nettleship Supply couldn't have had anything to do with it. A map in Appendix 9 shows the location of the two businesses. Incidentally, today, the Habana Inn is advertised as an "Adults-only gay resort with nightclubs." Knowing Louis Nettleship's sense of humor, and how straight-laced the Society of engineers was in 1967, he would have found that to be funny.

5/19/72 Old Houston next door is still beautifying his yard, and its buggin Mother to pieces. She just can't understand why I can't get the grass in our yard to look as pretty as theirs. That's the trouble with women – they don't understand the importance of naps.

On September 12, 1967, Louis Loeffler Jr. wrote to Morris Backer of the Houston Chapter and asked if he would ship one of their Chapter name badges to him so that he could show it off at the next COK board of governors meeting. Louis Loeffler wrote in his letter that he had just recently made a trip to Houston, and while there, he attended a Houston Chapter ASHRAE meeting. While at the meeting, he noticed a large carrying case which they used to hold identification "buttons" for the members.

The old name tags the COK was using were 3" wide by 7" tall card stock cut to fit in a shirt or jacket breast pocket with the upper portion extending out of the pocket. One side was blue and said "ASHRAE Member" and had a line for you to write your name. It also had the month of each Chapter meeting so that you could track your attendance right on your nametag. The flip side was red, said "ASHRAE Guest" and also had a line for your name and with whom you attended. The paper name tags functioned well enough, however, when Louis Loeffler saw the ones Houston was using, he was very impressed.

Once Louis Nettleship examined the sample that Louis Loeffler brought to the December 4, 1967, COK board of governors meeting, Louis Nettleship, then Chapter vice-president and president-elect, made a motion that a "committee be authorized to proceed with the purchase of badges and cases in an approximate amount of $225." (Appendix 10). The "badge committee" that was formed in 1967, and responsible for doing all the legwork to determine how to get the badges fabricated and stay within the imposed budget, was composed of Louis Loeffler Jr., Ham Nelson, and Bill Hulsey.



Photo 6 - Metal name badge. In use since 1968

The badges the two Louis' proposed were round, blue in color, and had a clear window in the middle. Typed name cards were prepared by the membership committee that slid into the back of the badge and shown through the clear window. Having a removable card with the name allowed the name tag to be replaced and the metal badge reused indefinitely.

The final cost for 250 badges, one wooden carrying case that could hold 200 badges, and another one that could hold 100 badges, was $206 including delivery. That equates to approximately $1,460 in 2016 dollars! What Chapter would spend over a thousand dollars on name tags today?

The badges were used for the first time at the February 12, 1968, Chapter meeting. That happened to be the annual joint meeting between the Central Oklahoma and Northeastern Oklahoma Chapters. The COK members certainly

7/28/72 It's been so hot when I go home in the evenings that I haven't mowed the yard for almost a week, and the back yard especially looked terrible, so I waited until about 8:00 last night and mowed the back yard. When I got thru I was wringing wet, so I stayed out and let the breeze blow on me a little while before going in the house. I put the bird bath back in place and filled it with water. When I got thru, I thought how nice it would be to squirt some of the water on me, so I turned the hose up toward my head, intending the stream to hit on my forehead – instead it went right up my nose, clear on up in my sinus – boy, you talk about dumb Texas Aggies! Made me so mad.

showed up those Tulsa guys that day! However, after the first meeting, the COK BOG decided that approximately 20% of the metal name badges needed to be returned to the manufacturer to correct a manufacturing defect. They found that about 50 of the nameplates in the badge windows were on a steep slant, due to the card holder fastened to the back of the badge being out of line with the window on the front of the badge. Luckily, they ordered enough extra that those 50 didn't need to be used yet. Having crooked names wouldn't have looked so good in front of the Tulsa guys. Also, the BOG decided all the typed paper name cards needed to be redone to include company affiliation, rather just name and badge number.

February, 2018, will be the 50th anniversary for those metal name badges, as they are still in use at COK Chapter meetings today. Over the years, as senior members pass away, and others leave the Chapter, their badges are recycled for new members coming in. The attendance committee, especially Jim Wolfe, has issued a badge with a freshly printed name card in it to every new member, and kept the badge list up to date. They've also had to perform a repair or two on those old wooden carrying cases.

Incidentally, during the 1970-71 year when Louis Nettleship was president the second time, and with I.D. Nease serving as membership chairman, there was such an increase in the number of members, that a second order for blue metal name badges had to be placed. I.D. Nease would go on in the 70s and 80s to be the most effective, results driven membership chairmen the Chapter has ever seen.



Photo 7 - Bill Collins and Lewis Wickline with golden gavel 1968

At the May 13, 1968, COK Chapter meeting, outgoing president Lewis Wickline introduced Charles Baldwin, chairman of the tellers committee who announced that the slate of candidates for officers and board of governors for the coming year were elected. They were:

1/5/73 Sunday when Ellen was here I picked up Charlotte and held her in my arms, and her head was alongside mine. She turned and stuck her tongue in my ear, clear up to my brain – just one lightning fast swab – sure cleaned out my ear – but that evening I noticed every now and then when I'd turn my head there was a clicking noise in my ear, and also felt like I had a little drop of water deep in my ear, like it feels when you go swimming sometimes. Monday it was still there, and Tuesday and Wednesday, and was about to drive me up the walls. Actually I decided her saliva was sticky and two little parts of my inner ear were sticking together and then pulling apart when I moved my head a certain way. When I got home Wednesday evening I looked for some ear oil and we didn't have any, so I got a washrag full of warm water and leaned my head sideways over the bathroom sink and squeezed water into my ear, several times, and then let my ear dry out, and it seemed to have cured the situation. I had tried cotton and Kleenex in my ear trying to get to the cause of the trouble but couldn't. Just thought you'd like to know how to cure it if your dog ever gives you an ear swab.

President
Louis C. Nettleship

Vice President
Harry Rountree

Asst. VP and CRC Delegate
Louis Loeffler Jr. (past president)

Secretary
Robert H. "Ham" Nelson

Treasurer
John Kamp

Board of Governors
Carl Jensen (Alternate Delegate, past president)
Bill Flynn
Earl McKinney
Lewis E. Wickline (immediate past president)

Lewis Wickline, in his last official action for the year, turned over the Chapter to president-elect Nettleship. President Nettleship presented past-president Wickline with a past president's pin with diamond. Louis made some remarks including his personal thanks and briefly his plans for the coming year.

One of Louis' plans for the upcoming year was to immediately call a special meeting of the board of governors on May 23, 1968, at his office. It was a "special meeting" not because of an emergency issue that needed to be addressed, but in that it was in addition to the regularly scheduled monthly board of governors meetings. Louis simply did not want to wait until the June meeting to get started and discuss with the board and officers certain things that were on his mind. The Chapter was just coming off the year when they won the inaugural "Golden Gavel" award and Louis was probably pretty excited to get things going.

First, he wanted to ensure that everyone was good with keeping the meeting location at the Habana Inn and getting the meeting dates communicated to them so that the rooms were reserved. Check.

Second, he wanted to add three new board of governor positions to the existing four. His reasoning for this was that the Chapter had grown over the years and additional board members were needed to accomplish all the work to be done. This request was going to take a little longer since it would require a change to the Chapter bylaws. Louis Loeffler, Bill Flynn, and Earl McKinney would eventually, at the June board of governors meeting, form a committee to explore this further.

Three, Louis wanted to permanently change the schedule of events at the Chapter meetings. Traditionally, the Chapter had sporadically offered a technical training session at the Chapter meetings. They were provided as the Chapter Technical Committee was able to line up volunteers to teach. Since they were sporadic, there was no designated timeslot for them. So, when a technical session was organized, it would be scheduled to start the same time as the regular meeting did, and the regular meeting started with the "social hour" which is when Chapter members arrived after work to converse and have drinks from the bar. Naturally, under these circumstances, the technical sessions were poorly attended.

2/23/73 The membership chairman of our local ASHRAE chapter is on a big kick to increase membership and has started a new "pass the duck" campaign. The crazy guy got a big white live duck and gave it to Bill Flynn, the President and told him when he got a new member signed up, he could give the duck to any member he wanted to, and that member would have to get a new member before he could pass it on to someone else, etc. Six or seven people have had it so far, and I understand Marion Cohenour was going to give it to me last week until he found out I was home sick, so he gave it to someone else. I told him it's a good thing I didn't get it because the one thing I love to eat is duck, and if anyone gives it to me, it'll wind up in my oven before the sun goes down. Their answer to that is that there is a $50 price on the duck if you lose it. I don't know who has it now but think it's a lousy way to treat a poor old duck.

Louis proposed two things in regard to this: 1) ALWAYS offer a technical training session, and 2) expand the schedule, starting earlier with the technical session having its own hour, followed by the social hour, then dinner, then the main program.

Knowing that each of these couldn't realistically have its own dedicated hour, making the entire evening's affair a four hour event, he proposed each time block be 45 minutes.

Louis' proposal was to also address another issue of the Chapter, which was a problem with members who would come to the meeting for the "Happy Hour" only, not staying, or paying, for the dinner and the main program. Advertising the official start time for each meeting to coincide with the start of the technical session, not the social period, would, he hoped, cause a greater attendance at the training session and allow attendance and money to be taken early. Plus, he planned on enforcing this by making a rule that the portable bar set up for the Chapter meeting couldn't open until the technical session was concluded.

Appendix 12 contains the letter to the membership on the change to the agenda. The following is how the agenda would be listed in the Chapter roster for years to come:

3/2/73 Well this coming Wednesday morning, March 7, is my daughter's birthday. I can remember the day well, 28 years ago in Waynesboro, Pennsylvania, when I was in Frick Company's estimating department working away and my wife called me and said she needed to go to the doctor because she thought something was happening. I punched out on the time clock at about 11:30AM and went home and got her and took her to see Dr. Reynolds in his little office a few blocks away from the house. I waited on her and when she came out she told me the Doc told her to check in at the Waynesboro Hospital, BUT that she had time to go by the house and wash dishes. I couldn't believe it - that anyone at a time like that would ask the doctor if she had time to go home and wash the dishes first. But your mamma was always a woman of great determination, so we went by the house and washed dishes. Then she gathered up her little suitcase and off we drove to the hospital about 1:30 PM. They put her in one of those pre-delivery rooms and the nurse told me I was no longer needed, and I should go out to the waiting room. I went out there and found five women seated around a big long table folding Red Cross bandages for the war effort (this was 1944). One of them was Mrs. D. Norris Benedict (the wife of the president of Frick Company) and she immediately sat me down and made me start folding those big bandages. She said it would do me good because it was a lot like folding diapers. I've often wondered what the medics out on the battlefield thought when they saw some of those bandages I folded because I was so nervous I wasn't even paying any attention to what I was doing. I know I must have folded up some cigarette butts in a few of them. About 4:00 Dr. Reynolds showed up out in the waiting room all dressed up in his suit, smoking a cigarette, and acting like nothing had happened, and informed me I was the proud father of a baby girl, and asked me if I'd like to see her. All the women cheered and we all went rushing back to look thru the glass to see "my baby daughter". She was the prettiest baby I'd ever seen except for one thing - she had enough black hair on her head to stock a wig shop. It was so thick it was clear down on her forehead and you had to brush it back to see her little beady black eyes. Her head was the only thing showing out of the blanket so I wanted to see the rest of her to see if she was covered with hair, I was sure relieved to find that her body was a beautiful soft pink without any hair on it. After checking to make sure her mamma was okay. I went to the drug store, bought cigars and went back to the office - walking on air - the proudest papa you've ever seen. Wonderful - you bet!!

Tech Session	*5:15 pm*
Greetings	*6:00 pm*
Eating	*6:45 pm*
Meeting	*7:30 pm*

Even after the change, many times the question and answer portion at the end of the technical session would go long. At the same time, despite Louis' best efforts, many members would still skip the technical session and arrive on time or early for the social period. The facilities at the Habana Inn were good, but there was only a flexible partition separating the technical session room from the bar and dinner room. The flexible partition was not soundproof and the technical session received some noise interference when it ran long (Appendix 13). However, the growing noise from the other room did serve as a good indicator that it was time to wrap it up, especially when you would get an engineer in the audience who seemed to have an endless supply of questions.

On February 3, 1969, fifty-eight COK members rode the bus to Tulsa to attend the annual COK-NEOK joint Chapter meeting. The attendance contest was "declared" a tie and presidents Louis Nettleship and Everett Nolte had to paint each other with "war paint."

They had very odd ways back then of calculating the attendance of each Chapter to determine the winner of the attendance, or ton-mile contest. Strange variables were often applied such as factoring in the height of the members or who had the longest hair. Even when the basis for the calculation was clearly spelled out, you never knew what strange turn of events might result in the impairment of judges and their ability to render an accurate assessment.

Many years the real prize for winning was actually not receiving the punishment the loser received, such as the Chapter president getting a pie in the face. Sometimes, however, the attendance calculation resulted in a mathematical tie and both presidents would either be winners, or losers depending on your point of view. The March edition of the newsletter was always informative and entertaining as it reported just exactly how the results were calculated.

In April, 1969, despite trying hard, and having fun along the way, Louis did not win the recently conceived, hotly contested, Golden Gavel award.

The first Golden Gavel award was given in April, 1968, to non-other-than the Central Oklahoma Chapter with Lewis Wickline as President. However, in April 1969, the Golden Gavel didn't go to Louis Nettleship, it went to Robert Sieve and the Shreveport Chapter. It may have actually looked suspect for the Central Oklahoma Chapter to help conceive the award and then win it the first two years in a row. Louis may have been a victim of circumstance in that regard. More likely however, the Shreveport Chapter beat Central Oklahoma as

3/15/73 Tomorrow night is the annual ASHRAE Dinner Dance, and Mother and I are planning on going. Course she may bring me home right after dinner because "we" don't dance much anymore. She's too old. Ha!! If I want her to know I said that, I'll tell her. It's a Saint Patrick's Eve Dance and you're supposed to wear something green, even if it's just paint. Can't you just see us going with nothing on but green paint? It's at the Lincoln Plaza ballroom over on N. Lincoln Blvd., tickets $10.50 per person, which includes a free cocktail hour before dinner, but you have to bring your own hooch for the dance. There are those who can get so loaded in the free hour before dinner that they don't need any more for the dance. We do have some entertainment planned for right after dinner - Linda Wright, vocalist and entertainer - she's a lovely young chick that's quite popular around here. I certainly enjoy listening to her. We had her at the dance last year, and during one of her numbers she asked all the men in the audience whose first name was Bill to come up on the stage to dance with her. Lewis Wickline was the first one up there and told her his name was Bill.

a result of Louis advancing through the chairs one year ahead of time and not gaining the needed experience to run the Chapter at a Golden Gavel level.

As described in the Central Oklahoma Chapter document, *The Life and Times of William J. Collins Jr.*: *...the discussion that resulted in the Region VIII Golden Gavel Award began at the ASHRAE Winter Meeting in Columbus, OH, in January, 1968, when Jack Thompson, Regional Director of Region VIII, discussed with George Meffert the need for improved Chapter operations with some sort of competition. The award was to have about twelve criteria judged by a committee of five. Bill was to be Chairman without a vote and left with the task of actually putting the award into action, hoping that the idea might spread to other regions thus improving Chapter operations throughout the Society as indeed it did. The award exceeded all expectations and has become a hotly contested competition in the region to this day.*

To add insult to injury, at the Region VIII CRC, hosted by the Arkansas Chapter in Little Rock in April of 1969, Louis didn't bring the golden gavel trophy with him to allow it to be awarded to the Shreveport Chapter. Bill Collins had purchased the actual golden gavel just prior to the 1968 CRC and personally awarded it to Lewis Wickline. When Lewis Wickline turned over the reins as Chapter president to Louis Nettleship at the May, 1968, Chapter meeting, it automatically made the keeping and safe care of the golden gavel trophy the responsibility of Louis Nettleship. What Louis Nettleship didn't understand was that it was to be a traveling trophy. Louis' position on this, however, was that Bill Collins, himself, told him that he, Bill, would purchase a new golden gavel trophy each year to award to the winning Chapter. Bill Collins, however, either didn't remember saying that, or changed his mind, possibly after considering the cost of the gold-plated gavel. We may never know.

At the Region VIII CRC in 1969, Bill Collins, much to his chagrin, had to award the Golden Gavel without the golden gavel. With that CRC being held in Little Rock, Arkansas, it wasn't like Louis could jump in the car and head back to Oklahoma City real quick and grab it.

In his apologetic, but defensive, letter to Mr. Robert Sieve of the Shreveport Chapter, Louis writes:

Dear Bob:

We are forwarding to you today under separate cover, by insured Parcel Post, the ASHRAE Region VIII Golden Gavel. We certainly want to congratulate you on winning this award - it couldn't have happened to a nicer bunch of gentlemen.

For the written record, we would like to straighten out the remarks of Mr. Thompson in Little Rock, who said, "[We] didn't bring the Gavel along with us, because we were so sure of winning it again." We were informed before leaving for Little Rock, by the originator of this award, that it was not necessary to bring the gavel along, because the plan was to purchase a new one each year. Apparently Mr. Thompson was not aware of this.

We enjoyed very much being with you in Little Rock, and hope to see you again soon. With our kindest regards, we remain,

Yours sincerely,

Louis C. Nettleship,

Chapter President

cc: Wm. R. Johnson
J. W. Thompson

A few things could have been pointed out as potential reasons Louis and the Central Oklahoma

4/5/73 Ellen came over Monday evening and left Charlotte with me and Taffy while she went to ceramics class with Mother. Poor Taffy - she gets so mad it takes her all the next day to recover. What really makes her mad is for her to be standing in the middle of the floor barking at Charlotte, and Charlotte walks up and sticks her nose about an inch from Taffy's open mouth, and looks inside to see where all the noise is coming from.

Chapter didn't win the Golden Gavel that year. Perhaps membership and research contributions were not high enough, or one committee or another wasn't active enough. Or it could have been something as simple as administration. Ham Nelson was the secretary the year Louis was president; however, Ham was not a very good note taker. His meeting minutes, for both the BOG meetings and Chapter meetings were very abbreviated. On the few occasions where Ham was not present and someone else had to take notes and write the minutes (one time by Harry Rountree, once by John Kamp, and once by Louis Nettleship), in each case, the minutes were more thorough and complete.

Examining Bill Collins' original criteria for the Golden Gavel award (ref. Appendix 18) shows that the quality of meeting minutes was taken into account in the judging criteria. As president, it was Louis' responsibility to make sure that good notes and minutes were being taken and recorded. During Louis' second term as president in 1970-71, he had the benefit of Bill Flynn as secretary. Bill took much better notes and produced more comprehensive minutes.

The 1969-70 year was a good one and ended with Harry Rountree winning the Golden Gavel. Now Louis Nettleship could be known as the only COK Chapter president to NOT win the Golden Gavel since its inception. Harry had the benefit of a full four years' experience going through the chairs. As Louis' vice-president, Harry also had the benefit of being at the May and June board meetings at the end of Louis' year where they discussed, with the benefit of Bill Collins' input, lessons learned and where they might have been weak.

In May, 1970, Harry turned over the Chapter to Ham Nelson as president. However, the very next month, Louis Nettleship would find himself being Chapter president again, out of nowhere, and given a second chance due to the untimely death of Ham Nelson.

This time, learning from recent history that experience is the most important attribute a president can have, the COK board of governors took a different course of action when faced with a sudden vacancy at the top spot. From the minutes of a special BOG meeting called on June 4, 1970:

Bill Collins made the suggestion that, in order to provide more time for the present officers to gain experience in Chapter matters, the Officers remain in their present assignments and that a committee of three past presidents select and recommend to the Board a past president to serve as president for the coming year.

4/20/73 How is the bicycle riding going? When I was about eight years old my Dad got me a used bicycle for about $5 and I started peddling the Saturday Evening Post, Ladies Home Journal, and Country Gentleman. Saved enough in about a year to buy me a new bicycle, and I'll never forget that day. Boy it was some pretty bike – RED, and I polished it every day for the first couple of weeks. Later on, when I was in high school I bought a used Harley-Davidson motorcycle, but didn't keep it but a few months. After going over the handlebars into the dirt a couple of times, and seeing some of my friends with metal plates in their head, and broken legs, one kinda loses his enthusiasm for motorcycles. Besides, that cotton pickin' motorcycle must have weighed 800 or 900 lbs. If it got down on its side, I almost had to have help to lift it up again. But they sure are a thrill to ride, and I can easily understand any boy's desire to have one – especially since they don't have a cautious nature like an older person has. Today there is so much car traffic, it's pretty dangerous but we had a dangerous situation in my day too. We only had about 4 blocks of pavement in Fayetteville, and everything else was gravel road – and that gravel sure doesn't make a motorcycle very surefooted – and that gravel is sure rough on one's skin. Today you pay as much for a big Harley-Davidson as you do for an automobile, but if we get into a gasoline shortage I may have to start riding one.

This recommendation was placed in the form of a motion and passed. The three committeemen were: Bill Collins (Chairman), Bill Johnson, and John Carnahan. Then the minutes go on to record:

On Saturday, June 6, 1970, the special committee … advised Vice President Earl McKinney of their selection of Louis Nettleship to fill the vacancy of the office of President. Vice President McKinney polled the Board of governors by phone and Louis Nettleship was elected by unanimous vote. The official announcement was made to the membership on Monday, June 8, 1970, at the Annual Barbeque.

Bill Collins prepared a memorial page for Ham Nelson to be included in the 1970 Chapter roster.

Louis went to work right away. This time, he had been around this block just two years earlier and knew exactly what to do.

Louis assigned one board of governor member to serve as an ex officio member on each committee. These members were to serve as advisors to the committee chairman to help ensure every committee would meet their goals for the year.

Now past-president Harry Rountree reflected on the past three years as to what went well and not so well for Lewis Wickline, Louis Nettleship, and himself. He then put pen to paper and did an extensive write-up on what it takes to win the Golden Gavel. The write-up made its way to Region VIII Director, Morris Backer, who made copies and mailed it to every Chapter president in Region VIII.

I.D. Nease was brought on as membership committee chairman. He increased Chapter membership during Louis' second year an astounding 33%!



ASHRAE File

R. H. Nelson Services Set

Robert Harold "Ham" Nelson, 50, of 1425 NW 40, died Sunday in Mercy Hospital. Services are set for 10:30 a.m. Wednesday in St. Elijah's Antiochian Orthodox Church, NW 36 and Pennsylvania. Prayers of Mercy are scheduled at 7:30 p.m. Tuesday in Smith & Kernke Funeral Home.

He was born in Shamrock, Tex. He was a member of the Masonic Lodge and the Elks Club.

Nelson had been a mechanical contractor associated with G. S. White Co. for 25 years, and got recently with Natkin & Co. mechanical contractors.

He was a past president of the Oklahoma Mechanical Contractors Association, and in 1970 was honored as "Mechanical Contractor of The Year."

He was currently serving as president of the American Society of Heating and Refrigeration Engineers, and as secretary-treasurer of the Pipe Trades Panel.

Survivors include his wife, Ola, of the home; a son, Charles E. Nelson, Kansas City, Mo.; a daughter, Mrs. Don Bolen, Oklahoma City; his mother, Mrs. Homer Wade Nelson; three brothers, John, Marvin and Hershel, and two grandchildren.

Robert H. "Ham" Nelson

LEONARD E. DURGAN

Leonard E. Durgan, 81, of 3204 N Hudson, died Sunday in Baptist Memorial Hospital. Services are pending with Guardian Midtown Funeral Home.

Survivors include his wife, [illegible]

MRS. DEANNA POWELL

Mrs. Deanna Powell, of 3333 Belvedere, died Friday in Mercy Hospital. Services will be at 11 a.m. Tuesday in the First A.M.E. Methodist Church, with burial in Trice Hill Cemetery, under direction of the Rolfe Funeral Home.

She was born in Pittsburg Texas, and came to Oklahoma City in 1940. She was a member of the First A.M.E. Methodist Church, where she served as class leader, member of the choir and member of the [illegible] board. She also was [illegible] of the YWCA [illegible] Club.

5/11/73 Your Mother sure has great strength of character! The package you sent her marked "Do Not Open Until Mother's Day" is laying on the buffet in the hall and hasn't been opened. My Mother would have had it open before the Postman turned loose of it.

Louis invited in Region VIII director, Morris Backer to come to a special board of governors meeting and explain to the board and committees what he hoped to see from the Central Oklahoma Chapter that year. Mr. Backer also explained the details of the brand new PAOE award. Finally, Mr. Backer agreed to be the main program speaker at the October Chapter meeting.

At the suggestion of Morris Backer, Louis formed an ad hoc finance committee to put together a formal written budget that the Chapter would operate from – something the Chapter was not accustomed to doing, up to this point.

Louis' program committee was successful in getting the Society President, Frank Bridgers, to speak at the March Chapter meeting.

In an effort to increase consistent attendance at Chapter meetings, Louis and the attendance committee lead by Liman Niblack introduced a unique reward for good attendance. At the end of the year, every member who earned seven "points" for meeting attendance would receive an ASHRAE lapel pin (which they referred to at the time as a "tie tack" since all Chapter members were men and everyone wore a tie to the meetings). One point was awarded for each meeting attended in Oklahoma City, and two

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5/18/73 A few weeks ago in reading the Business Week I saw an ad of the International Mint Company in Salt Lake City offering silver ingots for sale and a brochure on silver. It interested me since our CPA here has been preaching buying such things as silver and Swiss francs to hedge against inflation because paper money isn't going to be worth any more than a piece of newspaper before this inflation is over with. I sent for the brochure and price sheet on silver and they sent it to me. A few days later some gal named Barbara called long distance and asked how much I wanted to buy. I told her I didn't want to buy any, I was just curious. A few days ago she called and said silver was going to take a big jump and tried to sell me some but I don't have the kind of money she's looking for. But sure enough silver did jump the next day. Went from about $2.15 per ounce to $2.505. And to think old Hickock, our CPA bought a bunch of it last year at $1.30. Course, buying it from a stock broker and buying it from these mint companies are two different things. International Mints wants $5.00 for a one ounce ingot, and even buying 100 oz they want $3.00 per ounce for it. I was looking in the 1972 World Almanac a couple days ago and found some more interesting information. It says the old silver half-dollar, made before 1965 contains .3616875 ounces of pure silver. At today's price of $2.505 per ounce, this means the old silver dollar has 90.7 cents worth of silver in it, so it's worth almost $1. BUT, let's look at the present sandwiched copper-silver half dollar that so far is quite plentiful. The Almanac says it has .1478934 oz. of silver in it, which doesn't sound like much, but if we multiply it by $2.505 we get 37 cents worth of silver. If silver goes to $3.38 per ounce, (which it will, and even higher), the half dollar has 50 cents worth of silver in it. Another interesting fact I discovered in the Almanac is that the quarter and dime of today have NO silver in them at all, they contain only copper and nickel. As for the silver dollar, I'm not sure. It says the 1965 law did not change the dollar, and it is 90% silver and 10% copper, but I think they must have changed it because the new Eisenhower dollar is a sandwiched coin of some composition. If what I've read is still true, and they haven't changed the half dollar again since 1965, it would seem an ideal thing for the small investor to buy half dollars. I bought a roll of 20 of them at the bank yesterday for $10 and these twenty would contain about 2.9578 ounces of silver at a market value of about $7.42, and Mother and I have started saving them. We aren't going to say anything to anyone else because if I'm right and the word gets around, everyone will be buying them up, just like they did the old silver ones. What do you think???

points for attendance at the Tulsa joint meeting between the Central Oklahoma Chapter and the Northeastern Oklahoma Chapter. At the end of the year, 44 lapel pins were awarded with a total cost to the Chapter of $15.50. Incidentally, today they cost $2 each.

The Chapter ran like a well-oiled machine, and at the April 24, 1971, Chapter's regional conference awards dinner in San Antonio, TX, the Central Oklahoma Chapter and Louis Nettleship won the fourth ever Golden Gavel (Appendix 18). Not only did they win the award, but the Chapter achieved the highest score recorded in the four years since it started. Plus, the Chapter earned the first ever PAOE Award (Appendix 4) with their composite PAOE score the highest in all the Society! (Appendix 30)

At the September 7, 1971, BOG meeting, a motion was made and approved to let the PAOE award certificate hang in Louis' office for one year before returning it to the Chapter. Somehow, certainly as an oversight of course, that certificate remained in Louis' possession indefinitely. It was among the many certificates that his son Bruce Nettleship provided in 2016 to be scanned and used to prepare this history report. Oddly, even though the PAOE is technically a Chapter award, rather than an individual award, it has one of Louis' engraved name placards neatly adhered to the bottom of the certificate. That had to have been attached at a later date, perhaps by Louis himself to put a little personal recognition on the generic certificate. That would fit perfectly with Louis' ornery character and sense of humor. Every Chapter who has earned the PAOE since then would be quick to tell you it's a team effort.

The original PAOE was different than what it has grown to be today. A year prior to the Central Oklahoma Chapter earning the first PAOE, at the April 1970, Region VIII CRC held in Houston, the Society president-elect Frank Bridgers was so impressed by the effect of the Golden Gavel competition among the Region VIII Chapters that he conceived the idea of the "Presidential Award of Excellence" that has come to mean so much to the Society today. In January of 1971, President Bridgers announced his "Award of Excellence" for any Chapter achieving a 10% increase in membership, a 10% increase in Chapter meeting attendance, and business contributions to the ASHRAE Research Fund equivalent to $10 per Chapter member.

It wasn't until the following year, 1971-72, that the Society president Dr. Stanley Gilman followed the concept but changed it to a point-based system in membership, attendance and research promotion. Then, each succeeding year, the new Society president set up his own personal requirements formula for achieving the PAOE.

Today, the PAOE covers numerous categories and has multiple award levels. The highest award level today, the Premier PAOE award, is automatically given to any Chapter who has consistently earned the PAOE every year since the Chapter's inception or since the start of the PAOE in 1970 for Chapters that existed prior. The Central Oklahoma Chapter is one of only a few Chapters in the world to hold that honor, and it all started in 1970 with Louis Nettleship as our Chapter president.

5/25/73 Yesterday I didn't eat much – trying to let my stomach go down a little. The day before, Brad and I ate lunch in Penn Square and I had a sweet tooth so ate a sandwich and a great big chocolate sundae with nuts and whipped cream. That evening after supper Mother served me some berry cobbler with a lot of ice cream on it and it sure was good. About 8PM, she gave me a chocolate ice cream bar which I lapped up. A few minutes later, Benny and Ellen came by and said Braum's was having a sale on banana splits at 59 cents and we should all go get one. So we did and I ate the whole thing and it was a BIG one. I haven't been able to button my pants since and have to wear my zipper at half-mast.



Photo 8 - Louis Nettleship with Bill Collins and golden gavel, 1971

However, they would also tell you that the team cannot be successful without a great leader. Louis Nettleship seized the opportunity to be Chapter president a second time and certainly showed that he did have what it took to lead.

Louis remained very active in ASHRAE throughout the 1970s and 1980s serving on committees and regularly attending local, regional and national meetings. His experience as a two-time Chapter president became invaluable to Chapter leaders that followed him.

6/29/73 We went to Kentucky, we saw Kentucky and we came home. Sunday night we went on a boat trip that ASHRAE arranged. Must have been about 800 of us get on the Belle of Louisville, an old paddle wheel steamer, and took a two hour boat ride up the river and back, beginning at 8PM. They fed us buffet style, served mint juleps which didn't have much kick to them, and played dance music. Also had an old steam calliope on top of the boat that some woman played once in a while. Sounded like a circus. They stayed fairly close to the shore line (within swimming distance) and while the river was full, it was smooth, so I didn't get seasick. I did tell the Captain that when they got to Cincinnati, let me know, so I could get off and get a good drink. Oh yes, we went to dinner Saturday night with some friends, to a restaurant called the "Old House", a few blocks from the hotel. Supposedly the old town house of Samuel Clements (Mark Twain), and it looked like it, and the food was lousy. …we had no gasoline problems until nearly home. Stopped at one place in Arkansas and the guy had nothing but Ethyl. In Henryetta, Okla., a Mobile station was out of gas, but the next Mobile station filled it up. Average price on regular was 39.9.

Chapter 4

Planes, Trains and Automobiles

Louis Nettleship suffered from acrophobia, or the fear of heights. Around 2% to 5% of the population suffers from this phobia, most of which are actually women. Being afraid of heights severely limits the type of activities in which a person can participate. He writes in his June 27, 1969 letter to his daughter Karen: "I've got to go home and figure out a way to fix my sagging gutter on the back of the house. The spikes holding it have come loose in the middle, so it's sagging. As you know, it's about 15 feet in the air, and I get a nosebleed at that altitude."

Aerophobia (or aviophobia), or the fear of flying, is the phobia that happens most frequently alongside acrophobia. Louis also had aerophobia. Now, that doesn't mean that he never flew on an airplane. But it does mean that the times he did fly were absolute torture! Louis recounts his trip to the ASHRAE semiannual meeting in Los Angeles, CA on February 3–7, 1974 (before they began calling them winter meetings in 1983) in his series of letters to Karen from January 11, to February 8, 1974. Louis finds an interesting way to deal with his problem:

1/11/74 Well, I guess I'm not going to go to the ASHRAE meeting in Los Angeles. I'll sure be glad when the time is over and everyone comes home from the meeting, cause for the past month I've been torturing myself mentally about going. I want to go so bad I can taste it but there just ain't no way. I finally made up my mind yesterday I wasn't going to think about it anymore and just stay home. The train is out - it's just too miserable a trip to get to it and the long ride back with no company. It used to be a very enjoyable trip when a lot of the members rode the train- everyone had a big time and I looked forward to going. Now, it's old Nettleship all by himself, and I hate to drink alone. Driving is out because of the struggle to get gasoline when I leave town and also because of the neck-deep snow in Arizona at that time of the year. Flying is way out. I spent the last couple of weeks conditioning myself mentally to flying and even went so far as to call American Airlines and making a reservation. The gal asked me if I wanted to go coach or first class and I told her I not only wanted to go first class but I wanted to sit with the pilot and make sure he knew what he was doing. That same night I made the reservation I went home and was watching a TV show. The guy was out on the window ledge of a tall building, going to jump off and commit suicide. When the camera pointed down at the street below, my stomach turned over about six times. All the horror of altitude came back to me and I told myself that flying is for the

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11/9/73 Personally, I'd a lot rather hunt than fish. I always feel so silly standing at the edge of water with a pole in my hand waiting for something to pull on the line, and knowing there may not be a fish within five miles. Hunting is different. I can kick the log or bush and if nothing comes out, I go on - but at least I know whether there is something there or not. I had a 22 automatic rifle and a shotgun when we went to the Frick factory in Pennsylvania back during World War II. You couldn't buy a gun then, and when some of the men at Frick found out I had some guns and didn't use them much, they wanted to buy them. When they offered me twice as much as I paid for them, I sold 'em, and have never bought anymore. I spent many hours hunting as a young man over in Arkansas, and no one likes the taste of quail, wild duck, rabbit and squirrel any better than I do. I can just get slobbery mouthed thinking about the taste. I've never cared much about deer meat and shooting one always seemed to me like shooting a cow. I'm sure they are harder to hit at the speed they run, BUT after you shoot one, what are you going to do with it. That's a job trying to get all that weight back to town.



Photo 9 - ASHRAE CRC Houston, 1970. (L-R) Bill Johnson, Louis Nettleship, Richard Ellis, Sr., Bill Collins Jr., TBD

birds. Haven't cancelled my reservation yet, but am going to. Will have to do it today because I haven't had much sleep since I made the reservation. If I wake up at 3 in the morning to go to the bathroom, when I get back in bed my thoughts turn to the flying trip, and I can't go back to sleep.

1/24/74 Well back to the ASHRAE meeting in Los Angeles and whether I go or not. Think I told you last week that I had made an airline reservation but came to the office every morning, after spending a sleepless night, with the full intention of cancelling it. Well, I haven't cancelled it yet. In fact, they sent me the ticket and an invoice for it yesterday and we mailed them a check. So now I got to go or lose $247.70. Between now and plane time I may decide it's only money and chicken out, but I sure do want to attend the meeting. If I do go, and I guess I will or I'll have to do a lot of explaining to the Board of Directors about where I spent that $247, it will be Saturday morning, February 2, at 9:05AM their time. Takes about 2 1/2 hours. If I go, when I get back, I'm going to write an article for the ASHRAE local newsletter entitled "The Los Angeles Meeting Thru the Eyes of a Wideawake Drunk." Don't you think that's a catchy title?

2/8/74 I'm sure not in too good a shape to write a letter this morning, but it's Friday and I know you want to hear about my trip, and I'm fixin' to tell you. Last Saturday morning Mother and Ellen took me to the airport and pushed me on the airplane. Wanting to appear at least halfway brave, I didn't

11/10/73 So far I've been kinda in favor of Nixon staying, but if that guy doesn't quit talking about gas rationing and reducing the speed limit to 50 MPH, I'm going to come out in favor of impeachment. And the other night when he talked about lowering the house temperature to 65, Taffy barked at him.

even have a drink before I got on it. The plane was a 707 (whatever that is). It got out on the runway and took off. When it left the ground and started up, my ears popped, my eyes crossed, and I just about came unglued I was so scared. I would have given my salary for the next hundred years to have been able to get off that thing. We finally got to the top in outer space and levelled off. The hostess came busily along and asked me if I was ready for breakfast. I told her no, and I wasn't going to be ready for breakfast - all I wanted was a drink. She brought me a glass with ice and 7-Up in it and two 2-oz miniatures of bourbon. I opened them both and poured them in the glass and drank it down in about 3 gulps. About 20 minutes later she brought me two more and some more 7-up, and I drank them down. That was 8-oz or about a half a pint on an empty stomach. A little while later she asked me how I was getting along and I told her I was still scared so she brought me two more. About 15 minutes out of LA she asked me if I wanted another drink and I told her I sure did cause we weren't on the ground yet. This time she brought me only one. Have you ever tried drinking 14-oz of whiskey in the morning on an empty stomach? Anyhow, you certainly don't make a very dignified entrance when checking into the hotel. But I was in real good shape. After I got checked in I went down in the coffee shop and ate some scrambled eggs and bacon and went back to up to the room and slept until about 5:00 PM, at which time I arose and went downstairs and joined a bunch of guys in a cocktail party. Whew!!! Sunday, Monday, Tuesday I went to all my committee meetings but didn't enjoy anything because I was worrying about the flight back home. The meeting I had on Wednesday was cancelled so I came home Wednesday morning instead of Thursday. Wednesday morning the airport bus left at 7:30 AM. I was packed and ready to go about 6:30 and decided I wasn't going to go thru that take-off again sober, so poured myself half a water glass full of whiskey and drank it. Then did it again. When I went down to the bus I was fairly calm. Got to the airport and had about 40 minutes before plane time, so went to the bar and drank at least three drinks (I've forgotten now), but the take-off was easier. On the way I drank just six of those 2-oz bottles. About half way home the Captain came walking back thru the plane and I asked him what the cathair he was doing back there. Told him he ought to be up there watching what he was doing. He said something about having an excellent copilot. Anyhow when I got home I kissed the nose of my car and promised never to go anywhere again without it. That just ain't for me."

Louis' fear of flying may have stemmed primarily from his fear of heights, however, another incident involving his brother Johnny, may have greatly contributed. Johnny Nettleship was a sports reporter, and in 1960 he was the sports editor of the San Luis Obispo Telegram Tribune, a local newspaper out of San Luis Obispo, California, which is on the west coast about halfway between Los Angeles and San Francisco. On October 31, he boarded a twin-engine C-46 prop liner operated as a domestic charter flight by Arctic Pacific, carrying the Cal Poly Mustangs college football team. The aircraft crashed shortly after takeoff at the Toledo Express Airport outside Toledo, OH. The aircraft, which flew in service in World War II, broke in two and caught fire on impact. Of the 48 on board, 22 were killed (Wikipedia: Cal Poly football team plane crash). Johnny Nettleship survived that plane crash, but suffered chest and shoulder injuries (St. Petersburg Times, October 31, 1960, page 2-A).

12/14/73 Got a letter from Santa Clause this week – came in by Reindeer Mail, and he said he would be in here at our warehouse on Friday the 21st, which is a week from today, and spend the weekend. He said to be sure and have a list of my friends on the west coast who had behaved themselves this year. Said a couple of his reindeer had gotten so old he had retired them and had two new ones to take their place. He calls one of his new ones "Caboose" because he has a red tail and he puts him at the last of the pack. The other new one is called "Clyde". His father was a mountain goat, and Clyde loves to eat tin cans.



Photo 10 - Louis' family: (L-R) Lape, Johnny, Ione, Louis; circa 1930

No doubt, however, that incident left a lasting impression on both Johnny and Louis. Interestingly, it was that very plane crash that is believed to have left a lasting effect on someone else who later famously developed a fear of flying. Hall of Fame coach John Madden graduated from Cal Poly in 1959 and played football for the Mustangs during the 1957 and 1958 seasons. He knew many of the passengers who were killed. His fear of flying is generally attributed to that plane crash, but John Madden himself has gone on record stating he believes it really stems from claustrophobia. (Walker, Ben (December 25, 2008). "Mercy Bowl helped a school heal." Seattle Times).

It's also possible that Louis' fear of flying could be due, in part, to claustrophobia as well. In Louis' short story "Motoring to the West Coast" (Appendix 3) he mentions his refusal to enter Carlsbad Caverns in 1931 when he was 18 years old, saying: "Wild mules couldn't drag me into a cave."

1/11/74 You aren't the only one with roto rooter problems. Ellen had to go to the Doc this week because of the same problem. She hadn't been to the potty in about a week. Doc Bolen gave her some prescriptions that she said worked so she is feeling pretty good again. I don't understand you gals – you need to pay attention, every day. Eat apples, at least one every day – that lousy orange juice ain't no good. A big bowl of oatmeal – lots of bulk. Mineral oil or milk of magnesia, every day until you get regular. I was talking with Ellen on the phone yesterday down at her office and she said so many of the girls down there had colds and runny noses – said she just couldn't stand a runny nose – said she would rather have her problem than a runny nose. I said, "Yeah, but you can blow your nose."



Photo 11 - Nettleship family Buick, circa 1916

After the 1974 flight to Los Angeles, Louis refused to ever fly again. As he wrote in his letter, traveling by train had lost its luster. This left traveling by car, which Louis had certainly spent a lot of time doing during his days working as a traveling salesman for Frick Company. Louis writes in his April 5, 1973, letter to his family that he was traveling 50,000 miles a year in the years after World War II. At that rate, Louis bought and traded-in cars on a regular basis.

In Louis' letters, he mentions a number of different cars that he really liked over the years. Surprisingly, in his January 24, 1980, letter, he states: "I had a Model A Ford then - called him 'Oscar' - best car I ever owned - wish I had one just like it now." In other letters, he talks about his 1940 Chevrolet, his son Bruce's Dodge Dart from the '70s, and wishing he could get a Nissan Stanza 4 door in 1985. Louis had suffered through the energy crisis of the 1970s with 55 mph speed limits and shortages of gas at the stations.

Of all the cars Louis and his family had owned over the years, the most memorable one had to be his family's first car, a 1913 Buick touring car that his mother was not allowed to drive. But, as he writes in his short story "Uninhibited Lady" (Appendix 2) nothing could stop her from getting behind the wheel! One can only imagine how growing up with Ione Nettleship as his mother shaped his personality. The complete "Uninhibited Lady" story is in Appendix 2 including a scan of Louis' original typewritten copy and the pages of the April, 1985, edition of *Good Old Days* magazine where the story was published.

4/19/74 Bruce's new Dodge Dart is real snazzy. It's white outside and inside except the seats have some color stripes down the center. On the nose of the hood are some little color stripes and in the center it says "Hang 10." I asked what that meant and he said it was a real racy expression of surfers. When you are riding the ocean surf on a surfboard and are able to hang 10 toes off the front of the board, you're a real expert. Sounds to me like the sheriff had caught 10 horse thieves all at once.



Photo 12 - Ione Nettleship, 1944

In 1988, Louis wrote another short story entitled "Motoring to the West Coast" that recounted an adventure he, his mother, and his brother Johnny had in 1931 when Louis was 18 years old. The story is provided in Appendix 3 and is a great read! It really paints a picture of what life was like back in the Great Depression. For an engineer, Louis certainly had a talent for writing interesting stories.

5/3/74 The TV and radio can't talk about anything now but the Watergate tapes and I'm getting tired of hearing about it. The talk Nixon made this last Monday evening on TV was the wrong one for him to make, I think. He should have had a fire-side chat like old President Roosevelt used to have. If Nixon had a big open fireplace with logs burning and stood by the fireplace when he made his talk, wouldn't it have been real funny for him to stand there and pitch the tapes, one by one, into the fire. That's what I would have done. In fact, I'd have had a big bonfire a long time ago, and I don't know what anyone could have done about it. I'll be the first to admit he ain't very bright, but I do object to impeachment proceedings because it weakens our nation.

Chapter 5

ASHRAE Fellow and 50-Year Distinguished Member

In April of 1985, with Louis being 72 years old and recently retired (for the second time), based on his long career in sizing, selecting, and selling refrigeration equipment and systems, but most importantly the active role he had in educating members on refrigeration and cold storage through work on technical and handbook committees, Bill Collins, the premiere ASHRAE member of the Central Oklahoma Chapter, nominated Louis to be a Fellow of the Society.

Louis, however, at that point in his life, was no longer very excited about anything related to work, even an honor that rewards past work accomplishments. In his April 16, 1985, letter to his family, he writes: "The local Chapter of ASHRAE is nominating me to the grade of "FELLOW" in the Society, which is quite an honor. Bill Collins says it means that one has attained the peak in his chosen field of engineering. It takes about 1-1/2 years for a nomination to gel but sooner or later I guess I'll get the award." (Louis' letter to family 4/16/85)

In his October 3, 1986, letter to his son Bruce, he writes: "I retired so I could smell the flowers..." (Appendix 20)

Bill Collins' application on behalf of Louis Nettleship was approved, and Louis' was elevated to the grade of Fellow in just a little over a year's time. Louis would become only the fifth Fellow of the Central Oklahoma Chapter since its inception in 1935. The October 6, 1986, Central Oklahoma Chapter board of governors meeting minutes record: "Louis Nettleship has been named a Fellow of the Society which will be awarded at the winter meeting." (Appendix 21). The winter meeting would be January 18-21, 1987, in New York, NY.

ASHRAE began awarding the grade of Fellow in 1950. The Central Oklahoma Chapter's original Fellow was Bill Collins achieving the grade in 1966. He was followed by Wally Frankfurt in 1977, Harry Rountree in 1984, and Dr. Fay McQuiston in 1986. Then came Louis Nettleship in 1987. Louis was the first sales engineer of the group. He was to be followed by Tino Mendez in 1995, Dr. Jeff Spitler in 2005, and Dr. Dan Fisher in 2009, completing the list as of 2016. (Appendix 29)

However, Louis did not attend the winter meeting to receive his award in New York City. His fear of flying eliminated air travel altogether. Carrying a big suitcase from train to train at his age was more effort than he was willing to muster, plus past train experiences left him loathing cramped quarters. Driving may have been a viable option, except that this was a winter meeting and the thought of driving in snow and ice made him very concerned. In his October 3, 1986, loving letter to his son, he explains his dilemma:



Photo 13 - Louis and Elnora, 1986

5/10/74 Yesterday afternoon when I was painting, I felt something on my neck and reached up and knocked it down on the porch. It was a great big black spider, but fortunately a "fly" spider that catches flies. Wasn't a black widow, and it didn't bite me – just made me wet my pants.

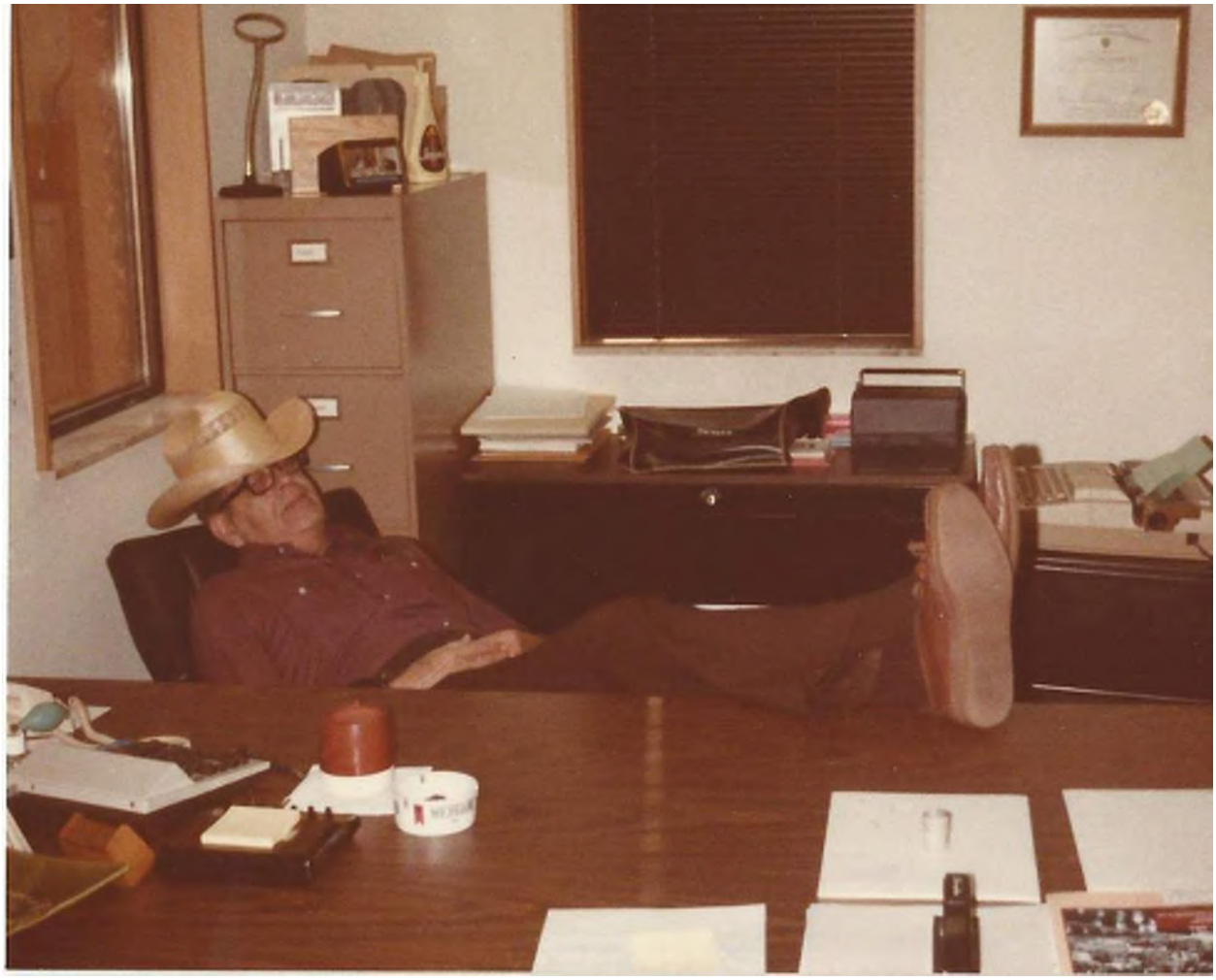


Photo 14

Dear Bruce:

Thanks for your telephone call this morning offering to go with me to New York in January. That you would offer to do that for me means a lot more to me than the Award I'd be going to get.

There is no way I would put you and me thru the ordeal of that train trip. I've made that trip a number of items going to ASHRAE meetings in the east. The last time was to Atlantic City, and I swore I'd never go by train again. For a trip that long one has to carry a big suitcase from train to waiting room, from waiting room to train, etc., plus lifting it innumerable times in the train to get things out of it. Then waiting hours to get on a connecting train. The bedroom on the train is so small you can't make a move without a contortion

9/74 ASHRAE JOURNAL – TO THE EDITOR: The Central Oklahoma Chapter thanks ASHRAE JOURNAL for its coverage of the Spring Conference and Chapter Regional Conference of Regions VIII and IX, which appeared in the 1974 June issue. Your label of "Productive and Successful" increases our chest dimensions considerably. One of the best parts about ASHRAE JOURNAL (besides the colorful and distinctive covers) are your editorials, and the one in the June issue is no exception. However, I didn't know Thomas Jefferson was an engineer. I knew his old pappy, Peter Jefferson was a civil engineer, but thought Thomas went through William and Mary playing the violin and riding horses until he met Martha.



Photo 15 - Louis, Elnora, and friends at Nichols Hills Drug Store, 1990

of the body of some kind, and you have to turn sideways to get in the bathroom door. I remember Bob Vermillion standing outside his train bathroom, trying to hit the toilet. The last trip to Atlantic City the service and pleasantries were in no way comparable to the trains of the 50s and 60s. On a trip that long, you can't take a shower or bath for more than 2 days. It's downright miserable. Driving would be a lot easier except for snow and ice up there in January, plus I wouldn't want to drive in New York City. During WW II I was in NYC quite often working with the Navy and spent a lot of time on the subway. But it was safe in those days.

So, like I say, I just don't want to make the trip. I'm not out of the woods here yet. I keep

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10/10/74 You say in your letter that you have a 40 lb. box of apples but you don't know whether that's a bushel or not. If you will look on page 42.12, Chapter 42, of that ASHRAE HANDBOOK I had sent to you, you will notice under APPLES they show five sizes of wood and fiber cartons that Apples are packed in nowadays. A "bushel" is more definitely defied as 2150.42 cubic inches. Let's take, for example, the third carton under APPLES which is shown as a Fiber Master Carton, containing an average net weight of 41 lbs. It is shown as 22 1/2" x 12 1/2" x 13" in size. If we multiply these three figures together we get the cubic inches of the box. 22 1/2 x 12 1/2 x 13 = 3656 cubic inches. Dividing 3656 by 2150 gives us 1.7 bushels. Other sizes can be calculated in the same manner. Note on the next page, 42.13, under Peaches, they show a 1/2 bushel basket contains 25 pounds net, so a bushel of peaches would average about 50 pounds just for the peaches it contains, not counting the weight of the basket.



Photo 16 - Louis with grandson Ryan

hearing rumors that Vermillion has already made reservations for me and Bill Collins is probably mad at me. I'm going to a board of governors meeting this coming Monday and expect to catch a lot of flak there because I won't go to New York. My friend Bill Collins, who was national ASHRAE President a few years ago, placed my name in nomination for Fellow a couple of years ago. Such a nomination takes a long time to pass thru various committees and the Board of Directors. I told him at the time that he shouldn't do it because I probably wouldn't even be around when and if I ever got it. But he insisted. The fact is that with the notice I received, I'm already a Fellow. The presentation is only a formality, and they'll mail a certificate to me if I don't attend the ceremony. I've already received more awards from ASHRAE than one man ought to get. Maybe the local Chapter will have a presentation ceremony for me. That would actually mean more to me than one in NYC.

I retired so I could smell the flowers, and there sure aren't any in NYC. Since I retired I've developed a very bad case of ergophobia (fear of work).

Wanted to write you all this in a letter after getting my thoughts together and realized it

2/13/75 Last Friday evening we went with B&E to a Pizza Planet and had a super-giant pizza and it wasn't quite enough but we decided not to get anymore. Next time we will get two regular sized ones which gives us more square inches of pizza. They come in 10", 14" and 16" (the giant one). The 10" one of course has 78.54 sq. in., the 14" one has 153.94 sq. in., and the 16" has 201.016 sq. in. So two of the regular (14") would have about 50% more pizza than one 16", and the cost per sq. in. is less.

would take too long on the phone. If for some as yet undetermined reason I do have to make the trip I surely would appreciate you going along. Your company would mean a lot to me. A son like you makes life worth living.

From 1987 to 1995, Louis remained retired spending quality time with family and friends. Louis' grandchildren and his pets were the joy of his life. He also cherished time with his wife and their friends. He and Elnora would go down to the Nichols Hills drug store every morning, sit at the counter, and join the "Corn Bread Coffee Club" as they liked to call it for Klatch coffee and fellowship with friends. (Louis' letter to family on 8/7/90 – reprinted on page 62).

On March 10, 1995, ASHRAE Society wrote to Louis informing him that his life work was to be honored with the Distinguished Fifty-Year Member Award (Appendix 22 & 23). That award is not given just for being a member for 50 years, but also having performed outstanding service in the Society. Louis' Distinguished Service Award, Regional Award of Merit, and grade of Fellow already well qualified him under the outstanding service requirement, and being a member from 1945 (in ASRE) to 1995 gave him the required 50 years. Once again, ASHRAE invited him to the upcoming national meeting to receive the award (Appendix 22), but at this point in his life physical limitations made it so that there was no question that he would not be able to attend.

April 19, 1995, was the date of the Oklahoma City bombing. April 27-29, 1995, was the Chapter's Regional Conference (CRC) at the Skirvin hotel in Oklahoma City celebrating the Chapter's 60th anniversary. June 24, 1995, an ASHRAE Society press release announced Louis' Distinguished 50-Year Member Award and gave a short history of his career (Appendix 23), and on July 24, 1995, Louis Nettleship passed away in Oklahoma City at the age of 82 (Appendix 24 & 25). Elnora, after 58 years of marriage, would survive him another 15 years, passing away on February 3, 2011, at the age of 99 (Appendix 24). Louis and Elnora are buried side-by-side in Memorial Park Cemetery in north Oklahoma City (Appendix 25).



OKLAHOMAN JUL 2 6 1995

NETTLESHIP

Louis passed away July 24, 1995. He was born in Fayetteville, Ar. on Nov. 21, 1912. Louis is survived by his wife of 58 years, Elnora Nettleship; his brother, John Nettleship; his daughter & son-in-law, Karen & Bob Hall; his daughter, Ellen Roberts; his son & daughter-in-law, Bruce & Susan Nettleship; his 5 grandchildren & 2 step-grandchildren, Jim, Linda, Joe, Char, Jeff, Ryan & Ashley. He was preceded in death by his father & mother, 2 sisters & an infant daughter. Louis was a member of the Classen Blvd. Baptist Church. He attended the University of Arkansas and was a member of the Professional Engineers Society and a lifetime member of ASHRA (American Society of Heating, Refrigeration and Air Conditioning Engineers). He was twice president of his local chapter, received the Distinguished Service Award in 1976, was elevated to the grade of Fellow in 1986, and was recently recognized as a distinguished fifty year member. Services will be held at 10:00 a.m. Wednesday at Baggerly-Manier Memorial Chapel with burial at Memorial Park Cemetery. In lieu of flowers, memorials may be made to Classen Blvd. Baptist Church Building Fund.

APPENDICES

Appendix 01 – 1972, October – Challenge of Refrigeration, *ASHRAE Journal* Article

Appendix 02 – 1985, April – "Uninhibited Lady" Short Story

Appendix 03 – 1988, April – "Motoring to the West Coast" Short Story

*Appendix 04 – Louis Nettleship ASHRAE Certificates

*Appendix 05 – 1966, March 09 – ASHRAE Nomination for TC 5.1

*Appendix 06 – 1966, March 24 – Nettleship Letter Accepting ASHRAE Treasurer Position

*Appendix 07 – 1967, May 08 – Nettleship ASHRAE Secretary Writing Example

*Appendix 08 – 1967, August 14 – ASHRAE Meeting Location Motion

*Appendix 09 – 1967, August 25 – Letter Selecting Habana Inn for ASHRAE Meetings

*Appendix 10 – 1967, December 04– ASHRAE BOG Motion to Purchase New Name Badges

*Appendix 11 – 1968, April 01 – ASHRAE Voting Ballot and Results Showing Nettleship as President

*Appendix 12 – 1968, September – ASHRAE Tech Session and Social Hour Not at Same Time

*Appendix 13 – 1968-69 – ASHRAE COK Annual Report

*Appendix 14 – 1968-69 – Louis Nettleship Exhibit Letters

*Appendix 15 – 1969, April 23 – Letter Concerning Missing ASHRAE Golden Gavel

*Appendix 16 – 1970, June 4-6 – ASHRAE Special BOG Meeting to Re-elect Louis Nettleship as President

*Appendix 17 – 1971, March 30 – ASHRAE Subcommittee Appointment Letter

*Appendix 18 – 1971, April – ASHRAE Golden Gavel Award Plus History

*Appendix 19 – 1974, April 10 – Scathing Letter to Hugh McMillan Jr. on Arkansas ASHRAE Chapter

*Appendix 20 – 1986, October 03 – Personal Letter to Bruce Nettleship

*Appendix 21 – 1986, October 06 – COK BOG Minutes, Fellow Award Announcement

*Appendix 22 – 1995, March 10 – ASHRAE Distinguished 50-Year Member Award

*Appendix 23 – 1995, June 24 – Press Release on ASHRAE Distinguished 50-Year Member Award

*Appendix 24 – Louis & Elnora Obituaries

*Appendix 25 – Memorial Park Cemetery Information

*Appendix 26 – The Razorback (University of Arkansas) Pi Kappa Alpha

*Appendix 27 – Census Data

*Appendix 28 – 2016 – Bradford Industrial Supply History

*Appendix 29 – 2016, February 01 – Complete List of ASHRAE Fellows

*Appendix 30 – 2016 – ASHRAE COK Honors and Awards List, For Reference

*available only in the electronic version of *The Life and Times of Louis C. Nettleship*, not the printed copies

EPILOGUE

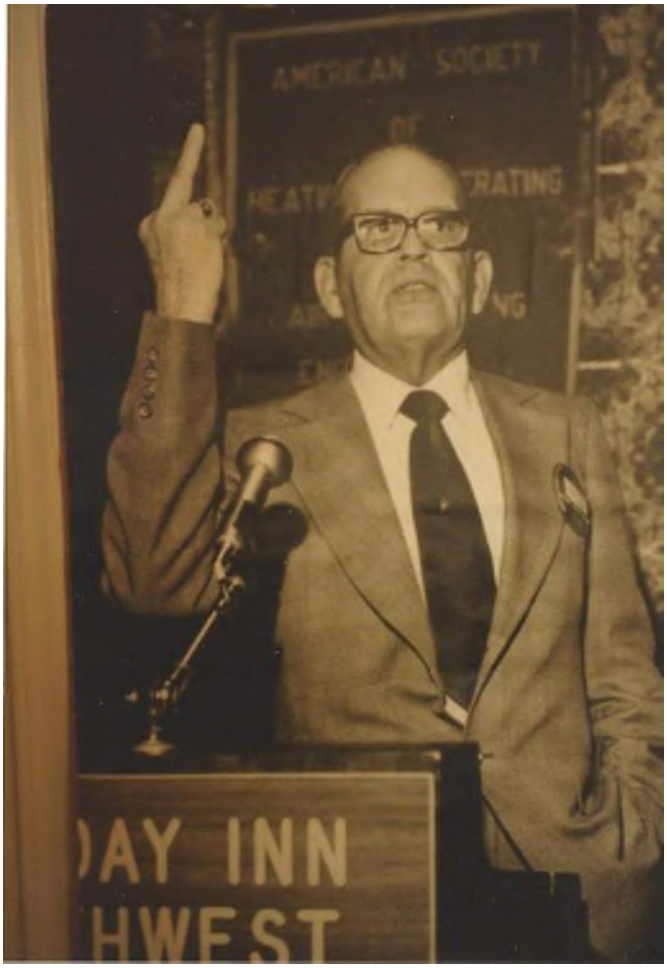


Photo 17 – The one-and-only Louis Nettleship, addressing the crowd

The main topic of the January 10, 1977 ASHRAE Central Oklahoma Chapter meeting was the "Political and Economic Impact of the Metric System." Louis Nettleship had the honor of introducing the guest speaker, Robert W. Powell, Director, Marketing Division, Oklahoma Department of Agriculture.

Louis was a big proponent of the United States switching to the metric system. You could basically call him a lobbyist. He could give you numerous reasons why the metric system is better than the imperial or "English" system. The metric system is easy to learn and simple to use. There are only a few basic units and they are generally related to each other by factors of 10, making it very easy to make conversions within the system. Unlike imperial units, metric units are exactly the same sizes in all countries and for all uses. Louis could also explain how so much time and money could be saved by not having to list both English and metric units on food and product labels.

Louis had a very clever and memorable way to begin his "sales pitch" to anyone he talked to about why the U.S.A. should switch to the metric system. He would start off by explaining that, going all the way back to biblical times, they knew it was better to use a common base unit that was easily scalable. He would then introduce them to the biblical "cubit" which was the length of the forearm, from the elbow to the end of the middle finger, and he would do so by basically "flipping-off" the audience. It would certainly



Photo 18 - ASHRAE Central Oklahoma Chapter Meeting in Oklahoma City, January 10, 1977

get their attention! But, with Louis' sharp sense of humor coming through in his delivery, the point would be received as intended. It would, in one way, be a funny, visual illustration of a much simpler form of measurement, and at the same time, be a not-so-subtle way of telling you what he thinks of the imperial system of units.

Once the infamous photo on the previous page was taken, some other cleverly-devious ASHRAE members made a large print of it mounted on poster-board, shown in the photo above. They then added the caption below it to play off of Louis' feud with the ASHRAE Arkansas chapter. In 1974, Louis read the Arkansas Chapter's 1973 and 1974 annual reports and, as he states in his letter to Region VIII director and regional chair Hugh McMillan, included in Appendix 19, he became very upset with what he discovered. Louis accused the Arkansas Chapter of inflating attendance figures by counting members of other societies at joint meetings and taking out a loan to inflate their research promotion contribution, all to win the Golden Gavel; which they did in 1974. Louis' letters had set off a firestorm of controversy. The Central Oklahoma chapter members combined his feud with Arkansas and his photo illustrating a cubit, and made for one very entertaining prop to put up behind the podium anytime Louis was scheduled to speak!

There's one more illustration in the photo above that can partially be seen on the right but is prudently cut off of the edge of this photo. It's another example showing how Louis really liked to shock his audience in order to make for a memorable experience. It is a 1975 poster of a blond, attractive woman in a transparent bikini with "Think Metric" at the top, and at the bottom "92-61-92" which is presumably her "measurements" given in centimeters.

What a wild bunch those ASHRAE guys were back then!



Photo 19 - Bob Vermillion, Harry Rountree, Bill Ferguson, Lewis Wickline, Bud Miller, Louis Nettleship, Earl McKinney ASHRAE Central Oklahoma Chapter Past Presidents, January 10, 1977

Historical Committee



ASHRAE Central Oklahoma Chapter

www.ashraecok.org

AFTERWORD

Additional Personal Letters

5/2/75 Manufacturers of refrigeration equipment receive about 20% of their annual income from the dairy products industry, so you can see why I've always insisted on using butter. The price of that lousy margarine has risen so much that you can buy butter nowadays just about as cheap and that suits me fine. Butter is stored in firkins – which always sounds like a dirty word, but it is quite commonly used among the butter people. It's a cubical carton of butter (about 9 gallons) and that's the way they store it in bulk before processing it into packages like you see it in the store. And, of course, as you well know, I never can get enough ice cream. I've sold a lot of equipment to dairies (when I was with Frick Co.) and always liked to go in the room where they make cheese and pick up some cheese curds out of the vat and eat them.

5/3/75 One of the refrigeration wholesalers wrote an article in a trade journal saying he didn't use LIFO or FIFO on his inventory – he uses FISH (first in – still here).

6/26/75 Dull Thursday afternoon after a hectic yesterday and this morning, during which time I designed and quoted on equipment for six banana ripening rooms for a local food distributor. Bananas as you may or may not know are a most temperamental product. They are shipped into this country green for ripening here. A ripening room is usually about 30' long, 6' wide and 20' high, in which you can place about 18,000 lbs of bananas (1/2 carload), or the room may be 12' wide for a whole carload or 36,000 lbs. By the application of heat and cold, around 55 deg. F. the bananas may be ripened in 4 to 10 days, never less than 4 nor more than 10. If you have the conditions set to ripen in 5 days, if you take them out in 4 days they won't be ripe enough, and if you take them out in 6 days, they will be too ripe. In the mean-time a little ethylene gas is shot into the room to give them the golden color. Because of the exactness required, distributors usually have enough rooms so they can open one room each day of the week that they distribute bananas, and that room has to hold enough bananas for the orders they are filling.

7/17/75 Just got back from the coffee shop of the Holiday Inn – lull of traveling men getting ready to check out and head for home for the weekend. Gosh, when I think of all the years I traveled and the miles I drove in a car, I wonder how I did it all. And we didn't have any air conditioning cars in

those days. Used to sit on one of those old hard cool-cushions and even then when I got where I was going the back of my shirt would be all wet, and my left eye would be blood shot from driving with the window down and the wind blowing in. The wind coming in to the floor through the vent hood was never cooling enough to keep your feet from getting hot, and the sole of my right shoe used to get a hole in it long before my left shoe showed any signs of wear, because of the heat of the accelerator pedal on my right shoe. Used to pay $2.50 a night for a swanky motel room, and $1.10 for dinner in the hotel if I really wanted to splurge.

10/9/75 The "Folksinger" on the CB told about a friend of his riding his big rig over in Georgia recently, and a smokie came on the air and asked him how fast he was going. The trucker said he had it sittin on two nickels, which, as you know, is 55 MPH. The smokie said, "Well you better look out, cause that trailer you're pullin' is doing 72." We heard one trucker tell another "you better part your hair for a picture and start back strokin' cause there's a smokie just over the hill".

11/7/75 Just got back from going to the bank and stopping at old McDonalds where I ate a fish sandwich, fried apple pie and chocolate milkshake. Sure do like their fish sandwiches, and they are only 50 cents.

12/12/75 Got a Christmas Card from Louise and Johnny yesterday. Louise had written a note on it telling how everybody was getting along and she sounded like her old self once again full of devilment. She said she had just come in the house from getting a dollar off the top of the garbage can. She said Johnny had for years been putting a dollar on top of the garbage can, for the garbage man, just before Christmas, and she always goes and gets it before the garbage man gets there. Said she had told Johnny he was crazy for doing it and his reply was always, "How would you like to be a garbage man?" So she gave up arguing about it a long time ago, and just goes out and gets it after Johnny leaves for the office. What characters!

1/23/76 Week from tomorrow (Saturday) Mother and I are supposed to drive to Dallas to the ASHRAE meeting. We will be at the Statler Hilton Hotel, 1914 Commerce St., in downtown Dallas, Zip 75201, phone (214) 747-2011. Will probably leave Wednesday afternoon, February 4, and drive back home that evening. Always like to let you know where your old Pappy is going to be hanging out. Sure have a lot of things to do, most of it about the metric conversion in our books. I've run into a few snags, have solved them in my own way, but am not sure I'm exactly right. After the HANDBOOK meeting on

Sunday morning, there is going to be a forum on metric Sunday afternoon and believe me I sure want to attend that – I got a lot of questions. Sunday evening they are having a big welcome party called a "Texas Barbecue" on the program. Monday, Mother and the girls are going to some kind of "wine sipping" book revue on top floor of the Southland Life building. Tuesday they go on a tour of either Dallas or Ft. Worth – she has decided to take the Ft. Worth tour so she'll know more about the town Bruce lives in. Plan on going over to Penn Square this morning and buy a new necktie to wear to Dallas. A new necktie and a shoe shine are always most helpful in making a person feel better – just as good as a woman getting herself a new hairdo.

2/5/76 Mother and I had a real good time on our trip but it seems like we were away from home longer than when we make a trip to Idaho. It sure is good to be back. We had a room on the 6th floor of the Statler – a real nice room with twin beds at about $41 a day including car storage – but the room wasn't big enough to skin a cat in. Don't believe I've ever had such a small room. And the bathroom had roaches in it – yech! Prices were terrible. It burns me up to pay 37 cents for a cup of coffee. A hamburger at lunch, with coffee, was about $2.65. Drinks at the social hour of the banquet were $1.65 each. That'll keep you sober. I was in meetings all day Sunday and Monday, and went out to the exhibit hall and looked at all the equipment Tuesday. Got back in to the hotel about 1:30 PM and took me an old hounddog nap so I'd be fresh for the banquet and dance that night. Mother and I usually go to those banquets and leave not later than 10:00 and go to bed, but we were having such a good time, we stayed 'til the last fiddle string broke, and got to bed about 12:45 AM. Such goings on, and at our age too!

5/20/76 Channel 19 on the CB is always so cluttered with conversation in the evening when I go home, that it's hard to get a word in edgeways. Couple nights ago, I was on my way home and some guy came on the air and said, "I know everybody is busy, but I would appreciate it if we could all observe one minute of silence for my dead dog that died this morning." The channel got real silent – no one said a word for about 30 seconds. The guy came back on and said, "I guess that's long enough – he wasn't a very good dog anyway."

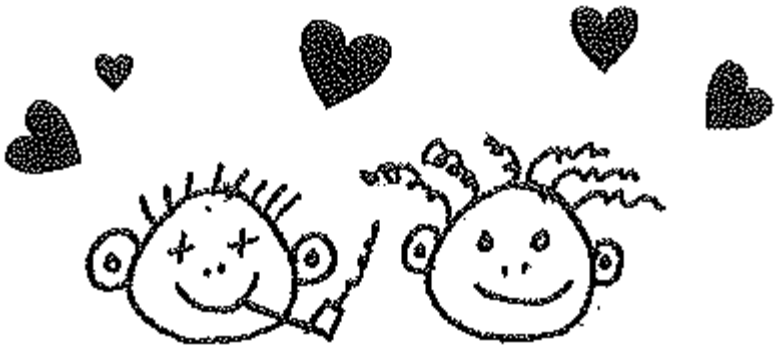
6/3/76 I've just got to find me a new CB "handle" – there are too many "hounddogs" around. Have been thinking of several, such as "Battleship", "Battlewagon", "Hairy Belly", "Santy Clause", "Dry Diaper", etc.

6/4/76 In the Reader's Digest this month it tells about a businessman who said – "Ethics are most important to any business! Only last month a good

customer came in to pay his bill and he gave me a $100 bill. As he was leaving, I noticed he had given me two $100 bills, one stuck to the other. Now here is where ethics come into the picture. The question was - whether or not to tell my partner."

1/24/80 Got your letter written after you got back home from the wedding (Bruce & Susan's) and am glad you had a good time. Mother sure did. You and Ellen seemed quite surprised that Mother could dance. That's where I met her - at a dance - it was in the Roof Garden Ballroom of the Skirvin Hotel in exciting downtown Oklahoma City - A Christmas dance in December given by a woman's organization of some kind. Mary Francis Dobkins had invited me to go with her. Mary Francis and I were just good friends - we grew up next door to each other in Fayetteville and played together when we were kids. I ran into her shortly after I came to Oklahoma City and we went to lots of places together. Mary Fran and I were standing on the edge of the dance floor that night, getting ready to "cut a rug" and I saw your mother dancing with some guy, clear across the ballroom. I turned to Mary Fran - and she'll vouch for this - and said "there's the girl I'm going to marry." Later on I cut in on her (it was a "tag" dance) and asked her for a date and she said okay. We would have gotten married the next day if I'd had my way - in those days it didn't take me long to make decisions - but she didn't go for that action. She always was a good dancer, and me too - but I don't know the modern type of dancing and my old leg muscles don't always do what I tell them anymore. I've always liked the old style of dancing where you have a gal in your arms over in a dark corner - this modern dance where you dance ten feet away from your partner is a waste of valuable ploughing time as far as I'm concerned. While Mother and I were going together, before we got married, we went to at least one dance a week, sometimes four or five. One of our favorite spots was Springlake Park where they had a big dance pavilion and all the name bands in the country used to come there. Ted Lewis, Benny Goodman, and many of them I can't even remember. Sometimes, they'd play until 2 or 3 o'clock in the morning and we were always the last to leave - and never missed a dance. It didn't cost but 25 or 50 cents to get in and there were six or seven couples of us that went together all the time. We'd get home about the time the sun got up. Sure was murder if you had to work the next day. Not all the dance tunes were slow - we had "Goofus" and "Tiger Rag" and a few of my other favorite tunes that really made your adrenaline flow. Sometimes we'd have a beer but very seldom any hard whiskey - it was too expensive - cost $2 a gallon for com whiskey that was any good. I had a Model A Ford then - called him "Oscar" - best car I ever owned - wish I had

one just like it now. After we were married in July 1937 we traded Oscar for a new Chevrolet – $750. Payments were $25 a month, and in those days a car or house were about the only thing you could buy on time payments. So much for historical details.



1/25/80 – Can't seem to get off historical details – sitting at home drinking coffee this morning and thinking about your school work – and how it was with me when I was in school. I was not quite 17 when I entered the University, too young and had no idea what I wanted to do, except I didn't want to go to school. At that time I was under a misapprehension in that I thought you had to go to university. In our town we had the grade school, the high school, and the university, and I thought every town had a university in it. I knew the law made you go to high school and just assumed it also made you go to university. In those days, if you got a final F on a subject, you repeated it the next semester. The teachers always hated to give me F because they wanted to get rid of me. They never flunked me twice in a subject because two semesters was absolutely all they could stand having me in their class. In university I soon found out that I was Mr. Nettleship, not Louis, and that the professors didn't care whether you came to class or not. That was wonderful. I was independent as a hog on ice. You were allowed to "skip" 16 classes each semester without hearing from the Dean of Men. Well, during hunting season, Bobby Bates and I missed so many classes we spent most of our time in the Dean's office. Each time we were called in to see him, we took him half a dozen quail, or a couple rabbits, and sometimes a duck. He was a kindly understanding old gentleman and would cross off the "skips" we had made whilst out hunting. He soon got to calling us in when we didn't have 16 "skips", so we kept him in meat all winter. In fact, he would call us in to give us a few boxes of shotgun shells. Then, that old English teacher I had, Mary Ann Davis, who seemed about 70 at the time, had no means of transportation, so I'd take her shopping at least once a week and got an A in her class whether I studied or not. Had a teacher in mechanical drawing that I used to take to Fort Smith every now and then, and have a luscious date for

him, and he gave me A's whether I did any drawing or not. I've always said if you give me a car and an expense account, and let me pick my teachers, I can go through any college in the U.S. with straight "A's" and never crack a book. Course, you don't learn much that way, but you have a lot of fun. Later on in life I was sorry I didn't buckle down and study, and would have enjoyed going back to school except for one thing. I enjoy reading and self-study, but detest teachers. So I've done a lot of self-study in my life.

4/17/85 A farmer had a whole pasture full of cattle and two bulls. One day a big 18 wheeler pulled up in the pasture and dropped the tail ramp. Down the ramp came the biggest Brahma bull you ever saw. It was almost twice the size of the old bulls. The old bulls were shocked at a new bull being brought in - they figured they had been doing a good job. One of the old bulls lowered his head and started snorting and pawing the ground. The other bull said "You're not going to fight that big bull are you?" The other bull said, "No! I just want to make sure he knows I'm a bull!"

7/22/85 Ellen looks real good - believe she's put on a little weight and its very becoming. When we got down there we were informed that she and Sue were on a diet. They didn't join Weight Watchers but somehow or another had managed to finagle a copy of their diet and had been following it all week. Sue was in the process of making some banana bread and when she got thru pouring the mix out into the baking pan, she licked the spoon, and Ellen hollered "I SAW THAT!!!" This was going on all the time, watching each other. BUT Sue had to cook for us and she cooked up some real good food, and she and Ellen decided they could have a teeny bit of this, and a teeny bit of that, and then seconds, and before we left they were eating butter pecan ice cream with hot fudge on it. Sheesh! What a pair. I don't think either one of them need to lose any weight, but they do.

7/23/85 A Texas Aggie professor asked his physics students to think up their own scientific projects for the term. One Aggie said he and a buddy already had a big project they were working on. "We are going to put a man on the sun!" The prof said "You can't do that. He'd burn up before he got there." The Aggie said "We got that all figured out. We're going to put him up there at night."

8/7/90 I go down to the Nichols Hills Drug store every morning and join the Corn Bread Coffee Club for our morning koffee klatch. Now, one might think that we just fritter our time away but actually our group does a lot of serious research and discussions that are very educational. The other morning there

were a dozen of us there and we got into a very serious debate about "Does a baby elephant nurse on its mama with its trunk or its mouth?" Some of us, me included, believed it was the snout after all an elephant gets water with its snout and squirts it in its mouth. Also, it doesn't appear to have an upper lip on its mouth. But others insisted it was with the mouth. Ken Early said the OKC Zoo director is a friend of his and so he called him on the drug store phone. Ken said when he told the man about our group having this debate and told him what the question was, the director laughed so hard he couldn't answer for several minutes and then said "I can't believe a group of you adults are in a drug store debating whether a baby elephant sucks on its mama with its snout or its mouth when Iraq is running all over Kuwait!" He finally told him the baby uses its mouth. Oh well, tomorrow morning is our sex education morning. Last week we argued whether it was possible to have sex in the rumble seat of a Model A Ford. I said it was but you needed help to get out. At least, that's what someone told me. Bruce called today and said he would be here about 6PM to spend the night. Wonder what words of wisdom he will have. Can't wait to ask him about the elephant!



Appendix 01

1972, October – Challenge of Refrigeration, ASHRAE Journal Article

The Sou'wester

Central Oklahoma Chapter News-Letter
American Society of Heating, Refrigerating and Air-Conditioning Engineers

VOLUME XXIII, Number 1 October 1972

PRESIDENT'S COLUMN



"Should I attend, or could I better spend my time with other activities?" is the question many of our members seem to be asking themselves as the time of our first meeting approaches. Last year approximately 50% of our membership realized the advantages of attending the meetings. They are the enthusiasts who recognize ASHRAE as a society of individual members acting collectively for the advancement of our industry. They are the ones who won the "Award of Excellence" for our Chapter. Their motto is -----

"You can do anything if you have enthusiasm." Enthusiasm is the yeast that makes your hope rise to the stars; it is the sparkle in your eyes - the swing in your gait - the irresistible surge of your will and your energy to execute your ideas. Enthusiasm is at the bottom of all progress! With it there is accomplishment. Without it - only alibis.

Let us each one make a personal commitment now to make our chapter, and thus our industry, grow and prosper. You are investing in your own future.

Wm. J. Flynn, Jr.

CENTRAL OKLAHOMA CHAPTER BEGINS YEAR WITH A CHALLENGE

The speaker at our first meeting of the year, October 9, is Louis C. Nettleship, Vice President of Bradford & Nettleship, Inc., and past president of the Central Oklahoma Chapter.

His subject, "The Challenge of Refrigeration," highlights the current importance of ASHRAE to refrigeration, and stems from his interest in Society activities in this field.

With a background of many years in refrigeration work, he is currently serving as a member of the ASHRAE HANDBOOK Committee, assigned to the 1974 Applications Volume; is a member of TC 10.5 (Cold Storage Warehouses); and Vice Chairman of TC 11.5 (Fruits, Vegetables, and Other Products).

Technical Session
Compressor Burnouts and Cleanups

In the Tech Session, Howard S. O'Neal, Service Supervisor of Natkin Service Co.'s Oklahoma City Office, ~~will~~ presented a program on the provocative subject, "Compressor Burn-outs and Clean-ups."

A member of the Central Oklahoma Chapter since 1960, Howard has had extensive experience over many years in the contracting and service business. He is well qualified to present this interesting and informative program. Service oriented personnel from all companies in the area should make every effort to attend.

The date.....Monday, October 9
The place.....Habana Inn
The time.....Learnin' 5:15 PM
Greetin' 6:00 PM
Eatin' 6:45 PM
Meetin' 7:30 PM

Let's have a good turnout!

AWARD OF EXCELLENCE

Happiness is -- receiving the Award of Excellence from Society headquarters each year.

For a chapter to receive this award for the year ending June 20, 1972, Society President Gilman laid down certain ground rules requiring a minimum total point count of 1000 for efforts expended in membership and attendance increases, Research Promotion contributions, and Regional Meeting attendance.

President Flynn has recently been notified that the Central Oklahoma Chapter is one of the recipients of this award, with a total point count of 1893, giving us the No. 1 position in the nation for chapters of 150 or more members. Position in rank of all chapters regardless of size is No. 4.

Our thanks and congratulations to past president Earl R. McKinney for his capable and enthusiastic leadership last year.

CHAPTER DIRECTORY AVAILABLE

Hopefully the 1972-73 Chapter Directory will be distributed at the chapter meeting on October 9. The printing time required places delivery date on the fence, and it can fall either way.

The Chapter Roster section of the Directory lists all members as of July 1, 1972, the start of our current year, and shows that we had 256 active members at that time.

COLLINS ELECTED SOCIETY VICE-PRESIDENT

The entire membership of the Central Oklahoma Chapter is very proud that Wm. J. Collins, Jr., was elected and installed as Society Vice President of ASHRAE at the Society's Annual Meeting at Nassau in June.

CFM's & BTU's

The Board of Governors of the Central Oklahoma Chapter recently voted approval of recommendation to the membership that local dues be increased from $6.50 to $8.00 per year, effective this year.

Our local dues structure has been held quite low but inflationary expenses of printing, postage, and other items make it necessary to vote this increase. Five chapters in Region VIII have been charging $10 per year for some time. Yearly dues statements, normally mailed before now, have been delayed until our membership can vote on the increase at the October 9th meeting.

* * *

Central Oklahoma Chapter's immediate past president, Earl R. McKinney, has recently joined Soter Engineers & Associates.

* * *

We want to congratulate Bill Johnson on his revision work on Chapter 23, "Automatic Fuel-Burning Equipment" in the new 1972 Equipment Volume of the ASHRAE Guide & Data Book.

* * *

We are quite pleased to record the marriage of Mrs. Mabel Denham to Wm. J. Collins, Jr., on September 30th. Our congratulations and best wishes to these two wonderful people.

* * *

Members have received from Society headquarters details and reservation forms for the ASHRAE FALL CONFERENCE, to be held in Cincinnati October 19-22, 1972. This expanded Regional Conference is the first in an effort to bring more technology to a greater segment of the membership. Every ASHRAE member is welcome and we urge our members to attend.

* * *

The 1972 Annual Barbecue and Golf Tournament was a big success. It was held June 12 at the old Lincoln Park Clubhouse. Ten Central Oklahoma Chapter ASHRAE Gold Tournament Cups were awarded.

FLOYD R. DENHAM MEMORIAL SCHOLARSHIP

Philip Brian Smith, a Junior in Mechanical Engineering, Oklahoma State University, has been selected to receive the Chapter's Floyd R. Denham Memorial Scholarship for the year 1972-73.

A most unusual man who, while maintaining an impressive 3.5 grade average, compiled an enviable list of extra curricular activities -- Treasurer of ASME student chapter, student member of OSPE and NSPE, MAE Delegate from OSU to OSPE State Convention, member of Phi Eta Sigma (honorary scholarship fraternity for freshmen men), Rush and Intra-mural chairman of Phi Gamma Delta (social fraternity), a tutor in math and engineering, a swimming instructor, and active in church activities.

He previously attended SMU where he served on the Student Engineering Council for two years, and was on the SMU Swim Team.

Outside industrial experience includes serving as co-op engineer with Bell Helicopter, Hurst, Texas.

Professor Larry D. Zirkle, Chairman of MAE Scholarship Committee at OSU, states, ---- "Philip is a most worthy recipient for this scholarship." We certainly agree.

Philip and a faculty representative from OSU will be the chapter's guests at our October meeting.

MEMBERSHIP COMMITTEE REPORT

Bob Vermillion, Chairman of the Membership Committee, will have a table set up at the October meeting where new members may be signed up. Talk up the benefits of ASHRAE among your business friends and bring some potential members to the meeting. Bob reports the following new members:

Gary Thomas Carlisle
State Distributors, Inc.

Ronal L. Wright
Powers Regulator Company

James A. Buckner
Johnson Service Company

Wm. K. Kyle
Westinghouse Electric Corp.

THE SOU'WESTER—Published monthly by the Central Oklahoma Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, at Oklahoma City. The statements made in this publication are not expressions of the Society, nor of the Chapter, and may not be reproduced without special permission of the Chapter.

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Devotional ..... Louis Tiller
Educational ..... Clarence H. Dollmeyer
Research Promotion ..... Gene H. Binning
Roster ..... Wm. J. Collins, Jr.

CALENDAR OF EVENTS

October 9, 1972

Technical Session
"Compressor Burnouts and Cleanups"
Howard S. O'Neal
Natkin Service Company

Chapter Meeting
"The Challenge of Refrigeration"
Louis C. Nettleship
Bradford & Nettleship

November 13, 1972

Technical Session
"Cathodic Protection
of Underground Pipes and Tanks"
M. L. Steffens
Oklahoma Natural Gas Company

Chapter Meeting
"Construction Management"
Bob Riek
Jones-Hester-Bates-Riek, Inc.
Architects and Planners

December 11, 1972

Technical Session
"Rotary Screw Compressors"
Ed Volker
Dunham-Bush
Chicago, Illinois

Chapter Meeting
"OSHA Standards as They Affect
Contractors, Engineers, and Businesses"
Don Meyers
Associated General Contractors of Oklahoma

January 8, 1973

Technical Session
"Filtration of Air
Pollutants via Incineration"
Jack L. Mohr
Oklahoma Natural Gas Company

Chapter Meeting
"Education-Industry Exchange Program"
Professor James V. Parcher
Oklahoma State University
Stillwater, Oklahoma

January 28—February 1, 1973

Semiannual Meeting & Exposition
The Conrad Hilton Hotel
Chicago, Illinois

February 12, 1973

Joint Meeting with
Northeast Oklahoma Chapter
Tulsa, Oklahoma

March 12, 1973

Technical Session
"Boiler Controls—Types and Applications"
Jack Sims
Honeywell, Inc.
Atlanta, Georgia

Chapter Meeting
"The Legal Liability of the Engineer,
Supplier, and Contractor"
Don Niederer
Krack Corporation
Addison, Illinois

April 9, 1973

Technical Session
"SMACNA Testing and Balancing School"
Lewis H. Carter, Jr.
Comfort, Inc.

Chapter Meeting
Regional Chairman's Visit
Hugh D. McMillan, Jr.
Region VIII Chairman
Houston, Texas

April 26-27-28, 1973

Region VIII Chapters Regional Conference
Lubbock, Texas

May 14, 1973

Technical Session
"Pump Seals—Types and Maintenance"
William C. Ferguson
B-H-J Oklahoma, Inc.

Chapter Meeting
"Energy Conservation"
Ed Wheeler
Oklahoma Natural Gas Company
Tulsa, Oklahoma

June 11, 1973
Annual Golf Tournament and Barbecue

June 24-28, 1973

Annual Meeting
The New Galt House
Louisville, Kentucky

10-9-72
Central Office Chapter Files

THE CHALLENGE OF REFRIGERATION

-by Louis C. Nettleship, PE

Most of our members have noticed articles in ASHRAE JOURNAL or in other trade magazines, pertaining to our Society's "R in ASHRAE" committee, but many are not fully aware of the Committee's purpose. When American Society of Heating & Air Conditioning Engineers merged with American Society of Refrigerating Engineers in 1959 to form ASHRAE, there was a considerable amount of grumbling on the part of many members of ASRE. It was felt by some that the interests of the refrigeration engineer would be secondary to those of the combined societies. Before the merger, those of us who were members of ASRE can recall receiving letters from concerned members requesting that we vote against the merger. But the majority of the members of each society, having faith in their officers' ability to decide what was best for all concerned, voted in favor of the merger, and we became ASHRAE.

In 1968, ten years after the merger, in ASHRAE's Annual Meeting in Lake Placid, the question arose as to why so many refrigeration engineers, who previously attended Society meetings, were absent. Why had so many of them not remained as active members? A Presidential Committee was appointed to investigate, and the answers from the refrigeration members were many. Some comments were gentle - some quite harsh.

Many comments were critical of ASHRAE JOURNAL and ASHRAE GUIDE & DATA BOOK. One comment reflected that a member who read only ASHRAE JOURNAL would never have an opportunity to know about ammonia screw compressor applications, fluidized freezing tunnels, completely mechanized warehouses, controlled atmospheric storages, shipboard fish freezing, petrochemical plant applications and others.

Other comments stated that the industrial refrigeration members are suffering for lack of responsible recognition and leadership at the top level of ASHRAE; that there are not enough programs pertaining to refrigeration on either the Society or chapter level; that the heating and air conditioning members should be made more aware of all the interests our Society represents. Some were, and

still are, of the opinion that there should be separate chapters or separate meetings for ASHRAE members interested only in refrigeration. Some also advocate separate ASHRAE JOURNALS, and ASHRAE GUIDE AND DATA BOOKS, to more nearly meet, more precisely, their requirements.

A permanent "R in ASHRAE" committee was formed in 1969, and its members have been quite active in formulating plans to increase the recognition of, and interest in, refrigeration disciplines, thereby attracting refrigeration oriented engineers into active participation in our activities, and into industry.

While in attending ASHRAE Annual and Semiannual meetings, I've always listened to what "R" proponents have had to say in regard to our position, and have attended a few of their committee meetings as an observer. However, until this year, I haven't given the matter much serious consideration. I am also sure many other refrigeration-oriented members have taken the same attitude to a greater or lesser degree. Basically, we all felt ASHRAE was composed of such strength in kindred knowledge that we could overcome any problems through creative discussions.

An incident in the New Orleans Semiannual Meeting this past January jarred me out of my complacency. At one of the attitude adjustment periods, a chapter officer, who had just been introduced to a man from the United States Department of Agriculture (USDA) turned to me and asked, "What is a man from the USDA doing in an ASHRAE meeting?". I thought he was joking and, then remembered he had spent his entire working life in the field of air conditioning.

One has only to turn to the bibliographies at the end of many of the chapters in the Applications Volume of ASHRAE GUIDE AND DATA BOOK, for example, to find the names of many men with the USDA who have contributed much to ASHRAE in technical committee work and research. These men have provided us with much needed information on the handling, transportation, processing and preservation of our critical food supply.

Looking back over the list of programs of most chapters during the past several years, we find programs pertaining almost entirely to air conditioning - air distribution, controls, chimney design, burner safety controls, electric heating, make-up air, dual duct systems, water chillers, ventilating fans, and so on. Even the speeches on refrigerant piping, capacity reduction, hermetic motors, and other overlapping subjects, are slanted towards air conditioning.

In the 1970 Systems volume of ASHRAE GUIDE AND DATA BOOK, a new chapter, 22, entitled "Engineered Refrigeration Systems" (Industrial and Commercial), points out that the engineered refrigeration system may have as a target any dry bulb temperature from $+70^{\circ}$ to $-240^{\circ}F$, and relative humidities from 95% to 0%. Targets are quite varied - marine refrigeration, space simulators, liquefication of gasses, photographic processes, freeze drying, low temperature metallurgy, bio-medical applications, petrochemical applications, breweries, construction of concrete dams, and many others - to say nothing of probably the most important target of all, the vast number of applications in the handling, transportation and storage of foods.

The fact that all processes involved undergo frequent changes makes it even more difficult for the refrigeration engineer to be currently knowledgeable of all the many applications to which he might apply his expertise. A refrigeration engineer, experienced in the application of his equipment to dairy products, for example, should know what happens to a drop of milk from the time it leaves the cow until it reaches the consumer in one form or another. He must be familiar with the processes required for butter, cheese, ice cream, etc. Specialization is quite common among refrigeration engineers; some are interested in only one field, as for example the petrochemical industry, and refuse to undertake other applications.

Almost any processing or manufacturing plant you visit today requires refrigeration in at least one stage of its operation.

I always get great pleasure in calling my family doctor's attention to the fact that without the technology we have in ASHRAE, he would be back in the horse and buggy days, literally. From storage of blood plasma to storage of cadavers - from freeze drying to cryogenic surgery - from air conditioned operating rooms to the synthetic tires on his automobile, his world is almost totally dependent on our creative knowledge.

Air conditioning may mean the greatest dollar volume for manufacturers, engineers, and salesmen. However, if we are to be sincerely and truly a Society dedicated to the "benefit of the general public", we must admit that - from the standpoint of the preservation of the world's food supply alone - refrigeration is not just a "special interest group" but one of the greatest challenges ASHRAE has.

Virtually no recognition is extended to the importance of refrigeration by the press. This past summer, during the power shortage in the northeast, headlines told of the untold suffering of the public from the heat because air conditioning equipment was inoperable.

The serious part about a power shortage in New York City or any other heavily populated area is downtime on refrigeration equipment used for preservation of food products. Visualize for yourself our home refrigerators and freezers shutting down for several days. Visualize dairy plants without refrigeration. Visualize all the cold storage plants in New York City with the refrigeration equipment idle - with millions of cubic feet of cold storage space filled with meats, fresh fruits, vegetables, and frozen foods, turning into tons and tons of wilted, spoiled, soggy foods unfit for human consumption.

If we take average consumption figures of food products per year for each man, woman and child in the United States, and reduce it to daily requirements, we find that the New York City metropolitan area of 11-million-plus population requires EACH DAY approximately 7½ million pounds of meat, fish and poultry,

10 million eggs, 9 million pounds of fresh fruits and vegetables including potatoes, and 10 million pounds of dairy products, mostly milk.

A smaller metropolitan area such as Oklahoma City requires EACH DAY approximately 400,000 pounds of meat, fish and poultry, 1/2 million eggs, 1/2 million pounds fresh fruits and vegetables including potatoes, and 1/2 million pounds of dairy products. Consider not only the cold storage space required, but the vast amount of transportation refrigeration necessary for delivery and distribution of these products.

Lack of air conditioning would in no way begin to duplicate the mass hysteria of millions of people with no food supplies. Resulting deaths from starvation would be astounding. Give a man the choice between maintaining comfortable air conditioning and eating, and there is no question which choice he must, of necessity, make to stay alive.

The world population is increasing at the rate of 100 million per year, and the population is expected to double by the year 2000. As cities in the United States grow in population, there will be increased requirements for food, more refrigerated warehouses, mechanization of warehouses, containerization, transportation refrigeration and improved methods of harvesting and processing.

Refrigeration allows us to provide optimum conditions of temperature and humidity for preservation of food supplies including, most importantly it's nutritional value. With technologies developed by food technologists and refrigeration engineers, food products today can be protected from harvest to consumer. Yet, each year in the United States alone, it is estimated that 20% of the millions of pounds of fresh fruits and vegetables harvested never reach the table. These losses can be substantially reduced by greater care in handling and transportation, and by following recommended storage practices.

And what about the rest of the world? At ASHRAE's Annual Meeting in Kansas City in June 1970, Mogens Jul, Secretary of United Nations Food & Agricultural Organization, spoke of the role of refrigeration in our world food supply. Mr. Jul commented that "Mankind's biggest problems in the years to come will be to provide health care, employment and food for the world's population. The most difficult will be to provide and conserve food for these millions." The United Nations Food & Agricultural Organization estimates that developing countries will need to invest 110 billion dollars by 1985 if agricultural and food production is to keep up with rising demands due to population increases and economic developments. Mr. Jul brought out that the developing countries have a considerable potential for producing fruits, vegetables, beef, fish, etc., but refrigeration is necessary to conserve their production. Mr. Jul stated that of 380 million children living in under-developed countries today, 87 million suffer from malnutrition, 11 million severly, and mortality is quite high. He defined the responsibility of food technologists and refrigeration engineers in the processing, transportation and storage of foods; and challenged the refrigeration engineer to design systems which can be adapted to specific conditions such as inadequate power supply, unusual temperature and humidity, and limited availability of trained manpower.

I could go on quoting statistics, but suffice it to say that our food technologists and refrigeration engineers are in a constant struggle for new and better ideas of protecting the world's food supply, and providing additional manpower in an attempt to keep pace with the rapidly growing problem of feeding all of us.

I've placed a great deal of emphasis on the role the refrigeration engineer plays in our food supply, but certainly his role in other areas, while perhaps not as important to as many people, is of utmost importance to our way of life.

In the June 1970 issue of ASHRAE JOURNAL, an article on a refrigeration seminar held by our Birmingham Chapter states, "The need for the refrigeration engineer, who is competently trained to design and execute a one-of-a-kind individualized refrigeration system essential to various industrial and commercial needs, is still as present as ever for new evolving requirements".

ASHRAE has great strength and ability in the combined knowledge of it's individual members, and further - due to the overlapping of some of our technologies, many of our members are quite versatile and capable of diverting their abilities to other disciplines of our Society. Certainly, I think ASHRAE would be very remiss if it did not make every effort, quickly, to unify the goals of our membership for the benefit of all mankind.

Two suggestions may be helpful. The first would require the intent and dedicated cooperation of the leaders of our Society, our elected officers and Board of Directors.

A few years ago one of our Society's vice presidents said, "It is the responsibility of each member of ASHRAE to make sure his sphere of interest is served by actively participating in Society affairs - by attending all chapter, regional and Society meetings - by offering papers for presentation at meetings and for publication - by serving on technicals committees - and by involvment in our research work. If your interest isn't being served, it is up to you to do something about it".

I do not agree with this statement in it's entirety. I do agree that each member should attend meetings and serve to the best of his ability, but I do not agree that it is up to the average member to "do something about it", if his interest is not being served. He can make suggestions or voice opinions, but if the officers are not interested in his subject, one member has a hard time getting their attention.

Not all men are inclined to be extroverts. Some of our finest member engineers, quite knowledgable in their fields, have to be drawn out in order to extract knowledge from them. But I can assure you that the knowledge and experience on any subject within our scope is available within the membership of ASHRAE.

It is because of this that I feel the responsibility of unification lies with our Society, regional, and chapter officers. Each officer should realize that, in accepting office in ASHRAE, he has at the same time accepted responsibility for development of all of our disciplines. He should be as genuinely interested and enthusiastic about the preservation of the apple crop in the state of Washington or the vegetable crop in Peru as he is in the air conditioning of a large office building. He should be just as interested in listening to a program on the refrigeration required for the production of synthetic rubber as he is in a program on high pressure duct systems. Any officer of ASHRAE should look beyond his own personal endeavors with an intense desire to cover the entire scope of ASHRAE, and develop every discipline to the best of his abilities.

It concerns me deeply to hear a chapter report that it does not have meetings on refrigeration subjects because its attendance drops, with dire consequences on its attendance increase goal, necessary to win an award. A member who stays away from a chapter meeting for the sole reason that he is not interested in the subject, does not have the true curiosity inherent in an engineer. This is true of refrigeration members who stay away because they aren't interested in "chimney design".

All officers and members should give much thought to the important fact that the need for refrigeration engineers is just as critical, if not more so, than the need for manpower elsewhere.

The second suggestion involves use of ASHRAE GUIDE AND DATA BOOK (G&DB), now reformulated as ASHRAE HANDBOOK AND PRODUCT DIRECTORY (See ASHRAE JOURNAL, October 1972). This four volume series is considered throughout the world to be the leading authoritative source on the subjects covered. ASHRAE GUIDE AND DATA BOOK has gone through many changes, which you may or may not have realized, depending upon whether you use it in your daily work for the valuable tool that it is. It has taken several volumes to switch subjects from one book to another, to correlate information in its proper slot to avoid repetition, index it properly, and rewrite the material in a form that may be used quite easily by the man in the field. Now that this has been accomplished, HANDBOOK editor Carl W. MacPhee, the HANDBOOK Committee, and the various Technical Committees, are working hard to expand the information and keep it up-to-date.

One of the long range goals of the HANDBOOK Committee is to encourage local chapters to review and offer comments and suggested revisions for ASHRAE HANDBOOK contents. One of the suggested means of accomplishing this is to have a handbook committee in each chapter. There is an excellent reason behind the desire for such action at the chapter level.

Less than 10% of the membership of ASHRAE attend Annual and Semiannual Meetings. This does not necessarily indicate lack of interest on the part of absentees - but rather the inability of the individual to attend, for one reason or another. We know there are many members, genuinely interested in the work of ASHRAE, who would like to attend all the meetings, serve on Technical Committees and attend the Symposiums and Forums, but are unable to get away from their work, or are unable to bear the expense of attending. We know that every chapter has members who could contribute much to our technology, but do not have the opportunity. The strength of ASHRAE lies in the wealth of knowledge and experience of each individual member, and the HANDBOOK Committee believes

it most worthwhile to extract all information possible from chapter members.

To accomplish this, an active handbook committee in each chapter should consist of various subcommittees to cover our various disciplines. Each subcommittee should have a chairman knowledgeable in a particular field, to recruit interested members and to hold meetings or study groups on selected chapters of the HANDBOOK. Results of discussions on each HANDBOOK chapter studied should be finalized in report form to be sent through channels to the Technical Committee (TC) responsible for that chapter. Reports should comment on parts that cannot be easily understood, information that should be included and, equally important, should comment on acceptable information in the chapter so the TC will know what parts are to be retained. Such reports would be excellent feedback material for the HANDBOOK, and could be quite informative as to subjects for articles in ASHRAE JOURNAL and for programs for chapter and Society levels.

Users of equipment may be invited to subcommittee meetings to provide information on processes involved.

The possible wealth of information to be gained from such a program should mean much to all of us, and could be recorded in our HANDBOOK for guidance of present members and young people entering our fields. More importantly, it would draw us closer together and we would find our overlapping interests becoming more numerous.

The Sou'wester

Central Oklahoma Chapter News-Letter
American Society of Heating, Refrigerating and Air-Conditioning Engineers

VOLUME XXIII, Number 2 November 1972

PRESIDENT'S COLUMN



For the past few years we have emphasized increased membership, increased attendance, and research promotion activities.

The Golden Gavel and Award of Excellence patches on our banner evidence our outstanding achievements in meeting or exceeding these objectives.

In his speech at the October meeting, Louis Nettleship stated, "Each officer should realize that in accepting office in ASHRAE he has at that time accepted responsibility for development of all our disciplines."

One must certainly agree with Louis' statement and since the Membership, Attendance, Research, and other committees are functioning so effectively, I feel the time is right to broaden our Chapter activities.

It has been proposed that a permanent "ASHRAE HANDBOOK" committee be formed, whose function primarily would allow our chapter members to contribute their knowledge and experience to the HANDBOOK. If you are interested in formation of such a committee, please advise any officer or member of the Board.

William J. Flynn

ARCHITECT DISCUSSES CONSTRUCTION MANAGEMENT

We welcome as our guest speaker for the November 13 meeting Mr. Bob Riek, Jones-Hester-Bates-Riek, Inc., Architects and Planners, Oklahoma City. His subject, "Construction Management," should be studied and understood by every member.

Mr. Riek holds a Bachelor of Architecture degree from OSU, where he graduated in 1958. He is a Licensed Architect, a member of AIA, and has been in private practice since 1964. Mr. Riek has been associated with seven projects in construction management, some exceeding one and a half million dollars. His experience in this concept of project planning and execution will be most educational.

Tech Session - Cathodic Protection Underground Pipes and Tanks

In our Tech Session, Mr. M. L. Steffens, Corrosion Control Consultant with Oklahoma Natural Gas Company, will present a program on "Cathodic Protection of Underground Pipes and Tanks," a subject of major importance in today's construction.

Mr. Steffens, a native Oklahoman, is a member of the National Association of Corrosion Engineers, and has been with ONG since 1937 -- the last 20 years in corrosion control as foreman or consultant. Much can be learned from men like Mr. Steffens - lifelong specialists in their field.

The date.....Monday, November 13
The place.....Habana Inn
The time.....Learnin' 5:15 PM
Greetin' 6:00 PM
Eatin' 6:45 PM
Meetin' 7:30 PM

LAST MONTH'S MEETING



October '72 opened our new year with 125 members and guests in attendance to hear Louis Nettleship present his subject, "The Challenge of Refrigeration."

Beginning with a brief history of the Society's "R in ASHRAE" Committee and its purpose, he commented on the manifold targets to which the refrigeration engineer may apply his expertise, citing preservation of the world's food supply for our rapid population growth as being the major target. Pointing out the responsibility of ASHRAE for developing refrigeration engineering manpower, he made suggestions that may help in unifying the Society for this purpose.



The Tech Session preceding the meeting enjoyed a record attendance of 57 members and guests who listened most attentively to Howard O'Neal, Natkin Service Company, as he covered very thoroughly every phase, cause, and effect of compressor burnouts, large and small - and the proper methods of handling the clean-up procedure. Those in attendance were outspoken in their request to "get Howard back for another Tech Session program." Seems everyone has service problems.



Philip Brian Smith, recipient of the Floyd R. Denham Memorial Scholarship, was introduced by William R. Johnson. Philip was accompanied by Professor Larry D. Zirkle, Chairman of MAE Scholarship Committee at OSU. Young men of Philip's caliber, who display such capabilities, are quite rare - we should all be proud of the opportunity to help them.



President William J. Flynn presented immediate past president Earl R. McKinney with a framed "AWARD OF EXCELLENCE" certificate received recently from Society headquarters.

MEMBERSHIP COMMITTEE REPORT

Bob Vermillion, Chairman, and his committee continue to swell our chapter membership with new applicants. Let's make it a point to greet the lady and gentlemen at the November meeting.

Steve A. Bruno
Wattie Wolfe Company

Carolyn Rae Crawford
Besco Sales Company

Dan Richard McGary
Carrier Air Conditioning Company

Richard Dale Prahl
Soter Engineers & Associates

Panyala Narasimha Reddy
Benham-Blair & Affiliates

Bruce Jon Yancey
Howard-Samis-Porch

CHAPTER DIRECTORY AVAILABLE

Our thanks and congratulations to our Roster Committee for a job beautifully done, and on time for our first meeting. If you were not present at the October meeting, be sure and pick up your directory at the November 13 meeting.

Those who use this directory daily as an address book, telephone directory, and guide as to which of our members does what, appreciate the amount of work that goes into this, especially by the ladies in Bill Collins' office.

CFM's & BTU's

Some few weeks ago members received hotel reservation forms for the Society's Semi-annual meeting in Chicago, January 28 to February 1, 1973. We urge you to mail your reservation request NOW. It is much easier to cancel a reservation,if necessary, than to make one at the last minute.

* * *

Central Oklahoma Chapter's Board of Governors has voted to eliminate the inclusion of a meeting attendance "return card" with the Sou'Wester each month.

Attendance at the monthly meetings has been fairly constant to increasing, and the Habana Inn seems always ready to provide for an overflow. Savings in postage alone amounts to almost $20 per month.

* * *

Increasing dues is distasteful, but members in attendance at the October 9 meeting were unanimous in voting "yes" on the increase of local dues as recommended by the Board of Governors.

* * *

Our members have just received statements for 1972-73 local dues. These are usually sent two months earlier but were held in abeyance until the membership voted its approval of an increase in dues at the October 9 meeting. If you have not as yet mailed your check to Bill Frankfurt, we will appreciate it if you will do so TODAY. Thanks!

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218 N W 84TH
OKLAHOMA CITY OKLA 73114

ASHRAE
HEATING, REFRIGERATING AND AIR-CONDITIONING
JOURNAL

pg 63
article by
Louis



**from the ocean to the consumer...
quality in frozen foods**

November 1972

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

The Challenge of Refrigeration

LOUIS C. NETTLESHIP
Member ASHRAE
Member, ASHRAE Handbook Committee (1974 Applications Volume)

MOST of our members have noticed articles in ASHRAE JOURNAL or in other trade magazines pertaining to our Society's "R" in ASHRAE Committee, but many are not fully aware of the Committee's purpose. When the American Society of Heating and Air-Conditioning Engineers (ASHAE) merged with the American Society of Refrigerating Engineers (ASRE) in 1959 to form ASHRAE, there was a considerable amount of grumbling on the part of many members of ASRE. It was felt by some that the interests of the refrigeration engineer would be secondary to those of the combined societies. Before the merger, those of us who were members of ASRE can recall receiving letters from concerned members requesting that we vote against the merger. But the majority of the members of each society, having faith in their officers' ability to decide what was best for all concerned, voted in favor of the merger, and we became ASHRAE.

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Other comments stated that industrial refrigeration members are suffering for lack of responsible recognition and leadership at the top level of ASHRAE; that there are not enough programs pertaining to refrigeration on either the Society or chapter level; that the heating and air-conditioning members should be made more aware of all the interests our Society represents. Some were, and still are, of the opinion that there should be separate chapters or separate meetings for members interested only in refrigeration. Some also advocate separate ASHRAE JOURNALS and a separate ASHRAE G&DB to meet, more precisely, their requirements.

A permanent "R" in ASHRAE Committee was formed in 1969, and its members have been quite active in formulating plans to increase the recognition of, and interest in, refrigeration disciplines; thereby attracting manpower for training, and refrigeration-oriented engineers into active participation in our activities and into industry.

While attending ASHRAE Annual and Semiannual Meetings, I've always listened to what "R" proponents have had to say in regard to our position, and have attended a few of their committee meetings as an observer. However, until this year, I haven't given the matter much serious consideration. I am also sure many other refrigeration-oriented members have taken the same attitude to a greater or lesser degree. Basically, we all felt ASHRAE was composed of such strength in kindred knowledge that we could overcome any problems through creative discussions.

An incident at the New Orleans Semiannual Meeting this past January jarred me out of my complacency. At one of the attitude adjustment periods, a chapter officer, who had just been introduced to a man from the U.S. Dept of Agriculture (USDA), turned to me and asked, "What is a man from the USDA doing at an ASHRAE meeting?" I thought he was joking and then remembered he had spent his entire working life in the field of air conditioning.

One has only to turn to the bibliographies at the end of many of the chapters in the Applications volume of ASHRAE G&DB, for example, to find the names of many men with the USDA who have contributed much to ASHRAE in technical committee work and research. These men have provided us with much needed information on the handling, transportation, processing and preservation of our critical food supply.

Looking back over the list of programs of most chapters during the past several years, we find programs pertaining almost entirely to air conditioning—air distribution, controls, chimney design, burner safety control, electric heating, make-up air, dual-duct systems, water chillers, ventilating fans, etc. Even the speeches on refrigerant piping, capacity reduction, hermetic motors, and other overlapping subjects, are slanted towards air conditioning.

In the 1970 Systems volume of G&DB, a new chapter, 22, entitled Engineered Refrigeration Systems (Industrial & Commercial), points out that the engineered refrigeration system may have as a target any dbt from +70 to −240 F, and rh from 95% to 0%. Targets are quite varied: marine refrigeration, space simulators, liquefication of gases, photographic processes, freeze drying, low temperature metallurgy, bio-medical and petrochemical applications, breweries, construction of concrete dams, and many others—to say nothing of probably the most important target of all, the vast number of applications in the handling, transportation and storage of foods.

The fact that all processes involved undergo frequent changes makes it even more difficult for the refrigeration engineer to be currently knowledgeable of all the applications to which he might apply his expertise. A refrigeration engineer, experienced

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L.C. Nettleship, Past President of Central Oklahoma Chapter, is Vice President, Bradford & Nettleship Inc, Oklahoma City, OK. This paper was presented at the October 9, 1972 meeting of the Central Oklahoma Chapter.

in the application of his equipment to dairy products for example, should know what happens to a drop of milk from the time it leaves the cow until it reaches the consumer in one form or another. He must be familiar with the processes required for butter, cheese, ice cream, etc. Specialization is quite common among refrigeration engineers; some are interested in only one field, as for example the petrochemical industry, and refuse to undertake other applications.

Almost any processing or manufacturing plant you visit today requires refrigeration in at least one stage of its operation.

I always get great pleasure in calling my family doctor's attention to the fact that without the technology we have in ASHRAE, he would be back in the horse and buggy days, literally. From storage of blood plasma to storage of cadavers; from freeze drying to cryogenic surgery; from air-conditioned operating rooms to the synthetic tires on his automobile; his world is almost totally dependent on our creative knowledge.

Air conditioning may mean the greatest dollar volume for manufacturers, engineers, and salesmen. However, if we are to be sincerely and truly a Society dedicated to the "benefit of the general public," we must admit that—from the standpoint of the preservation of the world's food supply alone—refrigeration is not just a "special interest group" but one of the greatest challenges ASHRAE has.

Virtually no recognition is extended to the importance of refrigeration by the press. This past summer, during the power shortage in the Northeast, headlines proclaimed of the untold suffering of the public from the heat because air-conditioning equipment was inoperable. The serious part about a power shortage in New York City or any other heavily populated area is downtime on refrigeration equipment used for preservation of food products. Visualize for yourself our home refrigerators and freezers shutting down for several days. Visualize dairy plants without refrigeration. Visualize all the cold storage plants in New York City with the refrigeration equipment idle—millions of cu ft of cold storage space filled with meats, fresh fruits, vegetables and frozen foods, turning into tons and tons of wilted, spoiled, soggy foods unfit for human consumption.

If we take average consumption figures of food products per year for each man, woman and child in the United States, and reduce those figures to daily requirements, we find that the New York City metropolitan area of 11-million-plus population requires *each day*, approximately 7½ million lbs of meat, fish and poultry; 10 million eggs; 9 million lbs of fresh fruits and vegetables including potatoes, and 10 million lbs of dairy products, mostly milk. A smaller metropolitan area such as Oklahoma City requires *each day* approximately 400,000 lbs of meat, fish and poultry; ½ million eggs; ½ million lbs fresh fruits and vegetables including potatoes; and ½ million lbs of dairy products. Consider not only the cold storage space required, but the vast amount of transportation refrigeration necessary for delivery and distribution of these products.

Lack of air conditioning would in no way begin to duplicate the mass hysteria of millions of people with no food supplies. Resulting deaths from starvation would be astounding. Give a man the choice between maintaining comfortable air conditioning and eating, and there is no question which choice he must, of necessity, make to stay alive.

The world population is increasing at the rate of 100 million per year, and the population is expected to double by the year 2000. As cities in the United States grow in population, there will be increased requirements for food, more refrigerated warehouses, mechanization of warehouses, containerization, transportation refrigeration, improved methods of harvesting and processing.

Refrigeration allows us to provide optimum conditions of temperature and humidity for preservation of food supplies including, most importantly, its nutritional value. With technologies developed by food technologists and refrigeration engineers, food products today can be protected from harvest to consumer. Yet, each year in the United States alone it is estimated that 20% of the millions of lbs of fresh fruits and vegetables harvested never reach the table. These losses can be substantially reduced by greater care in handling and transportation, and by following recommended storage practices.

What about the rest of the world? At ASHRAE's Annual Meeting in Kansas City, June 1970, Mogens Jul, Secretary of the United Nations Food & Agricultural Organization, spoke of the role of refrigeration in our world food supply. Mr. Jul commented that "Mankind's biggest problems in the years to come will be to provide health care, employment and food for the world's population. The most difficult will be to provide and conserve food for these millions." The UN Food & Agricultural Organization estimates that developing countries will need to invest $110 billion by 1985 if agricultural and food production is to keep up with rising demands due to population increases and economic developments. Mr. Jul brought out that the developing countries have a considerable potential for producing fruits, vegetables, beef, fish, etc., but refrigeration is necessary to conserve their production. Mr. Jul stated that of 380 million children living in underdeveloped countries today, 87 million suffer from malnutrition—11 million severely—and mortality is quite high. He defined the responsibility of food technologists and refrigeration engineers in the processing, transportation and storage of foods; and challenged the refrigeration engineer to design systems which can be adapted to specific conditions such as inadequate power supply, unusual temperature and humidity, and limited availability of trained manpower.

I could go on quoting statistics, but suffice it to say that our food technologists and refrigeration engineers are in a constant struggle for new and better ideas of protecting the world's food supply and providing additional manpower in an attempt to keep pace with the rapidly growing problem of feeding all of us.

I have placed a great deal of emphasis on the role the refrigeration engineer plays in our food supply, but certainly his role in other areas, while perhaps not as important to as many people, is of utmost importance to our way of life. In the June 1970 issue of ASHRAE JOURNAL an article on a refrigeration seminar held by our Birmingham Chapter states, "The need for the refrigeration engineer, who is competently trained to design and execute a one-of-a-kind individualized refrigeration system essential to various industrial and commercial needs, is still as present as ever for new evolving requirements."

ASHRAE has great strength and ability in the combined knowledge of

its individual members, and further—due to the overlapping of some of our technologies—many of our members are quite versatile and capable of diverting their abilities to other disciplines of our Society. Certainly, I think ASHRAE would be very remiss if it did not make every effort, quickly, to unify the goals of our membership for the benefit of all mankind.

Two suggestions may be helpful. The first would require the intent and dedicated cooperation of the leaders of our Society, our elected Officers and Board of Directors.

A few years ago one of our Society's Vice Presidents said, "It is the responsibility of each member of ASHRAE to make sure his sphere of interest is served by actively participating, in Society affairs; by attending all chapter, regional and Society meetings; by offering papers for presentation at meetings and for publication; by serving on technical committees; and by involvement in our research work. If your interest isn't being served, it is up to you to do something about it."

I do not agree with this statement in its entirety. I do agree that each member should attend meetings and serve to the best of his ability, but I do not agree that it is up to the average member to "do something about it," if his interest is not being served. He can make suggestions or voice opinions, but if the officers are not interested in his subject, one member has a hard time getting their attention.

Not all men are inclined to be extroverts. Some of our finest member engineers, quite knowledgeable in their fields, have to be drawn out in order to extract knowledge from them. But I can assure you that the knowledge and experience on any subject within our scope is available within the membership of ASHRAE.

It is because of this that I feel the responsibility of unification lies with our Society, Regional, and Chapter officers. Each officer should realize that, in accepting office in ASHRAE, he has at the same time accepted responsibility for development of *all* of our disciplines. He should be as genuinely interested and enthusiastic about the preservation of the apple crop in the State of Washington or the vegetable crop in Peru as he is in the air conditioning of a large office building. He should be just as interested in listening to a program on the refrigeration required for production of synthetic rubber as he is in a program on high pressure duct systems. Any officer of ASHRAE should look beyond his own personal endeavors with an intense desire to cover the entire scope of ASHRAE, and develop every discipline to the best of his abilities.

It concerns me deeply to hear a chapter report that it does not have meetings on refrigeration subjects because its attendance drops, with dire consequences on its attendance increase goal, necessary to win an award. A member who stays away from a chapter meeting for the sole reason that he is not interested in the subject, does not have the true curiosity inherent in an engineer. This is true of refrigeration members who stay away because they aren't interested in "chimney design."

All officers and members should give much thought to the important fact that the need for refrigeration engineers is just as critical, if not more so, as the need for manpower elsewhere.

The second suggestion involves use of ASHRAE GUIDE AND DATA BOOK, now reformulated as ASHRAE HANDBOOK & Product Directory. (See ASHRAE JOURNAL, October, 1972.) This four-volume series is considered throughout the world to be the leading authoritative source on the subjects covered. ASHRAE G&DB has undergone many changes, which you may or may not have realized, depending upon whether you use it in your daily work for the valuable tool that it is. It has taken several volumes to switch subjects from one book to another, to correlate information in its proper slot to avoid repetition, index it properly, and rewrite the material in a form that may be used quite easily by the man in the field. Now that this has been accomplished, HANDBOOK Editor Carl W. MacPhee, the Handbook Committee, and the various Technical Committees, are working hard to expand the information and keep it up-to-date.

One of the long range goals of the Handbook Committee is to encourage local chapters to review and offer comments and suggested revisions for ASHRAE HANDBOOK contents. One of the suggested means of accomplishing this is to have a Handbook Committee in each ASHRAE chapter. There is an excellent reason behind the desire for such action at the chapter level.

Less than 10% of the membership of ASHRAE attend Annual and Semiannual Meetings. This does not necessarily indicate lack of interest on the part of absentees; rather it shows the inability of the individual to attend for one reason or another. We know there are many members, genuinely interested in the work of ASHRAE, who would like to attend all the meetings, serve on Technical Committees and attend the Symposiums and Forums, but are unable to get away from their work, or are unable to bear the expense of attending. We know that every chapter has members who could contribute much to our technology, but do not have the opportunity. The strength of ASHRAE lies in the wealth of knowledge and experience of each individual member, and the Handbook Committee believes it most worthwhile to extract all information possible from chapter members.

To accomplish this, an active Handbook Committee in each ASHRAE chapter should consist of various subcommittees to cover our various disciplines. Each subcommittee should have a chairman knowledgeable in a particular field, to recruit interested members and to hold meetings or study groups on selected chapters of the HANDBOOK. Results of discussions on each chapter studied should be finalized in report form to be sent through channels to the Technical Committee (TC) responsible for that chapter. Reports should comment on parts that cannot be easily understood, information that should be included and, equally important, should comment on acceptable information in the chapter so the TC will know what parts are to be retained. Such reports would be excellent feedback material for the HANDBOOK, and could form the basis for articles in ASHRAE JOURNAL and for programs for chapter and Society levels.

Users of equipment may be invited to subcommittee meetings to provide information on processes involved.

The possible wealth of information to be gained from such a program should mean much to all of us, and could be recorded in our HANDBOOK for guidance of present members and young people entering our field. More important, it would draw us closer together and we would find our overlapping interests becoming more numerous.

Appendix 02

1985, April – “Uninhibited Lady,” Short Story

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Approximately
1270 words
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UNINHIBITED LADY

by Louis C. Nettleship

"Free from the expected social or moral constraints" is one of the definitions given by a dictionary for the word "uninhibited". It is also a good description of my mother, Ione Nettleship, the most impetuous, uninhibited human I've ever known.

Our home in Fayetteville, Arkansas, was situated near the geographical center of the town. In the early 20s, when I was a small boy, most of the streets were dirt, and most of the excitement was created by an occasional runaway horse. Most of the excitement, that is, except that created by my mother. My father, a large "slow burn" type, was never quite able to minify her exurberance.

A 1913 Buick touring car occupied our "converted" horse barn but women didn't drive cars in those days. My father, a grocery broker, left town one day on the Frisco train for a business trip to Springfield, Missouri. The next morning my mother called the local Buick dealer and said "Lane left town and forgot to leave the keys to our car. Would you please come and unlock it for us?" The dealer graciously complied without questioning who was going to drive the car. Mother had never driven a car

but having observed the steps of operation taken by her husband, it wasn't but a few minutes before she and her four children were "mobile".

I remember our ride as being more exciting than a parade - everyone stopped to watch Mrs. Nettleship driving a car around town at a somewhat reckless speed, up one street and down the next, waving at friends. The excitement lasted a couple of days but ended when we drove to the train station one evening and were waiting when "Daddy" stepped off the train. I'll never forget the mischievous look on my mother's face as she watched my father's face flush and his mouth drop open.

The incident was not forgotten a few weeks later when my father found it necessary to make another train trip, but this time he left specific instructions with the Buick dealer about unlocking our car. Of the possible dozen automobiles in Fayetteville at the time, three of them were Buicks like ours. A friendly insurance man owned one of them and he hastened to help my mother in her time of need. Fortunately his key fit our car, and our family was "on the road again". I don't know who enjoyed it the most, the children or Mama, but I do remember being more than a little frightened when Mother announced one afternoon that it was time to go meet the train and pick up Daddy.

My father didn't see us as he got off the train and walked down the station platform. When he was within a few feet of the front of the car, Mother pushed down on the horn button. To say the "honk" got his attention is putting it mildly. After getting himself back together, we drove home in the deepest silence I've ever heard, brightened only by the devilish smile on Mother's face.

Before his next train trip Daddy went to the hardware store and bought

a six foot length of what I believe is called "elephant chain". The oval links were more than two inches long and the metal was probably three-eighths inches in diameter. He ran the chain through the wooden spokes of a front wheel and over the front axle, locking the ends together with a large padlock. That night he left on the train, with the padlock key in his vest pocket, secure in the knowledge that the car would not be subjected to the whims of a female driver. He left the car key on the dresser in the bedroom. He may have forgotten it but I rather imagine he left the key to prove he was no longer worried about the car.

I'll always remember the scene in our barn the next morning – Mother sitting cross-legged on the dirt floor near the front wheel of the car with a large bastard file in her hand, sawing away on one of the chain links – my brother and I sitting in the dirt watching her. My two older sisters were "daddy's girls" and afraid to take part in the conspiracy. Including a short break for lunch, it took about four hours to "eliminate" the chain on the front wheel. Ione and her brood were once again free of all shackles. The next evening we were waiting for the train when it pulled into the station. This time, as my dad stepped off the train, he looked all around as if expecting us to be there, somehow knowing Ione would not let a little chain stop her deep determination. As he walked to the car he shook his head as an "I give up" smile spread across his face. Never again did he attempt to prevent Mother from driving.

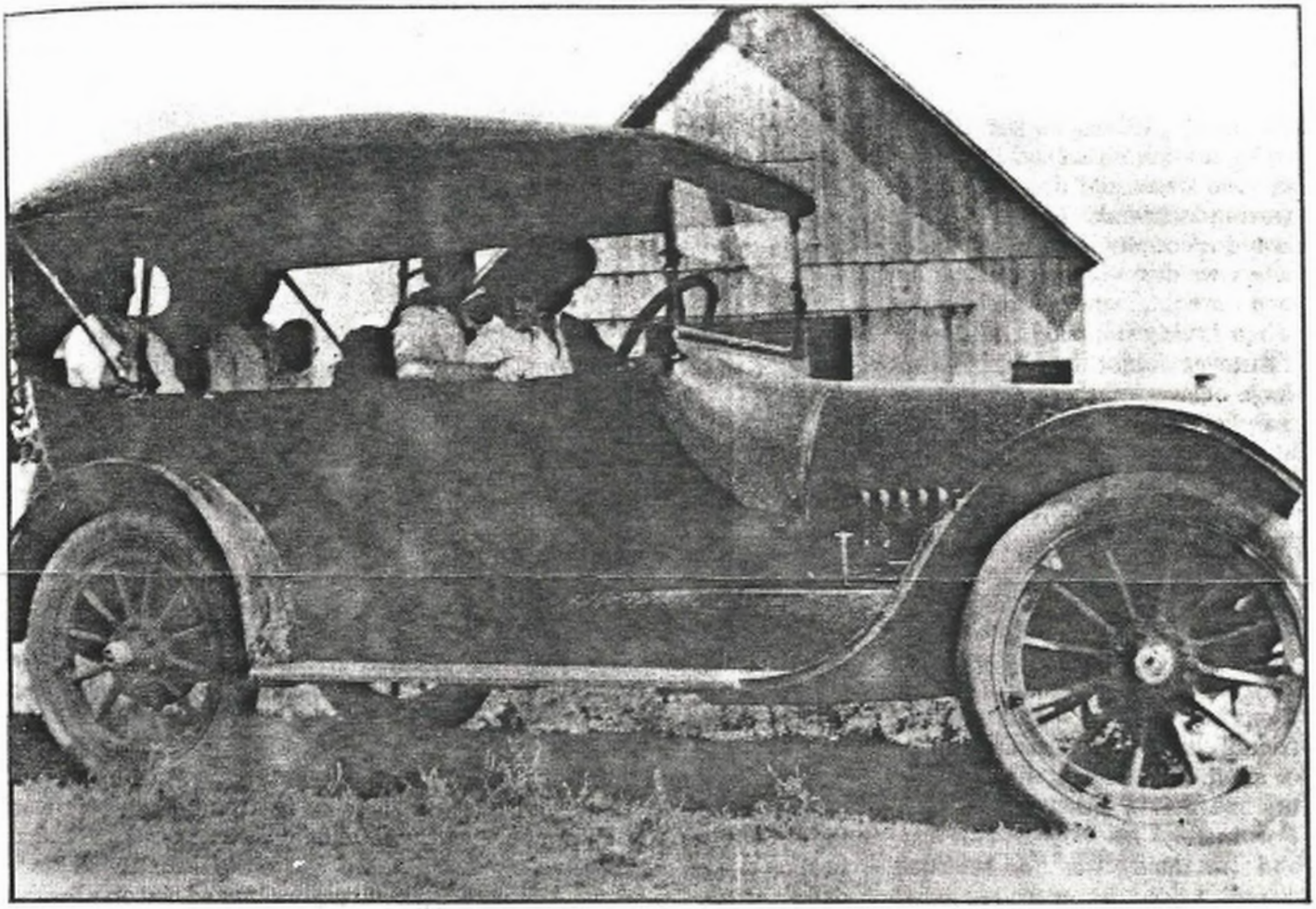
As I grew older, Mother became more of a problem for me. At the "shy" age of twelve I found her to be a source of embarrassment, and most of the time I tried to avoid going anywhere with her. A couple of incidents remain in my memory to this day.

Late one afternoon I accompanied her to the grocery store on Dickson Street. It was the usual grocery store of the '20s and over near one of the counters, sitting on the floor, were bushel baskets containing apples and potatoes. A gentleman dressed in a nice business suit was leaning over one of the baskets selecting some apples. As Mother and I walked down the aisle towards the counter, we walked by the man and, without warning, Mother reached out quickly and pinched the man on his posterior. The man uttered a noise akin to Tarzan's battle cry and jumped a couple of feet in the air, turning over the basket of apples. I know Mother was as startled as the man. He was a perfect stranger and she spent several minutes apologizing for her conduct, saying "I just couldn't help myself". Everyone in the store was laughing, while I prayed for prompt transportation to a foreign country.

The rather robust wife of one of the town's more prominent older citizens had been ill and was confined to her bed. They lived in a large mansion a few blocks away. Mother, for one reason or another, felt it necessary to visit her and insisted I go along on this benevolent mission. Freshly scrubbed and dressed, we knocked on the front door of their palatial home. The maid let us in and led us into a large bedroom where the sick lady rested in a large four-poster bed on a feather mattress, with two large pillows under her head. The lady seemed to be in excellent health, hale and hearty, and after exchanging a few pleasantries, Mother was invited to sit in a straight chair beside the bed. I sat on a little footstool beside her. There were several bouquets of flowers in the room, and a large basket of mixed fruit - oranges, apples, lemons, peaches and pears - sat on a bedside table next to my mother. After a few minutes of conversation, the sick lady yawned, her mouth fully extended. Quick as a striking snake, my mother's

hand grabbed one of the lemons and put it in the lady's mouth. As usual, Mother spent several minutes apologizing and saying "I just don't know what came over me". The maid held her nose unusually high in the air as she let us out the front door.

Fun-filled memories? - you bet!



This picture was taken on Grandmother Nettleship's farm outside Purdy, Missouri, when we drove up there for a visit, so the barn in the background is not the citified converted horse barn where the car was usually parked. I don't know who put the "1916" date on this print, but I'd say 1918 is nearer correct. Mother is on the far right in the back seat, holding my younger brother, Johnny, in her lap. Beside her is my sister, Thelma. In front with my dad is my sister, Wilma, holding me in her lap.

Uninhibited Lady

by Louis C. Nettleship

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Appendix 03

1988, April – “Motoring to the West Coast,” Short Story

HISTORICAL MOMENTS April 1, 1988

-by Louis C. Nettleship

SUBJECT: Motoring to the west coast in 1931. (From Fayetteville, Arkansas)

This is an account of the vacation trip my Mother, brother, and I made to the west coast in 1931.

In 1915 my Dad took my oldest sister, Wilma, 14, and went to the World's Fair in San Francisco, by train. At the time I was 3, my brother Johnny hadn't been in this world but a few months, and my sister Thelma was 12. In 1925 my Dad took Mother, Johnny, and I to visit Mother's sister, Beulah (Aunty Boo) in Boulder, Colorado, in our 1924 Buick sedan. I think that was the only time Mother had ever been out of the Ozark mountains and she was itching to see more of the world. For a couple of years before our 1931 trip she had been after Lape (Daddy) to take us to the west coast but he didn't want any part of such a long trip. Unlike other Nettleship boys, he preferred the quite peaceful life in his own backyard. Deciding to make things around the house even more peaceful, he told Mother I was old enough to drive her and Johnny to the west coast. That was in January 1931. I was 18 and Johnny was 15. Wilma was married to George Basore and they lived in Evansville, Indiana. Thelma was married to Nolan Basore and they lived in Hartshorne, Oklahoma. Mother didn't care whther Lape went or not - she was going to go. She could drive a car in a wild shaky sort of way, but she preferred that I drive. So the die was cast and we began to make serious plans for the trip. It was the beginning of the great depression and times were tough. My Dad had to borrow some money for the trip but guess he figured it was worth it.

The greatest expenditure was a new car. The old Buick had always been a lousy troublesome car that would go 40 mph down a steep hill, wide open. It had a vacuum tank instead of a fuel pump, so you had to go backwards to get up a steep hill. So my Dad took me and went car shopping. We looked at Chryslers, Fords, and Chevrolets, and finally settled on a Chevrolet four door sedan. The Chrysler was the prettiest and I really wanted it, but it was a few hundred dollars more money and I new it was going to be a strain on Dad, so I told him I preferred the Chevy. It was a pretty car, dark blue, with the spare tires mounted in fender wells in the front fenders, and classy chrome strips around the tires. We decided on it from a picture - the dealer didn't have one in stock, but he located a dealer in Springfield, Missouri, that had one so I went to Springfield on the bus one evening and drove it back to Fayetteville the next day. When I first saw the car in the dealer's place, it had white spoke wheels on it. Looked pretty but knowing who was going to have to keep all those spokes clean, I talked the dealer into changing the wheelsto black spoke wheels. The price of the car was $725 and they gave us $200 for the old Buick. Cars in those days had no trunks on them, and of course no radio or cigarette lighter. This one did have a gasoline gauge on the dash and the Buick didn't, and it had shock absorbers that the Buick didn't have.

Johnny and I had savings accounts, about $40 each, in the bank, so we bought Travelers Checks with that to give us some spending money, and Dad gave Mother $400 in Travelers Checks. In those days a hotel or motel room for the three of us cost $2, somestimes $1.50. They were real shabby buildings with none of the refinements we have today. We averaged paying 10¢ or 11¢ a gallon for gasoline, and of course hamburgers and soft drinks were all a nickel.

The latter part of May, 1931, after school was out, we loaded the car, with Johnny and all the luggage in the back seat and Mother and I in the front seat, and drove to sister Thelma's house in Hartshorne, Oklahoma, where we spent the night.

As we left Thelma's house the next morning we felt like a bunch of pioneers setting out into a strange land. Thelma was our last contact with a family member. We headed towards Dallas, Abilene, and El Paso. One morning somewhere around Abilene on a dirt road, I saw ahead of us where a short stretch of the road had been oiled. I slowed down a little because oil can be slick. As I got up to it, I realized suddenly that it wasn't oil. It was an army of saucer-sized black tarantulas crossing the highway. The mass of them on the road must have been 60 or 70 feet wide. We wre on top of them before I realized what it was. I wasn't about to stop. To this day I can hear the thud-thud-thud of those spider bodies being thrown up underneath the car fenders by the wheels. The next filling station we came to we pulled in and stopped and hollered at the attendant to look under our car for varmints before we got out.

We left the main road this side of El Paso and drove to Carlsbad, New Mexico. Next morning we went to Carlsbad Caverns where Mother and Johnny took the "tour". I stayed in the car and waited about three hours while they did that. Wild mules couldn't drag me into a cave but I knew they wanted to see it. I was very satisfied with their descriptions of the beauty of the caverns. From there we drove on into El Paso and checked into a decrepid looking motel. Next day we drove over the border to Juarez, Mexico where we spent most of the day. There was some rioting going on over there (I don't remember why) and soldiers with guns were plentiful. I was goosey about it but Mother and Johnny thought it was great and had a big time. When we came back across the border, the guard who was supposed to search our car, saw our Arkansas license plate and started laughing - said to go on through. He must have figured we didn't have sense enough to smuggle anything. He didn't know Mother and Johnny very well. You wouldn't believe what I had to put up with on that trip. They would take ashtrays in restaurants, towels in hotels, etc.. If I found out about it I made them put them back.

Next morning we left El Paso and headed west on what is now I-10 towards Tucson, Arizona, where we probably spent the night. The Chevrolet was a good car with a cruising speed of about 50. Above 55 it was straining it, although it would go at least 70 mph. Considering the single lane roads and the type of roads, 400 miles was a good days drive if there were no side trips or sight-seeing to do. At Casa Grande we took what is now I-8 towards Yuma, across the great white desert. White sand as far as the eye could see, mile after mile. It was a single strip of asphalt with a lot of it covered with blowing sand. Kinda scarey. We saw very few cars but a lot of big turkey buzzards sitting out in the sand. It was a boring drive with no scenery but the sand and I thought we would never get to Yuma. I had a little Colt automatic, 25 caliber, and passed the time by shooting out the open window at the buzzards. Some of the time Johnny would shoot at them. But there is a lot to be desired in the accuracy of those little guns so we never did hit one. Finally got to Yuma and on into San diego where we saw the ocean for the first time. Mother had heard that we had a young cousin, Jack Nettleship, on board a battleship in San Diego so we went down to the water front, where the Navy was kind enough to let us go aboard the battleship and visit with Jack. Believe Uncle Frank's son. We spent a couple of days in San Diego looking around. One day driving down a street we saw a sign - "Nettleship Insurance Company". We stopped, went in and introduced ourselves and had a nice visit with the man but we never could quite figure out where we were family connected.

Our next stop was Anaheim, California, where we stopped to visit with a cousin of Mother's, on her side of the family. She welcomed us with open arms and wanted us to stay several days. We did, but we didn't intend to. The lady (I've forgotten her name) had three children, the oldest boy about my age. Next morning they insisted on taking us to the beach for a swim. We went in their car with the older son driving. It was an old loose jointed sedan and Mother, Johnny and I were in the

back seat, with Mother in the middle. We came to an intersection where there was a double dip for drainage purposes, and the car was going pretty fast. When we hit the first dip the rear end of the car threw Mother up in the air banging her head on the ceiling. Before she could come back down we had passed over the second dip and the seat came up and hit Mother on the bottom. She started moaning and hollering and we stopped. She got out of the car and laid down on her stomach in the grass of the curb. I looked up in the front yard of a house and saw a sign that said "Dr. So and So", "Osteopath". I ran in and got the doctor, a woman, and she had us bring the patient inside where she gave her a thorough examination. She said Mother would be okay but she needed to lay still in bed for a week. The cousin was very apologetic and took extra good care of Mother.

The next day, while Mother was staying in bed, Johnny and I took the cousin's three children driving around the town. We stopped and got an ice cream cone and as I was driving away from the ice cream parlor I came to an intersection where I stopped at a stop sign. As I started up, some fellow in a new car made a sharp left turn in front of me and my right front fender creamed his left rear fender. The driver was a big man and so mad he was red in the face. He told me what he thought of me and the state of Arkansas and said he was going to report me to the police, and then he jumped in his car and drove off. He scared me so bad I failed to get his license number. I did feel like a lot of it was my fault. I was eating an ice cream cone and wasn't paying attention. I drove downtown and asked someone where the police station was and located it. I told the police what had happened but they said he hadn't been there. I waited around for an hour and he still hadn't shown up, so I told them where I was staying and gave them the phone number. Also described the car to them in detail. A few days later when we left town, I called the police station and asked about it but they hadn't seen anything of the man. I gave them my home address in Fayetteville but we never heard another word about it. My fender wasn't hurt badly but I had it fixed before we left Anaheim.

Our next stop was to be San Francisco. Mother had called Aunt Dorothy from San Diego and told her we'd be there in a couple of days after visiting in Anaheim. When we didn't arrive on time Aunt Dorothy called us at the cousin's house. Mother had been in bed about four days but we loaded her in the car with a bunch of pillows to pad her sore spots and took off. (I'll bet the cousin was sure glad to see us go). By agreement, Aunt Dorothy met us at some little town about 30 miles south of SF and we followed her on into SF and her house. Her home was a nice little two bedroom cottage on the ocean side of the mountain and we could sit in her breakfast room and look at the ocean. It was beautiful, especially on a clear day. At that time Aunt Dorothy was married to a fellow a few years younger, named Earl Shapiro. His Dad was the leader of the famed Golden Gate Band that played concerts in Golden Gate Park. Earl was a real nice fellow, a musician that could play many instruments, and he had his own orchestra that played at a lot of dances around the SF area. He wasn't too bright or he wouldn't have married Dorothy - they were divorced about a year later. We stayed there about ten days and they really showed us all parts of SF and we really had a good time. The Golden Gate Bridge hadn't been completed then so we crossed over to Oakland on a ferry when we left there.

We got over on Highway 101 and drove north to the Redwood Forests and spent the night in a log cabin tourist court. We overslept the next morning because it was so dark in the forest because the sun couldn't shine in through the big trees. The redwood trees were awe inspiring - so big they were hard to believe. From there we went on to Portland. Don't remember a thing about Portland but we left the next morning and drove up the Columbia River to The Dahls where we crossed the river on a ferry. There were no dams in the river at that time and it was one fast moving roaring body of water. The ferry was a flat deck boat and the top of it stuck out of the water a couple of feet. There was a heavy cable stretched across the river and a cable on the ferry was attached to that overhead cable to keep the ferry from washing down river as it went across. The ferry was a small one that would hold three passenger

cars. Crossing that river on that little ferry scared me worse than riding on an airplane. I got out of the car and stood on the deck while we crossed because if that rascal sank I didn't want to be trapped in the car. On the other side of the river a single lane dirt road wound up the steep mountain side, with no guard rails and Mother was hollering every foot of the way. The next day we read in a Yakima paper that that ferry had sunk that afternoon with two big trucks on it. We finally got to our destination - Yakima, Washington. My dad's brother, Milroy Nettleship, lived in Walla Walla with his wife, Addie. They had three children - Mildred, Teeney, and Bill. All three of them were grown at that time and were about the age of my older sisters. Cousin Bill and his wife Irma lived in Yakima, and I believe in later years Uncle Milroy also moved to Yakima. Walla Walla was about 120 miles southeast of Yakima. I know Teeney and her husband Truk Corkrum lived on a wheat ranch outside Walla Walla but can't remember about Mildred and her husband except that they lived on a farm outside either Yakima or Walla Walla. I do remember we spent about a week at Mildred's who had three boys close to my age and Johnny's age. The oldest boy was at a girl-chasing age and kept me out every night with dates.

Cousin Bill had a big time showing Johnny and me around the country and took us fishing in mountain streams a couple of times. Bill was probably close to 30 and a true Nettleship - hairy as an ape but bald on top. He was in the decorator business. He and his crew would decorate whole towns for Christmas or other holidays and he seemed to be doing well. When we left Yakima we drove to Seattle and spent a few days visiting with Uncle Frank Nettleship, another of Dad's brothers. He had a dairy plant in downtown Seattle, a wife and two or three little children. Uncle Frank took me and Johnny salmon fishing in Puget Sound in a small boat with an outboard motor on it. I can't now imagine getting out into the deep waters of Puget Sound in a rowboat but we did it then. I didn't catch anything but Johnny caught a big salmon that almost pulled him out of the boat and I thought we were going to turn over until Uncle Frank got everything under control. We took the fish home and cooked it for supper - it was delicious. When we left Seattle we drove back down through Yakima and on to Walla Walla where we stayed several days with Uncle Milroy and Teeney and Turk. To this day I don't know why we didn't go direct from Portland to Seattle and then catch Yakima and Walla Walla on the way back unless we didn't know Uncle Frank was in Seattle until Bill Nettleship told us.

We spent a few days on Teeney's wheat ranch which comprised several thousand acres. They had some humongous threshing machines and Johnny and I rode on top of one of them to see what they did. I got a little too curious one day and opened a small hinged access door to see what was inside. Wheat chaff blew all over me and I remember it was several days before I got all those little particles out of my neck and face that itched to beat the dickens. We also rode some of their horses and one afternoon Johnny and I were out riding on a couple of the "gentle" ones and it was getting late and time for horses to eat. We turned the horses toward the barn yard and they took off like scared rabbits. We hollered whoa and stop and all the other good commands we could think of but they were hungry. My horse was doing about 30 mph when he got to the barnyard gate and planted his front feet and came to a dead stop. I flew over the fence but fortunately landed on my feet and wasn't hurt. Everyone but me thought it was real funny.

When we left Walla Walla we headed down towards Boise, Idaho - on dirt raods. Our destination was Star, Idaho, a small crossroads a few miles outside Boise. We wanted to visit a couple more of Dad's brothers, Shelby and Cummings. These two brothers had been real vagabonds, bumming around the country most of their lives, always together. Cummings was about 6'-7" tall and Shelby was about 5'-0". They truly looked like Mutt and Jeff, and they were from the same parents. They finally decided to settle down and get married. They lived outside Star on adjoining farms. They didn't own the farms - they were sharecroppers. They were so happy to see us we stayed about a week. Shelby had married a little woman about his size and Cummings

had married a big old country gal with two daughters by a former marriage. Her oldest daughter, named Flossie, was about my age and she took after me like a bird after a worm. I couldn't comb my hair without her wanting to help. She was one of those milk-fed country girls, freckled, with blondish hair about the color of hay. She wasn't bad looking but she scared me. She acted like she was all packed and ready to leave with me when we left. Guess she figured I wasn't much but I was her one-way ticket off the farm. Cummings and Shelby were like "Chip and Dale", always full of fun. They took us all to a dance on Saturday night in Star, in a big old barn where all the farmers went to dance on the week-ends. It was a lot of fun. In addition to farming, Cummings had about twenty milk cows that he milked morning and night, by hand, so Johnny and I got to practice our milking abilities. The first evening we were there we went with Cummings to help him round up the cows and direct them into the milk barn. About the time we got them all in, Cummings pointed to one way out in the pasture, a couple hundred yards out, and said "There's one out there that didn't come in. How about getting her?" So Johnny and I started running. We couldn't get closer to that animal than about a hundred yards. We chased that animal all over the "north forty" for about 30 minutes. Finally, Cummings hollered at us and told us to come back. We asked him why he was laughing and he said "Its a bull!". Life around Uncle Cummings was one practical joke after another, but it was a lot of fun and we enjoyed the visit. (I would estimate that Cummings and Shelby were in their early 50's at the time).

We left Star early one morning and headed for Boulder, Colorado, about 800 miles away. I don't remember seeing any pavement until we got to Cheyenne, but neither did we see many cars. As night approached we started looking for a place to spend the night, but since we didn't want to go into Salt Lake City, didn't find anything. About dark we agreed to just keep driving all night, with Mother and I taking turns. I drove until about midnight and Mother took over. Johnny got in front so I could sleep in the back, which I did. I woke up a few hours later and Johnny was driving, and we were going down a steep hill. I started hollering because I knew Johnny hadn't driven before. I reminded Mother that Johnny didn't know how to drive and she said it was as good a time as any for him to learn. Hoo boy! I got him to pull over and let me drive because I was real wide awake by then. We managed to find filling stations every once in a while and would always fill up because we didn't know when we'd find the next one. We got into Boulder after lunch the next day, worn out and dirty, and found Aunty Boo's house.

Aunty Boo (Beulah) was one of Mother's younger sisters. She was a big-busted woman, married to Professor Horace B. Van Valkenburg, head of the Chemical Engineering Department at the University of Colorado. He was a small wiry fellow with a van-dyke style beard, very pleasant personality. They had four children, Horace, Jack, Dorothy, and Betty. Horace was oldest, Betty the youngest. I came right in between Jack and Dorothy in age. Uncle Van loved to climb mountains and was always taking groups of college students up in the mountains for week-end camping trips. They took us for numerous drives in the mountains of Colorado, with pic-nic lunches and all that good stuff. In later years Horace became a lawyer in Denver, Jack died in his late thirties from a heart attack, Dorothy married into the Dole pineapple family in Hawaii, and I don't know what became of Betty. Uncle Van was killed in a car wreck, and Aunty Boo was badly crippled in the same wreck.

We stayed in Boulder about a week and then headed for Ponca City, Oklahoma, to visit two of Mother's brothers, Chris and Ivan Williams. They both worked for Conoco Oil Company. After graduation at University of Arkansas as Civil Engineers, these two brothers had gone to work for E. W. Marland (Marland Oil Company) in Ponca City doing field surveying work on the ground where the oil field was. They stayed with Marland and then later when it became Conoco. Chris, the oldest, became a Vice President, and Ivan stayed in Engineering Department. Uncle Chris

and his wife Kitty (a devout social climber) later on had triplet boys. Uncle Chris with all his success and high flying social activities became a serious alcoholic and committed suicide. At the time we were there everything was wonderful and went out of their way to show us a good time. Uncle Ivan was a down to earth serious minded engineer, and I enjoyed him the most. We played a lot of checkers while we were there. We stayed in Ponca probably three or four days and left one morning for home. We were more than ready to see Fayetteville again. I don't know whether my Dad expected us to be gone as long as we were but when we pulled into the driveway at home we had been gone almost three months, from June 1 to August 25. When we left, the car had about 400 miles on it. When we returned it showed almost 10,000 miles, so we had driven about 9500 miles. The car hadn't given us a minute's trouble, and looking back I can't remember having to change a flat on that trip. We must have because of the lousy roads but I sure don't remember it.

I was plumb tuckered out and spent about a week in bed sleeping and resting. Oh yes, remember I said we had left home with a total of $480. When we got home we each had a couple of bucks left. We had paid for gasoline and everything out of that money. We had a great time and it gave Mother something to talk about for several years.

Appendix 04

Louis Nettleship ASHRAE Certificates

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

This is to certify that

Louis C. Nettleship

is a

Member

and is entitled to all the rights and privileges of such membership.

January 1959



A. V. Hutchinson
Secretary

Louis Boling
President

CERTIFICATE OF APPRECIATION

Awarded to

Louis C. Nettleship

President, Central Oklahoma Chapter

1968-1969

in grateful recognition for devoted service
to the growth and progress of the

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Executive Secretary

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC.
NEW YORK
1895

President

CERTIFICATE OF APPRECIATION

Awarded to

Louis Nettleship

President, Central Oklahoma Chapter

1970-1971

in grateful recognition for devoted service
to the growth and progress of the

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A. R. Boggs
Executive Secretary

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC.
NEW YORK
1895

Frank H. Bridges
President



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Presidential Award of Excellence

Presented to the

Central Oklahoma Chapter

For significant improvement in membership, attendance, and research promotion during the period July 1, 1970 - June 30, 1971.

Frank H. Bridgers
President

LOUIS C. NETTLESHIP
EDITOR SOU'WESTER
CENTRAL OKLAHOMA CHAPTER ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Distinguished Service Award

conferred on

Louis C. Nettleship

in recognition for serving faithfully and with distinction and giving freely of his time and talent on behalf of the Society.

June 1976

Wm J. Collins Jr.
President

Executive Secretary

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. NEW YORK 1895

H R A E

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Regional Award of Merit

Presented to

Louis C. Nettleship

For outstanding service to the Central Oklahoma Chapter while serving in each of its offices; for chairing chapter committees, with especially notable service as editor of the Chapter Newsletter for a number of years; for serving as CRC Delegate and Alternate; for his many years of yeoman's work with the Society Handbook Committee; and for being a strong influence on Society development.

Regional Chairman

Emil E. Fiberg

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Fellow

Louis C. Nettleship, P.E.

has attained unusual distinction
in the arts relating to the sciences of
heating, refrigeration, air conditioning
or ventilation and has made
substantial contributions to
these arts and sciences.

January 19, 1987

President

Secretary

Appendix 05

1966, March 09 – ASHRAE Nomination for TC 5.1

ASHRAE File

COLLINS ENGINEERING ASSOCIATES, Inc.

(WM. J. COLLINS, JR., Consulting Engineers)

OKLAHOMA CITY — TULSA

Job _____ Architect _____ Job No. _____

Subject _____ Date _____ By _____ Sheet _____ of _____

Industrial

OK Nettleship — Refrig TC 5.1

OK Bill Flynn - Membership DEVELOPMENT

OK Bill Johnson - ~~Fuels & Combustion~~ TC 3.5 Combustion & Fuels

OK L. Loeffler — HEATING TC 3.1

~~Carl Gray~~ —

out of town Walt Glancy — ~~Heat Transfer~~ TC APPLIED EQUIPMENT 9.1, 9.2, Coils, Fan-coil Units A.C.Cond. Liquid Heat Exchgr.

NO John Carnahan — GUIDE & DATA BOOK

— ~~Bill Collins~~ —

yes John Levenhagen — T.C. 10.1 controls

~~Wm Nelson~~ —

Von DB Turkington —

OK Jim McKinney — TC 9.3 EDUCATION Cooling Towers, Evap. Condensers

~~Louis Wickline~~

RECEIVED
MAR 10 1966
Davis & Rountree
Consulting Engineers

1411 Classen Blvd., Rm. 235
March 9, 1966

Mr. Andrew T. Boggs, III
Associate Secretary
AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR CONDITIONING ENGINEERS
United Engineering Center
345 East 47
New York, New York 10017

Dear Sir:

The Central Oklahoma Chapter of ASHRAE respectfully submits the following list of members for consideration as appointees to the General and Technical Committees for the 1966-67 fiscal year:

FLYNN, William J.	General Committee for Membership Development
JOHNSON, William R.	Technical Committee 3.5 Combustion & Fuels
LEVENHAGEN, John I.	Technical Committee 10.1 Control
LOEFFLER, Louis, Jr.	Technical Committee 3.1 Hot Water & Steam Heating
MC KINNEY, James T.	Technical Committee 9.3 Cooling Towers & Evap. Condensers
NETTLESHIP, Louis C.	Technical Committee 5.1 Industrial Refrigeration

Enclosed you will find a biographical sketch for each of the above mentioned members.

Yours very truly,

L. L. Von Tungeln, President
Oklahoma City Chapter

LLV:lt
cc: Geo. H. Meffert

and Harry Rountree
air mail

Appendix 06

1966, March 24 – Nettleship Letter Accepting ASHRAE Treasurer Position

March 24, 1966

Mr. Louis Loeffler, Jr.
Federal Corporation
120 E. Main St.
Oklahoma City, Oklahoma

Dear Louis:

Mr. G. T. Donceel called me this afternoon and asked if I would accept nomination as Treasurer of the Oklahoma City Chapter of ASHRAE for the coming year, and if so would I send you written confirmation of my willingness.

So this is to advise that I not only am willing but consider it an honor to be nominated. Thanks and kindest regards.

Sincerely yours,

Louis C. Nettleship

LCN:lb

Appendix 07

1967, May 08 – Nettleship ASHRAE Secretary Writing Example

AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR-CONDITIONING ENGINEERS, INC.
United Engineering Center, 345 East 47th Street, New York, N. Y. 10017

MINUTES

CHAPTER: CENTRAL OKLAHOMA CHAPTER MEMBERSHIP: 175

ATTENDANCE: Members 68 ; Guests 9 ; Total 77

COMPILED BY: Louis C. Nettleship MEETING DATE: May 8, 1967

***DISPOSITION:** Send WHITE, together with YELLOW copy for JOURNAL information, to Membership Department, ASHRAE, New York. Send the GREEN copy to your REGIONAL CHAIRMAN. Retain BLUE copy for your CHAPTER FILES.*

A CHECK LIST OF ITEMS TO BE REPORTED

1. PRESIDING OFFICER
2. CALL TO ORDER (TIME & PLACE)
3. ROLL CALL
4. APPROVAL OF MINUTES
5. REPORTS
6. ELECTION
   - MEMBERS
   - OFFICERS
7. OLD BUSINESS
8. NEW BUSINESS
9. SPEAKER
   - (TITLE)
   - (SUB.)
   - (CITY)
   - SUBJECT
10. DISCUSSION
11. MOTIONS
12. RESOLUTIONS
13. OTHER FEATURES

Technical workshop, held during social hour, was called to order at 6:00PM By Moderator Roy Thompson, Garanahan and Thompson, Engineers, who introduced the other three members of the four man panel discussion, Marion Cohenour, Dan Walker, and John Levenhagen. Subject of the panel discussion was "I DIDN'T FIGURE IT THAT WAY". With Mr. Thompson representing the consulting engineers, Mr. Cohenour the mechanical contractor, Mr. Walker the electrical contractor, and Mr. Levenhagen the control equipment supplier, the discussion centered around problems of the electrical contractor and the temperature control man with respect to electrical wiring. Questions and statements from the audience added fuel to the fire, and interest from all members was great. Approximately 40 were in attendance at all times. This meeting was adjourned at 6:45PM.

President Louis Loeffler, Jr. presiding, called the regular meeting to order at 7:30PM in the Town Hall Meeting Room of Val Gene's Restaurant, Penn Square, Oklahoma City, Okla. Copy of record of members and guests attending meeting is attached to these minutes.

Invocation was given by Gene Binnings, followed by introduction of guests by Ray Mikkel, Attendance Committee Chairman.

President Loeffler expressed chapter's appreciation to Technical Committee for the excellent workshop held earlier in the evening.

President Loeffler reported on the Region VIII meeting in Tyler, Texas, and ended with heavy emphasis on the goal of 40% increase in membership for the coming year.

Reed Nelson, Chairman Special Events Committee, called attention to the chapter's annual barbecue to be held Monday evening, June 12, in Wedgewood Park. Twenty-two members have already signed up for a pre-picnic golf tournament on that day. Members of the Northwest Oklahoma chapter have been invited.

President Loeffler paid tribute to the fifteen past presidents in attendance at the meeting, and expressed the chapter's appreciation for their efforts.

President Loeffler called for report from Dave Scheirman, Chairman of Election Tellers, on results of the voting for new officers. Mr. Scheirman reported the talley showed candidates were elected by complete majority. Past-President Earle Gray introduced the new officers and members of the Board of Governors, and in a brief installation ceremony, charged the new officers with the duty to rededicate themselves to furtherance of all goals of A.S.H.R.A.E.

USE REVERSE SIDE, IF NECESSARY (over)

Outgoing President Loeffler, in a brief speech of thanks to the membership for their complete cooperation, turned over the chapter gavel to incoming President L. E. Wickline.

President Wickline then presented to Mr. Loeffler a certificate and Past President's lapel pin in appreciation of his services to ASHRAE and the Central Oklahoma chapter.

Louis Nettleship introduced the speaker of the evening, Mr. Laurence L. Eberhart, President of Consolidated Kinetics Corporation, Columbus, Ohio, Subject "New Media and techniques for Control of Vibration and Structure Born Noise". Illustrating his talk with slides, Mr. Eberhart presented and excellent discussion of the causes of vibration in buildings and the dos and don'ts in dampening these vibrations. His discussion included suggestions to consultants on specifying, and the different materials available.

A door prize drawing for Past President's resulted in James T. McKinney winning a beatiful stainless steel carving set. Door prizes for members in attendance were won by John Wallace (pen and pencil set), and Ed Thompson (continuity tester). Bob Bradford won a free ticket to the barbecue on June 12.

The meeting was adjourned by President Wickline at 9:45PM.

Respectfully submitted,

Louis C. Nettleship
Secretary

cc/Stephen C. Singleton
Jack W. Thompson
Louis Loeffler, Jr.
Lewis E. Wickline
Harry Rountree
John Levenhagen

ATTENDANCE MAY 8, 1967
CENTRAL OKLAHOMA CHAPTER
A S H R A E

MEMBERS:

Alford, Clifford W. Jr.	Henderson, David E.	Nikkel, Fay O.
Baldwin, Charles B.	Henderson, J. R. Sr.	Oler, Paul F. Jr.
Beauchene, Lyndon D.	Janco, Albert N.	Penner, Fred W.
Birning, Gene H.	Jensen, Carl O.	Pickett, Lester F. Sr.
Blanchard, Everett E.	Johnson, William R.	Purifoy, Boyd F.
Boyett, Tom J.	Knop, John F.	Reinhart, John B.
Bradford, Robert R.	Kaul, Robert A.	Rountree, Harry E.
Bradley, John R. Jr.	Levenhagen, John I.	Saunbush, Elmer T.
Carnahan, John H.	Lilly, Travis	Scheirman, David
Carr, Carroll A.	Lockwood, Glenn F.	Smith, Chester C. Jr.
Carter, Lewis H. Jr.	Loeffler, Frank K. Sr.	Spaan, John H. Jr.
Chenoweth, Billy G.	Loeffler, Louis, Jr.	Steinbeck, Foster G.
Cohencur, Marion K.	Love, George E.	Thompson, Edwin K.
Corrman, George W.	Martin, Robert F.	Tiller, Louin
Dawson, Eugene F.	McKinney, Karl R.	Trammell, George E. Jr.
Dean, Dallas S.	McKinney, James T.	Van Tungeln, Lloyd L.
Ellingson, E. T. P.	Millsaps, James C.	Wallis, John E.
Ellis, Richard R.	Moliter, Gerald C.	Wickline, Lewis E.
Erwin, Gordon E.	Moran, A. R.	Williams, H. L.
Fishell, Marion F.	Nease, I. D.	Wolfe, Ted B.
Frankfurt, William W. III	Nelson, Reed S.	Wright, Elmer
Gray, Earle W.	Nelson, Robt. R.	Pitts, Bill
Hayes, Charles R. Jr.	Nettleship, Louis C.	

GUESTS:

Laurence L. Eberhart	Consolidated Kinetics Corp.	Columbus, Ohio. (Speaker)
Roy Thompson	Carnahan & Thompson	Oklahoma City (Panelist)
Dan Walker	Geddis-Walker Electric	Oklahoma City (Panelist)
Arnold Shelley	Home Builder	Oklahoma City
Jim Thompson	Dunham-Bush	Oklahoma City
Corydon W. Batt	Oklahoma Natural Gas Co.	Oklahoma City
Ray Curtis	Johnson Service Co.	Oklahoma City
George W. Wood	Benham-Blair	Oklahoma City
C. B. Griggs	Rayne Water Conditioning	Oklahoma City

Appendix 08

1967, August 14 – ASHRAE Meeting Location Motion

SUBJECT: ASHRAE Board of Directors Meeting, August 14, 1967

Members Present Were:		
	L. E. Wickline	Bob Estep
	John Kamp	R. H. Nelson
	Bill Flynn	Bill Collins
	Carroll Carr	Louis Loeffler
	John Levenhagen	Charlie Hayes
	Earl McKinney	Jim McKinney

President Wickline advised that the committee on the changing of themeeting place had checked the following places:

1. Howard Johnson Restaurant - This place has a nice meeting room which is run by the Motel and food is served by the restaurant. You advise them prior to the meeting what meal from their standard menu you want to use that evening and pay the price on the menu. This would make the over-all cost of the meal plus set-ups on the order of $4.50.

2. Habanna Inn - These people are currently completing a room which would be satisfactory for our meeting and they have indicated they would serve a small steak for $3.00 plus a set-up charge. This would make the cost run $3.25 to $3.50.

3. Home Builder's Building - This place is available and is catered by Glenda but the cost of the meal would be on the order of $4.50.

Mr. Wickline advised that at present we are paying Val Gene's $3.00 a plate ~~and paying for~~ including set-ups but we were getting very little cooperation from them and it seemed to be the general opinion we should change. If we change it will cost us more money and we probably should consider raising the cost of the meal from the present $2.50. After considerable discussion, R. H. Nelson moved we raise the cost of the meal to $3.00. Bill Flynn seconded it and the motion carried. Bill Collins moved that a committee composed of Louis Wickline, Louis Nettleship and Louis Loeffler be charged with selecting the meeting place for the coming year. The motion was seconded by R. H. Nelson and carried.

President Wickline advised that he had received a letter from National Office advising that to meet the 40% increase in membership we needed 73 new members. Bob Estep, Chairman of the Membership Committee, advised that we are presently processing 10 new applications, so this only left 63 to go and Bill Collins suggested that President Wickline write to the Regional Chairman advising him that we felt 73 new members was a rather high quota in view of the fact that 2 years ago we were one of the Chapters that put on a concentrated drive and proved that it was possible to increase the membership 40% and on this basis it was a little premature to expect us to be able to do this again within 2 years.

National also is requesting that more emphasis be given to working on student memberships and as a result a student membership in the amount of $5 will give a student the monthly journal plus the guide books. Bob Estep is to contact Department Heads at OU and OSU to work on this.

President Wickline read a letter received from NSPE regarding Office of Civil Defense Development Course for Environmental Engineering and made the suggestion we suggest sponsoring this course. The letter further went on to advise that the Course would be held September 18 at OU and that Tom J. Love was the Course Director. Bill Collins moved that we support this Course, provided no monetary involvement on our part was required. Charlie Hayes seconded the motion and it carried.

John Levenhagen gave the Treasurer's Report, copy of which is attached.

John Kamp advised that they were progressing with the preparation of the new Roster, but he was lacking programs for the coming year and wanted to go to press in early September. Wickline advised that Bill Hulsey had called him to advise he had programs through January and hoped to have ~~many~~ programs firmed up within the next two weeks and Wick would have Bill Hulsey contact John Kamp on this.

Bill Collins advised that the Scholarship check for OSU had been sent to them and in addition he moved that we make the recipient of the Scholarship a Student Member and pay his $5.00 dues. Charlie Hayes seconded the motion and it carried. Bill also went on to advise that members would shortly be requested to contribute to the Scholarship Fund since it had now been depleted.

John Levenhagen moved we adjourned; motion was seconded and carried.

Respectfully submitted,

J. T. McKinney
Acting Secretary

cc: L. E. Wickline

Appendix 09

1967, August 25 – Letter Selecting Habana Inn for ASHRAE Meetings

August 25, 1967

Mr. Harry E. Rountree,
Davis & Rountree,
3022 N. W. Expressway,
Suite 200,
Oklahoma City, Okla.

Dear Harry:

Although I was not in attendance, am informed that the Board of Governors of our Central Oklahoma Chapter of ASHRAE, in their August 14 meeting, appointed a committee of three to select a new meeting place for our monthly meetings, and gave the committee authority to make the decision and confirm reservation. Committee consisted of Lewis Wickline, Louis Loeffler, Jr., and myself. Please let this letter serve as minutes of the actions of this committee.

Investigation of Howard Johnson's on North Lincoln proved discouraging. The motel and restaurant are operated by two different factions. We would reserve the meeting hall from the motel and the meals from the restaurant. The meeting hall is free if the restaurant caters the meals. The manager of the restaurant left us with the feeling that he could/care less about whether we patronized him or not - and an ordinary meal would have cost us $2.75 or $3.00 without tip - a steak would be at regular price as listed on their standard menu - no discount for quantity. Set-ups and tips would also be extra.

Our committee had a final meeting today with Al Christiansen of the Habana Inn, and agreed to go along with the Habana in accordance with attached copy of confirming letter. In view of the fact that you were out of town this week, I took the liberty of acting as secretary and wrote this confirming letter to the Habana. Certainly hope this is okay with you.

It is the committee's suggestion that the secretary, namely you, should write a short note to Val Gene's in Penn Square advising them that we have made other arrangments this year, and appreciate their past favors.

Kindest regards,

Louis C. Nettleship

cc/L. E. Wickline,
Louis Loeffler, Jr.
John I Levenhagen

COPY

August 25, 1967
P. O. Box 12468
Oklahoma City, Okla. 73112.

Habana Inn,
6600 N.W. Hiway 66 Expressway,
Oklahoma City, Oklahoma.

Att: Mr. Al Christiansen.

COPY

Dear Al:

This will confirm the conversation today between you, and the three members of a committee from our chapter (Mr. Louis Loeffler of Federal Corporation; L. E. Wickline of Dunham-Bush, and the writer) in regard to removing the monthly meeting place of our chapter to the dining hall of the Habana Inn for the coming fiscal year.

After our discussion with you today, our committee requested unanimously that you make reservations for us for the second Monday evening in each month, beginning in October thru May of 1968. These dates would be:

October 9, 1967
November 13, 1967
December 11, 1967
January 8, 1968
February 12, 1968
March 11, 1968
April 8, 1968
May 13, 1968

Points brought out in our discussion:

Our attendance runs between 75 and 100 - we will advise you Monday morning of each meeting date, the number of reservations, and you will allow a plus or minus 10% deviation.

You will furnish portable bar and bus boy, with set-ups and ice. We will furnish bartenders and liquor.

Meeting room approximately 2300 sq. ft. floor area, plus use of small 14x25 room for technical sessions.

Dinner to consist of 10-oz steak as entree, with potatoe, salad, sherbert, coffee. (This may be varied at our request providing all plates served are alike)

Total cost of $3.25 per person for meeting room, set-ups, and dinner.

Our meeting time is as follows:

Social hour (bar) - - - 5:45PM to 6:45PM
Dinner - - - - - - - - - 6:45PM to 7:15PM (or 7:30 PM)
Meeting with speaker- - 7:30PM to about 9:00PM.

Invoice for payment to be sent to our Treasurer, Mr. John Levenhagen, whose address is given below.

We certainly appreciate your courtesies in answering our many questions, and your interest in having our meetings at the Habana. With our kindest personal regards, we remain,

Yours very truly,

Louis C. Mattleship
Chapter Vice-President

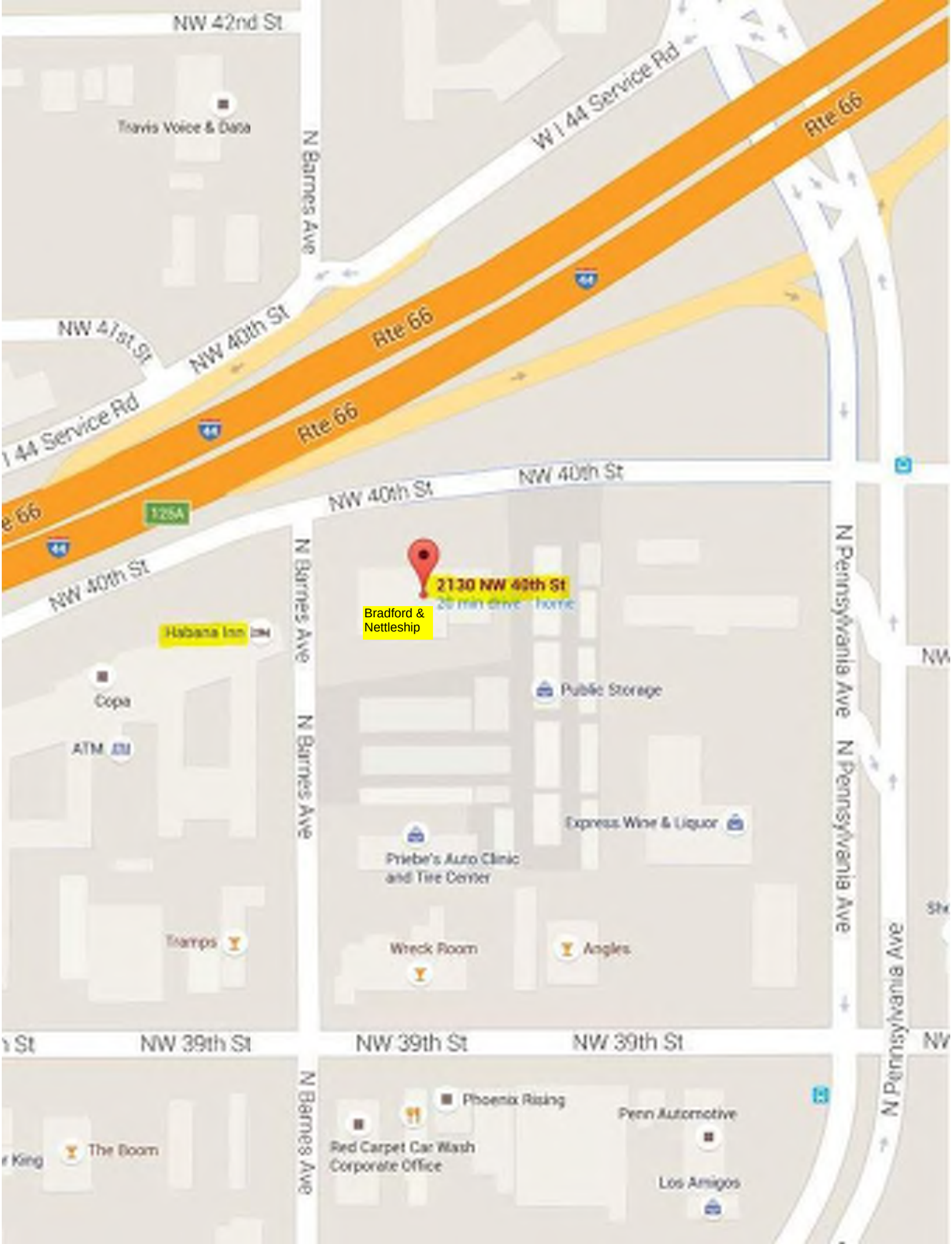
LCM:MAT

cc/ Mr. L. E. Wickline, Pres.
Dunham-Bush, Inc.,
4515 N. Santa Fe

Louis Loeffler, Jr.
Federal Corporation,
120 E. Main St.,
Oklahoma City, Okla.

Harry E. Rountree,
Davis & Rountree
3022 N. W. Expressway

John I. Levenhagen (Chapter Treasurer)
Johnson Service Co.
9 N.W. 41st St.,
Oklahoma City, Okla. 73118


NW 42nd St
Travis Voice & Data
N Barnes Ave
W I 44 Service Rd
Rte 66
NW 41st St
NW 40th St
I 44 Service Rd
Rte 66
Rte 66
NW 40th St
NW 40th St
125A
NW 40th St
2130 NW 40th St
Bradford & Nettleship
Habana Inn
Copa
ATM
Public Storage
N Pennsylvania Ave
N Pennsylvania Ave
Express Wine & Liquor
Priebe's Auto Clinic and Tire Center
Tramps
Wreck Room
Angles
NW 39th St
NW 39th St
NW 39th St
N Barnes Ave
Phoenix Rising
Penn Automotive
Red Carpet Car Wash Corporate Office
The Boom
Los Amigos

Appendix 10

1967, December 04– ASHRAE BOG Motion to Purchase New Name Badges

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

CENTRAL OKLAHOMA CHAPTER
MINUTES OF BOARD OF GOVERNOR'S MEETING
December 4, 1967

President Lewis Wickline called the meeting to order at 12:00 noon in the private dining room of Patrick's Restaurant, 23rd and North Western, Oklahoma City, Oklahoma.

The following were present:

Lewis Wickline	John Levenhagen	John Kamp	Earl McKinney
Jim McKinney	Bill Hulsey	Louin Tiller	Charles Hayes
Harry Rountree	Bob Bradford	R. H. Nelson	Carrol Carr
Louis Nettleship	Dave Scheirman		

Minutes of the November 6, 1967, meeting were read and approved.

Treasurer's report was presented and approved.

Bill Hulsey, Chairman of the Program Commitee reported that the program for the next chapter meeting was set, "Fire and Smoke Detection".

Dave Scheirman, Chairman of the Technical Commitee advised that the planned technical session for the next meeting could not be arranged. A session is planned for the January meeting.

Bob Bradford, Chairman of the Reception Committee advised that arrangements for the next meeting were settled. He initiated a discussion having to do with those members who come to the meeting for the "Happy Hour" only, do not stay or pay for their meal, and do not stay for the program. This practice complicates "signing in", as well as making a dinner count uncertain. After much discussion, it was decided that those who were in this category would not be signed in nor would they be issued a name card. A visual check would be made during dinner to assure no meals were served to those who had not paid.

President Wickline suggested that a supplemental list of new members be prepared for insertion in to the roster. It was also suggested that the list take into account deletions from the roster. After discussion, it was decided to mail a supplementary list with the Sou'wester in January.

In the absence of Louis Loeffler, Ham Nelson reported for the Badge Committee. He advised that the name tags discussed at the previous meeting were available locally and at about the same price as was available from a Houston source. The Badge Committee recommended that badges and suitcase cabinets be purchased. Louis Nettleship moved, with a second from John Levenhagen that the committee be authorized to proceed with the purchase of badges and cases in an approximate amount of $225.00.

President Wickline announced that Treasurer, John Levenhagen is changing jobs and will be leaving the state and chapter. The chapter bylaws state that in the event of a vacancy to one of the chapter offices, the Board of Governors shall make an appointment to fill the vacancy. Louis Nettleship moved, and Levenhagen seconded that R. H. Nelson be nominated for the office of Treasurer. Jim McKinney moved and Dave Scheirman seconded that the nominations cease. R. H. Nelson was elected unanimously.

President Wickline re-appointed John Carnahan and his committee to audit the Treasurer's books.

With the election of R. H. Nelson to the Treasurer's office, a vacancy to the Board of Governor's exists. Jim McKinney moved and Louis Nettleship seconded that John Kamp fill the vacancy in the Board of Governors. Motion carried.

The Board of Governors as a whole commended John Levenhagen for his considerable efforts in working for the chapter and wished him the best in his new endeavor.

Louis Nettleship moved, and John Kamp seconded, for adjournment. The meeting was adjourned at 1:30 pm.

Respectfully submitted,

H E Rountree

H E. Rountree, Secretary

HER:mr

cc: Lewis Wickline
Jack Thompson
Stephen Singleton

Appendix 11

1968, April 01 – ASHRAE Voting Ballot and Results Showing Nettleship as President

4/1/68

File

SAMPLE BALLOT

This sample ballot is prepared in accordance with Article VII, Paragraph 7.3 of By-Laws of the Central Oklahoma Chapter of ASHRAE, these By-Laws dated June 10, 1963.

The following nominations have been submitted by the Nominating Committee for officers during the 1968-69 fiscal year.

President	Louis Nettleship	☐
	_____	☐
Vice President	Harry Rountree	☐
	_____	☐
Asst. Vice President (Delegate to Regional Conference and must be a Past President)	Louis Loeffler	☐
	_____	☐
Secretary	R. H. Nelson	☐
	_____	☐
Treasurer	John F. Kamp	☐
	_____	☐

Board of Governors:

Carl Jensen (Assistant Delegate)	☐
_____	☐
W. J. Flynn	☐
_____	☐
Earl McKinney	☐
_____	☐

If you wish to add the name of anyone else to the Ballot, please receive their written approval prior to the April 8th meeting and nominate them from the floor at that time. All candidates must be members in good standing in the Society and the Central Oklahoma Chapter.

AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR CONDITIONING ENGINEERS

File

CENTRAL OKLAHOMA CHAPTER

OFFICERS AND COMMITTEES
1968 - 69

OFFICERS

President.....Louis C. Nettleship
Vice-President.....Harry E. Rountree
Asst. Vice-President (Delegate).....Louis Loeffler, Jr.
Secretary.....R. H. Nelson
Treasurer.....John F. Kamp

BOARD OF GOVERNORS

Carl O. Jensen (Asst.Del.)
William J. Flynn, Jr.
Earl R. McKinney
Lewis E. Wickline

COMMITTEES

PROGRAM:
David M. Scheirman, Chairman
William C. Ferguson
Thomas E. Determan

ATTENDANCE:
Bill B. Hulsey, Chairman
I. D. Nease
Gerald J. Manning

MEMBERSHIP:
Robert E. Estep, Chairman
W. A. Pitts
Harry A. Schwartz

SPECIAL EVENTS:
Earl R. McKinney, Chairman
John E. Wallis
R. B. Akins

PUBLICITY & ROSTER:
John F. Kamp, Chairman
L. L. Von Tungeln
George W. Gilroy

SCHOLARSHIP:
William J. Collins, Jr., Chairman
William R. Johnson
John H. Carnahan

RECEPTION:
Clifford W. Alford, Chairman
Foster G. Steinbeck
Elmer T. Saunkeah

TECHNICAL:
William Frankfurt, Chairman
William H. Orr
William R. Johnson

EDUCATIONAL:
William R. Johnson, Chairman
William J. Collins, Jr.
William J. Flynn, Jr.

DEVOTIONAL:
Louin Tiller, Chairman
Victor R. Schuelein
Boyd F. Purifoy

SOU'WESTER NEWSLETTER
Carrol A. Carr, Editor
William J. Collins, Jr., Assoc. Editor
Harry E. Rountree - Staff

Appendix 12

1968, September – ASHRAE Tech Session and Social Hour Not at Same Time

ASHRAE File

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

CENTRAL OKLAHOMA "GOLDEN GAVEL" CHAPTER

RECEIVED
SEP 11 1968
Davis & Kournikos
Consulting Engineers

September 10, 1968

TO: ENTIRE MEMBERSHIP

Our meetings for the new fiscal year are about to begin - the first one to be Monday evening, October 14, in the Habana Inn. This year we have planned technical sessions for each meeting, and want to change the time schedule a few minutes.

Rather than have the Tech Session at the same time we have the social period (which results in a deep conflict in the thinking of some of the members - whether to attend the Tech Session or "shoot-the-bull" at the bar), we are planning on having the Tech Session before the social period. The time schedule will be as follows:

Tech Session ----------	5:15PM to 6:00PM
Social Period----------	6:00PM to 6:45PM
Dinner----------	6:45PM to 7:20PM
Speaker----------	7:30PM to 8:15PM
Adjourn----------	No later than 8:30PM

The 5:15 PM starting time may mean leaving your office a few minutes early. but it is only once a month, and we promise you the knowledge gained will be well worth your time. We will certainly appreciate it if every member will make a special effort to arrive not later than 5:15PM so we may maintain our time schedule.

Thanks and kindest regards,

Sincerely yours,

Louis Nettleship

Louis Nettleship
Chapter President
P. O. Box 12468
Oklahoma City 73112

LCN:en

P.S. Some of you have requested information on membership in the Copa Habana Club. Am attaching application blank - if you will fill in the information requested, sign it, and mail it to me at above address, I'll see that you get your membership card -

Appendix 13

1968-69 – ASHRAE COK Annual Report

ANNUAL REPORT

CENTRAL OKLAHOMA CHAPTER

I CHAPTER MEETING:

Time:	Technical Session	5:15 P.M.
	Greetin'	6:00 P.M.
	Eatin'	6:45 P.M.
	Meetin'	7:30 P.M.

Date: Second Monday of each month, October through May, inclusive. Our June meeting is an outdoor Bar-B-Q and golf tournament.
Board Meetings only (with committee chairmen) were held during the summer months.

Place: Habana Inn
2200 NW Expressway
Oklahoma City, Oklahoma

Our dinner charge is $3.00 per person, which includes a steak dinner, bar service, setups, and tips. The Habana Inn charges us $3.25 per person, however, the Chapter subsidizing the difference through bar income. We anticipate an increase in these charges next year.

Our meeting facilities are good with the exception of a flexible partition which separates our Technical Session room from the bar and dinner room. This flexible partition is not soundproof. Since the Technical Sessions and Social Period overlap in time, the Technical Session receives some noise interference. A separate room for the Technical Session would be much better.

The Board of Governors and all committee chairman hold a separate luncheon meeting at noon on the first Monday of each month to conduct the necessary Chapter business. The Board of Governors meetings are at Patrick's Restaurant where they provide a separate luncheon meeting room for us. Like the Habana Inn, this restaurant meeting place is also centrally located and provides parking space.

II DUES STRUCTURE:

Chapter Dues:	$6.50 per year
Billing Date:	October 1st
Delinquent Member :	11

Included in Chapter dues are $5.00 for Chapter expenses and $1.50 for the Chapter roster. We have always been able to balance our budget nicely with these charges.

So far, we have not tried an annual "package" price including dinner.

All delinquent members are contacted by phone and reminded in our newsletter. Difficult delinquents will be called on personally by a member of the Board.

III PUBLICATIONS:

The "Sou'wester": This is our Chapter publication or newsletter. It is printed and distributed to each member during the week before each Chapter meeting.

This newsletter is letterhead size, a soft green color, and usually two pages. The top of the first page is printed in letterhead style with the name of the newsletter, the Chapter name, and the ASHRAE emblem. The bottom one inch of the first page contains a printed list of the staff, Chapter officers, Board of Governors, and committee chairman.

Included in the newsletter are the meeting notice, announcement of the next program and technical session, as well as a report of the previous program and technical session. Also included are announcements of upcoming events (national, regional and local), a message from the Chapter President, and other news items of interest to members.

Roster: We publish a Chapter roster annually and endeavor to have it printed and ready to distribute at our first meeting in October. The price of this roster is included in local Chapter dues. It is pocket size, approximately 3-1/2" by 8-1/2" and this year, contained 26 pages.

The members are listed alphabetically including name, business affiliation, title, office and home addresses, phone numbers and wife's name.

In addition, we list the current Chapter officers, Board of Governors, Chapter Committee Chairman, National officers, Regional Director, Past Presidents with date they served, names of life members, and complete calendar events for the year. This includes a list of all Chapter programs as well as technical sessions. A list of all scholarship recipients is shown in the roster.

IV MEMBERSHIP:

Membership, July 1, 1968	179
Membership, April 1, 1969	188
Applications Pending	6
Members Advanced	7
Average Attendance at Chapter Meetings	74
Percentage Attendance at Meetings	40
New Member Applications, July 1 to April 1	16

The Membership Committee consists of a chairman and two members. The following actions are taken with each new member:

1. Name put on mailing list immediately upon receipt of application.
2. See that meeting notices are mailed for each meeting.
3. Given publicity in Chapter newsletter immediately upon eloction.
4. Introduced to the Chapter at first Chaptor meeting following election.
5. Name put in Chapter roster at first opportunity.

Most new member prospects are obtained from the membership. Applications are expedited by assisting tho applicant with the application form or making it out for him. The Membership Committee also follows up on the references given by the applicant. The Membership Committee reports that new member applicants would be encouragod by faster processing of paperwork at national hoadquarters.

V TECHNICAL COMMITTEE:

A year ago at the Regional Meeting at Fort Worth, we were oxhorted to enlist a live wire technical committee. This, we believe has been accomplishod.

The Technical Committoe of the Central Oklahoma Chapter has been active. Immediatoly preceding each Chapter meeting, a 45 minute Technical Session is held. These sessions enlist the help and experience of local engineers as well as out of town "experts". This is the first year we have had a technical session at every meeting.

The technical session begins at 5:15 p.m. and adjourns at 6:00 p.m. except for those who want to stay for special questions. We do not open the bar until the tech session is over. (There is some overlapping.) We have adopted this policy because of the importance of technical sessions and to respect those conducting them. We do not have the benefit of a soundproof partition between the technical session and the bar room.

Subjects included this year are listed as follows:

1. Filter Drier Protection for Hermetic Compressors
2. Vacuum Pumps for Refrigerant Systems
3. Panel Discussion on Submittals
4. Steam Traps & Specialties
5. Fire Dampers and Their Applications
6. Motor Controls
7. Fiold Problems with V-Belt Drives

We appreciate the contribution of the Technical Committee, the Chairman is Bill Frankfurt. The technical sessions have been well received have had good material and we have had an average attendance of 40. The Chapter interest in the technical sessions have exceeded our expectations.

VI EDUCATION COMMITTEE

This is the first year the Central Oklahoma Chapter has had an Education Committee, Bill Johnson is Chairman. We have been active in this area, however, and are glad to report the following activities of this committee.

1. The Education Committee has been working with our two state universities, to interest them in increasing their courses of study involving heating, refrigeration and air conditioning.

2. We have worked with several trade schools in updating their systems.

3. There have been two Highschool Career Day assemblies attended by speakers from our chapter. One of our speakers, Harry Rountree, reports that his talks were well received and generated a good question and answer session.

   Harry further reported that young people today appear to be interested in technical aspects of the business. Little interest was shown for drafting or other manual arts.

   Harry stressed the glamour side of our industry but most of all, the need for people who can think, have an imagination and be happy in their chosen field.

4. The Committee has reviewed the ASHRAE sound film "Atmosphere Engineers" and will be using this film for further educational and promotional work.

VII PROGRAMS:

All programs are listed in our Annual Roster.

Our outstanding program this year was at the October meeting which we outline as follows:

Attendance: 99 members and guests.
Speaker: Mr. Frank Versagi, Editor of Air Conditioning, Heating & Refrigeration News.
Subject: "What's Happening in the Heating & Cooling Industry - Marketing and Technology"

Technical Session Speaker: Mr. M. J. Miekeljohn of Superior Valve Company

Subject: "Filter and Drier Protection for Hermetic Compressors"

Special Award: At the meeting, our annual Floyd R. Denham Scholarship was awarded to Mr. Bill Lee Kurtz, Jr. of Geary, Oklahoma, a Junior in Mechanical Engineering at Oklahoma State University, Stillwater, Oklahoma. The award was presented by Wm. J. Collins, Jr., Chairman of our Scholarship Committee.

All programs have been consummated successfully this year primarily because of good planning by the Program Committee. All programs were planned in advance during the summer and were listed in our roster at the beginning of the fiscal year. The program for each meeting included a Technical Session.

Our programs this year have all been handled with dispatch. For the first time, we followed a definite time schedule and adhered strictly to the schedule. All speakers were so advised. This has been appreciated by the membership and we believe it will stimulate attendance in the future.

VIII RESUME OF CHAPTER ACTIVITIES:

Spring Dinner Dance: In addition to our regular meetings, our Special Events Committee sponsored a Spring Dinner Dance, held Friday, March 14, 1969 at Val Gene's, Shepherd Mall, Oklahoma City. This event was well attended and enjoyed by the membership including out of town members from Stillwater, Tulsa, Shawnee and Atoka.

The Board of Governors: The Board of Governors and all Committee Chairmen hold a luncheon meeting at noon on the first Monday of each month to conduct the necessary chapter business. This year, for the first time, these meetings were held each month during the summer to maintain interest and for advance planning.

Joint Meeting: Our February meeting is always held jointly with the Northeast Oklahoma Chapter located at Tulsa, Oklahoma. The location for this meeting is alternated between Oklahoma City and Tulsa. This year, the meeting was held in Tulsa where the Northeast Oklahoma Chapter was host. We chartered a bus for the trip and 40 of our members made the journey to Tulsa.

Past Presidents' Night: Each year, our April meeting is designated as Past Presidents' Night at which all past presidents are honored. This includes special identification ribbons, introduction and comments about each.

Annual Bar-B-Q: Our last formal meeting is in May but each year for our June meeting, we hold an annual Bar-B-Q for all members and guests. This is an indoor-outdoor meeting held at Wedgewood Amusement Park and a special effort is made to invite architects, owners and prospective members. For the past two years, we have added a golf tournament which begins at noon and is held on the adjacent Lake Hefner Golf Course. The Bar-B-Q dinner is held outdoors if weather permits or within a pavilion shelter if the weather is bad. This Bar-B-Q and golf tournament will be held on June 9th this year.

Joint Engineers Meeting: Each year in February, the Oklahoma Society of Professional Engineers sponsors a joint dinner meeting of 21 local professional Engineering societies. This was begun in February 1968. An outstanding speaker such as the Governor of Oklahoma or a nationally prominent speaker is obtained. Approximately 400 engineers attend this joint council meeting and ASHRAE is usually well represented by about 30 members. We believe this joint meeting is worthy of our support as publicity for the engineering profession.

Research Fund Committee: At its meeting on June 23, 1968, the National Board of Directors of ASHRAE voted to endorse the program for encouraging and assisting each chapter to solicit and obtain contributions to the Society's general research fund. A letter so stating was mailed to all chapters under date of October 23, 1968.

The purpose of this letter was to alert all to the plan and urge all chapters to appoint the nucleus of a research fund raising committee.

President Nettleship, of the Central Oklahoma Chapter promptly created this committee and appointed Mr. Lewis E. Wickline as Chairman.

Education Committee: At the 1968 Regional Meeting in Fort Worth, Chairman Thompson called on each delegate to report whether their chapter had an education committee and to state the name of the chairman. He then took a vote to see if Region VIII would support the education committee. The vote was unanimous. At that time the only chapters having an education committee were Arkansas, Austin, Houston and East Texas. Chairman Thompson urged all chapters to establish and activate an education committee at the chapter level.

Central Oklahoma Chapter promptly established an education committee and William R. Johnson was named Chairman. The activities of this committee have been listed previously in this report.

By-Laws Committee: A temporary by-laws committee of three members was appointed by President Nettleship and recommended changes to the Central Oklahoma Chapter By-Laws to confirm with those recommended by National.

This committee also recommended that the number of elected members of the Board of Governors be increased from three (3) to six (6). The purpose was to make the size of Board of Governors commensurate with the increased size of the chapter. The Board of Governors voted approval of these changes and they will be placed before the membership for voting at the May 12th meeting this year. Local and National approval is anticipated.

IX SCHOLARSHIP ACTIVITIES:

In 1964, the Central Oklahoma Chapter established the "Floyd R. Denham Scholarship" to be presented each year to a deserving mechanical engineering student at Oklahoma State University, Stillwater, Oklahoma. The deserving student is selected by the Scholarship Committee with the assistance of the Professor of Mechanical Engineering at the University. Wm. J. Collins, Jr. is Chairman of the Scholarship Committee.

This scholarship was established in honor of Floyd R. Denham, deceased, Member and Past President of the Central Oklahoma Chapter.

This year, the scholarship was presented to the fifth recipient as mentioned previously in this report under the heading of Programs. All recipients are listed in the Chapter roster.

This scholarship of $300.00 is made available to the selected student at the beginning of the fall semester and is usually presented formally at our October meeting.

X PUBLICITY ACTIVITIES:

Newspaper Publicity: This publicity is handled by Chapter Member, George Gilroy of the local electric utilities, because of his knowledge and close relationship with the Oklahoma Publishing Company who publish the local newspapers. Publicity releases of our monthly meetings are given to the Oklahoma Publishing Company and these usually appear in the industrial section of the Sunday paper.

Joint Engineers Meeting: The Central Oklahoma Chapter always promotes attendance of ASHRAE members at this meeting each year in February. At these meetings, all ASHRAE members stand in a body and are introduced as a group to the audience of approximately 400 engineers.

Scholarship: We believe the Floyd R. Denham Scholarship contributes to good chapter publicity.

Education Committee: The activity of this committee in the state schools and local schools helps create a better public image.

Respectfully submitted,

CENTRAL OKLAHOMA CHAPTER, ASHRAE

Louis Loeffler, Jr.
Delegate

1969 ASHRAE Regional Meeting
April 17-19, 1969
Little Rock, Arkansas

Appendix 14

1968-69 – Louis Nettleship Exhibit Letters

LOUIS C. NETTLESHIP

ROBERT R. BRADFORD

B & N

WHOLESALERS AND DISTRIBUTORS — AIR CONDITIONING — REFRIGERATION — POWER TRANSMISSION EQUIPMENT — PARTS — SUPPLIES

Bradford & Nettleship

INCORPORATED

P. O. BOX 12468 — 2130 N. W. 40 — (405) 232-3494 — OKLAHOMA CITY, OKLA. 73112

February 6, 1969

Mr. John F. Kamp
Harold O. Knape & Co.
26 S. W. 25th St.
Oklahoma City, Okla. 73109

Dear John:

The general consensus of opinion among the members of the Board of Governors who attended the joint meeting in Tulsa this week, is overwhelmingly in favor of a deep sense of appreciation to I. D. Nease, and his secretary, Elaine Tutt, for furnishing us with a wonderful array of hoer'douvres for the bus trip.

Not counting labor of preparation, I. D. spent $13.84 on the ingredients. Will appreciate it if you will reimburse him by check upon your return from the Texas "vacation".

Thanks and kindest personal regards,

Yours very truly,

Louis Nettleship

Louis C. Nettleship

LCN/en

cc: I. D. Nease
J. P. Ashcraft Co.
1501 Classen Blvd.
Oklahoma City, Okla. 73106

Pd. 2-7-69
Acct 676

March 17, 1969

Allied Chemical Corporation,
P. O. Box 70,
Morristown, N.J. 07960.

Re: ASHRAE Dinner-Dance,
Oklahoma City - March 14, 1969.

Att: Mr. Jim Johnston,
Manager - Sales.

Dear Jim:

As per recent conversations with you and Henry Burki, we are attaching our invoice #27898 in an amount of $294.48 covering social hour at above event.

The Faberge' perfume you sent arrived in plenty of time and was certainly wonderful - you really outdid yourselves. The women were so amazed and pleased, it was the topic of conversation. I didn't really realize how much bargaining power a bottle of this had.

During the period between dinner and dancing, I made an announcement from the floor, as the perfume was being passed out. My wording was something like this, "Most of you already know that we are deeply indebted to the Genetron refrigerant division of Allied Chemical Corporation for picking up the entire tab on our social hour refreshments. They wanted to do this in appreciation of the business they have enjoyed in Oklahoma, in your purchase of Genetron refrigerants through their refrigeration wholesalers. In addition, we received a shipment by Air Freight this week from Genetron containing the Faberge perfume you are now receiving. Allied Chemical never forgets the ladies. Genetron's Dallas representative is with us tonight - Mr. Joe Ucmoleale, and we would like to introduce him at this time ---"

During the dance, we had many requests for second bottles to take to daughters, secretaries, etc., so we didn't have much left. The few bottles that are left will be given to VIP's wives who couldn't make it.

Due to a snow storm that hit that day, the attendance was off, so we had about a fourth of the whiskey left over at the end of the social hour (1½ hours), so we had the bartender continue to serve it during the dance until it ran out - which didn't take long, but it made a big hit with the crowd.

Thanks very much for making this a wonderful evening.

Sincerely,

Louis C. Nettleship

LCN:bm
cc/Hank Burki.

COPY

Appendix 15

1969, April 23 – Letter Concerning Missing ASHRAE Golden Gavel

P. O. Box 12468
April 23, 1969

Mr. Robert L. Sieve,
P. O. Box 302,
Shreveport, La. 71102.

Dear Bob:

We are forwarding to you today under separate cover, by insured Parcel Post, the ASHRAE Region VIII Golden Gavel. We certainly want to congratulate you on winning this award - it couldn't have happened to a nicer bunch of gentlemen.

For the written record, we would like to straighten out the remarks of Mr. Thompson in Little Rock, who said, "we didn't bring the Gavel along with us, because we were so sure of winning it again". We were informed before leaving for Little Rock, by the originator of this award, that it was not necessary to bring the gavel along, because the plan was to purchase a new one each year. Apparently Mr. Thompson was not aware of this.

We enjoyed very much being with you in Little Rock, and hope to see you again soon. With our kindest regards, we remain,

Yours sincerely,

Louis C. Nettleship,
Chapter President

LCN:bm

cc/Wm. R. Johnson
J. W. Thompson

COPY

Appendix 16

1970, June 4-6 – ASHRAE Special BOG Meeting to Re-elect Louis Nettleship as President

Minutes - Board of Governors Meeting - Central Oklahoma Chapter

A special meeting was called to order by Vice President Earl McKinney at Noon, June 4, 1970, at Patrick's Restaurant, Oklahoma City, Oklahoma.

Bill Collins	Bob Estep
Bill Orr	Jim McKinney
Bill Johnson	Bud Miller
Harry Rountree	Dave Scheirman
Earl McKinney	Bill Flynn

The meeting was called per Article 5 of the Bylaws to fill the vacancy of the office of President caused by the death of Ham Nelson.

Bill Collins made the suggestion that, in order to provide more time for the present officers to gain experience in Chapter matters, the Officers remain in their present assignments and that a committee of three past presidents select and recommend to the Board a past president to serve as president for the coming year.

Bud Miller placed the above recommendation in the form of a motion, which was seconded by Jim McKinney and passed.

Those named to the committee were:

Bill Collins - Chairman
Bill Johnson
John Carnahan

The recommendation of this committee is to be made by Thursday, June 11, 1970.

Bill Flynn asked if Bill Johnson would be able to serve as program chairman for the JETS committee and was advised that, due to other commitments, Bill would be unable to serve, but, if asked, would assist by meeting with the selected chairman for two meetings.

Bill Collins proposed that the new Board consider having a page of the new ASHRAE Directory dedicated in memory of Ham Nelson.

The meeting was adjourned at 12:40 P.M.

Respectfully submitted

William J. Flynn

William J. Flynn
Secretary, Central Oklahoma Chapter

Subsequent action of June 4, 1970 meeting of Board of Governors, Central Oklahoma Chapter of ASHRAE

On Saturday, June 6, 1970, the special committee composed of Bill Collins - Chairman, Bill Johnson and John Carnahan advised Vice President Earl McKinney of their selection of Louis Nettleship to fill the vacancy of the office of President.

Vice President McKinney polled the Board of Governors by phone and Louis Nettleship was elected by unanimous vote.

The official announcement was made to the membership on Monday, June 8, 1970 at the Annual Barbeque.

Respectfully submitted

William J. Flynn
Secretary, Central Oklahoma Chapter

Appendix 17

1971, March 30 – ASHRAE Subcommittee Appointment Letter

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

Andrew T. Boggs III
Executive Director

UNITED ENGINEERING CENTER, 345 EAST 47th STREET
New York, N. Y. 10017 PLaza 2-6800

March 30, 1971

Mr. Louis C. Nettleship
218 NW 84th
Oklahoma City, Okla. 73114

Subject: GUIDE & DATA BOOK - 1974 Applications Volume

Dear Mr. Nettleship:

It is the request of President Frank H. Bridgers that you accept appointment to serve on the above-noted Subcommittees. Service on this Subcommittee will be for a term sufficient to complete publication of the assigned volume.

Please let me know by April 15 if you are willing to accept this assignment.

If you accept this appointment, further information will be sent to you by the GUIDE & DATA BOOK Editor.

Very truly yours,

Art Boggs

ATB/df

cc: Messrs. F. H. Bridgers
S. F. Gilman
J. D. Pierce
C. W. MacPhee

CONTENTS—1974 APPLICATIONS VOLUME

SECTION I. AIR-CONDITIONING AND HEATING APPLICATIONS—COMFORT

Chapter 1. Residences
2. Stores
3. Commercial and Public Buildings
4. Places of Assembly
5. Multiple Dwelling and Domiciliary Facilities
6. Educational Facilities
7. Health Facilities
8. Surface Transportation
9. Aircraft
10. Ships
11. Spacecraft Life Support Systems
12. Shelters for Special Environments

SECTION II. AIR-CONDITIONING AND HEATING APPLICATIONS—SPECIAL AND PROCESS

Chapter 13. Process and Product Air Conditioning
14. Heating of Industrial Buildings
15. Laboratories
16. Engine Test Facilities
17. Clean Space
18. Computer Areas
19. Printing Plants
20. Textile Processing
21. Photographic Materials
22. Environmental Control for Animals and Plants
23. Drying and Storing Farm Crops

SECTION III. FOOD REFRIGERATION

Chapter 24. Theories and Methods of Chilling, Freezing, and Freeze Dehydration
25. Microbiology of Foods
26. Methods of Precooling Fruits and Vegetables
27. Meat Products
28. Poultry Products
29. Fishery Prodcuts
30. Dairy Products
31. Deciduous Tree and Vine Fruits
32. Citrus Fruits and Bananas
33. Vegetables

SECTION III. (*Continued*)

34. Frozen Fruits and Vegetables
35. Fruit Juice Concentrates
36. Precooked and Prepared Foods
37. Bakery Products
38. Candies, Nuts, Dried Fruits and Vegetables
39. Beverage Processes
40. Eggs and Egg Products
41. Refrigerated Warehouse Design
42. Commodity Storage Requirements
43. Supplements to Refrigeration
44. Diseases and Deterioration of Products

SECTION IV. DISTRIBUTION OF CHILLED AND FROZEN FOOD

Chapter 45. Trucks, Trailers, and Containers
46. Railway Refrigerator Cars
47. Marine Refrigeration
48. Air Transport
49. Retail Food Store Refrigeration

SECTION V. LOW TEMPERATURE APPLICATIONS

Chapter 50. Environmental Test Equipment
51. Cryogenics
52. Space Simulators and Cryopumping
53. Low Temperature Metallurgy
54. Biomedical Applications

SECTION VI. INDUSTRIAL APPLICATIONS OF REFRIGERATION

Chapter 55. Ice Manufacture
56. Skating Rinks
57. Concrete Dams, Sub-Surface Soils and Foundations
58. Refrigeration in the Chemical Industry

SECTION VII. GENERAL

Chapter 59. Solar Energy Utilization for Heating and Cooling
60. Codes and Standards
61. Units and Conversion Factors

CONTENTS—1973 SYSTEMS VOLUME

SECTION I. AIR-CONDITIONING AND HEATING SYSTEMS

Chapter 1. Principles for Evaluation of Air-Conditioning Systems
2. Basic Air-Conditioning System Design
3. All-Air Systems
4. Air-and-Water Systems
5. All-Water Systems
6. Multiple Unit or Unitary Systems
7. Heat Recovery Systems
8. Panel Heating and Cooling Systems
9. Building-Integrated Systems
10. Total Energy Systems
11. Applied Heat Pump Systems
12. Forced Air Systems
13. Steam Heating Systems
14. Heating and Cooling from a Central Plant
15. Basic Water System Design
16. Water Heating Systems (Low Temperature)
17. Water Heating Systems (Medium and High Temperature)
18. Chilled and Dual-Temperature Water Systems
19. High Intensity Infrared Radiant Heating
20. Electric Heating

SECTION II. INDUSTRIAL VENTILATION

Chapter 21. Ventilation of the Industrial Environment
22. Industrial Exhaust Systems
23. Industrial Drying Systems

SECTION III. REFRIGERATION SYSTEMS PRACTICES

Chapter 24. Engineered Refrigeration Systems (Industrial and Commercial)
25. Liquid Overfeed Systems
26. System Practices for Halocarbon Refrigerants
27. System Practices for Ammonia
28. System Practices for Secondary Refrigerants (Brines)
29. System Practices for Multistage Applications
30. Refrigerant System Chemistry
31. Moisture and Other Contaminant Control in Refrigerant Systems
32. Lubricants in Refrigerant Systems

SECTION IV. GENERAL

Chapter 33. Odor Control
34. Automatic Control
35. Sound and Vibration Control
36. Corrosion and Water Treatment
37. Service Water Heating
38. Snow Melting
39. Evaporative Air Cooling
40. Testing, Adjusting, and Balancing
41. Fire and Smoke Control
42. Operation and Maintenance
43. Energy Estimating Methods
44. Owning and Operating Costs

ASHRAE HANDBOOK

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PRODUCT DIRECTORY

1974 APPLICATIONS

An Instrument of Service
Prepared for the Profession
containing

A TECHNICAL DATA SECTION OF REFERENCE MATERIAL PERTAINING TO SYSTEMS FOR HEATING, REFRIGERATING, VENTILATING, AND AIR-CONDITIONING, AND BASED ON—ASHRAE TRANSACTIONS—THE INVESTIGATIONS OF THE ASHRAE RESEARCH PROGRAMS AND COOPERATING INSTITUTIONS—AND THE PRACTICE OF THE MEMBERS AND FRIENDS OF THE SOCIETY; COMPLETE INDEX TO TECHNICAL SECTIONS OF ALL CURRENT VOLUMES; A PRODUCT DIRECTORY SECTION CONTAINING MANUFACTURERS' ADDRESSES, PRODUCT SOURCES, TRADE NAMES, AND MANUFACTURERS' CATALOG DATA CONTAINING ESSENTIAL INFORMATION CONCERNING MODERN EQUIPMENT.

PUBLISHED BY THE
AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND
AIR-CONDITIONING ENGINEERS, INC.
345 EAST 47TH STREET, NEW YORK, N. Y. 10017

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CONTENTS—1978 APPLICATIONS VOLUME

SECTION I. AIR-CONDITIONING AND HEATING APPLICATIONS—COMFORT

Chapter
1. Residences
2. Stores and Shopping Centers
3. Commercial and Public Buildings
4. Places of Assembly
5. Domiciliary Facilities
6. Educational Facilities
7. Health Facilities
8. Surface Transportation
9. Aircraft
10. Ships
11. Spacecraft Life Support Systems
12. Environmental Control for Survival

SECTION II. AIR-CONDITIONING AND HEATING APPLICATIONS—SPECIAL AND PROCESS

Chapter
13. Industrial Air Conditioning
14. Enclosed Vehicular Facilities
15. Laboratories
16. Engine Test Facilities
17. Clean Spaces
18. Computer Areas
19. Printing Plants
20. Textile Processing
21. Photographic Materials
22. Environmental Control for Animals and Plants
23. Drying and Storing Farm Crops
24. Air Conditioning of Wood Products Facilities

SECTION III. FOOD REFRIGERATION

Chapter
25. Commercial Freezing Methods
26. Microbiology of Foods
27. Methods of Precooling Fruits and Vegetables
28. Meat Products
29. Poultry Products
30. Fishery Products
31. Dairy Products
32. Deciduous Tree and Vine Fruits
33. Citrus Fruits, Bananas, and Subtropical Fruits
34. Vegetables
35. Fruit Juice Concentrates
36. Precooked and Prepared Foods
37. Bakery Products
38. Candies, Nuts, Dried Fruits, and Vegetables
39. Beverage Processes
40. Eggs and Egg Products
41. Refrigerated Warehouse Design
42. Commodity Storage Requirements
43. Supplements to Refrigeration

SECTION IV. DISTRIBUTION OF CHILLED AND FROZEN FOOD

Chapter
44. Trucks, Trailers, and Containers
45. Railroad Refrigerator Cars
46. Marine Refrigeration
47. Air Transport
48. Retail Food Store Refrigeration

SECTION V. LOW TEMPERATURE APPLICATIONS

Chapter
49. Environmental Test Equipment
50. Cryogenics
51. Space Simulators and Cryopumping
52. Low Temperature Metallurgy
53. Biomedical Applications

SECTION VI. INDUSTRIAL APPLICATIONS OF REFRIGERATION

Chapter
54. Ice Manufacture
55. Ice Rinks
56. Concrete Dams, Subsurface Soils, and Foundations
57. Refrigeration in the Chemical Industry

SECTION VII. GENERAL

Chapter
58. Solar Energy Utilization for Heating and Cooling
59. Computer Applications
60. Codes and Standards
61. Units and Conversion Factors

CONTENTS—1977 FUNDAMENTALS VOLUME

SECTION I. THEORY

Chapter
1. Thermodynamics and Refrigeration Cycles
2. Heat Transfer
3. Mass Transfer
4. Fluid Flow
5. Psychrometrics
6. Psychrometric Tables
7. Sound Control Fundamentals

SECTION II. GENERAL ENGINEERING DATA

Chapter
8. Physiological Principles, Comfort and Health
9. Environmental Control for Animals and Plants—Physiological Considerations
10. Physiological Factors in Drying and Storing Farm Crops
11. Air Contaminants
12. Odors
13. Measurement and Instruments

SECTION III. BASIC MATERIALS

Chapter
14. Combustion and Fuels
15. Refrigerants
16. Refrigerant Tables and Charts
17. Secondary Coolants (Brines)
18. Sorbents and Desiccants
19. Thermal Insulation and Water Vapor Barriers
20. Moisture in Building Construction

SECTION IV. LOAD CALCULATIONS

Chapter
21. Infiltration and Ventilation
22. Design Heat Transmission Coefficients
23. Weather Data and Design Considerations
24. Heating Load
25. Air-Conditioning Cooling Load
26. Fenestration
27. Refrigeration Load
28. Cooling and Freezing Times of Foods
29. Thermal Properties of Foods

SECTION V. DUCT AND PIPE SIZING

Chapter
30. Space Air Diffusion
31. Air Duct Design
32. Pipe Sizing

SECTION VI. GENERAL

Chapter
33. Terminology
34. Abbreviations and Symbols
35. Units and Conversion Tables
36. Codes and Standards
37. Physical Properties of Materials

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CONTENTS—1981 FUNDAMENTALS VOLUME

SECTION I. THEORY

Chapter
1. Thermodynamics and Refrigeration Cycles
2. Heat Transfer
3. Mass Transfer
4. Fluid Flow
5. Psychrometrics
6. Psychrometric Tables
7. Sound and Vibration Control Fundamentals

SECTION II. GENERAL ENGINEERING DATA

Chapter
8. Physiological Principles, Comfort, and Health
9. Environmental Control for Animals and Plants—Physiological Considerations
10. Physiological Factors in Drying and Storing Farm Crops
11. Air Contaminants
12. Odors
13. Measurement and Instruments
14. Air Flow around Buildings

SECTION III. BASIC MATERIALS

Chapter
15. Combustion and Fuels
16. Refrigerants
17. Refrigerant Tables and Charts
18. Secondary Coolants (Brines)
19. Sorbents and Desiccants
20. Thermal Insulation and Water Vapor Retarders
21. Moisture in Building Construction

SECTION IV. LOAD AND ENERGY CALCULATIONS

Chapter
22. Ventilation and Infiltration
23. Design Heat Transmission Coefficients
24. Weather Data and Design Considerations
25. Heating Load
26. Air-Conditioning Cooling Load
27. Fenestration
28. Energy Estimating Methods
29. Refrigeration Load
30. Cooling and Freezing Times of Foods
31. Thermal Properties of Foods

SECTION V. DUCT AND PIPE SIZING

Chapter
32. Space Air Diffusion
33. Duct Design
34. Pipe Sizing

SECTION VI. GENERAL

Chapter
35. Terminology
36. Abbreviations and Symbols
37. Units and Conversion Tables
38. Codes and Standards
39. Physical Properties of Materials

CONTENTS—1978 APPLICATIONS VOLUME

SECTION I. AIR-CONDITIONING AND HEATING APPLICATIONS—COMFORT

Chapter
1. Residences
2. Stores and Shopping Centers
3. Commercial and Public Buildings
4. Places of Assembly
5. Domiciliary Facilities
6. Educational Facilities
7. Health Facilities
8. Surface Transportation
9. Aircraft
10. Ships
11. Spacecraft Life Support Systems
12. Environmental Control for Survival

SECTION II. AIR-CONDITIONING AND HEATING APPLICATIONS—SPECIAL AND PROCESS

Chapter
13. Industrial Air Conditioning
14. Enclosed Vehicular Facilities
15. Laboratories
16. Engine Test Facilities
17. Clean Spaces
18. Computer Areas
19. Printing Plants
20. Textile Processing
21. Photographic Materials
22. Environmental Control for Animals and Plants
23. Drying and Storing Farm Crops
24. Air Conditioning of Wood Products Facilities

SECTION III. FOOD REFRIGERATION

Chapter
25. Commercial Freezing Methods
26. Microbiology of Foods
27. Methods of Precooling Fruits and Vegetables
28. Meat Products
29. Poultry Products
30. Fishery Products
31. Dairy Products
32. Deciduous Tree and Vine Fruits
33. Citrus Fruits, Bananas, and Subtropical Fruits
34. Vegetables
35. Fruit Juice Concentrates
36. Precooked and Prepared Foods
37. Bakery Products
38. Candies, Nuts, Dried Fruits, and Vegetables
39. Beverage Processes
40. Eggs and Egg Products
41. Refrigerated Warehouse Design
42. Commodity Storage Requirements
43. Supplements to Refrigeration

SECTION IV. DISTRIBUTION OF CHILLED AND FROZEN FOOD

Chapter
44. Trucks, Trailers, and Containers
45. Railroad Refrigerator Cars
46. Marine Refrigeration
47. Air Transport
48. Retail Food Store Refrigeration

SECTION V. LOW TEMPERATURE APPLICATIONS

Chapter
49. Environmental Test Equipment
50. Cryogenics
51. Space Simulators and Cryopumping
52. Low Temperature Metallurgy
53. Biomedical Applications

SECTION VI. INDUSTRIAL APPLICATIONS OF REFRIGERATION

Chapter
54. Ice Manufacture
55. Ice Rinks
56. Concrete Dams, Subsurface Soils, and Foundations
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SECTION VII. GENERAL

Chapter
58. Solar Energy Utilization for Heating and Cooling
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Appendix 18

1971, April – ASHRAE Golden Gavel Award Plus History

CHAPTERS REGIONAL CONFERENCE, REGION VIII
San Antonio, Texas April 22-24, 1971

The Golden Gavel has once again returned to the Central Oklahoma Chapter! Chapter President Louis Nettleship received the symbol of chapter excellence from Past Regional Chairman Bill Collins at the Saturday noon luncheon of the Region VIII Chapters Regional Conference at the Hilton Palacio Del Rio Hotel, San Antonio, Texas. In making the presentation, Bill Collins advised the over 200 people in attendance that, for the first time in the four-year history of the Golden Gavel, a chapter had achieved a perfect rating in competition for the award.

Eighteen members of the Central Oklahoma Chapter, a number of whom were accompanied by their wives, attended the April 22-24 conference, and were treated to outstanding activities arranged for by the host Alamo Chapter.

For some unexplainable reason a golf team (?) representing the chapter went down a day early to compete in the golf tournament. Fortunately, the outcome of that tournament was not considered in the Golden Gavel rating - it is rumored that our team came in two places behind the officers' wives team of the local chapter. However, it was reported that our team did come in first in the category of beer consumption.

Morris Backer, Regional Chairman from Houston, ably conducted the conference with Dr. Stanley F. Gilman, Society President-Elect, and Walter F. Spiegel, Society Vice President in attendance. Officers from six other Regions were also present as guest observers to note how a regional conference in the Society's best region is run.

* *

ATTENDANCE AWARD

The November issue of the Sou'Wester carried an article setting out a Board of Governors' policy to award an ASHRAE lapel pin to any member attending seven of our regular chapter meetings, or five of our regular chapter meetings plus the joint meeting with the Northeastern Oklahoma Chapter at Tulsa.

If you are one meeting away from earning the lapel pin, be sure to attend the May Chapter Meeting.

Regardless of what your status is in this respect, we still urge you to attend the meeting.

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HISTORY OF THE REGION VIII "GOLDEN GAVEL AWARD"

Presentation of the ASHRAE Region VIII Golden Gavel Award to a Region VIII chapter during the CRC Awards Luncheon Saturday May 2, 1987, in Tulsa, Oklahoma, marked the 20th presentation of the award that has been such a great incentive to Region VIII chapters. As the forerunner of the Presidential Award of Excellence (PAOE), the Golden Gavel has caused our entire Society to reach new heights of accomplishment and influence.

During the ASHRAE Winter Meeting in Columbus in 1968, William J. Collins, Jr., of Oklahoma City, past Regional Chairman, George H Meffert of Dallas and Jack W. Thompson, then regional chairman of Dallas, had lengthy discussions about ways of stimulating chapter activities in Region VIII. From these discussions evolved the idea of the Golden Gavel Award, to be presented each year to the Region VIII chapter that excelled in chapter activities. Collins and Thompson formulated the award criteria, which have been revised as areas of interest have been increased, and the first presentation was made to the Central Oklahoma Chapter in April, 1968 at the CRC meeting in Ft. Worth, Texas. The presentation was made to the chapter president, Lewis E. Wickline, and consisted of a Golden Gavel lapel pin for the president, an emblematic patch for the Chapter Awards Banner, and a Golden Gavel for the chapter to use during the coming year. For the president's lapel pin, Mr. Collins had taken a Chapter Past President's diamond pin to a local jeweler and had them affix a minature gavel of gold to the bottom of the pin. For the chapter gavel he had purchased a golden gavel on which was inscribed the ASHRAE insignia and Region VIII. This gavel is passed from chapter to the next winning chapter each year. The Golden Gavel lapel pin given to the winning president each year is a much coveted reward for his efforts as chapter's leader.

The Golden Gavel Committee that judges the winner each year is appointed by the Regional Chairman at the beginning of the fiscal year and consists of Presidential Member, William J. Collins, Jr., as the permanent chairman, two Region VIII past chairmen, and two Region VIII past chapter presidents. No two committeemen may be from the same chapter. The committee meets in the Region VIII CRC at the end of each fiscal year, the day before the Awards Luncheon. The results of the judge's decision is kept secret until the award is made in the Awards Luncheon by Mr. Collins. Currently, the judging is based on twelve items: Percent chapter membership attendance to CRC as related to distance traveled; chapter report to CRC; membership activity; research promotion activity; percent attendance in chapter meetings; education committee activity; energy conservation; chapter programs; chapter roster quality and content; newsletter quality; chapter projects; and regional chairman's evaluation of all chapter activities.

After the first Golden Gavel award was made at Fort Worth CRC, the competitive spirit of all Region VIII chapters gained momentum rapidly and gains in chapter activites set new Society Records.

At the Region VIII CRC held in Houston, Texas, April 1970, Society President-Elect Frank Bridgers was so impressed by the effect of the Golden Gavel competition among the Region VIII chapters that he conceived the idea of the "Presidental Award of Excellence" that has meant so much to the accomplishments of our society. In January of 1971, President Bridgers announced his "Award of Excellence" for any chapter achieving a 10% increase in membership, a 10% increase in chapter meeting attendance, and business contributions to ASHRAE Reaserch Fund equivalent to $10 per chapter member. The following year, incoming Society President Dr. Stanley Gilman followed the concept with his "Award of Excellence" requiring a minimum of 1000 points for efforts

expended in membership and attendance increase, Research Promotion contributions, and regular meeting attendance. Each succeeding year since then, the new Society President has set up his own personal requirements formulae for achieving the Presidential Award of Excellence by each Society chapter. Currently, in the fiscal year 1986-87, President Kohloss had his PAOE set up on six categories of membership growth, meeting attendance, research promotion, CRC attendance, edcational activities, and energy management activities, and there are now five types of PAOE chapter awards - regular, Honor Roll, Premier, Star Award, and Special Citation.

All this began with the Region VIII Golden Gavel many years ago, an award which helped to establish and maintain Regions VIII's position of leadership in ASHRAE, and caused other regions to emulate the award.

Following is a list of chapter and chapter presidents that have received this famed Golden Gavel Award during the twenty years of its existence:

1968	Lewis L. Wickline	CO
1969	R. L. Sieve	Shreve
1970	Harry H. Rountree	CO
1971	Louis C. Nettleship	CO
1972	John J. Pate	Ark
1973	J. A. Beach	Houst
1974	Edgar E. K. Riddick, Jr.	Ark
1975	Joe Romina	Ft. W
1976	W. O. Kelly, III	Ft. W
1977	Bill B. Ferguson	CO
1978	B. J. Vermillion	CO
1979	Bob Allwein	CO
1980	D. W. Gipson	Ft. W.
1981	Charles C. Wedemeyer	Ft. W.
1982	Mike M. Beda	CO
1983	Wayne C. Smith	CO
1984	Tino F. Mendez &	CO
	L. R. Klein, Jr.	Ft. W.
1985	Larry Bloomquist	Aust.
1986	Chick C. Morse &	Tulsa
	Noel N. Robertson	Aust.
1987	Richard F. Vermillion	CO

* * * * *

1987-88 ROSTER INFORMATION

Please tear-off and return the enclosed 1987-88 ASHRAE Roster Information Form to John Harrod at O. G. & E. We ask that you enter your name and return the form even if your listing has not changed. Remember that if you should change any of your pertinent data during the summer months, call and make the change with John Harrod at 272-3733.

987-88 ASHRAE ROSTER INFORMATION

Please complete the following form for the 1987-88 Roster printing and mail to: John Harrod, klahoma Gas & Electric, P.O. Box 321, MC 541, Oklahoma City, OK 73101. Please return form t once. No later than July 1, 1987.

AME_____(Please fill in even if no other changes are made)

HECK ONE:
___ SAME LIST AS LAST YEAR
___ WANT TO CHANGE LISTING (If changes complete form below, PRINT OR TYPE)

AME_____ SPOUSE'S NAME_____

ompany_____ Title_____

ompany Address_____ Zip_____ Phone_____

ome Address_____ Zip_____ Phone_____

Region VIII
Golden Gavel Award

Wick - These are my notes.
Bill

Established –
To stimulate competition between chapters in Region VIII toward the improvement of all chapter functions — to raise the Chapter efficiency rating, as it were, and to further the objects of, and interest in, ASHRAE.

Four judges - ~~Dist~~ Regional Chairman is key man
Criteria established so that size of Chapter is immaterial. ?

1. Chapters Regional Conference Activities
   a. Attendance of Member & Alternate
   b. Attendance of other Chapter Members (Man-Mile Basis)
   c. Chapter report evaluation

2. Cooperation with Society Programs of National concern
   a. Education Committee
   b. Technical Committee
   c. Membership Committee
   d. National Meeting Attendance

3. Chapter functions
   a. Newsletter
   b. Meeting attendance
   c. Minutes - quality & response
   d. Speaker rating
   e. Correspondence response
   f. RC evaluation of B/G meeting
   g. RC " " Chapter meeting
   h. RC " " Chapter president
   i. Chapter projects (scholarships, etc.)
   j. Protocol for visitors

CHGSTBD
BOARD OF GOV.

Appendix 19

1974, April 10 – Scathing Letter to Hugh McMillan Jr. on Arkansas ASHRAE Chapter

B & N

Cy for Bud Miller

Bradford & Nettleship, Inc.

WHOLESALERS AND DISTRIBUTORS — AIR CONDITIONING — REFRIGERATION — POWER TRANSMISSION EQUIPMENT — PARTS — SUPPLIES

P. O. BOX 12468 — 2130 N. W. 40th STREET — (405) 232-3494 — OKLAHOMA CITY, OKLA. 73112

April 10, 1974

Mr. Hugh D. McMillan, Jr.
ASHRAE Director and Region VIII Chairman,
c/o McMillan Equipment Company,
P. O. Box 13193,
Houston, Texas. 77019.

Dear Hugh:

Supplementing my letter of April 8, want you to know that my feelings of anger and criticism have changed to concern for the Arkansas Chapter. I have spent quite a bit of time the last two days analyzing the last two annual reports of the Arkansas Chapter, and it is very revealing. It leaves me with the feeling that they are committing suicide because of pride. Pride is a great motivating force and a wonderful virtue if held within basic boundaries of humility, but it can also turn into a destructive force.

First, let's look at their attendance figures given in their annual report. In the delegates meeting last week they boasted of a 37% increase in attendance. In obtaining this figure they included the Joint Engineers Meeting in Little Rock in February, where the attendance was 512. The program of this meeting included in their annual report shows that it was sponsored by ASPE and was not an ASHRAE meeting, but a meeting of all engineering socities. If Houston, Dallas, or any chapter counted the Joint Engineers Meeting attendance in their city for their February attendance, every chapter would show a tremendous attendance increase. And "Attendance" is one of the high points of score in our Golden Gavel judging. If we look at the attendance at Arkansas' regular meetings this year we find an average attendance of 70, which is an 11% decline from the average attendance of their previous years reguler meetings.

Second, if one looks at the copy of their March monthly newsletter included in their annual report this year, you will find a small article that appears on Page 2, that reads:

> "Remember -- The membership approved a $5 assessment per member at the January meeting to pay off the 1973 Research Fund note, so please mail your money to ------".

Apparently the chapter borrowed money on a note to back up their high figure given in the Lubbock meeting so they could maintain their No. 1 image.

I notice in their last year's report given at Lubbock they included

several letters from important people in Arkansas congratulating them on being named the greatest chapter of the Society, internationally. Apparently they need to keep on feeding the monster "pride" that their leaders have created. The thing that concerns me is that a chapter that assesses its members to pay off notes on borrowed money, and counts a Joints Engineering Meeting as one of their own meetings, in order to keep from falling off the pedestal, is headed for trouble. Sooner or later its going to catch up with them. I know we would lose a number of our members if we hit them with an assessment because they simply are unable to afford it.

Competition is stimulating and has made Region VIII what it is today but I don't feel it wise to carry it to the point that the chapter loses members and attendance because of it, and I'm afraid this is what is going to happen to Arkansas if they don't settle back to realistic accomplishments. If it is absolutely necessary that their ego be fed, then I'm in favor of giving them the #1 title every year without the destruction of the integrity of their chapter.

I would hope that ourmembers listed below that are receiving a copy of this will keep it to themselves. If officers of other chapters in our region were to find out what is going on there would be plenty of confusion, to say the least. Their delegates of course have copies of the annual reports, but I rather doubt that they will take the time to analyze them. Actually, I'm sorry I did.

Cordially yours,

Louis C. Nettleship

LCN:BM

cc/Clint D. Miller
Robert E. Estep
Richard R. Ellis
W. R. Johnson
Harry E. Rountree

Appendix 20

1986, October 03 – Personal Letter to Bruce Nettleship

SaturdagyOctober 3, 1986

Dear Bruce:

Thanks for your telephone call this morning offering to go with me to New York in January. That you would pffer toddo that for me means a lot more to me than the Award I'd be going to get.

There is no way I would put you and me thru the ordeal of that train trip. I've made that trip a number of times going to ASHRAE meetings in the east. The last time was to Atlantic City, and I swore I'd never go by train again. For a trip that long one has to carry a big suitcase from train to waiting room, from waiting room to train, etc., plus lifting it inumerable times in the train to get things out of it. Then waiting hours to get on a connecting train. The bedroom on the train is so small you can't make a move without a contortion of the body of some kind, and you have to turn sideways to get in the bathroom door. I remember Bob Vermillion standing outside his train bathroom, trying to hit the toilet. The last trip to Atlantic City the service and pleasantries were in no way comparable to the trains of the 50s and 60s. On a trip that long, you can't take a shower or bath for more than 2 days. Its downright miserable. Driving would be a lot easier except for snow and ice up there in January, plus I wouldn't want to drive in New York City. During WW II I was in NYC quite often working with the Navy and spent a lot of time on the subway. But it was safe in those days.

So, like I say, I just don't want to make the trip. I'm not out of the woods here yet. I keep hearing rumors that Vermillion has already made reservations for me and Bill Collins is probably mad at me. I'm going to a Board of Governors meeting this coming Monday and expect to catch a lot of flac there because I "wpont go tpo New York. My friend Bill Collins, who was national ASHRAE President a few years ago, placed my name in nomination for Fellow a couple of years ago. Such a nomination takes a long time toipass thru various committees and the Board of Directors. I told him at the time that he shouldn't do it because I probably wouldn't even be around when and if I ever got it. But he insisted. The fact is that with the notice I received, I'm already a Fellow. The presentation is only a formality, and they'll mail a certificate to me if I don't attend the ceremony. I've already received more awards from ASHRAE than one man ought to get. Maybe the local chapter will have a presentation ceremony for me. That would actually mean more to me than one in NYC.

I retired so I could smell the flowers, and there sure aren't any in NYC. Since I retired I've developed a very bad case of ergophobia (fear of work).

Wanted to write you all this in a letter after getting my thoughts together and realized it would take too long on the phone. If for some as yet undetermined reason I do have toimake the trip I surely would appreciate you going along. Your company would mean a lot to me. A son like you makes life worth living.

All my love,

COPY

Appendix 21

1986, October 06 – COK BOG Minutes, Fellow Award Announcement

CENTRAL OKLAHOMA CHAPTER - ASHRAE

MINUTES

BOARD OF GOVERNORS' MEETING

OCTOBER 6, 1986

The meeting was called to order at 12:15 p.m. by President Vermillion at the Holiday Inn Northwest, Oklahoma City, Oklahoma.

The following were present:

Mike Beda	Joe Handley	B. H. Prasad
Bob Brandenburg	John Harrod	Harry Rountree
Carolyn Crawford	Jim Kersey	Rod Rutherford
Charles Crews	Dave Lierz	Bud Saunkeah
Chuck Darr	Mike Lodes	Harry Schwartz
Rick Ellis	Alan Loeffler	Wayne Smith
Fred Erdman	Tino Mendez	Bob Vermillion
Bill Ferguson	Bob Merriman	Rick Vermillion
Diana Grundmann	Louis Nettleship	Lewis Wickline
Bob Haddican		Greg Wickline

The minutes of the September meeting were read by Diana Grundmann, approved on a motion by Joe Handley, seconded by Bob Haddican.

The Treasurer's report was read by Treasurer Charlie Crews, approved on a motion by Mike Lodes, seconded by Wayne Smith.

President Vermillion reported that Regional Chairman Damon Gowan will attend the October chapter meeting. A special Board of Governors' meeting will be held at 4:00 p.m. in the La Fiesta rooms on that day. He also reported that he has most of the committee reports required for the visit.

President Kohloss' videotape "Develop Our Human Resources" was shown. Rick Vermillion will ask Damon Gowan if he wants it to be shown at the October chapter meeting. If not, it will be shown in November.

The Regional Vice-Chairman of Membership has forwarded an application for the Lincoln Boullion Award. No application will be submitted.

President Vermillion remanded to the Past Presidents' Council to recommend a replacement for Chuck Callahan as alternate to CRC.

Committee reports were as follows:

Attendance - Bud Saunkeah reported he is ready to call. He has reviewed attendance records from last year and earmarked some members for special attention.

Devotional - Alan Loeffler reported Charles Hayes will give the devotion.

Education - B. H. Prasad will be pushing education this year.

Energy Management - Chuck Darr is looking for energy management papers.

Membership - President Vermillion reported for Bill Ferguson, Jr. that two applications have been sent and four more are working.

Governmental Affairs - Bob Brandenburg reported a new committee is studying long range capital improvement planning.

Program - Rick Ellis reported the speaker will be Bruce Olseth on "HVAC and H" talking about humidity.

Publicity - Harry Schwartz reported he is ready to get it out.

Reception - Rick Vermillion showed dots that will be put on new member badges for identification.

Research Promotion - Bob Haddican reported there will be a workshop in Dallas on October 18, and he is planning to attend. The chapter's research goals currently meet most of the regional and national goals.

Roster - John Harrod reported that it is being printed and should be mailed this week. President Vermillion expressed his appreciation of the committee.

Sou'wester - Greg Wickline reported a new format and requested continued help in filling the newsletter. October 22 is the next deadline.

Special Events - Rod Rutherford reported the golf tournament will be held October 20. The Casino Party will be November 14 at the Sportsman Club. Tickets will be available at the October and November chapter meetings.

Technical - Dave Lierz reported that the speaker will be Bill Near with "A Discussion of Boiler Design."

Harry Rountree requested input on the questionnaire in the last issue of "Insights" on a pocket handbook.

Louis Nettleship has been named a Fellow of the Society which will be awarded at the Winter meeting.

President Vermillion reminded the Board of new chapter meeting times.

The meeting was adjourned at 12:55 p.m.

Respectfully submitted,

Diana Grundmann

DIANA GRUNDMANN
Secretary

Appendix 22

1995, March 10 – ASHRAE Distinguished 50-Year Member Award

ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 ☎ 404-636-8400 • Fax 404-321-5478

Frank M. Coda
Executive Director-Secretary

March 10, 1995

Mr. Louis C. Nettleship
11014 N. May Ave., Apt 127
Oklahoma City, OK 73120-6308

SUBJECT: DISTINGUISHED FIFTY-YEAR MEMBER AWARD

Dear Mr. Nettleship:

ASHRAE is proud of all its members, but especially proud of our Distinguished Fifty-Year Members. Although we have many members in the fifty-year category, only a few are selected for special recognition. I am pleased to say that you have been selected as one of the newest members of this honored group.

Presentation will take place at the Society's Annual Meeting in San Diego, California, during the Plenary Session on Saturday, June 24, 1995, in the Marina Ballroom (sections D/E) of the San Diego Marriott. An awards photo session is also scheduled on the 24th at 1:45 p.m. in the Marina Ballroom. Photographs will be taken and prints will be made available for your personal use. It is very important that you arrive promptly at 1:45 p.m. as time is limited.

Special seating arrangements have been made for award recipients at stage level in the Marina Ballroom. This area will be stanchioned and have name cards to assist you in finding your assigned seat. Several rows immediately behind this area will be reserved for spouses.

Please complete and return the enclosed form with regard to publicity and attendance information by March 31 -- a stamped, self-addressed envelope is included for this purpose. Information concerning the meeting, including hotel accommodations and a pre-registration form, is enclosed. Please return your pre-registration form at the same time if you plan to attend the meeting. You may make your hotel reservations by calling the San Diego Marriott at (619)234-1500 (rates are $140.00 city view; $154.00 bay view). The overflow hotel is the Clarion, which is within walking distance. Rates are $90.00 single or double and reservations may be made by calling (619)696-0234 or (800)766-0234.

A special invitation to President Manning's Hospitality Suite will be extended to you on Sunday evening, June 25, from 9:30 - 11:00 p.m. Details will be forwarded to you at a later date.

Please accept my personal congratulations. I look forward to seeing you in San Diego.

Sincerely,

Frank M. Coda

FMC/tes

Enclosures

cc: Stephen B. Pickle, President, Central Oklahoma Chapter
Jack F. Roberts, Director & Chairman, Region VIII

ASHRAE 1995 ANNUAL MEETING, SAN DIEGO, CA, JUNE 24-28

REGISTRATION FORM—Register by May 19 and SAVE! You can register for the technical meeting or for the "package" that includes the welcome party, president's luncheon, and banquet. **If you cannot mail in your meeting registration by May 19, then wait and register for the meeting at the Marriott Hotel & Marina.**

Last Name _____ First _____ Initial _____

☐ MEMBER #: _____
(Member # must be supplied to receive member pricing

Nickname (for badge) _____ Phone Number _____ FAX Number _____

Company Name _____

☐ NON-MEMBER

Mailing Address _____

☐ FIRST TIME MEETING ATTENDEE

City _____ State/Province/Country _____ Zip/Postal Code _____

☐ If you have a disability which requires special assistance, please attach a description of your requirements with your registration form to enable us to make appropriate arrangements.

☛ IF FORM CANNOT BE MAILED BY MAY 19, REGISTER ON-SITE. ☚

ADVANCE REGISTRATION FEES: REGISTER BY May 19
(registration must be mailed by May 19; ***register on-site if May 19 deadline cannot be met)***

MEETING REGISTRATION ONLY: †
(By May 19—includes attendance at the technical program)

ADVANCE PACKAGE REGISTRATION: ††
(By May 19—includes attendance at the technical program, welcome party, president's luncheon, and banquet)

†MEETING REGISTRATION	††PACKAGE REGISTRATION		
☐ $150 ($195)*	☐ $255	3	MEMBER
☐ $195 ($255)*	☐ $300	4	NON-MEMBER
☐ $30	☐ $150	5	SPOUSE _____ name for badge
☐ $15	☐ $135	6	FULL-TIME STUDENT (non-member) _____ name of school
☐ $0	☐ $120	60	SPEAKER/SESSION CHAIRMAN
☐ $0	☐ $120	61	LIFE MEMBER
☐ $0	☐ $120	62	ASHRAE STUDENT MEMBER _____ name of school
☐ $0	☐ $120	64	SAN DIEGO HOST COMMITTEE
☐ $0	☐ $120	65	PRESS

(Non-members may apply the difference between member and non-member registration fee to the membership application fee of $85 if a copy of the meeting registration receipt is submitted within 60 days of the meeting)

SOCIAL EVENTS	QTY.	BY MAY 19	TOTAL	ON-SITE
Saturday, June 24				
20 Welcome Party 7:00pm	____	@$52	____	($55)*
Monday, June 26				
21 President's Luncheon 12:30pm	____	@$25	____	($27)*
Tuesday, June 27				
22 Banquet 6:30pm	____	@$50	____	($52)*
23 Life Members' Luncheon 12noon	____	@$23	____	($23)*
TOURS (limited space per tour)				
Sunday, June 25				
25 Tijuana/Cultural Ctr.	____	@$43	____	($45)*
Monday, June 26				
26 San Diego Zoo 8:30am	____	@$33	____	($35)*
27 Sea World 2:30 pm	____	@$43	____	($45)*
28 Gaslamp District 2:30 pm	____	@$ 9	____	($11)*
Tuesday, June 27				
29 Coronado 8:30am	____	@$21	____	($23)*
30 Stephen Birch Aquarium 9:00am	____	@$53	____	($55)*
31 Harbor Excursion 1:30pm	____	@$24	____	($26)
TECHNICAL TOURS (limited space per tour)				
Monday, June 26				
32 Sea World 2:15pm	____	@$20	____	($22)*
33 UCSD Central Plant	____	@20	____	($22)*
Tuesday, June 27				
34 UCSD Central Plant	____	@$20	____	($22)*
35 **TRANSACTIONS** (available January 1996)	____	@$98	____	($98)*

*on-site registration fee—payable in San Diego at ASHRAE registration desk

GRAND TOTAL $_____ payment must accompany registration form (registration fees, social events, tours, transactions)—If form *and* payment are not mailed by May 19, then wait and register on site.

METHOD OF PAYMENT: ☐ CHECK ENCLOSED—(Payable to **ASHRAE/SAN DIEGO '95**) U.S. FUNDS ONLY

☐ CHARGE $_____ ☐ VISA ☐ MasterCard ☐ AMEX ☐ Diners Club

CARD NO. _____ EXP. DATE _____ SIGNATURE _____

Send registration form and payment to: Meetings Section, ASHRAE, 1791 Tullie Circle, NE, Atlanta, GA 30329. Phone 404/636-8400. FAX 404/321-5478. **Payment must be sent with registration—do not send separately.** MAIL BY May 19, 1995. Registration accepted on-site if May 19 deadline cannot be met.

Advance Registration Packets can be picked up at the ASHRAE Registration Desk. **REFUND POLICY:** All substitutions, cancellations and refund requests must be in writing and are subject to the following: Full refund will be granted prior to June 16. After June 16 all refunds are subject to a $30 processing fee. Registrants who fail to attend or contact ASHRAE prior to the close of business June 16 are liable for the entire fee. All approved refunds will be processed through Atlanta within four weeks after the meeting.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

TO: Louis C. Nettleship
FROM: Anthony Giometti
SUBJECT: ASHRAE Honors and Awards Program
Distinguished Fifty-Year Member
DATE: March 10, 1995

As part of the ceremonies to honor ASHRAE's Honors and Awards recipients, the Society will create an audio-visual program to complement the awards presentation during the 1995 ASHRAE Annual Meeting Plenary session. It will take place Saturday, June 24 beginning at 3:30 p.m. in San Diego at the San Diego Marriott and Marina hotel.

To assure a quality presentation, I request you send:

1. A slide or color photo of a head and shoulders portrait of yourself.
2. Color slides or photos of you in an office or work environment.
3. Color slides or photos of yourself participating in a chapter or Society-related activity. If slides or photos are not available, you may wish to send other materials which depict results of your service to the Society. We can make slides from these.
4. Additionally, please send a black and white head and shoulders photo for use in ASHRAE Insights.

We would like to receive at least five color photos or slides covering the above, but you may send more materials if you wish. We will make a selection from these materials to make up a presentation on your service to the Society.

At the meeting there will be a photography session with President Billy R. Manning, Saturday, June 24 from 1:45 to 2:30 p.m. in the San Diego Marriott and Marina hotel. Program details, which describe the photography session details and room location and the plenary activities, will be sent to you at a later date.

Please call if you have any questions about the visual requirements or the deadline.

When mailing the materials, please enclose them in cardboard to protect them during shipping. All materials will be returned to you after the meeting.

We will need these materials by March 31, 1995.

Please send the materials to:

Anthony Giometti
ASHRAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329
Telephone: 404-636-8400
Fax: 404-321-5478

Thank you very much for your cooperation. I look forward to seeing you in San Diego.

Appendix 23

1995, June 24 – Press Release on ASHRAE Distinguished 50-Year Member Award

News

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.
1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 • (404) 636-8400 • Telefax (404) 321-5478

For Release:
June 24, 1995

Contact: Anthony Giometti
Public Relations
404/636-8400, ext. 611

Oklahoma City Engineer Receives Distinguished 50-Year Member Award

SAN DIEGO -- Louis C. Nettleship, P.E., ASHRAE Fellow, Life Member, has received a Distinguished 50-Year Member Award from the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE).

ASHRAE, founded in 1894, is an international organization of 50,000 persons. Its sole objective is to advance through research, standards writing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration for the public's benefit.

The award is given to individuals who have been a member of the Society for a minimum of 50 years, and are a past Society president, a Fellow, Distinguished Service Award recipient, or have performed outstanding service to ASHRAE or its predecessor societies -- The American Society of Heating and Ventilating Engineers (ASHVE), The American Society of Refrigerating Engineers (ASRE), and the American Society of Heating and Air-Conditioning Engineers (ASHAE).

Nettleship is an expert in refrigeration systems and cold storage systems. He revised the Refrigeration Loads chapter of the 1981

- more -

ASHRAE Handbook, *Fundamentals*. From 1968-83, he also served on related Society technical committees, including TC 4.1, Load Calculations, TC 10.5, Refrigerated Warehouses, TC 11.1, Meat Products, and TC 11.5, Fruits and Vegetables. Nettleship received a Distinguished Service Award in 1976.

He joined ASRE in 1945 and ASHAE in 1957, and was elevated to the grade of Fellow in 1986.

Nettleship retired in 1985 from A.M.E., Inc. in Oklahoma City, where he still resides.

The award was presented at the 1995 ASHRAE Annual Meeting, June 24 - 28 in San Diego, Calif.

###

Appendix 24

Louis & Elnora Obituaries

Louis Nettleship

Hide Details

Oklahoman, The (Oklahoma City, OK) (Published as The Daily Oklahoman) - July 26, 1995 Browse Issues

Section: *NEWS* ***Page:*** *27* ***Column:*** *DEATHS and FUNERALS* ***Readability:*** *4-5 grade level (Lexile: 820)*

NETTLESHIPLouis passed away July 24, 1995. He was born in Fayetteville, Ar. on Nov. 21, 1912. Louis is survived by his wife of 58 years, Elnora **Nettleship**; his brother, John **Nettleship**; his daughter &

son-in-law, Karen & Bob Hall; his daughter, Ellen Roberts; his son & daughter-in-law, Bruce & Susan **Nettleship**; his 5 grandchildren & 2 step-grandchildren, Jim, Linda, Joe, Char, Jeff, Ryan & Ashley. He was preceded in death by his father & mother, 2 sisters & an infant daughter. Louis was a member of the Classen Blvd. Baptist Church. He attended the University of Arkansas and was a member of the Professional Engineers Society and a lifetime member of ASHRA (American Society of Heating, Refrigeration and Air Conditioning Engineers). He was twice president of his local chapter, received the Distinguished Service Award in 1976, was elevated to the grade of Fellow in 1986, and was recently recognized as a distinguished fifty year member. S ervices will be held at 10:00 a.m. Wednesday at Baggerley-Marler Memorial Chapel with burial at Memorial Park Cemetery. In lieu of flowers, memorials may be made to Classen Blvd. Baptist Church Building Fund.

Index terms: *OBITUARY* ***Record:*** *OKC1918133* ***Copyright:*** *Copyright 1995 Oklahoma Publishing Company*

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DEATHS

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ELNORA NETTLESHIP

Obituary › Condolences

Elnora Nettleship, 99, passed away on Thursday, February 3, 2011, at her home. Funeral Services: 11 AM, Wednesday, at the Richland Hills Baptist Church. Graveside Services: 11 AM, Thursday, at Memorial Park Cemetery, Oklahoma City, OK. Elnora was born on January 2, 1912 in Oklahoma City, OK to the late William and Maggie Rey. She has been a member of Classen Boulevard Baptist Church in Oklahoma City, OK since 1968. Her loving husband of 58 years, Louis C Nettleship, and her daughter Nancy Ann Nettleship, preceded her in death. Survivors: Children, Karen Hall and her husband Bob, Bruce Nettleship and his wife Susan, and Ellen Flood and her husband Mickey; grandchildren, Jim, Linda, Ryan, Ashley, and Jeffrey; great-grandchildren, Caleb, Logan, and Austin.

Published in The Oklahoman on Feb. 9, 2011

REMEMBER

Share memories or express condolences below.

THE GUEST BOOK IS EXPIRED

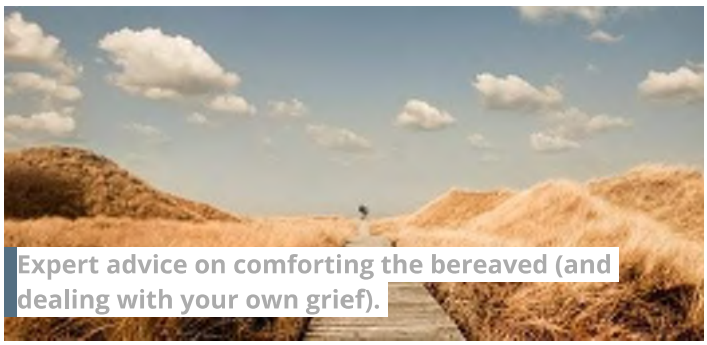
"Sorry very saddened by my sweet Elnora's passing. She was my "sophisticated lady". I cared for her..."

-Pamela Clancy
3 ENTRIES

Please restore the Guest Book to share in the life story for ELNORA NETTLESHIP

RESTORE THE GUEST BOOK

Funeral etiquette and advice



RESOURCES

- Send Funeral Flowers
- Donate to Charity

FIND ADVICE & SUPPORT

- Funeral Etiquette
- How to Write a Sympathy Note

< BACK TO TODAY'S OBITUARIES

YOUR SEARCH HIST
Records for Nettleship in OK
View 1 Birth Records
View 6 Marriage Records
View 1 Ancestry Death Records
Sponsored by
CARmax

We've got your Maz
GET FINANCING INFO

Funeral Etiquett
Expert advi do and say someone d

Appendix 25

Memorial Park Cemetery Information

Louis C. Nettleship

Birth: Nov. 12, 1912
Fayetteville
Washington County
Arkansas, USA
Death: Jul. 24, 1995
Oklahoma, USA



Added by: Cathy & Thomas

Louis was a member of the Classen Blvd Baptist Church. He attended the University of Arkansas and was a member of the Professional Engineers Society and a lifetime member of American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRA). He was twice president of his local Chapter, received the Distinguished Service Award in 1976, was elevated to the grade of Fellow in 1986, and was recently recognized as a distinguished 50 years member.

Louis is survived by his wife of 58 years, Elnora; his brother, John; his daughter & son-in-law, Karen & Bob Hall; his daughter, Ellen Roberts; his son & daughter-in-law, Bruce & Susan; his 5 grandchildren & 2 step-grandchildren. He was preceded in death by his father & mother; 2 sisters, and an infant daughter.

Taken from his obit, which was published in The Daily Oklahoman newspaper. Courtesy of Ms. Clyde, FAG # 46994776.

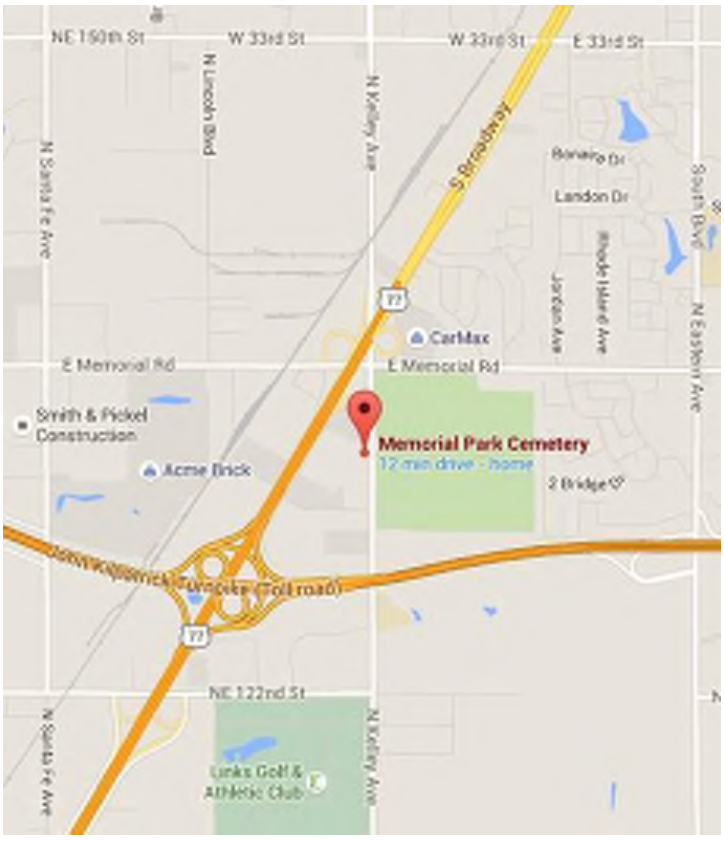


Cemetery Photo
Added by: Jackie

Family links:
Spouse:
Elnora Anna *Rey* Nettleship (1912 - 2011)*

Children:
Nancy Anne Nettleship (____ - 1940)*

*Calculated relationship



Burial:
Memorial Park Cemetery
Oklahoma City
Oklahoma County
Oklahoma, USA

Created by: Cathy & Thomas
Record added: Feb 01, 2010
Find A Grave Memorial# 47432247

Appendix 26

The Razorback (University of Arkansas) Pi Kappa Alpha

PI KAPPA ALPHA

Colors—Garnet and Gold
Flower—Lily of the Valley
78 Active Chapters



CLASS OF '30

ELBRIDGE NEWLAND
JOE WALKER
CHARLES HOLDERBAUM

CLASS OF '31

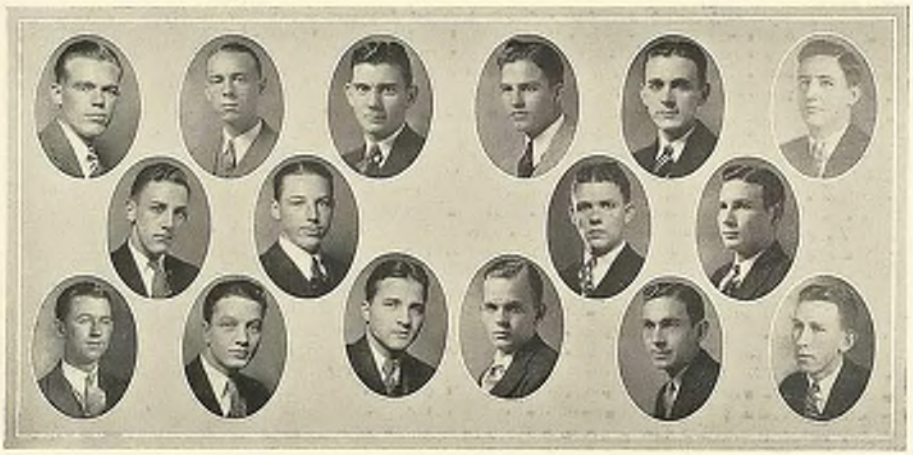
RALPH MCNEIL
BURTON ROBBINS
REX PERKINS
MARTIN HAMILTON
JACK RICHARDSON
WADE LONG
ROBERT BROWN
SANDORD MORROW
FRED RITCHIE
JACK DILLON
MOODY PEARSON
HENRY WARTEN
KENNETH HOLT
JIM T. SIMPSON
FRANK JACKSON

CLASS OF '32

WILLIAM HORTON
JOE REID
NORMAN PAYNE
DEAN MORLEY
W. H. NORSWORTHY
SIMPSON WILBOURN
GRAYDON LEAKE
DAVID TABOR
VIRGIL LYONS
PAUL WEST
HOWARD THOMPSON
WILLIAM STEWART
GEORGE B. EWING
EUGENE MOORE
JOE LUCKETT
GREGORY SIMPSON

CLASS OF '33

WILBURN SNEED
WILLIAM WEST
CLARENCE CHALFANT
LOUIS NETTLESHIP
ARLISS MILBURN
T. C. BULL
MAX LOGAN
OLAF MCMONIGLE
RAY ROBERTS
CHARLES ROLAND
FRANK HOLT
CLIFFORD BARTZ
CHATTEN HAYNES
CHARLES HANSARD
BILL JIM MILUM
WARREN NELSON
JAMES PAYNE



Top row—WALKER, HOLDERBAUM, LEAKE, MCMONIGLE, BULL, LYONS
Middle row—P. WEST, HAYNES, DILLON, MOORE
Bottom row—HAMILTON, PERKINS, PEARSON, NELSON, NEWLAND, RITCHIE

Pi Kappa Alpha

Colors—*Garnet and Gold.* Flower—*Lily of the Valley.*

GRADUATE STUDENTS

Weems Trussell

John Keiser

CLASS OF 1931

Moody Pearson
Wade Long
Joe Walker

Jack Dillon
Kenneth Holt
Fred Ritchie

Henry Warten
Sanford Morrow
Rex Perkins

CLASS OF 1932

Robert Wiseman
Burton Robbins
Lawrence Norman
Dean Morley

J. Norris Moon
William Stewart
Quincey Alexander
John P. Caldwell

Marshall Miller
Norman Payne
Joe Red
Eugene Moore

CLASS OF 1933

Bill Jim Milum
Jim Milburn
Wilson Fisher
Ross Fowler
Louis Nettleship
Chatten Haynes

James L. Sexton
Melvin Barksdale
Clayborne Davidson
Arlis Milburn
Olaf McMonigle

Frank Holt
Carter Williams
Tom Waugh
Charles Hansard
Edwin Dean
Howard Patterson

CLASS OF 1934

Don Milburn
John Stewart
Don Barnett

James Lockhart
Mack Tarpley
Tom Williams

Menard Fisher
C. W. Fairbanks
John Hays Allen



Appendix 27

Census Data

ancestry

1900 CENSUS DATA

All results for Ione Nettleship

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

Your fa
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Start toc

1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

BIRTH: 2 Jun 1879
DEATH: 10 Jun 1966

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Jessie Ione Nettleship
SPOUSE: Shelby Nettleship
BIRTH: 1880 - Kansas, USA
DEATH: 1963

1–8 of 8 Per page 20



1900 United States Federal Census

SEE MORE

NAME:	Ione L Nettleship
AGE:	20
BIRTH DATE:	Jun 1879
BIRTHPLACE:	Arkansas
HOME IN 1900:	Prairie, Washington, Arkansas
RACE:	White
GENDER:	Female
RELATION TO HEAD OF HOUSE:	Daughter
MARITAL STATUS:	Married
SPOUSE'S NAME:	E L Nettleship
MARRIAGE YEAR:	1899
YEARS MARRIED:	1
FATHER'S NAME:	J C Williams
FATHER'S BIRTHPLACE:	South Carolina
MOTHER'S NAME:	S J Williams
MOTHER'S BIRTHPLACE:	West Virginia
MOTHER: NUMBER OF LIVING CHILDREN:	0
MOTHER: HOW MANY CHILDREN:	0

HOUSEHOLD MEMBERS NAME	AGE
J C Williams Senior	55
S J Williams	44
E L Nettleship	28
Ione L Nettleship	20
Ray Williams	19
Edna Williams	18
Frank Sexton	17
Beulah Williams	14
Christopher Williams	8
Ivan Williams	6
Dorothy Williams	3

ancestry

1910 CENSUS DATA

All results for Ione Nettleship

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

RECORDS CATEGORIES

Your family story is waiting to be found – Start today for FREE

START A FREE TRIAL

1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: Jane L **Nettleship**
SPOUSE: Earnest L Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1920 - city, Washington, Arkansas

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione Nettleship**
SPOUSE: Lape Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1930 - city, Washington, Arkansas

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

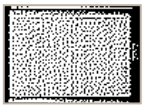
Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

1–8 of 8



1910 United States Federal Census

SEE MORE

NAME: **Ione L Nettleship**
AGE IN 1910: **31**
BIRTH YEAR: **1879**
BIRTHPLACE: **Arkansas**
HOME IN 1910: **Fayetteville Ward 2, Washington, Arkansas**
STREET: **Watson Avenue**
RACE: **White**
GENDER: **Female**
RELATION TO HEAD OF HOUSE: **Wife**
MARITAL STATUS: **Married**
SPOUSE'S NAME: **Ernest L Nettleship**
FATHER'S BIRTHPLACE: **South Carolina**
MOTHER'S BIRTHPLACE: **West Virginia**
NATIVE TONGUE: **English**
ABLE TO READ: **Yes**
ABLE TO WRITE: **Yes**
YEARS MARRIED: **11**
NUMBER OF CHILDREN BORN: **2**
NUMBER OF CHILDREN LIVING: **2**

HOUSEHOLD MEMBERS	NAME	AGE
	Ernest L Nettleship	38
	Ione L Nettleship	31
	Wilma Nettleship	8
	Thelma Nettleship	7

ancestry

All results for Ione Ne

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

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1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

Oklahoma, USA
CIVIL: Oklahoma

Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

NAME: Jessie **Ione Nettleship**
BIRTH: date - location
DEATH: dd mm 1963 - city, Minidoka

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione** L **Nettleship**
SPOUSE: Ernest L Nettleship
BIRTH: abt 1879 - location
RESIDENCE: 1910 - city, Washington, Arkansas

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

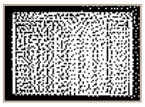
NAME: **Ione** L. **Nettleship**
BIRTH: 2 Jun 1879
DEATH: 10 Jun 1966

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Jessie **Ione Nettleship**
SPOUSE: Shelby Nettleship
BIRTH: 1880 - Kansas, USA
DEATH: 1963

1–8 of 8 Per page 20

1920 CENSUS DATA



1920 United States Federal Census

SEE MORE

NAME: ~~Jane~~ L Nettleship
AGE: 40
BIRTH YEAR: 1880
BIRTHPLACE: Arkansas
HOME IN 1920: Prairie, Washington, Arkansas
STREET: St Charles St
RACE: White
GENDER: Female
RELATION TO HEAD OF HOUSE: Wife
MARITAL STATUS: Married
SPOUSE'S NAME: Earnest L Nettleship
FATHER'S BIRTHPLACE: South Carolina
MOTHER'S BIRTHPLACE: West Virginia
ABLE TO SPEAK ENGLISH: Yes
OCCUPATION: None
ABLE TO READ: Yes
ABLE TO WRITE: Yes

HOUSEHOLD MEMBERS	NAME	AGE
	Earnest L Nettleship	48
	Jane L Nettleship	40
	Wilma Nettleship	18
	Thelma E Nettleship	16
	Louis C Nettleship	7
	John D Nettleship	4

STATE Arkansas
COUNTY Washington
TOWNSHIP OR OTHER DIVISION OF COUNTY Prairie Township
NAME OF INSTITUTION

DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS
FOURTEENTH CENSUS OF THE UNITED STATES: 1920—POPULATION

NAME OF INCORPORATED PLACE Fayetteville City
ENUMERATED BY ME ON THE Ninth DAY OF January 1920. W. N. Headley ENUMERATOR.

SUPERVISOR'S DISTRICT NO. 3
ENUMERATION DISTRICT NO. 142
SHEET NO. 11 A
WARD OF CITY
8401

PLACE OF ABODE	NAME	RELATION	HOME	PERSONAL DESCRIPTION	CITIZENSHIP	EDUCATION	NATIVITY AND MOTHER TONGUE	OCCUPATION	
							PERSON / FATHER / MOTHER		
							Place of birth / Mother tongue		
1	Goldsberry, Mary L	Daughter		W 13 S			Indiana / Indiana	None	
2	" Matilda J	Daughter		W 11 S			Arkansas / Indiana	None	
3	312 321 323 Hodges, Burnett F	Head	O F	M W 48 M			Ohio / Ohio	Lawyer	8701
4	" Dora L	Wife		F W 40 M			Arkansas / South Carolina	West Virginia	
5	" Wilma	Daughter		F W 18 S			Arkansas / Ohio	Arkansas	None
6	" Jackson E	Daughter		F W 16 S			Arkansas / Ohio	Arkansas	None
7	" Jones C	Son		M W 7 S			Arkansas / Ohio	Arkansas	None
8	" John B	Son		M W 4 S			Arkansas / Ohio	Arkansas	None
9	323 322 324 Hobbs, Francis J	Head	O F	F W 71 Wd			Ohio / Pennsylvania / Cleveland England	None	
10	237 323 327 Hodge, Tom	Head	R	M W 30 M			Arkansas / Kansas / Virginia	Carpenter	Rest 9444
11	" Mabel	Wife		F W 23 M			North Dakota / Canada English / Norway Norwegian	Laborer	Restaurant 988
12	Brown, Pete	Brother-in-law		M W 33 M			North Dakota / Canada English / Norway Norwegian	Cook	Restaurant W 9514
13	" Ora	Sister-in-law		F W 18 M			Arkansas / Pennsylvania / Kentucky	None	
14	215 224 231 Young, Washington A	Head	O M	M W 55 M			Tennessee / Tennessee	The Inspector	Railroad W 480
15	" Ella J	Wife		F W 52 M			Ireland / Ireland English / Ireland English	None	
16	" Margaret J	Granddaughter		F W 14 S			Arkansas / Arkansas / Arkansas	None	
17	227 235 237 Kelley, Noah W	Head	O F	M W 49 Wd			Arkansas / Missouri / Arkansas	None	
18	" Walter W	Son		M W 20 S			Arkansas / Missouri / Arkansas	Linotype Operator	Daily Paper W 1750
19	228 232 237 Hall, James D	Head	R	M W 49 M			Missouri / Kansas / Tennessee	Farmer	Farming Home O O 906
20	" Martha P	Wife		M W 52 M			Alabama / Alabama / Alabama	None	
21	McKinley, Mrs	Granddaughter		F W 12 S			Arkansas / Arkansas / Arkansas	None	
22	325 327 341 Brooks, Libby W	Head	O M	M W 37 M			Kentucky / Arkansas / Kentucky	Agent	Oil Co W 910
23	" Eula M	Wife		F W 31 M			Arkansas / Tennessee / Arkansas	None	
24	" Opal M	Daughter		F W 13 S			Arkansas / Arkansas / Arkansas	None	
25	" Hugh E	Son		M W 11 S			Arkansas / Arkansas / Arkansas	None	
26	" Burl D	Son		M W 9 S			Arkansas / Arkansas / Arkansas	None	
27	" Jewell M	Daughter		F W 6 S			Arkansas / Arkansas / Arkansas	None	
28	" Velia C	Son		M W 1 11/12 S			Arkansas / Arkansas / Arkansas	None	
29	228 242 Hanks, Otto K	Head	R	M W 27 M			Arkansas / United States / Arkansas	Operator	Mining Co W 829
30	" Clay A	Wife		F W 24 M			Arkansas / Arkansas / Arkansas	None	
31	" Evaline I	Daughter		F W 6 S			Arkansas / Arkansas / Arkansas	None	
32	188 224 233 McKnight, Zack J	Head	R	M W 48 M			Arkansas / Arkansas / Arkansas	Farmer	Poultry House W 068
33	" Ora M	Wife		F W 30 M			Arkansas / Arkansas / Arkansas	None	
34	" Pearl	Daughter		F W 19 S			Arkansas / Arkansas / Arkansas	Packer	Poultry House W 065
35	" Lily Z	Daughter		F W 17 S			Arkansas / Arkansas / Arkansas	Packer	Poultry House W 064
36	" Myrtle P	Daughter		F W 14 S			Arkansas / Arkansas / Arkansas	Packer	Poultry House W 063
37	" James	Son		M W 8 S			Arkansas / Arkansas / Arkansas	None	
38	" Jack	Son		M W 6 S			Arkansas / Arkansas / Arkansas	None	
39	232 233 244 Barnes, Luther L	Head	R	M W 33 M			Arkansas / Texas / Texas	Foreman Railroad	W 646
40	" Birtie M	Wife		F W 21 M			Texas / Texas / Texas	None	
41	" James A	Son		M W 2 6/12 S			Oklahoma / Arkansas / Texas	None	
42	" Joyce M	Daughter		F W 1 8/12 S			Oklahoma / Texas / Texas	None	
43	229 231 245 Smithers, John	Head	O F	M W 65 M			England / England English / England English / England English	Cobbler Own Shop	O O 5118
44	" Muriel	Wife		F W 44 M			Arkansas / England English / England English / England English	None	
45	" Winfield H	Son		M W 13 S			Arkansas / England English / Arkansas	Soda Clerk Drug Store	W 707
46	" Thomas C	Son		M W 10 S			Arkansas / England English / Arkansas	None	
47	" Ernest			M W 9 S			Arkansas / England English / Arkansas	None	
48	245 253 256 Carpenter, Murray C	Head	R	M W 43 M			Iowa / Ohio / Ohio	Foreman Laundry Plant	W 713
49	246 247 " Elma	Wife		F W 42 M			Iowa / Ohio / Michigan	None	
50	" Edna	Daughter		F W 21 S			Iowa / Iowa / Iowa	None	

Courtesy of Ancestry.com

ancestry

1930 CENSUS DATA

All results for Ione Ne

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

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1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: Ione L Nettleship
SPOUSE: Ernest L Nettleship
BIRTH: abt 1879 - location
RESIDENCE: 1910 - city, Washington, Arkansas

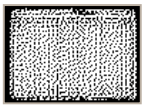
U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Ione L. Nettleship
BIRTH: 2 Jun 1879
DEATH: 10 Jun 1966

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Jessie Ione Nettleship
SPOUSE: Shelby Nettleship
BIRTH: 1880 - Kansas, USA
DEATH: 1963

1–8 of 8 Per page 20



1930 United States Federal Census

SEE MORE

NAME: Ione Nettleship
AGE IN 1930: 50
BIRTH YEAR: 1880
GENDER: Female
RACE: White
BIRTHPLACE: Arkansas
MARITAL STATUS: Married
RELATION TO HEAD OF HOUSE: Wife
HOMEMAKER?: Yes
HOME IN 1930: Fayetteville, Washington, Arkansas
STREET ADDRESS: St Charles St
WARD OF CITY: Two
HOUSE NUMBER IN CITIES OR TOWNS: 328
DWELLING NUMBER: 418
FAMILY NUMBER: 507
AGE AT FIRST MARRIAGE: 19
ATTENDED SCHOOL: No
ABLE TO READ AND WRITE: Yes
FATHER'S BIRTHPLACE: South Carolina
MOTHER'S BIRTHPLACE: West Virginia
ABLE TO SPEAK ENGLISH: Yes

HOUSEHOLD MEMBERS

NAME	AGE
Lape Nettleship	58
Ione Nettleship	50
Homer Dennis	33
Preston Greer	21
Lewis C Nettleship	17
John Nettleship	14

Support Center

ancestry

All results for Ione Nettleship

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

RECORDS CATEGORIES

Your family story is waiting to be found – Start today for FREE

START A FREE TRIAL

1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: Jane L **Nettleship**
SPOUSE: Earnest L Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1920 - city, Washington, Arkansas

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione Nettleship**
SPOUSE: Lape Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1930 - city, Washington, Arkansas

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione** L **Nettleship**
SPOUSE: E L Nettleship

SEE MORE View all related information

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

NAME: **Ione L. Nettleship**
SSN:
BORN: **2 Jun 1879**
DIED: **15 Jun 1966**
STATE (YEAR) SSN ISSUED: **Oklahoma - 1963-1964**

Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

NAME: Jessie **Ione Nettleship**
BIRTH: date - location
DEATH: dd mm 1963 - city, Minidoka

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione** L **Nettleship**
SPOUSE: Ernest L Nettleship
BIRTH: abt 1879 - location
RESIDENCE: 1910 - city, Washington, Arkansas

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: **Ione** L. **Nettleship**
BIRTH: 2 Jun 1879
DEATH: 10 Jun 1966

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Jessie **Ione Nettleship**
SPOUSE: Shelby Nettleship
BIRTH: 1880 - Kansas, USA
DEATH: 1963

1–8 of 8 Per page 20

ancestry

All results for Ione Nettleship

Search FiltersFilters Broad Exact

Ione

Nettleship

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 4
- Birth, Marriage & Death 4
- Family Trees 3

Shortcut Keys

Results 1–8 of 8

RECORDS CATEGORIES

Your family story is waiting to be found – Start today for FREE

START A FREE TRIAL

1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: Jane L **Nettleship**
SPOUSE: Earnest L Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1920 - city, Washington, Arkansas

1930 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione Nettleship**
SPOUSE: Lape Nettleship
BIRTH: abt 1880 - location
RESIDENCE: 1930 - city, Washington, Arkansas

1900 United States Federal Census
CENSUS & VOTER LISTS
View Image

NAME: **Ione** L **Nettleship**
SPOUSE: E L Nettleship
BIRTH: date - location
MARRIAGE: year
RESIDENCE: city, Washington, Arkansas

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

NAME: **Ione** L. **Nettleship**
BIRTH: date
DEATH: dd mm 1966 - city, Oklahoma, Oklahoma, USA
CIVIL: Oklahoma

Idaho, Death Index, 1890-1964
BIRTH, MARRIAGE & DEATH

NAME: Jessie **Ione Nettleship**
BIRTH: date - location
DEATH: dd mm 1963 - city, Minidoka

1910 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

SEE MORE View all related information

NAME: **Ione L. Nettleship**
BIRTH DATE: **2 Jun 1879**
DEATH DATE: **10 Jun 1966**
CEMETERY: **Evergreen Cemetery**
BURIAL OR CREMATION PLACE: **Fayetteville, Washington County, Arkansas, USA**
HAS BIO?: **N**

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

1–8 of 8

Per page 20

ancestry

All results for Louis Nettleship

Search FiltersFilters Broad Exact

Louis

Nettleship

BORN: 1912

COLLECTION: All Collections

Edit Search | New Search | UPDATE

All Categories

- Census & Voter Lists 2
- Birth, Marriage & Death 4
- Pictures 3
- Schools, Directories & Church Histories 7
- Family Trees 4

Shortcut Keys ▸

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Your family story is waiting to be found – Start today for FREE

START A FREE TRIAL

1920 United States Federal Census
CENSUS & VOTER LISTS
View Image

U.S., Social Security Death Index, 1935-2014
BIRTH, MARRIAGE & DEATH

SEE MORE View all related information

NAME: Louis C. Nettleship
SSN:
BORN: 21 Nov 1912
DIED: 24 Jul 1995
STATE (YEAR) SSN ISSUED: Oklahoma - Before 1951

U.S., Find A Grave Index, 1600s-Current
BIRTH, MARRIAGE & DEATH

NAME: Louis C. Nettleship
SPOUSE: Elnora Anna Nettleship
BIRTH: 12 Nov 1912 - Fayetteville, Washington County, Arkansas, USA
DEATH: 24 Jul 1995 - Oklahoma, USA

Public Member Photos & Scanned Documents
PICTURES



PHOTO: (Wheatland) Nettleship, Louis C & Elnora
CATEGORY: Portrait
ATTACHED TO: Louis Christopher Nettleship (1912-1995)

U.S., School Yearbooks, 1880-2012
SCHOOLS, DIRECTORIES & CHURCH HISTORIES
View Image

NAME: Louis Nettleship
BIRTH: year
RESIDENCE: year - city, Arkansas, USA

U.S., School Yearbooks, 1880-2012
SCHOOLS, DIRECTORIES & CHURCH HISTORIES
View Image

NAME: Louis Nettleship
BIRTH: year
RESIDENCE: year - city, Arkansas, USA

U.S. City Directories, 1822-1995
SCHOOLS, DIRECTORIES & CHURCH HISTORIES
View Image

NAME: Louis C Nettleship
RESIDENCE: year - city, Oklahoma, USA

U.S. City Directories, 1822-1995
SCHOOLS, DIRECTORIES & CHURCH HISTORIES
View Image

NAME: Louis C Nettleship
RESIDENCE: year - city, Oklahoma, USA

U.S. City Directories, 1822-1995
SCHOOLS, DIRECTORIES & CHURCH HISTORIES
View Image

NAME: Louis C Nettleship
RESIDENCE: year - city, Oklahoma, USA

Web: Oklahoma County, Oklahoma, Marriage Index, 1889-1951 BIRTH, MARRIAGE & DEATH	NAME: **Louis** C. **Nettleship** SPOUSE: Mrs. Elnora Rey Paulston MARRIAGE: 23 Jul 1937
London, England, Electoral Registers, 1832-1965 CENSUS & VOTER LISTS View Image	NAME: Isabella **Louis Nettleship** RESIDENCE: 1908 - city, England
U.S. Phone and Address Directories, 1993-2002 SCHOOLS, DIRECTORIES & CHURCH HISTORIES	NAME: **Louis** C **Nettleship** RESIDENCE: year - city, Oklahoma
U.S. Phone and Address Directories, 1993-2002 SCHOOLS, DIRECTORIES & CHURCH HISTORIES	NAME: **Louis** C **Nettleship** RESIDENCE: year - city, Oklahoma
Web: Oklahoma County, Oklahoma, Marriage Index, 1889-1951 BIRTH, MARRIAGE & DEATH	NAME: Elnora Rey Mrs. Raulston SPOUSE: Louis C. Nettleship MARRIAGE: 23 Jul 1937

1–14 of 14

Per page 20

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Appendix 28

2016 – Bradford Industrial Supply History

Bradford Industrial Supply Corporation

Service - Knowledge- Reliability "We're here when you need us"

Home

About Us

Locations

Contacts

Our Vendors

Contact Us

Super Saver

Testimonials

Vendor Links

Browning

Copeland

Emerson Motors

Emerson Valves and System Protectors

Esco Test Results

Friedrich Room Air Conditioner

Goodman Manufacturing

KE2 Therm Solutions

Mitsubishi Electric

White Rodgers

I-Net Sign in



About Us

BRADFORD INDUSTRIAL SUPPLY

Bradford Industrial Supply Corporation began it's operation as Bradford & Nettleship, Inc. in 1963 as a typical refrigeration equipment, parts and pieces wholesaler with a strong emphasis on commercial refrigeration equipment. In addition to typical supplies offered in the refrigeration industry, Bradford became involved in power transmission equipment which opened new offerings into the industrial markets of Oklahoma.

EXPANSION

Bob Bradford, CEO, joined the firm his uncle, also named Bob, and Lewis Nettleship had opened shortly after it's inception. Some years later, Uncle Bob and Lewis left the company and younger Bob became sole owner.

The company grew rapidly, adding HVAC equipment and supplies to its mix and soon became an important player in the Central and Western Oklahoma market. Over the past years Bradford has formed a first-rate management team including Mike Simons as the President, Brad Roper as Purchasing Manager,and Store Managers: Lisa Smith of Oklahoma City, Dennis Quinton of Shawnee, Stan Botts of Enid, and Jeff Dilbeck of Lawton OK.

Today, Bradford Industrial Supply has evolved into an aggressive distributor, staffed by 41 experienced employees and covering three principal business categories: (1) The HVAC/R parts and equipment department, handling such lines as Goodman, Copeland, Witt, and Emerson products; (2) a specialized controls operation, carrying Honeywell, Johnson, White Rodgers, TCS/Basys Controls, Siebe, etc. which has had a tremendous impact on Bradford's overall business; (3) and the comfortable niche they've established supplying the Browning line of power transmission equipment. Although the last segment of the business differs somewhat from the firm's regular HVAC/R operations, there is a clear relationship to the application of air movement equipment which fits into sales plans of both departments. Bradford sells a growing volume of power transmission products to OEMs in its territory as well as certain users in the industrial sector. It makes Bradford Industrial an atypical sort of business.

TRAINED SALES STAFF

The marketing of products of three distinct departments is accomplished by three outside and seven inside, highly trained sales people. The outside sales personnel cover most of Oklahoma and parts of Texas and Kansas. The staff is specially trained on Browning power transmission equipment, refrigeration systems and commercial control systems using Honeywell energy products, Johnson and TCS/Basys Controls.

OKLAHOMA CITY

Inside sales activity operates within a very up-to-date 38,000-sq-ft headquarters with an additional 11,000 sq-ft building adjacent to the original at 120 E. Hill Street. The operation offers a maximum level of self-service with a starburst position of product floats from a central billing area and the "retail type" slat wall material that allows for a flexible presentation of hundreds of HVAC/R items. The positioning of the central billing area allows customers fast service. In addition, Bradford still runs three delivery trucks for the central trade area to accommodate large orders. Training - The Oklahoma City facility provides a training room which can seat as many as 30 people. The facility is used frequently to conduct contractor training on the ever changing products of the industry. Also a DVD area is available, complete with manufacturer's disc for technicians to use at their discretion.

ENID - LAWTON - SHAWNEE

The Bradford branch operations in Enid, Lawton, and Shawnee, are staffed with highly trained personnel ready and able to serve the markets they cover. Each location is fully stocked and independently managed offering delivery services and product expertise to the immediate and surrounding areas.

PHILOSOPHY

The Bradford Industrial Supply Corporation sales and marketing philosophy is simply put in one word "VALUE" . Our customer base is considered the lifeline of the entire company and each account is treated with courteous through service. In maintaining a complete available inventory, providing technical troubleshooting assistance and making available all phases of application in equipment and controls, Bradford's goal is to be to the customer his one stop, one call product and information center. Customer's come to Bradford to get answers as well as supplies, a benefit that is commonplace not an exception. In an era of consolidation, Bradford has to be more to the customer than a catalog store and each customer's problem is perceived as if it were Bradford's. "CUSTOMER FIRST".

Appendix 29

2016, February 01 – Complete List of ASHRAE Fellows

Highlighted names are Central OK Chapter

LISTING OF ASHRAE FELLOWS

Abedin, A.—1998

Achenbach, P.R.—1959

Acorn, W. A. – 2006

Adams, L.—1955

Advani, A.—1996

Aguilo, R.R. — 2013

Akerman, J.R.—1981

Albern, W.F.—1992

Alderman, B., Jr.—1977

Altieri, J.L.—1986

Alvine, R.G.—1981

Amann, W.L.—1985

Anderson, C.M.—1982

Anderson, P.P., Jr.—1979

Angus, D.L.—1971

Appling, E.B.—1983

Armstrong, R.M.—1950

Armstrong, R.S.—1997

Arnold, D.—2001

Asker, G.C.F—1996

Atwood, T.—1992

Avery, G.—1997

Ayres, J.M.—1973

Ayub, Z. —2008

Azer, N.Z.—1992

Baade, P.K.—1971

Bahnfleth, D.R.—1975

Bahnfleth, W.P. —2005

Baker, R.G. —2009

Balaras, C. — 2011

Bales, E.L.—1999

Bansal, P. —2008

Barbier, W.J.—1987

Barkman, H.G.—1987

Barnard, L., Jr.—1989

Basso, P.J.—1997

Bathgate, T.A.—1992

Baum, R.T.—1977

Baxter, V. — 2011

Beaty, D.L. —2007

Becker, B. — 2004

Becker,S. —2008

Behls, H.F.—1995

Bellenger, L.G.—1998

Belt, Jr., N.W.—1998

Bendelius, A.G.—1997

Bennett, A.H.—1983

Benz, D.L.—1993

Bergles, A.E.—1992

Berglund, B.—1992

Berglund, L.G.—1991

Bertrand, L.—1998

Besant, R.W.—1993

Bevirt, W.D.—1992

Bhatti, M. —2004

Biehn, G.L.—1975

Bilderbeck, M.R. —2005

Bishop, W.P.—1985

Bisset, J.B.—1995

Blatt, M.H.—1999

Blazier, W.E.—1990

Blossom, J.S.—1977

Bodinus, W.S.—1975

Boggs, A.T., III—1979

Bong, T.-Y.—1990

Bosworth, C.M.—1971

Bottum, E.W.—1984

Bourquin, P.A.—1990

Bouthillette, R.—1994

Bovay, H.E., Jr.—1981

Boyd, R.L.—1967

Boyce, D.K. —2009

Bradley, T.W.—1989

Brager, G.S.—2002

Branson, D.J. — 2013

Brambley, M.R.—2009

Brandemuehl, M.J. — 2009

Braun, J. — 2005

Braun, R.H.—1990

Brickman, H.—1987

Bridgers, F.H.—1973

Briede, J.D.—1994

Briley, G.C.—1991

Brown, A.M.—1987

Brown, C.R.—1991

Brown, F.L.—1985

Brown, J.S. — 2013

Brown, L.N.—1977

Brown, M.R.—1993

Brown, S.W.—1967

Bruechert, C.J.—1982

Brundrett, G.W.—1998

Bruning, S.F.—1996

Bryant, D.C., Sr.—1981

Buck, W.J.—1993

Buckley, J.B.—1981

Buckley, N.A.—1992

Bullard, C.W.—2002

Bullock, C.E.—1996

Bunn, R. A. - 2006

Burch, R.M.—1995

Burdick, R.S.—1993

Burgett, L.W.—2000

Burkhardt, R.G.—2001

Burr, G.C., Jr.—1977

Burr, R.W.—1994

Burroughs, H.E.—1994

Bushby, S. —2008

Butcher, T.A. — 2013

Butler, D.S, Sr.—1992

Calm, J.M.—1997

Campbell, H.J., Jr.—1988

Capehart, B.L.—2012

Carroll, J.R.—1972

Carter, D.E. —2012

Carter, H.C.—1980

Cavallini, A. —2007

Cavestri, R. C. 2006

Cawley, R.E.—2002

Chaddock, J.B.—1971

Chakroun, W. —2010

Chan, J.V., Jr. —2005

Charles, R.A.—1992

Charneux, R. —2005

Chato, J. —2004

Chee, Y.P. —2004

Chen, Q. — 2005

Chen, T.L. —2004

Chiriac, F. – 2006

Choat, E.E.—1989

Chongvatana, P. — 2006

Chou, S.K. — 2005

Chow, T. —2008

Christensen, P.B.—1954

Chu, Chun-Ying—2003

Chuah, Yey K. —2003

LISTING OF ASHRAE FELLOWS

Claridge, D. —2007

Clark, E.M.—1999

Clark, J.A.—1999

Clark, K.M.—1994

Clark, R.J.—1999

Clements-Croome, D.J.—1998

Cleland, D.J. —2009

Cloke, T.H., Jr.—1974

Coad, W.J.—1980

Coggins, J.L.—1999

Cohen, R.—1977

Cohen, W.—1982

Colborne, W.G.—1979

Cole, R.A.—1991

Collins, W.J., Jr.—1966

Colliver, D.G.—1995

Conley, H.E.—1983

Cooper, K. — 2005

Cooper, W.S.—1997

Copeland, C.C.—1991

Corley, J.H.—1998

Costa, Antonio — 2014

Costantino, M.—1985

Coughlin, R.J.—1997

Coward, C.W., Jr.—1996

Cox, J.E.—1993

Cox, W.A., Jr.—1982

Coyne, G.G.—1986

Crawford, J.G.—2001

Crawley, D.B. —2009

Cromer, C.J. —2009

Crosland, R.B.—1983

Culp, C. — 2005

Cummings, J.B. —2010

Cummings, S.D., Jr.—1994

Dale, K.W.—1984

Daly, E.A.—1994

Davidson, L.A. —2007

Davis, W.J.—1984

Dean, B.W.—1983

Decker, H.E.—1983

Deltz, P.N.—1994

Depew, C.A.—1995

DesChamps, N.H.—1999

Dharkar, Pankaj — 2014

Didion, D.A.—1991

DiGiacomo, W.A.—1986

Dillon, M.E.—1993

Domanski, P.A. —2007

Donley, W.L.—1977

Donoso, J.E. —2010

Dorgan, C.B. —2010

Dorgan, C.E.—1985

Downing, L.—1991

Downing, R.C.—1968

Driscoll, D.J.—1982

Duda, S.W. — 2013

DuPernell, P.C.—1994

Durkin, T.H. —2012

Dussault, R.E.—1992

Dwyer,T. —2008

Dzelzitis, Egils — 2014

Elmahdy, A.H. —2009

Elovitz, D.M.—1996

Emery, A.F. —2007

Ensor, David—2003

Ervin, D.A., Jr.—1975

Evans, G.F.—1987

Evans, L.D.—1995

Evans, R.A.—1993

Evans, R.J.—1979

Fanger, P.O.—1980

Farina, D.—1990

Fencl, F.B. —2009

Ferdelman, T.J.—1998

Fernandes, E.O.—1997

Ferreira, F.—1993

Field, J. —2008

Fiorino, D.P.—2001

Fischer, H.C.—1979

Fisher, D. —2009

Fisk, W. — 2005

Fitzner, K.—1999

Flaniken, Bruce — 2014

Fleming, W.S.—1991

Fly, M.W. —2012

Fogelman, S.R.—1981

Fox, J.H.—1965

Frankfurt, W.W.—1977

Freeman, G.A.—1983

Friberg, E.E.—1983

Friedman, D. — 1982

Friedman,G. —2012

Gabrielsson, J.E.—1984

Gage, Cynthia – 2006

Galson, E.L.—1988

Ganta, Ravisankar- 2014

Garbarino, A. — 2005

Gardner, M.D.—1997

Garrett, F.T., Jr.—1992

Gates, A.S., Jr.—1966

Gatley, D.P.—1984

Gendler, G.L.—1973

Gilbertson, T.A.—1991

Gilbo, C.F.—1991

Gilson, P.D.—1991

Gilmore, C.F.—1996

Gipson, D.W.—1990

Gladstone, J.—1989

Glaser, D.L.—1995

Glicksman, L. —2008

Goldberg, N.—1988

Goldman, R.F.—1983

Goldschmidt, V.W.—1985

Gonzalez, D.J.—1977

Gonzalez, R.R.—1994

Goodman, H.D.—1989

Goodman, H.W., Jr.—1988

Gorton, R.L.—1990

Goswami, D.Y. — 2013

Govan, F.A.—1983

Gowan, D. —2010

Graber, E.—1982

Graef, P.T. —2007

Graham, J.B.—1969

Graham, Lois—1984

Grant, W.I.—1979

Grasso, M. —2007

Graves, J.R.—1983

Green, W.M.—1999

Greenberg, A.—1981

Greenwald, R.—1988

Grimsrud, D. — 2005

Groff, G.C. —2004

Groll, E. A. – 2006

Grondzik, W.T. —2007

LISTING OF ASHRAE FELLOWS

Grossman, G. —2010

Grumman, D.L.—1991

Guimaraes, E.T. — 2013

Guinn, G.R.—1993

Guntermann, A.E.—1992

Gupta, H.C.—1975

Gupta, Vijay—2003

Gupta, V.P. —2011

Gupton, G.W., Jr.—1981

Gusler, D.L.—1972

Guttman, K.—1981

Haag, W.L.—1999

Haberl, J. S. - 2006

Hadley, L.G.—1984

Haghighat, F. —2007

Hague, J.T.—1998

Hahn, W. —2008

Haines, R.W.—1974

Hallstrom, A.D.—2000

Halyard, P.J.—2000

Hamrick, B.A., Jr.—1995

Handegord, G.O.P.—1984

Hanley, A.J.—1990

Hansen, III, C.—1998

Hansen, E.G.—1993

Hargan, M.R.—1996

Harmon, J.J.—1995

Harrison, W.D.—1982

Harriman, L.G. —2009

Haves, Philip—2003

Hay, Donald J. — 2014

Hayakawa, T.G.—1982

Hayes, H.P.—1962

Hayter, R.B.—1991

Hayter, S. —2008

Heiman, J.L.—1990

Hellman, A.A.—1986

Heffron, D.B.—1977

Hegberg, R.A.—1999

Henck, C.E.—1997

Hens, H.S.L.C. —2007

Hensen, J.L.M. —2007

Herbert, M.B.—1999

Hightower, G.B.—1977

Hill, J.E.—1992

Hiller, C. — 2005

Hirsch, S.R.—1951

Hittle, D.C.—1991

Hng, H.C.—1995

Hogeling, J.J. —2010

Holness, G.V.R.—1990

Holste, F.R.—1983

Hopper, R.E., Jr.—1993

Horstman, R.H. —2012

Horvay, J.B.—1977

Hosni, M.H. —2005

Hourahan, G.C. —2009

Houston, S.H.—1998

Howell, R.H.—1986

Hrnjak, P.S. —2005

Hu, Y.R. —2005

Hubard, B.—1988

Hughes,D. —2008

Hunn, B.D.—1994

Hunt, E.—1994

Hunton, R.O.—1993

Hydeman, M. – 2006

Ibison, J.L.—1973

Int-Hout, D. —2007

Jackins, G.A.—1993

Jacobi, A.M. —2009

Jain, P.C.—1995

Jang, J. Y. – 2006

Jarik, G.J.—1977

Jensen, R.E.—1993

Jensen, R.N.—1981

Johnson, G.E.—1991

Johnson, R.M.—1996

Jones, B.W.—2000

Jones, J.W.—1989

Jones, R.R.—1977

Jordan, C.H.—1984

Jordan, R.C.—1959

Jorgensen, R.—1977

Kadaba, P.V.—1993

Kampmeyer, J.E.—1997

Kanan, K. S. – 2006

Katipamula, S. —2009

Kato, S. —2007

Kavanaugh, S.2003

Kazachki, G.—2003

Keeler, R.M. —2010

Keller, G.M.—1987

Kelley, W.—2000

Kelly, E.E.—1981

Kelly, G.E.—1991

Kelso, R.M.—1992

Kelter, S.L.—1995

Kennedy, E.C.—1985

Kennedy, J.M.—1979

Kenny, E.—1987

Kerschbaumer, H.G.—1989

Khalifa, H.E. —2009

Khalil, E.E. —2009

Khattar, M.K. —2009

Kilkis, B. —2004

Kimball, W.R.—1994

Kimura, K.I.—1987

Kingsbury, H.F.—1982

Kirkwood, R.R.—1967

Kittler, R.—2001

Klassen, J.—1982

Klein, S.A.—1998

Klote, J.H.—1993

Knebel, D.E.—1995

Knight, M.D. — 2013

Knutson, G.W. — 2013

Koch, P.H.—1977

Kohlenberger, C.R.—1996

Kohloss, F.H.—1973

Koptis, C.R.—1994

Korsgaard, V.—1987

Kramer, D.E.—1979

Krafthefer, B. —2004

Krapek, A.—1975

Kreisman, H.—1975

Kroll, M.N.—1996

Kruse, H.H.—1997

Kuehn, T. —2004

Kuehner, R.L.—1971

Kulkarni, R.S. —2010

Kurtz, N.D.—1987

Kusuda, T.—1976

Kwok Ping-Ki, A.—1991

LISTING OF ASHRAE FELLOWS

Lagomarsino, W. Luis—2014
Laksanakorn,W. —2008
Landman, W.J.—1989
Lang, J.T.—1996
L'Anglais, F.—2001
Lawson, C.N. —2009
Lebrun, J.—2001
Lee, C.H.—1985
Lee, E.C. —2004
Lee-Thorp, V.D.—1995
Lehr, V.A.—1988
Leitsch, S.L.—1998
Lesser, N.I.—1990
Levin, Hal—2003
Lewis, O.K.—1984
Lewis, R.H.—1996
Li, Y. – 2006
Lim, C.L. —2010
Lin, C.H. — 2013
Lindvall, T.—1995
Linstromberg, W.J.—1980
Lipshultz, M.—1989
Listijono, J.B. —2009
Lizardos, E.J.—1989
Lloyd, A.S.—1995
Lodge, R.H. —2004
Loewer, H.E.—1990
Logsdon, R.F.—1970
Lord, R. — 2013
Lorf, G.O.G.—1988
Lorsch, H.G.—1986
Lortie, R.P.—1993
Lotz, W.A.—1992
Lovvorn, N.C. —2005
Lsitburek, J. —2005
Lum, F.Y.S.—1991
Lumlertpongpana, A. —2010
Mackie, E.I.—1990
MacPhee, C.W.—1979
Madison, R.D.—1960
Madsen, T.L.—1996
Manning, B.R.—1993
Markel, L.C.—2002
Markel, M.L.—1991
Marschall, P.J.—1960
Masters, R.E.—1985
Mathur, G.D. —2005
May, J.W.—1968
McCarry, B.T.—2002
McCloskey, W.D.—1997
McConahey, Erin - 2014
McCoy, J.D.—2002
McDonald, T.W.—1996
McFall, J.D.—1992
McGuire, A.B.—2000
McKew, H.J. —2007
McMillan, H.D. —2010
McNall, P.E., Jr.—1975
McNamara, T. —2008
McQuade, W.F. —2012
McQuiston, F.C.—1986
Mehboob, F. —2010
Meckler, M.—1986
Meitz, A.K.—1999
Melikov, Arsen—2003
Melton, B.J. —2012
Mendez, F.J.—1995
Mentzer, J.C.—2000
Meriwether, R.F.—1983
Mescher, Kirk — 2014
Miclea, P.C. — 2013
Miller, P.L.—1984
Miller, R.D.—1998
Missimer, D.J.—1972
Mitchell, J.W.—1994
Moakes, R.—1992
Modera, M. —2011
Monier, K.A.J.—1995
Montgomery, R. —2012
Morabito, B.P.—1979
Morris, D.J.—1991
Morrison, W.B.—1980
Morse, F.B.—1984
Moseley, T.D.—1981
Moses, W.G.—1983
Mumma, S.A.—1992
Munger, G.R.—1979
Murakami, S.—2001
Murphy, W.E. —2004
Murray, H.G.S.—1979
Murray, W.A.—1998
Nack, D.H.—1980
Nall, Daniel H. — 2014
Naman, I.A.—1977
Nellis, G.F. — 2013
Nesher, A.G.—1999
Newman, H.M.—2000
Ng, E.H.—2001
Nichols, D.E.—1975
Nichols, L. —2005
Nielsen, P.V. —2004
Niess, R.C.—1992
Nishi, Y.—1994
Niu, J. — 2013
Norman, J.H. —2007
Norris, R.W.—1979
North, F.H.—1985
Nottage, H.B.—1960
Novak, P.—1999
Novakovic, V. — 2005
Nutter, D.W. — 2011
Nye, G. —2008
O'Dell, L.J.—1991
Ohadi, M. —2004
Olesen, B.W.—2001
Olsen, E.J.—1999
Olsen, J.C.—1982
Olivieri, J.B.—1975
O'Neal, D.L.—1999
Opatrny, C.J.—1993
Ossi, Fareed—2000
Ostrander, W.S.—1983
Ow, C.S.—2002
Pahwa, D. — 2005
Palmizi, F.—1990
Pande, M.M.—1997
Panlener, R.J.—1954
Paranjpey, R. —2005
Parker, A.J., Jr.—1987
Patterson, N.R.—1984
Pearson, F.J.—1987
Pearson, R.J.—1984
Pedersen, C.O.—1987
Penney, G.W.—1981
Perisic, Z.B.—1999
Perkins, C.S.—1968

List is missing Louis C. Nettleship - 1987

LISTING OF ASHRAE FELLOWS

Perlman, M.—1992

Perry, R.P.—1979

Persily, A.K. —2004

Peterson, H.J.—1985

Peterson, Ronald - 2014

Petersen, K. – 2006

Petras, Dusan — 2014

Pflug, I.J.—1975

Phaklides, W.J.—1982

Phillips, C.W.—1972

Phillips, H.—1991

Phoenix, T.H. — 2011

Pietsch, J.A.—1977

Powell, F.J.—1982

Powell, J.V., Jr.—1985

Procell, C.J.—1992

Punsalan, L. – 2006

Queer, E.R.—1960

Rademacher, K. – 2006

Rákóczy, T.—1997

Ram, D.N. —2007

Rands, G.F.—1988

Ratai, W.—1983

Reddy, A. —2007

Reedy, W.R. —2005

Reig, J.A.—1996

Reindl, D. —2008

Reistad, G.M.—1992

Rengholt, U.N.—1993

Rhea, H.H.—1991

Rich, D.G.—1979

Richard, O.E.—1980

Richards, W.V.—1985

Richardson, G.—2002

Ridenour, S.M.—1992

Rishel, J.B.—1991

Rivers, R.D.—1993

Roberts, J.F., Sr.—1983

Robinson, K.E.—1972

Rock, B. —2005

Rodriquez, J.T.—1994

Rogers, B.T.—1988

Rohles, F.H., Jr.—1984

Romine, T.B., Jr.—1977

Rooley, R.H.—1986

Root, G.W., Sr.—1994

Rose, W.B. —2012

Rosen, S.—1991

Ross, D.E.—1984

Roubal, J.P.—1996

Rountree, H.E.—1984

Rumsey, P. —2008

Salsburg, J.F.—1971

Sami, S.M.—2001

Sanchez, A.J.—1998

Sandfort, J.F.—1971

Sankaran, S. — 2005

Sanvordenker, K.S.—1982

Sauer, H.J., Jr.—1980

Schmidt, W.A.—1982

Schoen, L. —2005

Schreiner, J.R.—1975

Schuchart, O.W.—1994

Schulze, J.L.—1999

Schumacher, E.W.—1995

Schuyler, G. —2005

Schwenker, E.H.—1998

Scofield, C.M.—2002

Scott, N.R.—1997

Scriven, J.A.—1989

Seiler, E.N.—1990

Sekhar, S.C. —2007

Seppänen, O.A.—1996

Sepsy, C.F.—1975

Sestak, G.J.—2001

Setty, B.S.—2002

Shadpour, F. —2005

Shah, M.M.—2000

Shavit, G.—1991

Shefferman, S.M.—1994

Sheikh, A.S. — 2011

Shelton, R.L. —2005

Shelton, S.V.—1988

Sherif, S.A.—2002

Sherman, M.H.—1995

Shitzer, A. — 2005

Shiver, W.D.—1987

Siganto, J.J.W.—1984

Simha, R.V.—1997

Simmonds, P. – 2006

Singh, H.—1994

Singh,J. —2008

Sirjord, A.B., Jr.—1996

Sisti, M.F.—1988

Slayton,C. —2008

Smith, C.D.—2001

Smith, G.W.—1997

Smith, L.R.—1971

Smith, T.—1986

Somasundaram, S. – 2006

Sosoka, J.R.—1989

Soumerai, H.P.—1969

Sowell, E.F.—1990

Spauschus, H.O.—1971

Speich, C.F.—1993

Spiegel, W.F.—1975

Spielvogel, L.G.—2000

Spitler, J.D. —2005

Stamper, E.—1977

Stanke, D.A. —2007

Stanzani, F.—1992

Starner, K.E.—1998

Stefanutti, U.—1992

Steimle, F.W.—1990

Stern, R.M.—1983

Stoecker, W.F.—1974

Stone, D.T.—1996

Stotz, R.B.—1985

Straub, H.E.—1972

Strong, R.H.—2002

Sud, I. —2005

Suggs, R.M., III—1993

Sullivan, E.P.—1977

Sun, T.Y.—1984

Sundaresan, G.—2000

Surange,A. —2008

Swenson, C.A.—1984

Swygert, H.B., Jr.—1985

Synn, I.C-O.—1996

Tabunschikov, Y.A.—2001

Tamblyn, R.T.—1975

Tan, S.C.L—2001

Tanabe, S. – 2006

Tao, E.—1986

Tao, W.K.—1977

Tapias, A.—1985

Taylor, S. —2004

Taylor, R.E.—1993

Taylor, W.—1975

Thirakomen, K. —2009

Thompson, C.A.—1989

Thornton, R.C.—1991

Tilney, R.B.—1975

Timmer, C.W.—1994

Todorovic, B.B.—1987

Todorovic, M. —2009

Toub, S.G.—2002

Townsend, T.E.—1997

Traboulsi, Samir - 2014

Traugott, F.A.—1980

Tree, D. — 2005

Tse, V.K.C.—1996

Tully, R.E.—1980

Tumilty, J.E.—1983

Turaga, M.—1992

Underwood, T.D. — 2007

Urban, R.A.—1980

Uselton, R.B. —2004

Utesch, A.L.—1986

Vaidyanathan,N. —2012

Vallort, J.K. — 2013

Vallort, R.P.—1997

Vechaphutti, T. —2004

Vener, A.S.—1990

Viessmann, H.—1989

Vineyard, E.A. — 2011

Voelz, G.R.—1977

Vogel, C.T.—1990

Waeldner, W.J.—1993

Walker, I.S. — 2011

Walkinshaw, D. —2008

Wallstrom, L.L.—1981

Walton, G. — 2005

Wang, C. — 2005

Wang, D.W.P—2002

Warwicker, B. — 2011

Waterfill, R.W. —1971

Watson,T. —2008

Watt, J.R.—1992

Webb, R.L.—1998

Webb, W.A.—2002

Weld, G.B.—1986

Wells, R.D.—1996

Wells, W.P.—1977

Welsh, J.W.—1990

Wen, S.M.—1986

Wentz, T.G. —2005

Wepfer, W.J.—1996

Werden, R.G.—1965

Wessel, D.J.—1998

Wheeler, A.E.—1975

White, T.J.—1981

Whitescarver, C.K., Jr.—1982

Wicks, K.W.—1985

Wildin, M.W.—1997

Williams, V.A.—1988

Willis, L.E.—1999

Wingfield, G. — 2006

Winston, Donald - 2014

Wischmeyer, W.F.—1974

Wolfberg, H.A.—1984

Wong, S.P.W.—1988

Wong, Y.W.—2002

Woodroof, J.G.—1958

Woods, J.E.—1992

Woody, A.W.—2000

Worek, W.M. — 2011

Wright, J.R.—1998

Yamamoto, G.S.—2000

Yang, K. – 2006

Yang, X. — 2011

Yoshino, H. – 2006

Young, E.H.—1984

Yousoufian, H.H.—1997

Yuill, G.K.—1990

Zanders, R.W.—1988

Zhang, J. — 2011

Zhang,Y. —2008

Dusty Stoabs

From: Pettigrew, Candace <CPettigrew@ashrae.org>
Sent: Friday, February 19, 2016 8:02 AM
To: Gurley, Daniel; 'dstoabs@streetsinc.com'
Subject: RE: ASHRAE Fellows List

Good Morning Dusty,

Thank you so much for contacting us. You are absolutely correct, Mr. Nettleship was elevated to the grade of Fellow at the 1987 Winter Meeting. I was able to confirm this in ASHRAE Insights.

The H&A Resource Manual (which lists past award recipients) has been updated to include this as well. We will work on getting the complete listing of Fellows updated online in the next week or so.

I'll also work with Daniel to see if we can get Mr. Nettleship's membership record updated.

Please let me know if you have any questions or if there is anything else I can do to be of assistance.

All the Best,
Candace

Candace Pettigrew
Chapter Programs Manager
ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329
Tel: 678-539-1128
cpettigrew@ashrae.org
www.ASHRAE.org

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From: Dusty Stoabs [mailto:dstoabs@streetsinc.com]
Sent: Thursday, February 18, 2016 10:06 AM
To: Gurley, Daniel <DGurley@ashrae.org>
Cc: BLFlaniken@houstonmethodist.org <r08hist@ashrae.net>; 'John Semtner' <jsemtner@adgokc.com>; 'Flaniken, Bruce L.' <BLFlaniken@houstonmethodist.org>; aloeffler@federalcorp.com; tinomendez@cox.net
Subject: RE: ASHRAE Fellows List

Daniel,

Attached is the Central Oklahoma Chapter BOG meeting minutes from 10-6-1986 that record Louis Nettleship being named a Fellow on page 3. It states that he was to be awarded at the Winter Meeting (January 18-21, 1987 – NY, NY). I don't have access to the Honors and Awards record from that meeting, but if you could check it, I'll bet he was listed. Also, through more searching, I found online the attached Excel spreadsheet that does actually list him as becoming a Fellow in 1987. That conflicts with the official ASHRAE Society list of Fellows contained in the DOCX and PDF

files attached, which does not have him listed. The DOCX document says to contact Candace Pettigrew with questions or concerns. Can you contact her and request that the official Awards list and list of Fellows be updated with his name? Or, should I contact her directly?

Thank you for your help with this!

Dusty Stoabs, PE, CPMP, LEED AP BD+C
ASHRAE Central Oklahoma Chapter Historian

ASHRAE Central Oklahoma Chapter
www.ashraecok.org

From: Gurley, Daniel [mailto:DGurley@ashrae.org]
Sent: Tuesday, February 16, 2016 7:30 AM
To: Dusty Stoabs <dstoabs@streetsinc.com>
Cc: BLFlaniken@houstonmethodist.org <c064bog3@ashrae.net>; 'John Semtner' <jsemtner@adgokc.com>; 'Flaniken, Bruce L.' <BLFlaniken@houstonmethodist.org>
Subject: RE: ASHRAE Fellows List

Hmm… I searched on last name only in the old database and it didn't bring up anyone. It was the active database from the early 80's to mid 90's, so he should have been in there, if for some reason he didn't get transferred over to the new one.

I will see if our Librarian/Historian has anything for him in her paper records. I searched in our scanned applications and renewals and still nothing. Those go all the way back to the early 60's.

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Shaping Tomorrow's Built Environment Today

Daniel Gurley
Manager of Membership & Member Contact Center
ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329
Tel: 678-539-1127
DGurley@ashrae.org
www.ASHRAE.org

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---

From: Dusty Stoabs [mailto:dstoabs@streetsinc.com]
Sent: Tuesday, February 16, 2016 8:23 AM
To: Gurley, Daniel <DGurley@ashrae.org>
Cc: BLFlaniken@houstonmethodist.org <c064bog3@ashrae.net>; 'John Semtner' <jsemtner@adgokc.com>; 'Flaniken, Bruce L.' <BLFlaniken@houstonmethodist.org>
Subject: RE: ASHRAE Fellows List

That is him, with the address of May Ave. I believe he passed away approximately 1995 or ’96. I don’t have anything that would tell me what his member number was.

Dusty Stoabs, PE, CPMP, LEED AP BD+C
ASHRAE Central Oklahoma Chapter Historian

ASHRAE Central Oklahoma Chapter
www.ashraecok.org

From: Gurley, Daniel [mailto:DGurley@ashrae.org]
Sent: Tuesday, February 16, 2016 7:09 AM
To: Flaniken, Bruce L. <BLFlaniken@houstonmethodist.org>; Dusty Stoabs <dstoabs@streetsinc.com>
Cc: BLFlaniken@houstonmethodist.org <c064bog3@ashrae.net>; John Semtner <jsemtner@adgokc.com>
Subject: RE: ASHRAE Fellows List

Good morning all:
I only have one Nettleship in the current database and I’m not showing any membership for him. I searched the old database as well and didn’t find a membership for him there either. Do you have a membership number for him?



Daniel Gurley
Manager of Membership & Member Contact Center
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Tel: 678-539-1127
DGurley@ashrae.org
www.ASHRAE.org

HVAC Design Training - 2 Training Courses, 5 Days of Intense Instruction www.ashrae.org/hvacdesign

From: Flaniken, Bruce L. [mailto:BLFlaniken@houstonmethodist.org]
Sent: Monday, February 15, 2016 5:34 PM
To: Dusty Stoabs <dstoabs@streetsinc.com>
Cc: Gurley, Daniel <DGurley@ashrae.org>; BLFlaniken@houstonmethodist.org <c064bog3@ashrae.net>; John Semtner <jsemtner@adgokc.com>
Subject: Re: ASHRAE Fellows List

You can ask society to send you a copy of his official ASHRAE Bio that might help you to determine his status as a fellow

Sent from my iPhone

On Feb 15, 2016, at 4:19 PM, Dusty Stoabs <dstoabs@streetsinc.com> wrote:

> Daniel,
>
> I'm hoping you can help me. Attached is a list of ASHRAE Fellows I downloaded from the Society website. Specifically, Louis C. Nettleship is not included in the list, but he has been in our Chapter Honors and Awards list as being a Fellow since 1987. Is there any way that he was actually awarded the grade of Fellow but somehow is not on the current Society list, or is it more likely that he never actually made the grade of Fellow and our Honors and Awards list has been incorrect all this time?
>
> Thanks!
>
> Dusty Stoabs, PE, CPMP, LEED AP BD+C
> *ASHRAE Central Oklahoma Chapter Historian*
>
> <image004.jpg>
> www.ashraecok.org
>
> **From:** John Semtner [mailto:jsemtner@adgokc.com]
> **Sent:** Monday, February 15, 2016 1:09 PM
> **To:** Dusty Stoabs <dstoabs@streetsinc.com>
> **Subject:** RE: ASHRAE Fellows List
>
> Can you follow up with society on Nettleship?

John B. Semtner, PE, LEED AP+, BEAP
ADG, PC | Principal | Director of Architectural Engineering

From: Dusty Stoabs [mailto:dstoabs@streetsinc.com]
Sent: Monday, February 01, 2016 1:34 PM
To: John Semtner; 'Jeff Forman'; 'Trapper Wilson'; 'Damon McClure'; 'Stephanie Thomas'; 'Sauer, Brian A.'; 'Daniel Brazeale'; 'cdolan@eei-ok.com'; 'Caleb Spradlin'; bdgarcia@trane.com; 'Wilson, Michael'; 'Donehue, Andrew'; 'David Royal'
Cc: tinomendez@cox.net; aloeffler@federalcorp.com
Subject: ASHRAE Fellows List

Today, in the ASHRAE BOG meeting, someone asked who are all the Central OK Chapter Fellows. Attached is the list I just downloaded from Society. I highlighted the ones that are from our Chapter. Interestingly, our current Honors and Awards list has Louis C. Nettleship listed as a Fellow, however, he does not appear on the Society list. If anyone knows the history on this, please let me know.

Thanks.

Dusty Stoabs, PE, CPMP, LEED AP BD+C
<image001.jpg>

<2016-02-01 Complete-List-of-ASHRAE-Fellows.pdf>

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Appendix 30

2016 – ASHRAE COK Honors and Awards List, For Reference

ASHRAE CENTRAL OKLAHOMA CHAPTER
Charter Granted October 4, 1935

CHAPTER PAST PRESIDENTS

F.X. Loeffler, Sr. 1935
F.X. Loeffler, Sr. 1936
E.F. Dawson 1937
E.W. Gray 1938
A.A. Hoppe 1939
S.L. Rolland 1940
A.R. Morin 1941
J.H. Carnahan 1942
E.F. Dawson 1943
E.T.P. Ellingson 1944
E.W. Gray 1945
G.T. Donceel 1946
W.W. Frankfurt 1947
J.H. Spaan 1948
H.S. Shafer 1949
R.E. Swan 1950
J.H. Carnahan 1951
W.J. Collins, Jr. 1952
F.X. Loeffler, Jr. 1953
G.E. Ervin 1954
J.R. Patten 1955
F.R. Denham 1956
A.C. Shelley 1957
W.R. Johnson 1958
T.L. Robinson 1959
R.R. Ellis 1960
W.H. Stewart 1961
J.T. McKinney 1962
C. Jensen 1963
M.K. Cohenour 1964
L.L. Von Tungeln 1965
R.L. Allsman ..... (4 months) 1966
L. Loeffler, Jr. ..... (8 months) 1966
L.E. Wickline 1967
L.C. Nettleship 1968
H.E. Rountree 1969
R.H. “Ham” Nelson ..... (1 month) 1970
L.C. Nettleship ..... (11 months) 1970
E.R. McKinney 1971
W.J. Flynn, Jr. 1972
C.D. “Bud” Miller 1973
R.E. Estep 1974
W.W. Frankfurt, III 1975
W.C. Ferguson, Sr. 1976
B.J. Vermillion 1977

R.W. Allwein 1978
C.D. Callahan 1979
Dr. F.C. McQuiston 1980
M.F. Beda 1981
W.C. Smith 1982
F.J. Mendez 1983
C.R. Crawford 1984
T.W. Burks 1985
R.F. Vermillion 1986
G.L.Wickline 1987
D.R. Grundmann 1988
C.W. Crews 1989
C.B. Darr 1990
P.M. Lodes 1991
B.H. Prasad 1992
Bill Ferguson, Jr. 1993
Stephen Pickle 1994
John Harrod 1995
Bruce Albertson 1996
Jim Taylor 1997
Glen Boyd 1998
Kevin Williams 1999
Brad Binning 2000
Mike Hughes 2001
Tim Jones 2002
Alan Loeffler 2003
Jim Irwin 2004
Shaun Sexton 2005
Harry Rountree 2006
Aruna Abhayagoonawardhana 2007
Grant Flurry 2008
Pete Ray 2009
Alejandro Garcia 2010
Bryan Garcia 2011
Dusty Stoabs 2012
David Royal 2013
Joe Sanders 2014
John Semtner 2015

EXCELLENCE IN ACTION

Following is a list of Central Oklahoma Chapter Presidents that have received the prestigious "Golden Gavel Award"

Fiscal Year	Chapter President
1967-68	Lewis Wickline
1969-70	Harry E. Rountree
1970-71**	Louis C. Nettleship
1976-77	William C. Ferguson, Sr.
1977-78	Bobbie J. Vermillion
1978-79	Robert W. Allwein
1981-82	Michael F. Beda
1982-83	Wayne C. Smith
1983-84	Florentino J. Mendez
1986-87	Richard F. Vermillion
1987-88	Gregory L. Wickline
1988-89	Diana R. Grundmann
1989-90	Charles W. Crews
1990-91	Charles B. Darr
1992-93**	B.H.Prasad
2014-15	Joseph Sanders

**#1 Chapter in the Society

ASHRAE HALL OF FAME
Society

William J. Collins, Jr.	2010

ASHRAE HALL OF FAME
Central Oklahoma Chapter

William J. Collins, Jr.	1992
Louis C. Nettleship	1993
Faye C. McQuiston	1994
Bobbie J. Vermillion	1994
Harry E. Rountree	1994
W.Wally Frankfurt	1995
Earle W. Gray	1995
F.X. Loeffler, Sr.	1995
W.C. Ferguson, Sr.	1996
Florentino J. Mendez	1996
Lewis E. Wickline	1996
Wayne C. Smith	1996
B.H. Prasad	1999
Thomas E. Determan	2000
John Harrod	2015
Mike Beda	2015

E.K. CAMPBELL AWARD OF MERIT

Faye C. McQuiston. 1986

PRESIDENTIAL MEMBER

William J. Collins, Jr. – Society President 1975-1976

FELLOWS

William J. Collins, Jr. - 1966
W. Wally Frankfurt - 1977
Harry E. Rountree - 1984
Faye C. McQuiston - 1986
Louis C. Nettleship - 1987
Florentino Mendez - 1995
Jeffery D. Spitler - 2005
Daniel E Fisher - 2009

F. PAUL ANDERSON AWARD

William J. Collins, Jr.

ANDREW BOGGS AWARD

William J. Collins, Jr.

ASHRAE ALCO MEDAL FOR DISTINGUISHED PUBLIC SERVICE AWARD

Richard F. Vermillion

DISTINGUISHED 50 YEARS SERVICE AWARD

W. Wally Frankfurt
Louis C. Nettleship
Harry E. Rountree
William J. Collins, Jr.
CD "Bud" Miller

DISTINGUISHED SERVICE AWARD

William J. Collins, Jr.
Louis C. Nettleship
Faye C. McQuiston
Harry E. Rountree
Bobbie J. Vermillion
Michael F. Beda
Jeffrey D. Spitler

REGIONAL AWARD OF MERIT

Michael F. Beda
Charles D. Callahan
William J. Collins, Jr.
Louis C. Nettleship
Faye C. McQuiston
Harry E. Rountree
Bobbie J. Vermillion
William C. Ferguson, Sr.
Wayne C. Smith
B.H. Prasad
Florentino J. Mendez
John L. Harrod
David M. Royal

SOCIETY LIFE MEMBERS "Oldest Active Member" AWARD

Louis Loeffler, Jr. 2005-2006

HONORARY MEMBERS

Emil D. Friberg
A. Damon Gowan

WILLIAM R. JOHNSON AWARD

Robert L. Haddican 1992-1993

SPECIAL PRESIDENTIAL AWARD OF EXCELLENCE CITATION

B.H. Prasad 1992-1993
Kevin D. Williams 1999-2000

WILLIAM J. COLLINS AWARD

Tom A. Willis 1992-1993

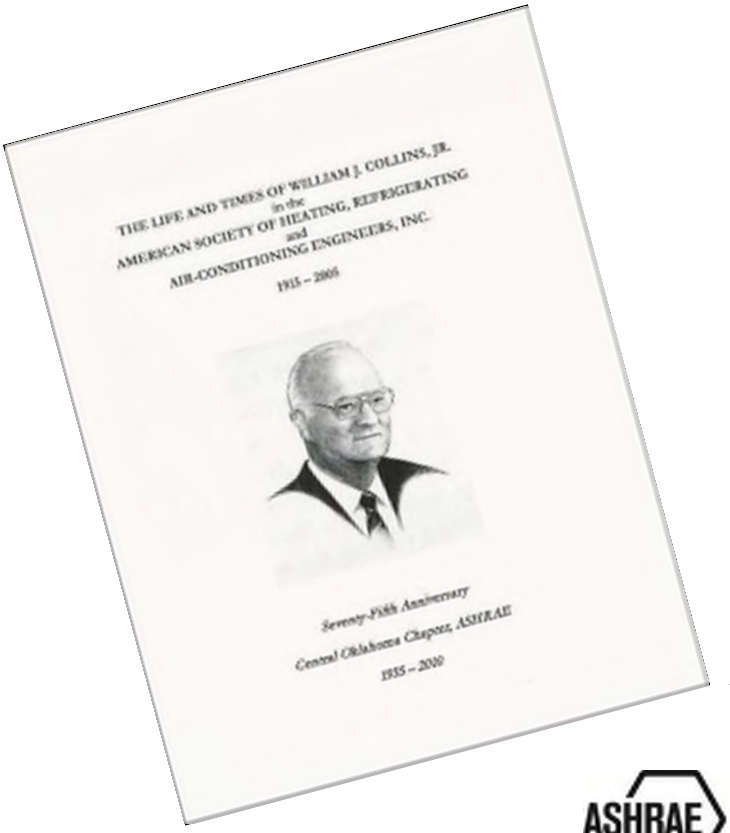
MILTON W. GARLAND AWARD

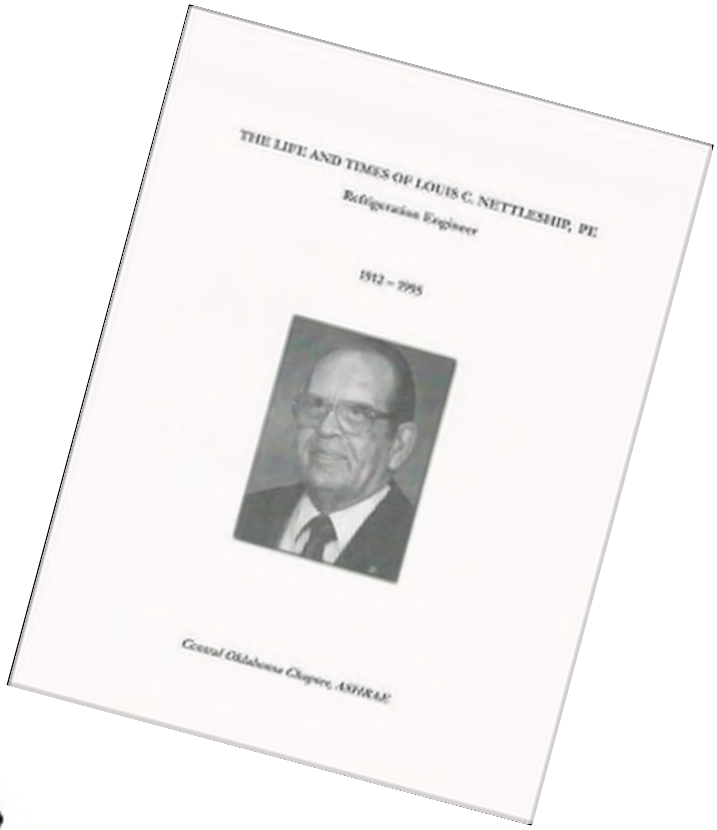
Gary W. James 1992-1993





Collect all four
Central Oklahoma Chapter
History Books





ASHRAE
Central Oklahoma
Chapter