

HISTORY

OF

THE ENGINEERS CLUB

OF

DES MOINES

April 15, 1990

FORWARD

This pamphlet is the history of the Engineering Professional Societies in Greater Des Moines. This was prepared in conjunction with the 100th anniversary of the Iowa Engineering Society in 1989 and in 1990 the 85th anniversary of the Engineers Club of Des Moines dating from its predecessor - the Des Moines Engineers Club.

In 1943 the Engineers Club of Des Moines published a history to assist in commemorating the 100 years of Des Moines as a city and the 25th anniversary of the Club founded in 1918 and the 38th anniversary dating from the original engineers club. This information has been reproduced in Appendix A and B.

The committee that assisted in preparation of the material consisted of Joe Borg, Rex Jenkins, Lyle Morse and Otto Tennant.

Much of the material has been lost and only through back issues of the Iowa Engineering Societies magazine were we able to find anything definitive. Memories of the committee were used for information and we believe the information contained is accurate.

Engineers have been supportive of the community and have done much in making the Des Moines area an excellent and safe place to live. There is much work to be done to improve Des Moines, but if improvements had not been made over the years this area would not have attracted the many new industries and commercial enterprises.

Otto A. Tennant, P.E.
Chairman, History Committee
April 15, 1990

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Engineers Club of Des Moines

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(1905 - 1917)

BEGINNING OF THE ENGINEERS CLUB OF DES MOINES

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1918

Beginning with a meeting at the Grant Club, on March 8, 1918, a new Engineers Club was organized, new officers were elected and the name changed to "Engineers Club of Des Moines". There was an opportunity to cooperate with the Chamber of Commerce, then in the Shops Building, and arrangements were made to have a table reserved for Engineers. This did not seem to last long, however, since by October 9, 1919, meetings were again held in the Grant Club.

The Constitution of the Des Moines Engineers Club was revised by a committee consisting of R.M. Kinnaird, K. C. Kastberg, Alvin Le Van, H. W. Hartupée and H. R. Sterrett, and copies were prepared for submission to both old and new members for their approval and action.

It was during this re-birth, in the year 1918, that decision was reached to hold regular meetings on the second Thursday of each month.

During these earlier years, the present club sponsored numerous conventions of the Iowa Engineering Society, and one of the American Society for Municipal Improvements and arranged exhibitors spaces, entertainment and sponsored meetings for outstanding engineer speakers. Thus the club accumulated a comfortable reserve fund.

The club took an active part in 1919 to secure passage of the Engineers License Law. (Most of the members of the club were able to become licensed under the grandfather clause of the new law.)

By November 11, 1919, the Engineers Club appointed a committee to investigate the matter of obtaining permanent quarters for the Engineers Club and Engineering organizations of the state. Their report indicated that a rental proposition would be expensive and they could see no way to pay this with their present income. They also had offers for quarters with the Chambers of Commerce, providing for a good share of our members holding membership in the Chamber. In this investigation to locate quarters, they found a shortage of rental space in the city and because of this, turned their investigation to the probabilities of building an office building of 10 to 15 stories, distinctive of the profession and naming it "Engineers Club Building". About half of the members present showed enthusiasm for such a plan.

It was in 1921 when it was decided best to dispense with club meetings during July and August and substitute a picnic and excursion trips to local factories instead. A committee was also appointed to investigate bathing beach facilities in the city and another one to study the Street Railway situation. A building code committee was active in this period. The club was affiliated with the Iowa Engineering Society and conferred an Honorary Membership on Mr. J. N. (Ding) Darling.

In the fall of 1922 the City Council ordered the Engineering Department to advertise for bids for bathing beaches at Union Park in accordance with report of the Engineers' Club Bathing Beach Committee. Bids were received September 25, contract awarded and work commenced in October, but by the following March the concrete interests succeeded in creating a demand for concrete walls and floors so the project was finally abandoned by the close of 1923. In 1928 the Club assisted in design and location of a bathing beach for the Boy Scouts' camp.

"The above taken from the 25th Anniversary book printed in 1923 by the Engineers Club of Des Moines."

Most of the original members of the club were also members of the abandoned Des Moines Engineers Club. The presidents of the Engineers Club of Des Moines came from all areas of engineering activity as well as engineering management. The presidents that served from the founding of the Club through 1929 were:

- 1918 - A.W. Lee - Chief Engineer, Des Moines Steel Co.
- 1919 - H.R. Sterret - Telephone Co. Engineer
- 1920 - K.C. Kastberg - Consultant and former City Engr.
- 1921 - F.H. Marsh - Sales Engineer Pitt/DM Steel Co.
- 1922 - Joseph Zacherle, Engineer, NW Bell Telephone Co.
- 1923 - J. B. Marsh - Consulting Engineer
- 1924 - Frank R. Hubbard - Design Engineer -Concrete & Steel
- 1925 - Thomas Rowat - Owner, Rowat Cut Stone Co.
- 1926 - Floyd A. Beaty - Chief Operating Engineer - Des Moines Electric Co.
- 1927 - W. P. Nemmers - Partner Nemmers & Clark
- 1928 - A. L. Morgan - Chief Engineer, D. M. Union Rail Co.
- 1929 - C. L. Minnis - Engineer - Des Moines Steel Co.

It is interesting to note that a large percentage of the Architects at this time also were licensed Structural Engineers and were very active in the Club. The '20s were a time of expansion for Des Moines so the meetings covered subjects relating to the infrastructure, the solution of Birds Run (Creek), improving Keo Way which was a new quick way to the northwest part of the city as well as Hubbell Avenue for the same to the northeast of the city. During this period the club

formed permanent committees such as the Civic Committee to review progress in the city to analyze the problems(once again street railway), Nominating Committee, Finance and Audit, Legislative, Library and Publications and of course Membership.

Since the engineering leaders were active in the affairs of the Club it was only logical that the majority of their associates in engineering, drafting and affiliated fields also were permitted to join the Club. The club did not have a permanent place to meet and met at many restaurants and clubs throughout the downtown area. The treasury kept growing so at this time there was further investigation of the need or desire for an "Engineering Building" in Des Moines.

During this period the state legislature mandated the Iowa Highway Commission to get the "State out of the Mud". Many techniques had to be employed to pave the highways since the commission was not allowed to use the power of eminent domain to obtain adequate right of way. Many programs covered the need for Good Roads and the methods employed to get Iowa out of the mud.

The thirties saw the following men as president of the Club.

- 1930 - R. H. Miller - District Mgr.(Sales Engineer)
General Electric Co.
- 1931 - C. C. Woodburn - Partner, Dougher, Rich and
Woodburn Architects
- 1932 - H. B. Hoffhouse - Underground Engineer - Des
Moines Electric Co.
- 1933 - Helmuth Krarup - Supt. Hawkeye Portland Cement
- 1934 - Elmer H. Borg - Partner, Brooks & Borg - Archi
tect & Engineering
- 1935 - Maurice C. Miller - Chief Engineer, Hawkeye Port-
land Cement Co.
- 1936 - Dale Maffitt - General Manager, Des Moines Water
Works
- 1937 - F. O. Laing - Polk County Engineer
- 1938 - John M. Tippee - City Engineer - Des Moines
- 1939 - T. W. Thorpe -Gen. Mgr. - Thorpe Well Co.

The Constitution and By-laws were revised May 15, 1936 to meet the new conditions of the Club and new committees were appointed--Membership; Finance and Audit; Civic; Library & Publications; Legislative and Nominating. The first two years of this decade saw little change for Des Moines and Iowa so the Club continued functioning normally. But by 1932 the world wide depression also affected Des Moines and the club kept operating on a limited basis. The Club was very proud that during this period of distress they did not have to reach into the reserves that were being held for a possible building.

In the latter thirties many projects were being advanced under the Works Progress Administration of the Federal

Government and many of the programs covered those areas such as the beautification of the Des Moines River from the Scott Street Dam to the Des Moines Electric Dam, the new sewage treatment plant for Des Moines and many other projects. In 1934 the National Society of Professional Engineers consulted five states, including Iowa, to form an organization of Professional Engineers that would cover all 48 states and to encourage the licensing of engineers. A state committee was formed to review this proposal and Maurice Miller of the Club was the Des Moines Club representative. In 1936 the committee recommended that the Iowa Engineering Society join. But the affiliate clubs evidently led by this Club asked that it be turned down since the requirement was that only P.E.'s could be new members of the Club. Existing non-P.E.s would be allowed to stay but this was not sufficient for the Club members, since the Club members wanted to attract all on the Engineering Team.

The '40s were a decade that those who were there will remember and the President's that served were:

- 1940 - Dan S. Craig - Secy.-Treas. Hoak Construction Co.
- 1941 - G. R. Van Hyning - Contract Engineer - Pittsburgh Des Moines Steel Co.
- 1942 - M. K. Tenny - Asst. General Mgr. Des Moines Water Works
- 1943 - A. H. Wieters - Engr. Public Health-State of Iowa
- 1944 - J. F. McLaughlin - Supt. of Power - Des Moines Electric Co.
- 1945 - Ralph Tuller - Engineer - United Des Moines Clay Products Co.
- 1946 - Lloyd Anderson - Works Manager - Pittsburgh Des Steel Co.
- 1947 - E. H. Behrens - Engineer - Kenneth Brown Eng. Co.
- 1948 - Leslie Forsyth - Construction Engineer, U.S. Rubber Company
- 1949 - Floyd Borgstedt - Metallurgical Consultant

In 1943 the Club prepared to celebrate its 25th Anniversary as well as the City of Des Moines Centennial and the appointed a committee consisting of Messrs. A. E. Holmes, H. W. Hartuppee, F. R. Hubbard, G. R. Van Hyning and Monroe L. Patzig. An interesting and beautiful bound book was published by the end of that year. Sufficient copies were printed that for many years each new member was issued this interesting history of the engineers and engineering clubs of Des Moines.

The early years of the 1940s showed increased industrial and construction activity as the United States became the Arsenal of Democracy and we went to war. An ordinance plant was built on the farm land south of the small town of Ankeny and many engineers moved to Des Moines to help produce ammunition for the armed forces. Most of the new graduate and student engineers had the privilege to enter the armed forces so the

Club was continued with older members and those that were in government plants in the Des Moines area. The Club grew from 69 to 96 during these years of 1942-1945. During this period most of the programs were held in various locations and the programs centered around the war effort in one way or another.

After the end of the war the Club expanded rapidly and by the end of 1949 the Club grew to 190 (increase of 94), many being GI's who had completed engineering school on the G.I. Bill and were anxious to become professionals in the engineering field.

During the later 40's the Club did meet in various locations, but started to meet in Younker's Tea Room in the downtown Younkers Department store. The Club agreed to meet on the third Tuesday of each month and attendance was excellent. Most of the time there were 60 to 80 members present at the meetings. The topics covered technical subjects and many of the presentations were by the Club's own members.

The 1950s was an era of growth for the Des Moines area and the Presidents were:

- 1950 - Monroe L. Patzig, Sr. - Owner, Patzig Laboratories
- 1951 - J. E. Borg - Partner - Brooks & Borg
- 1952 - Carroll L. Johnson - Partner, Ringland, Johnson and Contractor, Inc.
- 1953 - Monroe L. Patzig, Jr. - President, Patzig Laboratories
- 1954 - F. E. Baird - Transmission Engr. - NW Bell Telephone
- 1955 - Joseph J. Dean - Partner - Delavan Engr. Co.
- 1956 - Jack A. Sayre - Vice Pres. - Iowa Power & Light
- 1957 - A. S. Decker - Const. Supt. - Des Moines Water Works
- 1958 - Francis L. Kline - Engineer - Iowa Power & Light
- 1959 - Bruce Paterson - Sales Mgr. - Goodwin Companies

The first years of 1950 saw some of the engineers entering or reentering the service during the Korean conflict. While there was much production to support the war effort only a limited number of men from the Des Moines area served in the armed forces. The meeting attendance stayed high and the membership grew in these years. The average membership was near 230. The early years of the decade saw a concerted push by the Club as well as the Technical Societies for the engineer to become registered. Approximately 40 of the membership became registered - primarily in the industrial and utility area which by Iowa law did not require registration.

In 1951 with the election of Joe Borg as President the Club saw its first father/son team. Two years later with the elevation of Monroe L. Patzig Jr. to President the Club saw its second father/son team.

In 1956 the Iowa Engineering Society joined the National Society of Professional Engineers and at this same time IES officially allowed its Affiliate Clubs to become members of the Board. The Club was entitled to 3 members as it was the largest in the state.

The latter part of the decade saw the introduction of the annual Christmas party with spouses and friends invited. These were very well attended and the spouses of the engineers looked forward to this event each year. The Christmas party still is held each year.

The program format became fairly standard with the first and last meeting of the year a field trip to one of the many new as well as modernized plants in the Greater Des Moines area.

The start of the Interstate program was a topic for programs much of the late 50s. The City of Des Moines' Urban Renewal on the west and east side of the Des Moines River from Grand to University also created many interesting programs.

April 1955 Joseph Dean, President, planned the 50th anniversary of the Club with a gala formal dinner and dance at the Hotel Savery. While the Club used the date of the predecessor club of Feb. 8, 1905 as the founding they celebrated in April since the program committee determined that the first formal meeting of the Des Moines Engineers Club was April 1905. The members and spouses remember this meeting as the highlight of the decade.

The Presidents elected for the Sixties were:

- 1960 - Lloyd Houvenagle - Sales Mgr. - Elec. Eng. & Eqpm. Co.
- 1961 - Rex Jenkins - Plant Engr. - Armstrong Tire & Rubber Co.
- 1962 - John Hart - Engineer - Brooks, Borg & Skiles
- 1963 - Larry Hanel - Gas Engr. - Iowa Power & Light Co.
- 1964 - Guy G. Zarley - Sales Engr. - D.M. Clay - Goodwin Companies
- 1965 - Otto A. Tennant - Sales Engr. - Westinghouse Elec.
- 1966 - Laverne E. Stewart - Engr. - Waldinger Corp.
- 1967 - Donald A. Zarley - Patent Lawyer & Engr.
- 1968 - C. W. Vanderlinden, Jr. - Structural Engr. - Vanderlinden & Dennis
- 1969 - Mike Vincent - Gas Engr. - Iowa Power & Light Co.

When Donald Zarley was elected to the Presidency of the Club it was the first time brothers had been elected to this position.

January 1961 the Club revised its Constitution so the fees and dues would be current with the rising prices. The entrance fee was \$5.00 and dues \$5.00 per year. The grades of membership were Member - a P.E. or an engineer or architect with

six years experience; Associate - E.I.T. or an engineer or architect with less than six years experience; Affiliate - one with an interest in engineering; Life - 30 years with paid up dues and Honorary. All standing committees remained the same.

The early years of the sixties saw the continuation of the excellent meetings and growth of the Club. All meetings were held on the second Thursday of each month at Younker's Tea Room in downtown Des Moines. Many meetings saw well over one hundred members attending. Since the managers and owners of design firms and the officers of many of the industrial, commercial and utility companies came to the meetings it helped the attendance.

In 1964 the National Society of Professional Engineers passed a resolution that ultimately affected the Club. NSPE changed its Constitution and By laws stating the society would be a grass roots society consisting of three levels of government local(a Chapter), State(with representation from each jurisdiction - 53 at the time), and National.

In 1960 Joe Dean, Executive Director of IES, reported to the Club that the IES Board requested two Affiliate Clubs to become Chapters. No action was taken since the Club did not like the By laws of NSPE that only registered members could be a member at any level. There was a grandfather clause that protected non-registered members, but no new non-registered members could join even though graduates of an accredited school.

In 1964 the IES board changed the By laws requiring all Affiliate Clubs to become Chapters and changing their Constitution and By-laws to meet the conditions mentioned. They also stated that if the Club did not wish to become a Chapter the Clubs and Chapters Committee of IES should organize a Chapter in the area that the Affiliate Club existed. The proposal was mailed to the Club members in the fall of the year.

The executive committee of the Club set January 14, 1965 as the time for a meeting and possible Constitutional change. The interest was so high the meeting was transferred to the auditorium of the Iowa Power & Light Co. At this meeting Mr. Merlin J. (Hap) Hillman presented a petition of approximately 80 members who could not attend the meeting. The existing president, Otto Tennant, asked the membership attending to vote on whether to allow the petition or not, since a petition submitted by members not attending the meeting was not covered in the Club's Constitution or By-laws.

The membership overwhelmingly voted to allow the petition and when the final vote came the proposal to become a Chapter of IES was rejected three to one. The tone of the meeting could be summed up by a resolution of the members - "The Engineers Club of Des Moines will not tell the Iowa Engineering Society what to do and the Iowa Engineering Society should not tell the

Engineers Club of Des Moines what to do".

In the latter sixties the Science Center of Des Moines was being constructed in Greenwood Park and was in need of money. The membership of the Club had husbanded its reserve with the hope that some day they would be able to build an "Engineers Building". Inflation had affected building costs to such a degree that the reserve was now wholly inadequate. The Club agreed to give a major portion of its reserve to the Science Center.

The programs for the sixties related to the Red Rock dam, the Saylorville dam, further urban renewal, problems of the infrastructure in Greater Des Moines area and the perennial problem - the Des Moines Transit System. The attendance during this period slowly dropped to where the average attendance was thirty to forty.

During the period when the Club was an corresponding Club or Affiliate (1909 - 1964) the members of the Club honored by IES were:

John Dunlap-Sherman Woodward Award

1959 - Joseph M. Dean
1963 - Donald B. Zarley

Anson Marston Award

1941 - Orville W. Crowley
1942 - Maurice C. Miller
1948 - A. F. Faul
1952 - William P. Nemmers
1954 - Lloyd E. Anderson
1955 - Thomas W. Thorpe
1956 - L. E. Slade
1962 - H. Robert Veenstra
1964 - Joseph M. Dean

In addition, during this same period the following members of the Club served on the Iowa State Board of Engineering and Land Surveying Examiners.

K. C. Kastberg	July 1, 1919 - July 1, 1923
Alvan Le Van	July 1, 1919 - Dec. 17, 1923
H. W. Hartepee	Apr. 28, 1924 - July 1, 1929
Wm. P. Nemmers	July 1, 1929 - July 1, 1937
Maurice C. Miller	July 1, 1937 - June 30, 1949
E. H. Borg	July 1, 1953 - June 30, 1957
Joseph M. Dean	Dec. 29, 1954 - June 30, 1965
Harold W. Johnson	July 1, 1965 - June 30, 1969

The decade of the seventies saw turbulent times not only in military problems, but also with inflation and shortage of some fuels. These Presidents ably carried the Club through

these times.

1970 - Leo V. Duffy - Engr. - NW Bell Telephone
1971 - James W. Wilson - Consultant - Structural Engineering
1972 - Ronald L. Roth - Structural Engineer
1973 - Willard Kaldenberg - (retired) Plant Mech. Engr. Iowa
Power & Light Co.
1974 - Donard A. Crawford - Owner - D. A. Crawford & Assoc.
1975 - R. L. Vawter, Jr. - Fane V. Vawter & Assoc.
1976 - Keith E. Shirk - Structural Engr. - Tinsley,
Higgins, Lighter & Lyon
1977 - Donald R. Hagge - Mech. Engr. - Meredith Corp.
1978 - Harry L. Allender - Partner - Patzig Laboratories
1979 - Donald A. Jacobs - Engr. - Environmental Engineering

The Club met regularly on the second Thursday in this decade, but in 1972 Younker's closed their Tea Room for evening meetings and the Club met in various locations throughout the city. The early years of this period saw the nation and the local area deal with the so-called energy shortage. This changed many engineers life-style and there was a further decline in those who attended the monthly meetings. Subjects for the meetings included the energy crises and options, new government regulations for environmental concerns and other regulations that directly affected the engineer in his designs and also in his operation.

While there were more engineers in the area the newer graduates and licensed engineers were not interested in joining either the Club or the Chapter. The Club found it necessary to again modify its Constitution and By-laws. They were amended to officially approve of the Engineering Team and the standing committees were reduced to Program, Entertainment, Scholarship and Hospitality.

The Club held joint Christmas parties until 1978 when the Central Iowa Chapter decided not to cooperate in this activity. The Club still holds the annual Christmas party.

The present decade saw the following members elected to the Presidency of the Club.

1980-1981 - Chester G. Cole - Armstrong Tire & Rubber Co.
1981-1982 - Michael C. Faber - NW Bell Telephone
1982-1983 - Lyle Morse - Owner - Morse Equipment Co.
1983-1984 - Jerry Anderson - Partner - Wolin & Assoc.
1984-1985 - Don Bonicamp - Owner - Bonicamp & Co.
1985-1986 - Ted Hradek - Engineer - Veterans Hospital
1986-1987 - Dave Little - Supt - Ruan Building Corp.
1987-1988 - Dwight Herkelman - Bldg. Eng. - Ruan Bldg Corp.
1988-1989 - Bob Sayler (retired) - Engr. - Massey-Ferguson
1989-1990 - O.D. Hawkins (retired) - Engr. - General Elec.
1990-1991 - John Merkel (retired) - Wolin & Associates

The eighties were hard times for the state of Iowa.

Even in Iowa there were bright spots such as Cedar Rapids, Des Moines and Council Bluffs/Omaha. There the areas growth paralleled the rest of the country. However, the demand for engineers and technicians dropped. Since the engineers had to find jobs in other areas the Club lost membership.

The Club now consists of approximately 67 members with the average meeting attendance between 15 to 25. Considering this is 37% of the membership it indicates the members enjoy the fellowship and programs. Programs dealt with the rebuilding of the downtown area, new office parks in the suburbs, expansion to the Metro Waste Disposal plant and plans for the Metro Solid Waste Landfill.

At this writing (1990) the Club is actively soliciting new members from the Engineering Team as they wish the Club to continue and grow and to build on its proud past. The members of the Club are positive in their view that Greater Des Moines must have two Professional Engineering Clubs. The Engineers Club of Des Moines has always received its strength from the Engineering Team approach. Architects, Graduate Engineers, Licensed Engineers, Technologists, Technicians and Suppliers meeting together Engineering Team can be effective in serving the public.

CONSTITUTION AND BY-LAWS

All organizations require rules to live by. When the first club in Des Moines was organized -The Des Moines Engineers Club - their first action was to appoint a committee to draw up the Constitution and By-laws. At their next meeting the minutes show they felt they had to make major changes in the By-laws and after that the next order of business was to determine the dues structure - \$1.00 to join, \$1.00 per year dues and \$0.25 fine for not attending meetings.

When the Engineers Club of Des Moines was founded in 1919 they once again established a committee to write a Constitution and By-laws. During the period of time the Club was a corresponding member and an Affiliate Club of the Iowa Engineering Society the Club found it was necessary to revise the Constitution and By-laws to conform. However, the most serious change during these times, when after World War II they had to revise the dues structure to keep up with the increased costs of mailing.

Changing times and changing ideas cause changes in the Constitution and By-laws. During one period of its existence the Club insisted that all offices have two persons competing for the position. It seemed logical, but with a volunteer organization it was no longer practical so the change was made using a nominating committee.

In recent years the biggest change has been to reduce the number of committees. Our constitution is plain, but is

effective for our Club and has served the Club well.

ETHICS AND THE ENGINEERS CLUB OF DES MOINES

All segments of our modern society require rules to live and work by. The engineering profession is no different and all of the myriad of Engineering Societies - Technical and Professional Societies - have developed their own rules of conduct, codes and similar words to cover "Ethics".

Until 1917 the minutes of the early Des Moines Engineers Club did not refer to ethics. The editor would like to believe that back then engineers and land surveyors worked on the premise that engineer's word was his bond and there was no need to discuss ethics. In 1917 the Iowa Engineering Society approved a Code of Ethics and set up a Ethics Committee to review any complaints of its members. Many of the members of the Engineers Club of Des Moines have served on that committee. During the years the Club was an Affiliate of IES the Code was changed many times. Interesting to note that while there is mention of the Code there appears to be no record of the Code in any of the engineering publications.

We all know that there really is no need for the Code if all men would live by the Golden Rule. However, men know this is not practical so they write pages and pages of Ethical Conduct to explain in detail what the Golden Rule means in our profession of engineering. Most of all the Technical and Professional Codes of Ethics can be summed up in the Golden Rule as we stated before of the Engineer's Creed.

ENGINEERS CREED

As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare.

I PLEDGE:

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the laws of man and the highest standards of professional conduct;

To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all considerations.

In humility and with need for Divine Guidance I make this pledge.

MEMBERS OF THE ENGINEERING CLUB OF DES MOINES

WHO HELD OFFICE IN THE IOWA ENGINEERING SOCIETY FROM 1919 THROUGH 1963

The State of Iowa authorized in 1919 the creation of a State Board of Engineering Examiners. This law required registration of all engineers where it would affect the health, safety and welfare of the public with an exemption for engineers in industry and the Federal Government. As part of the initial act there was a "Grandfather Clause" that covered those practicing engineering at that time. Most practicing engineers in the Des Moines area became registered under that clause as well as the majority of the Architects in structural engineering. This registration gave impetus to the new Club founded in 1919 and these same members were also active in the Iowa Engineering Society founded in 1889.

The officers from the club have been

1920 Director	Monroe L Patzig, Sr.	Patzig Laboratories
1921 Vice Pres	Alvin Le Van	Canfield Engr. Co.
Secy Treas	Lloyd A. Canfield	Canfield Engr. Co.
1922 Secy Treas	Lloyd A. Canfield	Canfield Engr. Co.
1923 President	Lloyd A. Canfield	Canfield Engr. Co.
Secy Treas	Lloyd A. Canfield	Canfield Engr. Co.
1925 Director	Wm. P. Nemmers	Nemmers & Clark
1927 President	Monroe L. Patzig, Sr.	Patzig Laboratories
Director	Joseph Zacherle	Iowa Telephone
1928 Director	Monroe L. Patzig, Sr.	Patzig Laboratories
1929 Director	C. Moriarty	U. S. Fidelity & Guarantee
1930 Vice Pres	C. Moriarty	U. S. Fidelity & Guarantee
1931 Director	Monroe L. Patzig, Sr.	Patzig Laboratories
1932 Director	Monroe L. Patzig, Sr.	Patzig Laboratories
1933 Director	J. M. Tippee	City Engr. Des Moines
1934 President	C. Moriarty	U. S. Fidelity & Guarantee
Director	Monroe L. Patzig, Jr.	Patzig Laboratories
1935 Director	C. Moriarty	U. S. Fidelity & Guarantee
1938 Vice Pres	O. W. Crowley	Assoc. Gen. Contractors
1939 Managing Director	L.L.Flint(part time)	Iowa Engr. Society
1940 Managing Director	L.L.Flint(part time)	Iowa Engr. Society

1941	Vice Pres	E. W. Thorson	Portland Cement Assoc.
	Director	Maurice C. Miller	Hawkeye Portland Cement
	Mng. Dir	L.L. Flint(part time)	Iowa Engr. Society
1942	President	Maurice C. Miller	Hawkeye Portland Cement
	Director	Frank Laing	Polk Co. Courthouse
	Secy.	L. L. Flint	Iowa Engr. Society
	Treas.	A. F. Faul	Iowa Highway Commission
1943	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Co.
	Directors	Frank Laing	Polk Co. Courthouse
		Maurice C. Miller	Hawkeye Portland Cement
1944	Vice Pres	A. H. Wieters	Dept Health-State of IA
	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Engr.
	Directors	Maurice C. Miller	Hawkeye Portland Cement
		Frank Laing	Polk Co. Courthouse
1945	President	A. H. Wieters	Dept Health-State of IA
	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Engr.
1946	Vice Pres	Wm. P. Nemmers	Nemmers & Clark
	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Engr.
	Director	A. H. Wieters	Dept Health-State of IA
1947	Pres Elect	Wm. P. Nemmers	Nemmers & Clark
	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Engr.
1948	President	Wm. P. Nemmers	Nemmers & Clark
	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	E. F. Behrens	Kenneth R. Brown Engr.
1949	Pres Elect	E. F. Behrens	Kenneth R. Brown Engr.
	Secy Treas	A. F. Faul	Iowa Highway Commission
	Director	Wm. P. Nemmers	Nemmers & Clark
1950	President	E. F. Behrens	Kenneth R. Brown Engr.
	Secy Treas	A. F. Faul	Iowa Highway Commission
	Director	Wm. P. Nemmers	Nemmers & Clark
1951	President	A. F. Faul	Iowa Highway Commission
	Secy Treas	Ralph W. Tuller	United DM Clay Products
1952	Secy Treas	Ralph W. Tuller	United DM Clay Products
1953	Vice Pres	Ralph W. Tuller	United DM Clay Products
1956	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	Jack A. Sayre	Iowa Power & Light Co.
1957	Secy.	A. F. Faul	Iowa Highway Commission
	Treas.	Jack A. Sayre	Iowa Power & Light Co.
1958	Pres Elect	Jack A. Sayre	Iowa Power & Light Co.
1959	President	Jack A. Sayre	Iowa Power & Light Co.
	Secy.	Carroll E. Worlan	Iowa Power & Light Co.
	Treas.	R. Wayne Lyon	Tinsley, Higgins,
			Lighter & Lyon
	Director	Joseph E. Borg	Brooks, Borg &
			Skiles
1960	Secy.	Carroll E. Worlan	Iowa Power & Light Co.
	Treas.	William G. Bester	Portland Cement Assoc.
	Director	Jack A. Sayre	Iowa Power & Light Co.
	Exec Dir	Noel E. Tweet	Iowa Engineering Soc.

1961 Secy Treas	Carroll E. Worlan	Iowa Power & Light Co.
Director	Jack A. Sayre	Iowa Power & Light Co.
Exec Dir	Noel E. Tweet	Iowa Engineering Soc.
1962 Treas.	Carroll E. Worlan	Iowa Power & Light Co.
Exec Dir	Noel E. Tweet	Iowa Engineering Soc.
1963 Secy.	Don P. Shafer	Keith Electric Co.
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1964 Secy.	Don P. Shafer	Keith Electric Co.
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1965 Secy.	Don P. Shafer	Keith Electric Co.
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1966 Treas.	Don P. Shafer	Keith Electric Co.
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1967 Treas.	Charles R. Barnes	McKlveen & Carney
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1968 Treas.	Charles R. Barnes	McKlveen & Carney
Exec Dir	Joseph M. Dean	Iowa Engineering Soc.
1969 Treas(6 mos)	Otto A. Tennant	Iowa Power & Light Co.
Secy. Asst	Don P. Shafer	Keith Electric Co.
Treas.		
1970 Vice Pres	Don P. Shafer	Keith Electric Co.
Asst Treas.		
Secy.	Otto A. Tennant	Iowa Power & Light Co.
1971 Pres Elect	Otto A. Tennant	Iowa Power & Light Co.
Vice Pres	Don P. Shafer	Keith Electric Co.
Asst Treas.		
1972 President	Otto A. Tennant	Iowa Power & Light Co.
1976 Vice Pres	Leo V. Duffy	Northwestern Bell Tel
1977 Vice Pres	Leo V. Duffy	Northwestern Bell Tel
1978 Vice Pres	Leo V. Duffy	Northwestern Bell Tel

APPENDIX A

THE PIONEER ENGINEERS

OF

DES MOINES, IOWA

**DES MOINES ONE HUNDRED YEARS
AGO AND NOW**

(From the 1943 25th Anniversary Booklet
of the Engineers Club of Des Moines)

It is hard to believe that only one hundred years ago the hills of this now peaceful Capital City of the State of Iowa echoed to the war-cries of savage Indians.

According to Johnson Brigham's History of Des Moines, "in 1841, two years before the founding of Fort Des Moines, a party of Sioux surprised a hunting camp of 24 Delawares in the bottom lands of the Racoon River, and only one survived to tell the tale.

"The survivor fled to "the forks", swam the Des Moines River and appeared before the astonished Pash-e-pa-ho, a veteran chief of the Sacs, who with a party of his warriors was encamped near the present site of the Capitol.

"Not withstanding his eighty years, 'The Stabber', thirsting for revenge, mounted his pony and made the circuit of his tribe and their allies, the Fox.

"Led by their chief, five hundred braves followed the trail of the retreating Sioux for more than a hundred miles. Finally, overtaking the enemy, with a fierce war-cry, they charged upon the camp.

"A sanguinary battle ensued, lasting several hours. The defeat of the invaders was overwhelming. It is reported that while the Sacs and Foxes lost but seven, the retreating Sioux left more than three hundred on the field."

On May 20, 1843, Captain Allen and his company of soldiers arrived at the fork of the two rivers, Racoon and the Des Moines, and erected Fort Des Moines, from which grew the present city of Des Moines, capital of the state.

The first commercial enterprise was started that year when Robert A. Kinzie, the post trader, built a combined store and dwelling, at or near the present corner of Third Street and Court Avenue, long the trade center of Fort Des Moines.

Also in the same year, 1843, one J.B. Scott, a contractor for food and supplies, was given a permit "to open and cultivate a farm in the Indian country", he to enjoy the use of the land until the expiration of the treaty with the Indians in 1846. He chose a site on the East bank of the Des

Moines river.

The Ewing brothers were given trading permits and a claim to a half section north of the Scott farm. The Ewing structure was the first dwelling built in East Des Moines.

Fifty years later, in 1893, Des Moines had become the City of Des Moines, with a population of about 60,000. It had just come out of the mud and boasted fifty miles of pavement in its 54 square mile area. The business houses of that time were mostly retail and wholesale establishments; factories were just getting started.

Some of our present Insurance Companies were well on their way to greatness. Des Moines at present is known as the Insurance Center of the West, with a premium income of over One Hundred Seventeen Million Dollars annually. They alone now employ more "females" than the whole city employed in 1893.

Manufacturing, limited to but a few concerns fifty years ago, now employs over thirty thousand people with an annual payroll of over forty-eight million dollars. Its products are known and used throughout the world and range from hair tonic to threshing machines.

Located as it is in the geographical center of Iowa, a State of outstanding agricultural wealth, where one-tenth of all the food consumed in the nation is produced, with nineteen railroad lines radiating out in every direction, and ten primary roads connecting it with every corner of the State, it has naturally become the trade center of the State. Where fifty years ago seven hundred and two salesmen worked out of Des Moines, thousands of "knights of the grip" now bring in wholesale orders amounting to over One Hundred Million Dollars annually.

Greater Des Moines today has a population of over 190,000; is one of the largest publishing centers in the West and leads the nation in home ownership. Drake University founded in 1881, being its largest Educational institution.

No article about present-day Des Moines, would be complete without mentioning the "Fort". Drums are again rolling, bands playing, flags waving and troops marching. They aren't Indian fighters now, but WACS, thousands strong. Fort Des Moines became the first training camp for the WACS and is known far and wide as the WAC West Point.

What the next hundred years will bring no one knows, but we predict that Des Moines will continue its steady growth.

A RESUME OF DES MOINES ENGINEERS

This article taken from the 25th Anniversary Booklet of the Engineers Club of Des Moines honoring the Centennial of Des Moines (1943) indicates the intense activity of engineers before and during the years of World War I.)

INTRODUCTORY

Although a thorough review of engineers who have made their homes in Des Moines and their outstanding achievements would be most interesting, if not valuable, it is impossible to prepare such a resume for this publication. Much more material must be collected from individual members of our profession, especially those having had long and varied experience in our community, and such material would require careful thought and editing.

The following is prepared from contributions made by Messrs. A.E. Holmes, H.W. Hartupée, F.R. Hubbard, F.R. Van Hyning and Monroe L. Patzig. Apologies are made for the omission of any prominent names and outstanding achievements, with the belief that the following reminders will add to the information contained in this publication.

CITY ENGINEERS

Soon after Fort Des Moines was established at the juncture of the Des Moines and Raccoon rivers on May 20, 1843 to protect the Indians from the white man, there appeared an engineer and surveyor by the name of A.D. Jones. Mr. Jones was elected surveyor in Polk County and he proceeded to lay out the original Town of Des Moines and made a plat of the same in 1846.

Following this early beginning, Des Moines grew rapidly and in 1853 the first City Engineer, Mr. J.A. Miller was elected -only seven years after the first regular city plat was filed. Evidently there was a need for a city engineer but a short time, for in 1854 there was vacancy. However, in 1855, Mr. J.N. Dewey was elected and the office has been regularly filled since that time.

The next Engineer and Surveyor was B. Callan, elected in 1857. Mr. Callan has left a valuable plat book record and his works shows that he was well qualified and an unusually good draftsman for the position. We often refer to his plats for information.

In 1858 the office was held by Mr. J.C. Booth and in

latter made some plats also referred to occasionally.

Many city plats were being made and it has been noted that Mr. Frank Pelton in 1872, probably filed more plats and surveys than any other surveyor during his term of office. He also made the second City Engineer's report. Following him was B. Schreiner, a very capable engineer and surveyor in 1884. Besides leaving very food field notes, Mr. Schreiner made the first large city wall map of all additions. In 1886 Charles Bennett was elected. He had also been connected with the office before and had made the first City Engineer's report prior to Mr. Pelton.

In 1890. 1891 and 1892 the office was held by M.M. Cares; M.R. Laird and Mr. James Carss. Prior to being City Engineer they had been in Railroad Engineering during its active period. Mr. James Carss was serving the city as an efficient inspector at the age of 90 years, an unusual record.

Mr. Lafayette Higgins became City Engineer in 1896, often referred to as Professor Higgins, because of his teaching at West High School. Professor Higgins was a well trained Civil Engineer and left a very valuable record in a City Engineer's Report which has been referred to may times by succeeding Engineers through the years.

The above is a brief summary of City Engineers now deceased, all of whom left some valuable records.

The Ex-city Engineers still living (1943) are: Mr. John Budd, now Commissioner of Streets and Public Improvements; Mr. Fred Carss; Mr. George Dobson, U.S. River Commissioner - Locks and Dams; Karl Kastberg, George M. King and John M. Tippee, our present City Engineer.

Some Assistant City Engineers were: L.H. Stone, early trained in the East, coming west as a railway locating engineer in North Iowa; George W. Miller, Civil Engineer later a contractor; James Burrows, Civil Engineer, later a paving contractor and Karl Katsberg, with early experience on railway location construction, municipal and private work and City Engineer of Boone and Newton, Iowa.

ENGINEERING OFFICES IN DES MOINES

Among the Engineering Concerns we find listed are:

1885	Finkbine & Wright	Engineers in State House Construction
1896	Crellin & Lovell	Jackson & Moss
	W. Dickinson	M.R. Laird

1901	J.W. Budd	James Carss	J.B. Marsh
	D.M. Engr. Bureau	A.L. Morgan	M. Stark & Co.
	L. Higgins	L.H. Stone	J.W. Turner
	King & Lambert	K.C. Kastberg	James Wilson
	T.P. Lawler	B. Schreiner	

Later in the 1900s, appear the following Engineering Concerns:

Cols.. G.A. & A.E. Eberhardt	Budd & Moughmer
DM Engr. Co. (L. Hites and C.E. Martin)	
G.B. Wicks	T.L. Blank
Canfield Engr. Co.	Lafayette Higgins, Jr.
John Burriss	B. Shivers
Monarch Engr. & Inspection Co. (now Patzig Laboratories)	
Price & McCormack	

STRUCTURAL ENGINEERS OR ARCHITECTS

Mention should be made of the engineers responsible for the construction of our better buildings and bridges, both of structural steel and concrete--some of them real pioneers in their line. Thirty-five years ago reinforced concrete was only in the early stages of development. These men were also architects of no mean ability, able to design and follow through the construction including plumbing and heating, and complete mechanical equipment.

Nat Stark - Bridge Builder
 Barney Marsh - Bridge Designer and Builder
 J.S. Carpenter - Bridge Builder
 Geo. E. King - Pioneer Bridge Builder
 P.S. Munk Pedersen - Engineer & Builder
 Norman T. Vorse - Architect, Mech. & Structural Engr.
 Alvin Le Van - Designing and Consulting Engineer
 Lloyd A. Canfield - Designing and Consulting Engr.
 Harry A. Chesebro - Structural Engineer
 Geo. W. Newell - Structural Engineer
 C.C. McCormick - Early reinforced concrete design
 Elmer H. Borg - Mech. Engineer & Architect
 Harry W. Hartupee - Structural Engr., Designer & Architect
 Harry Starr - Engineer, Design & Construct in concrete
 Frank R. Hubbard - Design & Consulting Engr. Concrete and Steel
 J.B. Sutherland - Design & Construction Engr. Concrete
 Henry F. Liebbe - Architect - State Board of Control
 Mr. Liebbe held this position for many years. He developed the type of building now used in many of our state institutions. He was succeeded by his son, Henry J. Liebbe, Architect, who ably carried on the state work as left by his father.

These are all construction men and builders who have left in Des Moines, and through out the state, as well as in other states, monumental structures that will long stand to their credit. This list by no means covers the men responsible for the good buildings erected in this section of the country during their time but names only a few who had a worthwhile part.

Since this work is especially referring to Engineers, many of the best Architects with whom these Engineers worked are not mentioned. (Editors note: Neither did the booklet mention those Architects who were also licensed in Structural Engineering.) Neither are the Contractors mentioned, although they shared a very large part of the responsibility.

UTILITY ENGINEERS

Other prominent engineers of the City were connected with our utilities, such as the Gas Company, Telephone Company, Water Works, with the Cement Industry and in the teaching profession. Some of them were active in Engineering Club affairs.

Those connected with the Gas Company included;
G.I. Vincent, H.R. Sterret and Janses Haines

Those with the Telephone Company were:
L.F. Holmes, Geo. F. Herzer, H.H. Carl, R.W. Rulison
Joseph Sacherle.

Mr. Sacherle's very active interest in the Engineers Club will long be remembered by its members. He was Chairman of our last picnic, as well as Chairman of the Committee appointed to prepare this Club Roster. Within a week following our picnic he suffered a stroke, from which he never recovered.

Mr. R.N. Kinnaird of the Water Works was an active Club member prior to 1920. Dale Maffitt and M.K. Tenny, present members, are with the present Water Works.

ENGINEER INSTRUCTORS

M.I. Evinger came here from Iowa State College (Ames), where he had been an instructor in Hydraulic and Sanitary Engineering for nine years. Messrs. Geo. Wilcox and Dean Miller were Club members during their teaching positions with the Des Moines University. Our long faithful member, Lafe Higgins, now deceased was also a well known teacher of Chemistry and Physics at West High School.

INDUSTRIAL ENGINEERS

Our local Cement industry provided us with at least two outstanding Engineers. Mr. Edwin Struckman and Helmuth Krarup. After years of service with the Hawkeye and Pyramid Companies, as well as plants in Denmark, New York and Kansas, Mr. Struckman moved to Kansas City, where he died a few years ago. Mr. Krarup's long service with the Hawkeye Portland Cement Company, and interest in the Engineers Club, is well remembered and his departure on retirement to California was the occasion for a well attended farewell dinner part. Mr. Boberg was one of our earlier Cement mill chemists. Mr. James V. Mandia and Mr. Martin L. Silcos now hold similar positions in the Cement industry. R.A. Bechdtold, Supt. of Penn-Dixie Cement Corporation, was active in our Club until a few years ago.

The engineering profession has had its full share in the industrial development of Des Moines. In the year 1893 the Des Moines Bridge & Iron Company, whose name was later changed to Pittsburgh-Des Moines Steel Company, was organized as an engineering and contracting firm with E.W. Crellin as President; W.H. Jackson as Vice President and B.M. Moss as Secretary-Treasurer. Early Chief Engineers of this company were R.T. Hartman, F.R. Hubbard, E.M. Manhard and A.W. Lee.

In 1907 a Pittsburgh plant was built and three years later the executives moved there and George A. Smith became Des Moines Plant Manager, followed by Amos C. Pearsall in 1922. Fred H. Marsh acted as sales engineer for a number of years.

In 1913 J.E. Van Liew left the above company as production manager and in 1914 he organized the Des Moines Steel Company, acting as President and General Manager. He was later joined by Stewart Witmer as Bridge Engineer and A.W. Lee as Chief Engineer.

In 1910 Geo. W. Newell organized the Des Moines Structural Iron Company, - it later becoming the Des Moines Stair Company.

In 1911 S.E. Anderson organized the New Monarch Machine & Stamping Company, acting as President and Manager. His son, Frank D. Anderson, is now acting Executive Vice President.

ENGINEERING CONTRACTORS

Among one of the early engineers of Des Moines who engaged in contracting work was H.H. Decker, who was graduated from Rensselaer Polytechnic Institute in 1897, and was with the C. & N.W. Railway for 15 years as location, division and maintenance engineer on the line between Clinton and Council Bluffs. He then joined the Koss Construction Company in 1914 as Chief Engineer in Highway and Bridge Construction for 19 years,

retiring in 1933.

Geo. W. Miller followed his early engineering experience with the City by extensive building bridges throughout the United States and maintained his headquarters in Waterloo, Iowa until his death a few years ago.

Other engineers who engaged in contracting were James M. Burrows, identified with the Des Moines Asphalt Paving Co.; J.B. O'Rourke of the O'Rourke Construction Co.; Charles W. Wagner of the Wagner Construction Co., and later the Capital Construction Co. and Dan S. Craig now connected with the Hoak Construction Co.

RAILROAD ENGINEERS

Among the early railroad engineers in the locality was Frank Cummings, who was chief engineer of the Des Moines City Railway and Interurban Railway at the time the interurban electric lines were being built in Central Iowa. Mr. Cummings was succeeded in 1916 by W. L. Wilson who holds the position at the present time. Mr. Wm. Wilson was born in Springfield, Ill., and spent most of his time in electric railway work around Chicago before coming to Des Moines.

Another early engineer engaged in the field of electrical engineering is Kirk J. Kieth from 1888 to the present time. His early work was in Joliet, Ill., and he came to Des Moines in 1913, and has continued to the present time with the Des Moines Railway Company.

An early figure identified with railroad engineering is Avery L. Morgan, for many years chief Engineer of the Des Moines and Western Railway and the Des Moines Union Railway.

IOWA ENGINEERING SOCIETY

The pioneer engineers of the last century and the early years of this century were interested in the state association that would allow them to meet and discuss professional engineering problems as they affected the various professional technical disciplines. The Iowa Engineering Society was founded January 1889 from the nucleus of two previous state organizations. From 1891 to 1904 these engineers served the State Society in the following capacities.

1891 - Director	M. R. Laird	City Engr. - Des Moines
1893 - Director	L. Higgins	Consultant and Professor
1895 - President	L. Higgins	Consultant and Professor
1896 - President	L. Higgins	Consultant and Professor
1898 - Vice Pres	B. Schreiner	Consulting Engineer
1900 - Vice Pres	Lowell H. Stone	Consulting Engineer

1903	- Vice Pres	J. B. Marsh	Consulting Engineer
	Secy Treas	W. H. Jackson	Jackson & Moss
1904	- Vice Pres	James W. Budd	Consulting Engineer

APPENDIX B

HISTORY OF THE

DES MOINES ENGINEERS CLUB

PREDECESSOR ENGINEERING GROUP IN DES MOINES

DES MOINES ENGINEERS CLUB

1905 - 1917

The first group of engineers to organize in the Des Moines area was the Des Moines Engineers Club. They organized according to available records, at the Iowa Railway Club, on February 3, 1905. Mr. W.W. Hendrix, Water Works Engineer, was chairman of this meeting and Mr. E. Manhard, a Structural Engineer, was appointed secretary. The others who constituted the first meeting were:

G.A. Smith	Water Works Engineer
J.A. Rowat	Water Works Engineer
T.W. Dodd	Structural Engineer
L.G. Berry	Structural Engineer
J.E. Van Liew	Structural Engineer
W.H. Steiner	Railway Engineer
C.A. McCall	Railway Engineer
A.E. Holmes	Civil Engineer
Geo. D. Dobson	Civil Engineer
Guy E. Dobson	Bridge Engineer
E.G. Usry	Mechanical Engineer
R.H. Moffitt	Mining Engineer

After a motion to form an Engineers Club was passed, they proceeded to elect as temporary officers: Mr. G. Van Liew, President; Mr. Guy E. Dobson, Vice-President and Mr. E. Manhard as Secretary.

Each person was assessed one dollar as an initiation fee, and to meet necessary expenses.

Committees were appointed for the following purposes:

1. To secure a name for the organization
2. To draw up a Constitution and By-laws
3. To look up other engineers in the city and to endeavor to interest them in the work
4. To prepare a program for the next meeting

At their second meeting, held February 25, 1905, they selected as the name of their organization, "Des Moines Engineers Club", presented a draft of their Constitution and By-laws and heard papers on "Recent City Improvement Work" by Mr. A.E. Holmes; "Concrete Steel Bridges" by G.W. Miller and "A Review of the Engineering News" by Mr. W.W. Hendrix.

The Constitution and By-laws were read and approved at

their third meeting, also held at the Iowa Railway Club rooms, on March 24, 1905.

An April 7th meeting was devoted to making corrections to the Constitution and By-laws, committee appointments, and passing a motion for a fine of twenty-five cents for non-attendance at regular meetings, instead of ten cents.

It is interesting to note that this early club was also without a home and found it necessary to meet at various places, namely:

Feb. 3, 1905 - Dec. 20, 1905	Iowa Railway Club
Feb. 7, 1908 - May 1, 1908	Grant Club
June 5, 1908 -	Savery Hotel
Oct. 9, 1908 - Dec. 4, 1908	Elk's Club
Jan. 15, 1909 - Feb. 12, 1909	Grant Club
Mar. 11, 1909 -	Iowa Railway Club
Apr. 10, 1909 - Dec. 10, 1909	Grant Club
Jan. 14, 1910 - Mar. 4, 1910	Mrs. Newton's Restaurant
Apr. 8, 1910 -	Evans Cafe
May 5, 1910 -	Hotel Chamberlain
Oct. 7, 1910 - Oct. 3, 1913	Grant Club

Meetings were generally a month apart except that summer months were usually skipped. Among the programs of this Des Moines Engineers Club there were such subjects as:

"Good Roads ?" - Illustrate lecture by Prof. A. Marston
"Notes on Construction of Concrete Bridges" - G.E. Dobson
"Value of Fireproofing Material from the Baltimore Conflagration" - L.G. Berry
"Denver and Northwestern Railway" - G.A. Smith
"Proposed River Improvement in Des Moines" - G. Dobson
"Making a Railway Time Card" - Mattoon
"Telephone Engineering" - Roy Walker, Mutual Telephone Co.
"Manufacturing of Steel" - M. Dodge
"Sewer System of Des Moines" - D. Dobson
"Water Softening" - Robert Peters
"Construction of the Barber Asphalt Brick Plant" - Paul Beer
"Manufacturing of Portland Cement" - E.M. Stevens
"Iron Ores and Steel" - Mr. Rutherford
"Description of the Fenry Pyrometer" - ?
"The Present Status of Aerial Navigation - 1909" - G.I. Vincent
"Smoke Prevention" - E.M. Stevens
"Illuminating Engineering" - G. Douglas Jones
"Steam Boiler" - T.B. Hopper
"Engineering Examples from Nature" - L.H. Stone
"Description of a Slide Rule and Its Application" - Mr. Crellin
"Peoria's Concrete Bridge Failure" - B.N. Moss
"Transmission of California Crude Oil" - Mr. Carady

"Sanitary Engineering in Cuba" - Mr. Jardin
 "Location Surveying in Wyoming for C.G. & N.W. Railroad"
 Mr. Cross
 "Cyanide Process" - Sam Elbert
 "Structural Detailing" - Mr. Hartman
 "U.S. Steel Corporation at Gary Ind." - A.W. Lee
 "Good Roads" - J.M. Burrows
 "Good Roads" - Paul Beer
 "Light House Construction" - Mr. Tracy
 "Sewer System of Des Moines" - L.H. Stone
 "Status of the Engineer at Home and Abroad" - B. Schreiner
 "Steam and Hot Water Heating" - R.L. Spencer
 "Coal Mining in Ohio" - J.D. Goodwin
 "City Platting Restrictions" - A.E. Holmes
 "Panama Canal" - B. N. Moss

Indications are that Engineers Club activities were dormant during 1914, 1915, 1916 and 1917, presumably because of World War I.

"The above is from the History of The Engineers Club printed for its 25th anniversary and commemorating the City of Des Moines' Centennial"

Editor's Note:

In reviewing the minutes from 1905 to 1913 which were in a handwritten bound notebook it indicates most of the engineers education was from Eastern schools, Des Moines University, Iowa State College (Ames) and the school of hard knocks. This notebook has been lost over the years and it was interesting to review. Our generation must thank the engineers who in 1943 had the foresight to see that history must be recorded if we are to have a knowledge of what happened earlier in our profession.

From 1905 to 1917 engineers of the Des Moines Engineers Club were active in the Iowa Engineering Society and those that held office were:

1905 - Directors	A.J. Cox	
	W.H. Johnson	
1906 - Directors	A.J. Cox	
	W.H. Johnson	
1907 - Director	W.H. Johnson	
1908 - Director	W.H. Johnson	
1909 - Director	Lowell H. Stone	Consulting Engr.
1911 - President	Lowell H. Stone	Consulting Engr.
1912 - Director	Paul Beer	
1913 - Director	Paul Beer	
1915 - Director	Paul Beer	