

# The Rochester Engineer

## Rochester Engineering Society Constitution. Adopted April 15<sup>th</sup> 1897.

### Article 1

#### Name & Object.

1. The name of this Association shall be The Rochester Engineering Society.
2. Its object shall be the advancement of Engineering Knowledge & practice, & the promotion of professional & social intercourse between its members.

### Article II.

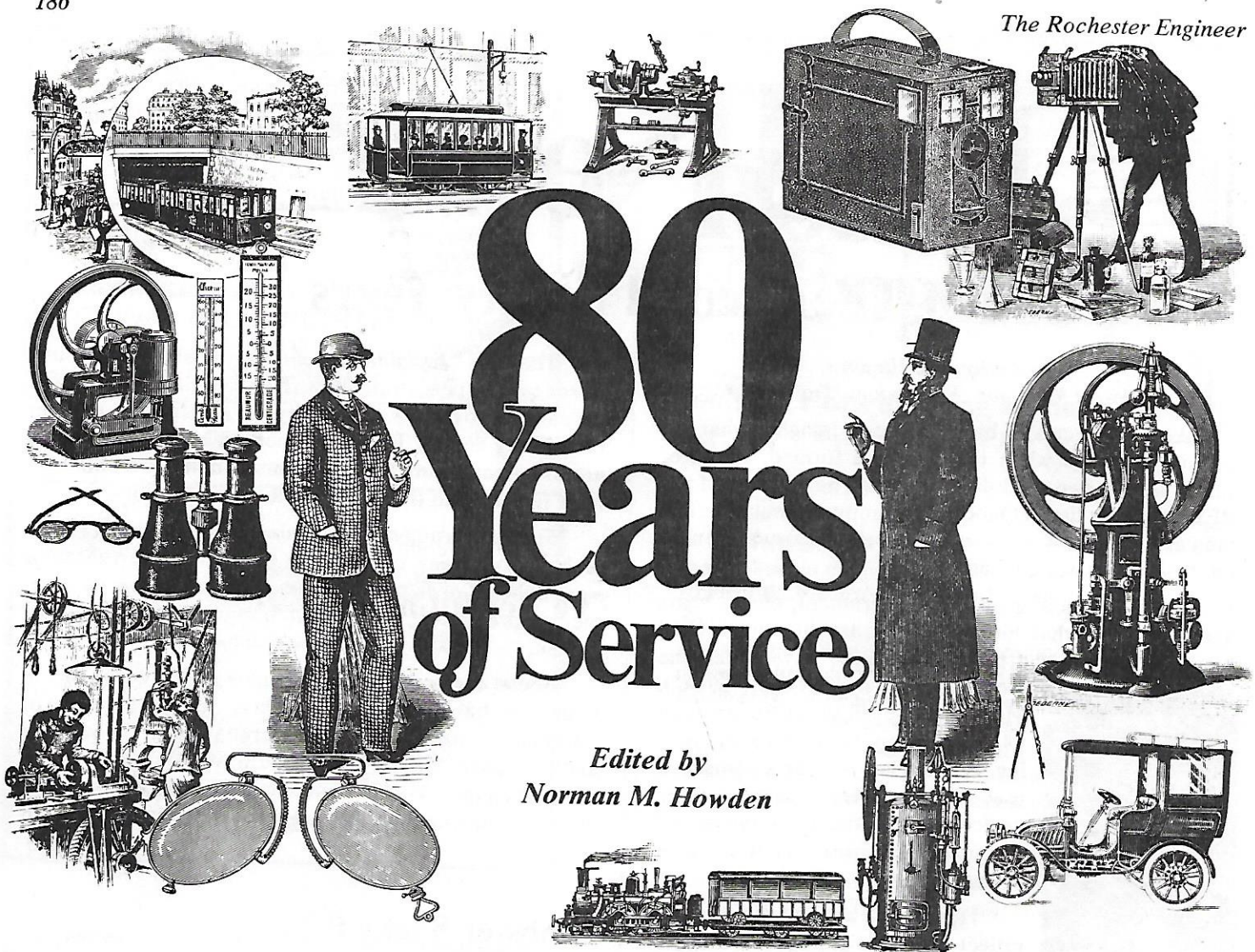
#### Memberships.

1. Any person of good character & reputation shall be eligible as a member, who is a resident of the City of Rochester, & who is a Civil, Mechanical or Electrical Engineer or who is interested in the practice of Civil, Mechanical or Electrical Engineering, or who is employed in the departments of work.

80 Years Of Service

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*Edited by  
Norman M. Howden*

**A**S WE CELEBRATE the completion of 80 years of service by the Rochester Engineering Society to the Rochester community, it seems appropriate to review those eight decades, that we all may have a better understanding of the origin of our Society and the course along which it progressed from that point to the present.

Accordingly, the following pages present, generally in actual excerpts from the Society's minutes, reports, and other communications, or from press clippings, a brief overview of that progress. It would not be quite accurate to say that these represent high spots in the Society's history — there are far too many "high spots" to be compressed within the scope of this current publication, but even more significantly, it seemed more representative to select some parts of the history that might be considered "low" spots, or perhaps places of intermediate elevation.

Some will remember parts of this history with nostalgia — others will be both shocked, and perhaps amazed, at what may appear to be the primitive state of the art at some point in time. But we hope that all will find it both interesting and edifying.





## A Man's Lengthened Shadow

By Norman M. Howden

Until now, I have resolutely refrained from allowing expressions of my own thoughts or feelings to creep into the columns of *The Rochester Engineer*. On one occasion, perhaps about ten years ago, I did write an editorial (although I did not identify myself as its author), but I never encountered anyone who had read it, until prompted to do so by some remark from me. But that was the extent of personal communications from me in *The Rochester Engineer*.

Until now. In this present instance, I hope I may be permitted a departure from that policy for several reasons.

First, in celebration of the Rochester Engineering Society's 80th birthday, I am focusing this issue of our publication on our history, and particularly on the Society's early history. Most of this material is excerpted directly from official minutes, notices of special meetings, newspaper clippings, and other contemporary documents. I hope you enjoy reading about those early days as much as I have enjoyed digging into the dusty old files for the material.

Secondly, I believe that the Rochester Engineering Society should once more recognize the great contributions that were made to its growth and progress by the man who, for what is now exactly one half of its corporate life, was its Executive Secretary.

If an institution is but the lengthened shadow of a man, in the case of the Rochester Engineering Society that man is certainly O. Laurence Angevine, or "Angie" as he was known to all his friends. He was elected to membership in the Society on June 28, 1921. He was engaged as its Executive Secretary on April 10, 1924 for a two-month trial period, and from then until his retirement on December 31, 1963, he was "Mr. Engineer,"—the representative and spokesman of the engineering community.



His influence also extended far afield — a fact that was but little known, even among his close associates. He was the perennial representative of Rochester to the sporadic but repeated attempts at organizing a "council" or some other society of engineers on state or national levels. He was one of the founders of the organization that has since become the Council of Engineering and Scientific Society Executives. On at least two occasions engineering societies in other cities tried to lure him away, but he was not interested.

I became acquainted with him in the mid-1930's, I think, when, as a young reporter I was assigned to cover some RES activities. Although we never were intimate

friends, we did become more than nodding acquaintances, and I remember especially his careful attention to the details of the meetings in which he was involved, and his ready willingness to provide every assistance possible.

At the time of his death on May 5, 1971, the RES Board of Directors, in a memorial resolution, said, in part: "His accomplishments were written in the history of the society to which he devoted virtually his entire professional career, and which now stands as the only monument he ever desired. To measure his contributions to the stature and the vitality of the Rochester Engineering Society would be impossible."

On the Society's 80th birthday, it is fitting for us to recall that sentiment, and perhaps add an "Amen." □

(The photograph accompanying this item was one taken in 1922, when a photographic album of the entire RES membership was compiled).

## The Beginning of RES

Rochester, N.Y. March 18th, 1897

"Seventeen persons met in the City Engineers office. By unanimous consent Mr. E.A. Fisher was made Chairman of the meeting & John F. Skinner, Sec'y.

"Upon motion of Mr. E. Kuichling & being seconded, it was resolved that the members of the former Section of Engineering of the Rochester Academy of Science & others present, do hereby form a new & independent engineering organization.

"Resolved that the chair appoint a committee of three, besides himself, to prepare a scheme for organization of the former Section of Engineering, said committee to report at the next meeting.

"Mr. Kuichling moved & being seconded, that the gentlemen who were advertised to address a meeting of the Section of Engineering be invited to present their papers to this meeting. — Carried.

"Mr. Irving E. Matthews then read his paper upon "Tunnelling in Soft Ground" in connection with the West Side Sewer where it passes under the track of the N.Y.C. & H.R.R. & the B.R. & P.R.R. Mr. Chas. L. Raymond presented his paper upon the tunnel under So. St. Paul St. for the Griffith St. outlet sewer.

"Mr. Willard D. Lockwood, who had charge of this last mentioned work for the contractors, opened the discussion, which was participated in by most of the members.

"After a vote of thanks had been tendered to Messrs. Matthews and Raymond, the chair announced the following committee upon organization.

Messrs. Gaylord Thompson, Robt. Cartwright, Wm. F. Jordan. "The meeting then adjourned until March 25th at 8 p.m." (signed) John F. Skinner, Sec'y.

(Mr. Emil Kuichling was the president of the Section

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of Engineering, predecessor of the Rochester Engineering Society. He later moved to New York City, and after his death in 1914 his widow presented a portrait of him to the Society. It now hangs in the RES office.)

Almost immediately after this original organization meeting, the new Rochester Engineering Society transferred the seat of its operations to the Reynolds Library, at 150 Spring St. The Library had been established by Mortimer F. Reynolds and was originally located in the Arcade which still bears his name,

but was moved to his former home after his death. For many years it was the only public library in Rochester. The Rochester Engineering Society agreed with the Library's trustees to subsidize one-half the purchase price of selected books and periodicals on engineering subjects, and each year the Board of Governors would hold a special meeting to determine the selections.

The minutes of the meeting of December 13th, 1912, record that "Mr. Fisher suggested that some steps be taken to see if the library arrangements could not be changed so as to make the books of the library a little more available for the members of the Society, stating he was in favor of the members, and if necessary, the general public, being given the privilege of taking the books from the library not to exceed two days at a time." The record does not show what steps, if any, were taken.

The Society continued to hold most of its meetings in the Reynolds Library until 1912, when it took action to move to the "Sibley Block" (at the northwest corner of East Main Street and Stillson St.) where it had quarters that accommodated a piano and a billiard table, at an annual rental of \$700. The Reynolds mansion finally yielded to the bulldozer when the Inner Loop penetrated that neighborhood.

## A Pleasant Excursion

March 22, 1902 — "On this day the sixth local excursion of the Society was participated in by the members of the Society and their friends to the Corona Mills of the J.H. Hinds & Co. At the mills we were welcomed by Mr. W.H. Duffet, the executive head of the concern. Some wheat was taken and put through the necessary operations to convert it to flour, & whilst we were being shown through the mill the wheat was cleaned, ground & kneaded into dough & we had the pleasure of eating the same in the shape of biscuit, accompanied with butter & a splendid cup of coffee, all prepared under the able direction of Mrs. W.H. Duffet, who together with Miss Duffet & several assistants provided us with a delightful repast."

Oct. 18, 1902 — "On this day occurred the eleventh excursion of the Society. The members & their friends the number of 26 boarded a chartered car at the R. Rwy. Co.'s. barns & went to Charlotte blast furnace, where they were welcomed by Mr. W. Bingham, Manager of the



works, & who took the party over the whole plant, so that they were enabled to become acquainted with the process of producing cast iron from the ore. The tap of the furnace was made at 4 P.M. & 60 tons of iron flowed into the moulds on the floor. Many of them went to the top of the stack & saw the charging of the fuel, ore & flux into the cupola. The party returned to the city at 5 P.M. well pleased with the information they had received & the sights they had seen."

May 20, 1904 — "Mr. Geo. A. Ricker then described the 'Building of the Gorge R.R.' The paper was extremely interesting & was illustrated by a number of lantern slides showing the location & construction. Interest in the speaker's remarks was considerably diverted by the action of the projection lantern which spoiled or broke about half the slides."

April 27, 1906 — "Mr. Howard E. Oskamp then described the operation of the 'Telegraphone,' an instrument for automatically receiving a telephone message in the absence of the recipient."

## Aid for Quake Victims

July 13, 1906 — Special meeting at the Builders Exchange. — "The President introduced the matter of Mrs. John C. Trautwine's (2nd) letter, asking for help for the suffering engineers and their families who were rendered destitute by the earthquake and fire in San Francisco. Remarks were made by Messrs. Brown, Grant, Griffin, Fisher, Raymond, Skinner & Stewart. It was moved by Mr. Stewart that a committee of three be appointed by the chair to publish the needs of the suffering. The motion was seconded by Mr. McConnell and unanimously carried. The president appointed as such committee Wm. J. Stewart, J.H. Grant, and C. L. Raymond." (Stewart was the father of Harold O. Stewart. From a report of this committee dated Oct. 1, 1906:

"A circular letter was sent to each member by the Secretary, and headquarters established in the Free Academy building for receiving the articles donated. Mr. Adams kindly volunteered to receive the goods, keeping record of all articles received, a copy of which is herewith appended. Twenty-five members of our total membership



of 130 contributed a total of 531 articles, including every imaginable article of wearing apparel, from suits of clothing to pocket handkerchiefs. Also needles and thread, cloth for patching, and all necessary articles for women to repair clothing with. The list includes 16 suits of clothes for men, 5 suits of underwear, 13 overcoats, 13 pairs of shoes, 2 ladies' suits, 29 ladies waists, 13 skirts and 8 coats, also \$22.00 in cash. A portion of this was spent for additional clothing, and the balance, with \$7.70 from our treasury, paid the freight."

*(Subsequent minutes included grateful letters of appreciation from some of the recipients in San Francisco).*

Feb. 15, 1907 — "Mr. Geo. C. Wright spoke upon 'Reinforced Concrete.' The speaker during the afternoon had filled both blackboards with formulae and diagrams, but, unfortunately the janitor had carefully cleaned the boards and there was no time for reproduction of the work."

Oct. 23, 1908 — "Mr. Herbert Spencer Flynt spoke upon 'Refuse Disposal in England.' The subject was illustrated by trade circulars and diagrams and the effectiveness of the systems was explained as depending upon the high temperatures attained in the furnaces. The difference between English and American refuse and its handling was discussed as it has an important bearing upon the method of ultimate disposal to be employed."

#### *Seventh Annual Dinner — 1909*

The seventh annual dinner of the Rochester engineering Society was held in the Hotel Seneca on Jan. 28, 1909. The event was reviewed by a news story the next morning in *The Democrat & Chronicle*, the headline of which read:

"Planning for a City Beautiful — New York Engineer Outlines Views of Subject — Suggestions for This city — Nelson P. Lewis Tells Rochester Engineering Society Man at Head of Movement Should have Broad Views, Clear Vision and foresight".

*(Mr. Lewis was Chief Engineer of the Board of Estimate and Apportionment of the City of New York. The newspaper account said there were 150 present at the dinner, but a correction to 132 has been pencilled in on the clipping which was appended to the minutes.)*

Nov. 11, 1910 — "The paper of the evening was given by the President, and was a description of the New Cobbs Hill Reservoir, the paper being illustrated by lantern slides giving both the detail of construction and showing the progress of the work from time to time. Mr. Skinner also told of numerous interesting experiments that were made in connection with the work of building a reservoir, and also stated that so far everything seemed to indicate that work was done along right lines."

*(The President was John F. Skinner, a deputy city engineer, who later served as a Captain in the Construction Division of the U.S. Army Quartermaster Corps in World War I. The minutes also record that attendance at this meeting was 22 members and guests).*

April 15, 1911 — "The paper of the evening was an informal but extremely interesting account of Mr. Skinner's recent trip to the Isthmus of Panama..... a number of lantern slides....showed the work on the Panama Canal in its present condition, giving an excellent idea of the progress of the work and the difficulties to be overcome by the Engineers.

"Some of the pictures brought forth amusing incidents of the trip and seemed to be appreciated by the members present. An interesting feature was that at the Gatun Locks steel forms were used in connection with the concrete work, while at the Pedro Miguel Locks, wooden forms were used and the Engineers at both ends, insisted that each system was by far the better one.

"Another of the interesting features brought out, were that the steamers in passing through the Locks will not use their own power but will be towed by a locomotive and in place of Buffer Beams, a chain under tension will be used for bringing the vessels to rest. The tension is such that a ten thousand ton vessel moving at the rate of ten miles an hour would be brought to rest without reaching the gates and without jar or strain upon the vessel. After the vessel has been brought to rest, the chains drop into sockets provided for them."

## Concern About Pure Foods

April 12, 1912 — "The President then introduced Dr. John R. Williams, speaker of the evening, who gave an interesting talk on the economic study of milk production and distribution in Rochester, illustrated by numerous lantern slides and charts....The charts... seemed to prove that the profits in the milk business as at present carried on was such that sanitary methods and reasonable safe

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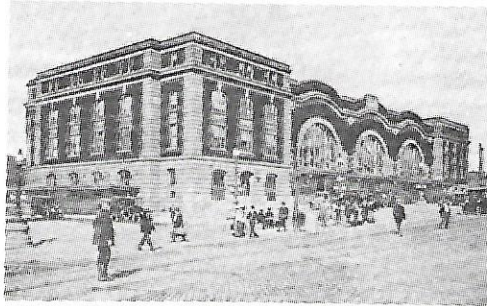


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guards could not be expected and the slides shown indicated that under existing conditions it was almost impossible to get pure milk....Dr. Williams is also strongly in favor of having the milk pasteurized."

## Rhapsody in Stone and Steel

October 10th, 1913 — "The paper of the evening was by Mr. Claude Bragdon who gave an extremely interesting



*Depot, New York Central Lines*

account of the working out of the Architectural features of the new station of the N.Y.C & H.R.R. here in Rochester. Mr. Bragdon submitted not only the sketches finally accepted but many that were

discarded and gave the reasons for their not being used. One of the many interesting features brought out was that the mathematics of music and architecture were the same and Mr. Bragdon illustrated with sketches on the black-board and the sketches of the station how that mathematics of musical harmony had been applied to the production of harmonious proportion in the new station."

Jan. 8th, 1915 — "The paper of the evening was an illustrated lecture on Colored Photography by Dr. C.E. Kenneth Mees."

## The Society's Benefactress

May 12, 1916 — Miss Kate Gleason was one of three individuals elected to Regular Membership in the Society on this date, becoming its first woman member. Her accomplishments in the engineering and management activities of Gleason Works, founded by her father, have been well-documented in other places. So, too, have her involvement in such social welfare projects as the development of "Concrest," the community of low-cost homes of poured concrete in East Rochester, the restoration of portions of Beaufort, S.C., and of Sept-



ment, France.

It is our purpose here simply to acknowledge the profound and continuing indebtedness of the Rochester Engineering Society to Kate Gleason's generosity and

foresight. She regularly contributed liberally to the Society. For example, the minutes of the Board of Governors meeting on June 5, 1924, record a letter from "Miss Kate Gleason expressing her regret at not having been able to do any work in connection with the Membership Campaign and enclosing a check for \$100 'To help out the cause.' In February, 1927, another contribution of \$500 was acknowledged, and three years later there was a reference to another gift, not specified.

But, most importantly, upon her death on Jan. 1933, it was revealed that her will provided a bequest of \$25,000 to the Society. It is this fund, still known as the Kate Gleason Fund, that makes possible many of the activities of the Society today, for it has been invested and re-invested by successive Boards of directors — sometimes with more wisdom than at others, but always the balance has been favorable — for now it brings to the Society an annual income that exceeds half of the original bequest.

June 9, 1916 — At the annual meeting of the Society on this date the Preparedness Committee made special note of the fact that there now are fifty engineers in the Reserve drilling and receiving instruction.



(Harold O. Stewart was elected Secretary-Treasurer of the Society at this meeting. He became President in 1921, and his photo is the first one in the four-volume series of portraits of RES members that was compiled in 1922-23. Although we're not sure, we suspect he may be the only member included in those photos who is still living and active in the RES.)

June 8, 1917 — "A very interesting lecture illustrated with slides and motion pictures was given by Mr. Lucas on 'Machinery' on the 'Manufacture of a 9.2-inch Shell.'"

(This was the Society's annual meeting, and on this same occasion the Board of Governors reported: "The membership of the Society now totals 352, consisting of 303 members, 24 junior and 25 students, representing a net gain of 66 for the year. The total number of meetings, luncheons and excursions is approximately sixty. The Committee on Officers' Reserve Corps has given very valuable assistance to our government in getting 42 applications for the Engineers Reserve Corps and training these men.")

January 11, 1918 — "The Military Committee submitted a Roll of Honor of the Society showing 19 members in the United States service. A service flag was presented to the Society by its President, Mr. Williams. Flags of the United States and its allies were purchased for the Society by the Military Committee."

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## 'Sleeves Up' for the War Effort

July 8, 1918 — "Not Just Hats Off to the Flag But Sleeves Up For It" was the headline on an announcement of a Special Meeting called on this date. The speaker was Mr. Alfred M. Mossdrop, Production Manager, Rochester District Ordnance Office, U.S. War Department, and his subject was: "Working Over Here for Over There." The notice pointed out that "There are now 40 members of our Society in the Army and Navy. We must show them that we are behind them."

November 15, 1918 — "It should be noted that there was no October meeting, the Society's headquarters being closed by order of the Commissioner of Public Safety on account of the influenza."

December 13, 1918 — "Announcement was made of the death of Mr. Charles Curtis Beakes, a member of the Society, while in service in France."

May 9, 1919 — "The speaker, Mr. Charles C. Zollar, showed a number of remarkable color photographs taken in the City's parks and in California."

March 19, 1920 — "Mr. Pond reported that in connection with the National Department of Public Works fund, \$88.00 had been sent to Washington, which represents contributions from approximately 20% of the membership of the Society; and he strongly urged subscriptions from those who had not given to date, in order that our Society may reach the allotted amount of \$200.00."

Aug. 18, 1920 — "Letter from the American Institute of Weights and Measures requested us to go on record against the universal adoption of the metric system. It was decided to refer this to the Standards Committee."

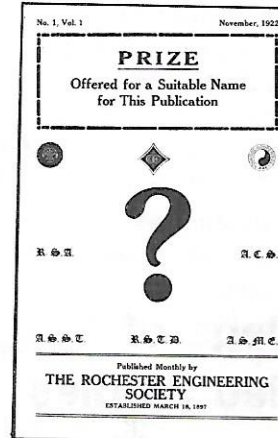
(Apparently that committee tried to arrange a meeting at which both sides of that question would be represented, but failed. The minutes of a meeting on Oct. 8, 1920, record that "following the business meeting, we enjoyed a most interesting talk by Dr. W.H. Souder on the 'Compulsory Adoption of the Metric System.'")

September 25, 1920 — Approximately 125 RES members and guests boarded a barge in the Barge Canal harbor for a tour of the harbor and canal in the Rochester environs, with luncheon to be served at Pittsford. At the last moment the tour was aborted when the U.S. Collector of Customs for the Port of Rochester threatened to arrest every member of the party, on the grounds that the barge did not meet Federal requirements for a passenger-carrying vessel.

September 9, 1921 — "Mr. Le Grand Brown, Deputy City Engineer, and a member of this Society, gave a very interesting and instructive description of the proposed Rapid Transit System to be constructed in the bed of the old Erie Canal."

## Publication Begun

October 13, 1922 — "Chairman Hevenor of the Publicity Committee . . . Stated that a Monthly Magazine would be published, beginning in November, taking the place of the Society Bulletin. The name of the Magazine will be selected by open competition, a \$5.00 cash prize will be awarded for the best name submitted."



Foreword to Vol. I, No. 1  
November, 1922

### Introductory

This issue of our (as yet nameless) publication is in a way a sort of commencement. The Rochester Engineering Society has at least graduated from the monthly bulletin and has undertaken to serve the Rochester engineers, architects and those with closely allied interests in a more crystalized form. Our 1922-23 officers have set up certain aims for the immediate future and we want this paper to bring to a focus the interests of the fraternity of which we are a part.

We know too little of each other and of our own societies and what they have done and are trying to accomplish. We want to show how our membership has grown and is growing.

We want all local engineers, including members of the Rochester Engineering Society and of the eight kindred societies to consider this as their paper for, of and by them. Their criticisms and support are vital to its ultimate success. As our affiliations become closer, and they are bound to do so, the size and scope of the paper should increase to meet greater demands. Then we hope the staff will later include members, not only of the R.E.S. but of all local societies with interrelated activities.

Engineer is a big word and is greatly misused and misunderstood. Something like 26 varieties are recognized by civil service authorities and the end is yet to come.

Let us all get together, and by composite self expression, interpret the correct and fullest meaning of our name as far as possible through this medium.

(More than 100 different names were entered in this prize contest. The winning title — "The Rochester Engineer" — was submitted by Gloster P. Hevenor, Chairman of the Publicity Committee, which sponsored the competition. He became President of the RES three years later. The selected title was displayed on the December, 1922, issue, Vol. 1, No. 2, and has appeared monthly on this publication since that date.)

Feb. 9, 1923 — "Mr. Sullivan asked that the membership give a better support to the Luncheon Committee



than they have been. He said that he realized that he could not supply any real high-brow talent for an 85-cent lunch but that he felt the members would benefit greatly by meeting each other once a week."

Oct. 26, 1923 — Special meeting held in Society Rooms in Sibley Building

"The first number of the program was a showing of some moving pictures of the subway construction in the bed of the old Erie Canal. These pictures are shown through the courtesy of City Manager, C. Arthur Poole, Assistant City Engineer, W.H. Roberts, and Mr. H.O. Bagley, local manager for Scott Bros., Contractors on the subway work. . . .

"As the next number Mr. Wildes introduced Mr. Dalton of the Bureau of Municipal Research, who gave a very interesting talk on the subject of "PARKING" of automobiles on city streets. . . .

Jan. 4, 1924 — It was necessary to vacate the Society's rooms in the Sibley Bldg., and the invitation of the University of Rochester to accept space in the Carnegie Bldg. was accepted.

Jan 21, 1924 — George Eastman, Pres. and General Manager of Eastman Kodak Co., and M.H. Eisenhart, of Bausch & Lomb Optical Co., were among 56 new members elected to the Society on this date. (Probably Mr. Eastman doesn't need to be further identified, but some of the RES younger members might not remember Mr. Eisenhart as a later and long-time President of Bausch & Lomb.)

## The City Should Do Some Planning

May 29, 1924 — "Resolved, that the Board of Governors of the Rochester Engineering Society endorses the idea of a comprehensive plan for the City of Rochester, and believes that the grouping of public buildings should fit into this plan, and that no public building should be located without maps and plans having been first submitted to the City Planning Commission."

Aug. 8, 1924 — Board of Governors, meeting at the Chamber of Commerce took unanimous action that "the President be authorized to engage the services of Mr. O.L. Angevine for Executive Secretary and a stenographer for the sums of \$2400 and \$900 per year respectively."

Dec. 19, 1924 — Board of Governors at Chamber of Commerce. — "A motion was made, seconded and carried that as a mark of appreciation of her gift to the Society the membership card for Miss Kate Gleason be forwarded to her." . . .

"Motion was made, seconded and carried that the Executive Secretary be instructed to buy a new typewriter."

From the October, 1926, issue of *The Rochester Engineer*:

"Subway Excursion and Inspection Trip October 16, Saturday"

"Assemble at roadway east of Barge Canal Terminal Building prior to 2:00 p.m. Special train on subway tracks

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*Rochester Engineering Society Excursion over Subway- Saturday Oct. 16th, 1926*



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*leaves the Barge Canal Terminal Building location at 2:00 p.m. sharp. Train will go through Subway under Broad Street and west to the old 'Western Wide Waters.' It will then go to Brighton and finally to the starting place. Stops will be made at all points of interest. Excavation, concrete, track, bridge and street work are now at their most interesting stage. Luncheon will be served to all members attending the excursion through the courtesy of I.M. Ludington's Sons, Contractors, in charge of this work. Ladies are invited."*

*The RES moved to the Sagamore Hotel (now known as 111 East Avenue) in October, 1926, and Mr. Angevine was authorized "to dispose of the Society's pool table, clock, piano, rug, etc."*

*From The Rochester Engineer, April, 1923:*

#### ENGINEERS' LICENSE

"Have you made application for a license? The law goes into effect in May. The Secretary has a supply of application blanks and Morrall will print a photograph of the size required from the negative on file, for \$1.00"

### Civic Involvement for An Engineer

December 5, 1927 — "The question of the R.E.S. having a testimonial dinner for Stephen B. Story, City Manager elect, was discussed. DeWolf moved, Hands seconded that such a dinner be held and that President Soderholm appoint a committee to handle the affair. He appointed Mr. Hevenor, Mr. DeWolf and Mr. Krampe to act as the committee. The date was tentatively fixed for January 7th, 1928 and the price to be about \$3.00 per plate."

*(Rochester's first city Manager, Stephen B. Story, was a civil engineer and a past president of the RES. The testimonial dinner was held on Jan. 16, 1928, the price was \$4.00 per plate, and the Society realized a profit of \$82.75).*

*(At that same meeting the salary of the Executive Secretary was fixed at \$300 per month through 1928. He also was authorized to engage the necessary clerical help in the office, at a cost not to exceed \$1,100 for the year.)*

March 9, 1928: — (A joint meeting of RES, ASME, and ACS). The speaker was Bud J. Babor of the Ethyl Gasoline Corporation, who discussed "the causes of knocking in automotive engines and described some of the experiments performed in the development of an anti-knock fuel. A demonstration was given with actual equipment showing how a change in fuel and the addition of Ethyl anti-knock fluid will eliminate knocking under certain conditions."

### A Serious Civic Problem

May 6, 1929 — "The Executive Secretary announced that the A.S.M.E. had asked the committee before them

to investigate Rochester conditions in regard to Hose Couplings and other fittings used by the local fire department with the idea of co-operating with the other sections of the country to bring about a standardization of this type of thing. It was explained that many of our conflagrations in the past had been due to different cities having different fittings, making it impossible for assistance from outside becoming valuable in case of widespread conflagrations."

January 14, 1933: (Board of Governors meeting)  
"Executive Secretary explained that it would be necessary to withdraw about eight hundred dollars from the reserve fund as the active treasury was practically depleted." (This action was unanimously approved). . . "In answer to a question: 'If all members in arrears and advertisers owing accounts paid up their indebtedness within the next few months, would it be possible to return amount withdrawn to the reserve?' brought forth the information that not only would it be returned but a substantial amount would be left over for next year's business.' . . . "As a matter of record, the board reviewed the circumstances surrounding the bequest of Kate Gleason (whose death occurred January 9, 1933) leaving the society \$25,000. The board was of the opinion that the amount should be invested as safely as possible and the proceeds drawn to replace or increase the annual gifts of \$500 which we had been receiving from Miss Gleason."

April 13, 1933 — "John Bethune, Member R.E.S., Automotive Engineer, Reo Motor Car Company, spoke on "Motor Cars of Today and Tomorrow." In the course of his talk he gave the first public announcement of a new transmission for automobiles which makes it unnecessary to shift gears." (attendance at this meeting in The Sagamore was 218).

April 22, 1933 — (Board of Governors meeting) — "Letter from T.W. Atterbury regarding the legacy of \$25,000 from the estate of Miss Kate Gleason was read. Mr. Atterbury suggested that we withdraw \$5,000 from this fund to finance certain projects which would act as relief projects for unemployed engineers. Henry L. Howe suggested that the letter be answered pointing out that we have not as yet received the \$25,000 and that, when the time arrives that this comes into our possession, we are bound by the terms of the will to use it for the benefit of the Society and not for individual members. Furthermore, we are duty bound to use each year the proceeds from this fund rather than the principal which Mr. Atterbury's suggestion would involve."

May 11, 1933 — "Fordyce E. Tuttle of the Development Department, Eastman Kodak Company, spoke on 'Kodak's New High Speed Camera.' Mr. Tuttle illustrated his talk with demonstrative motion pictures which gave an idea of some of the uses for high speed motion picture recording. . . Speeds as high as 1800 to 2000 images per second have been attained with this new motion picture camera." (*Incorporation of the RES was approved at this meeting.*)



June 8, 1933 — (Annual meeting) — "Howard Harding, Treasurer, reported on the financial condition of the Society. His report showed a net operating loss for the year of \$1,602.88 which he explained had been taken out of our reserve fund." . . .

"It was recalled by some of the members that Mr. Soule (retiring President) has been particularly conscientious in his duties as President as well as in the other offices which he has held. During his year as President he has not been absent from one luncheon, evening meeting or excursion. It would be difficult to find a record comaprable with this for any year in the Society's history."

*(The Society's Roe T. Soule Memorial Fund was established in his memory by his widow after his death on October 16, 1948.)*

February 8, 1934 — Regular meeting at the Sagamore — "No further business appearing, meeting was turned over to Arthur L. Schoen, Chairman, Rochester Section, I.R.E., who introduced Dr. Orestes H. Caldwell, Editor, 'Electronics,' former federal Radio Commissioner, President of New York Electrical Society who spoke on "The Engineer's New Tool — The Electron."

May 17, 1934 — Final formal action on incorporation of the Society was taken at a regular meeting of the Society on this date.

October 5, 1934 — (Board of Directors meeting) — "The Executive Secretary reported that the \$25,000 legacy left to us by Miss Kate Gleason had been placed in the Trust Department of the Lincoln—Alliance Bank & Trust Company in accordance with previous Board action that the Trust Department had notified us that in accordance with the action of our Advisory Committee, the sum of \$24,589.54 had been invested in Home Owner's Loan Corporation 3% bonds of a par value of \$25,000 balance of the fund remaining in the Trust Dept."

June 4, 1935 — (Board of Directors meeting) — The Executive Secretary reported that he had been appointed Chairman of the National Committee on Co—ordination of Engineering Societies.

June 28, 1935 — A resolution drafted by the Society's Public Affairs Committee noted that "the Central Business District of Rochester is deteriorating, as evidenced by abnormal decrease in property values and by increasing vacancies," and "circulation of vehicular and pedestrian traffic within the Central Business District is impeded by the disorderly and inadequate street system," and urged that "the Mayor, the City Manager, and the Council of the City of Rochester proceed with the parallel street project in substantial accord with the Major Street Plan."

December 31, 1936 — (Board of Directors meeting) — "Considerable discussion took place regarding the Annual Dinner of the Society and it was stated that a real attempt should be made to revive the customary Annual Dinners owing to the fact that this year we celebrate our

40th Anniversary."

"Frank Macy moved, Colonel Brown seconded that the Executive Secretary check up the list of licensed professional engineers in the Rochester area; that the Membership Committee and others endeavor to procure membership of these men in the Rochester Engineering Society, with consideration of the idea that we eventually form a licensed professional engineers division within the Society. Carried."

March 28, 1938 — (Board of Directors meeting) — "The remainder of the meeting was devoted to a discussion of the President's plan for re—organization of Executive Departments of the United States Government. President Frank H. Macy led the discussion and reported upon the meeting at which he represented the Society on the occasion of Representative Pettengill's discussion of this re—organization plan. Mr. Macy then brought up the dangers to constitutional government contained in the bill and urged that engineers take a more active part in public affairs."

Excerpts for the Board's annual report for the 1937-38 Year:

"The Rochester Fall Meeting of the Institute of Radio Engineers, in which the Rochester Engineering Society cooperated, had a registration of 551 which was a 12% increase over the preceding year, and the largest attendance that has been recorded in the nine years that these conventions have been held. Attended by leading radio engineers, manufacturers and technicians, the Rochester Fall Meeting exceeds all other radio conventions of this character in attendance and interest..."

## Blue Cross Group Formed

"A few months ago the Society completed arrangements with the Rochester Hospital Service Corporation so that members otherwise ineligible because they were not employed by a large corporation could secure hospital insurance through the Society. It is expected that when the anniversary date of this undertaking arrives that other members will avail themselves of this opportunity."

"Papers and Meetings Committee reports that twenty-four evening meetings were conducted with a total attendance of 4,012, for an average of 167. Dr. Phillips Thomas of Westinghouse Electric and Manufacturing Company drew the largest attendance when on March 3, 433 attended his address and demonstration entitled "Adventures in Electricity."

"Two excursions were conducted. The first to station WHAM at Victor, N.Y. to view the new vertical antenna, and considering bad weather conditions, the Committee was gratified with the attendance of 76. On January 22 the new Central Fire Headquarters and Fire Alarm Signal Buildings were inspected. One hundred and eight members and guests attended."

October 20, 1941 — (Board of Directors meeting) — "A letter from Mrs. Alan Valentine was read inviting the

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Rochester Engineering Society to be one of the sponsors of a conference on city planning and housing. Mrs. Valentine's invitation was extended on behalf of the Citizens' City Planning and Housing Council of Rochester. Leonard A. Waasdorp moved, John W. Morrison seconded that we cooperate and accept the invitation to be one of the sponsors for the conference. Carried."

February 16, 1942 — (Board of Directors meeting) — "The Executive Secretary announced that late in December the Civilian Defense Coordinators for Rochester and Monroe County had asked us to set up an Advisory Committee on Civilian Defense Construction to assist schools in the county and charitable organizations to provide reasonable protection in case of air-raid. Mr. George H. Spohr (President) had felt that the Society could not afford to refuse, and for that reason had appointed a committee of 27 to take on this work. Leonard A. Waasdorp had been named chairman and C. Storrs Barrows vice-chairman."

### ...And Another War

Excerpts from Board of Directors Report for 1941-42: "Since the last report of our stewardship of the Society, our country has entered the World War and many of the Society's undertakings have been closely related to the war effort..."

"Late last year, in response to a request from the City and County Defense Co-ordinators, the Society appointed a committee to survey and make recommendations for places of refuge providing the greatest protection against air raids in public buildings, schools, churches and charitable institutions throughout Monroe County. Thirty such reports have been filed with the Defense Co-ordinators."

"Probably the most important work of the Research Committee has been the assistance rendered by the Committee to Dr. Kenneth C. D. Hickman, who had been asked by the Chamber of Commerce to form a war research committee. Your Research Committee met with Dr. Hickman, and as a result of several meetings, the War Research Committee was organized with practically all

members of our committee serving on it."

"The Papers and Meetings Committee reports that 19 evening meetings were conducted with a total attendance of 2,409 for an average attendance of 127. Largest attendance was recorded on April 10, when Dr. Igor I. Sikorsky spoke on "Recent Developments in Direct Lift Aircraft," before an audience of 346."

December 15, 1943 — (Board of Directors meeting) — "It was announced that in accordance with action taken at the last Board meeting, the President had appointed a committee on Post War Planning as follows: - Frank H. Macy, Chairman, Alexander M. Beebee, Henry L. Howe, Frederick C. Line, Lee McCanne, John W. Morrison, and Leonard A. Waasdorp."

June 6, 1944 — (Board of Directors meeting) — "The Board instructed the Secretary to send a suitable message of our sympathy to Colonel Carey H. Brown, whose son was killed in the European war theatre."

Excerpts from Board of Directors annual report for 1943-44: "Last November, the Society again cooperated with Rochester Section, I.R.E., in presenting the fifteenth annual Rochester Fall Meeting. A feature of the meeting was an exhibit by the Signal Corps. of captured enemy equipment."

May 17, 1945 — Joint meeting with Rochester Section, I.R.E. — "Dr. (George R.) Town, (Chairman of the Section) introduced Norman F. Schlaack and Dr. Charles R. Burrows of Bell Telephone Laboratories, who spoke on the 'Multiplex Radio Link Across Chesapeake Bay.'

From Board of Directors report for 1945-46 — Alexander M. Beebee, President.


"One of the war activities of the Society was completed in November when our Executive Secretary sent in his final report as Fuel Coordinator for this area. Practically all members of the Advisory Committee and Regional Engineers engaged in the National Fuel Efficiency Program for this area are members of the Society.

"The Papers and Meetings Committee reported that 20 evening meetings were conducted with a total attendance of 2,723, for an average attendance of 136. The largest attendance was recorded on April 4 when William Hatton, Deputy Chief Engineer of International Telephone and Telegraph Corporation spoke on "Dial Telephone Equipment for Rochester," before an audience of 418 in Lower Strong Auditorium, the University of Rochester. This was a joint meeting with Rochester Section, A.I.E.E."

"The Luncheon Committee reports 17 luncheons held with a total attendance of 791, for an average attendance of 47. Largest audience for the year heard Dr. Ray H. Manson, President of Stromberg-Carlson Company, talk on War Electronics Turn to Peace Uses, when 76 were present.

### There Were Traffic Problems

"Our Traffic Committee has completed its twentieth Annual Traffic Survey and recommendations. The Board

	<p><b>SIEWERT</b> Equipment Co., Inc.</p> <p>175 AKRON ST. 482-9640 ROCHESTER, N. Y. 14609</p>
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of Directors is appreciative of the work of this committee. Leon R. Brown, members of his Committee, and the Boy Scouts of America, who cooperate in this undertaking each year, are to be commended for valuable services rendered and complimented for a splendid accomplishment."

*(The Annual Traffic Survey was one of the principal civic activities of the RES for 27 years. Each year several hundred Boy Scouts were recruited and trained by members of the RES Traffic Committee. Then, on a designated date there were stationed at key locations, where they made a manual count of all vehicular traffic. After tabulation and analysis by the committee the data thus derived become the basis for recommendations to the municipal government on traffic control, parking, and similar matters. On several occasions this survey was supplemented by another survey of downtown shoppers, in which individuals entering downtown retail stores were asked how they traveled downtown, and if by private car, where they parked. It may be of interest to note that, in such a survey made in August, 1927, of 34,233 shoppers interviewed, 16,572 rode street cars, 8,029 walked, 4,719 came by cars which they parked in private stations, 3,798 came by cars which they parked in the streets, 614 came by steam railroad, and 501 traveled by bus.)*

## Half a Century Completed

March 22, 1947 — The Rochester Engineering Society observed its 50th Anniversary with a dinner in the Large Hall of the Chamber of Commerce. Edwin A. Fisher, the Society's first President, 50 years earlier, was Honorary Chairman, and at the dinner City Manager Louis B. Cartwright pointed out that Mr. Fisher was 99 years, 8 months and five days old. The principal speaker at the dinner was Dr. Charles F. Kettering, Vice President of General Motors Corp., who told the audience in part:

"We have just finished a great war. We furnished six hundred billion dollars worth of materials. There are just two billion people in the world. That means that we spent three hundred dollars for every man, woman and child in the world, for this war...Did you ever figure out what you could do with six hundred billion dollars? We could wipe out every city in the United States and rebuild them for about half that amount. So we did lose it..."

"Here we are at the 50th anniversary of the Engineering Society in a great industrial town. There have been no very magic things happening along the line, but there has been something happening every day, because these things are natural growths...You can never go back and find the value of an organization like this because you don't know where to look for it.... but you go to meetings and hear the papers, and maybe that is the least important thing...but you talk to some fellow, and you talk about things that have to do with your business, and out of that association and conversation comes a great many of the things that happen."

"The history of engineering is a continual change. Today is no better than any other day. Things are no nearer complete today than ever. Today is the boundary line between two eternities — the eternal past and the eternal future. You never know more than half of it — the other half of eternity is ahead of you."

November 24, 1948 — James E. Gleason, Chairman of the Board of the Gleason Works, on the occasion of his 80th birthday was elected an Honorary Member of the RES and the citation was presented to him at an Open House at the Gleason plant on this date.

### *From the Board of Directors' Report for 1948 - 49*

"The Papers and Meetings Committee records that 21 evening meetings were conducted with a total attendance of 2114." Meetings which attracted the largest attendance were on "Performance of Turbojet Engines," by Dr. Louis C. Gibbons of Lewis Flight Propulsion Laboratory, N.A.C.A.; "Efficient Coal Firing in Modern Power Plants," by Otto deLorenz, of Combustion Engineering Co., and a description of the electrical and mechanical features of the new Russell Station of the Rochester Gas & Electric Corp., by Ralph H. McCumber, Irvin G. McChesney, and Ernest K. Huntington, of that firm.

"In addition to the above meetings we cooperated with the University of Rochester in the dedication of the new cyclotron."


February 7, 1949 — The RES wrote to New York Governor Thomas E. Dewey, nominating Walker S. Lee, Superintendent of Buildings for the City of Rochester, for appointment to a new commission to be charged with drafting a State Building Code.

July 21, 1949 — The Executive Secretary wrote to John P. Boylan, chairman of the Board of the Rochester Telephone Corp., expressing pleasure at the improvement in telephone service since installation of the new dial equipment approximately a year earlier.

From the Board of Directors report for 1950-51:

"The Papers and Meetings Committee reports that

*Cont. on Following Page*



Our 40th Year

**ARTHUR W. SCHUSTER CO., INC.**

**GOULDS PUMPS**

and

**ENGINEERED EQUIPMENT**

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**WATER & WASTE WATER TREATMENT**

110 ALLEN CREEK ROAD ROCHESTER, N. Y. 14618

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*Cont. From Preceding Page*

23 evening meetings were conducted with a total attendance of 2010...Largest attendance 171 was recorded for the meeting on December 18, when Prof. Wolfgang K.H. Panofsky of the University of California spoke on "New Frontiers in Atomic Energy." This was held in cooperation with the Physics Department of the University of Rochester. Another well attended meeting was addressed by Dr. Brian O'Brien, of the University of Rochester, speaking on "Motion Picture Photography at Ten Million Frames per Second."

"The Council of Engineering Society Secretaries meets in Rochester June 22-23. Practically all national society and many local society secretaries will attend. Your Executive Secretary is President of the Council for 1950-51." (Your present editor, who at that time was Science Writer for The Democrat & Chronicle, was on the program of that council meeting.)

January 17, 1951 — A letter from RES President Carey H. Brown to Phillip M. Kimmel, Chairman of the Inter-Society Relations Committee of the Monroe County Chapter, NYSSPE, referred to the "excellent spirit of cooperation among engineers and the various engineering groups," and mentioned "the recently organized Engineers' and Architects' Joint Council on Civic Affairs." Later correspondence and reports show that this council was constituted with two members each from ASCE, AIEE, AICHE, RES, NYSSPE, RSA, and ASME.

Report of the RES Board of Directors for the year 1952-53

"Our Traffic Committee conducted its 27th annual traffic survey in April. The report with its recommendations will be ready in a short time. The Committee is engaged in tabulating figures obtained in this survey." (This apparently was the last such survey.)

May 12, 1954 — Report of the Rochester Engineers' and Architects' Joint Council on Civic Affairs: for the Year 1953-54:

"Eight meetings were held under the Chairmanship of Norman Davidson...

"City Planning Commission — For more than two years this Council has conferred with, and written to different personages in the City Government urging that either an engineer or an architect be appointed to the City Planning Commission...

"Rochester Traffic Situation. — The Council was addressed Mar. 10th by Mr. Walkley, Director of City Planning, who explained how the construction of the throughway connections and expressways while expediting traffic, will also permit a simplified solution of this problem on streets of lesser importance...

## Garbage Was Still a Problem

"Garbage Composting. — Since the City Administration has already started two new incinerator projects, the urgency of a decision regarding the disposal of garbage by composting, has been lessened. However, this Council

is still working with members of the Men's Garden Club of Rochester...

"Subway. — This Council is concerned over the future of the subway, and has been collecting information pro and con regarding this subject. From sources which are believed reliable, it is apparently the idea of the City Administration that the State of New York will eventually take over the property for highway purposes."

February 27, 1954 — The Rochester Engineers' Dinner was held in the Great Hall of the Chamber of Commerce. Principal speaker was Brig. Gen. George W. Goddard (Ret.), whose subject was "Modern Photographic Reconnaissance." A prime ribs dinner was served to 191 at a cost of \$3.00 per plate. Tickets were sold at \$4.25 each, and the Dinner Committee realized a net profit of \$31.93.

From the RES Board of Directors Report for 1955-56: "The meeting that had the greatest attendance . . . was the talk given by Vice Admiral Charles B. Momsen, USN, on "The Influence of the Submarine on Sea Power," which was given in the auditorium of Rochester Radio City."

December 5, 1957 — A joint meeting of the RES, ASME, AIEE and AICHE, in the Hotel Sheraton, was addressed by Dr. Clifford C. Furnas, Chancellor of the University of Buffalo, speaking on "The Uses of Solar Energy."

## One View of Irondequoit Bay

From the Report of the Engineers' and Architects' Joint Council on Civic Affairs for the 1956-57 Year: "Irondequoit Bay Development: The Council is opposed to the Development of Irondequoit Bay, believing that the development of the Genesee River port facilities are more important . . . This project would benefit the small boat owners of Irondequoit Bay at considerable expense to the taxpayers. . ."

From the RES Board of Directors Report for the 1957-58 Year: "The Papers and Meetings Committee reports that 17 evening meetings were conducted with a total attendance of 1824. . . Largest attendance was recorded on Nov. 6, when J.G. Reid, Jr., Head of the Earth Satellite Office, spoke on "The I.G.Y. and Its Satellite Program."

October 7, 1959: A joint meeting of RES, ASME, AIEE, AICHE, and IRE, at the Greece Post, American Legion, heard an address on "Education for Creative Leadership in Engineering," by Dr. John W. Graham, Jr., Dean, College of Engineering, University of Rochester.

From the RES Board of Directors Report for the 1959-60 Year: "The Papers and Meetings Committee reports that 15 evening meetings were conducted with a total attendance of 1274. . . The largest audience heard Frank H. Slaymaker, Manager, Electroacoustics Laboratory, Research Division, Stromberg-Carlson Co., speak on "Sonar — The Acoustic Detection of Submarines."



Attendance was 262.

The January, 1961, issue of *The Rochester Engineer* includes an article on "The Early Automobile Industry in Rochester," contributed by the Automotive Committee of the RES.

March 9 1961: A joint meeting of RES, ASME, AIEE, and IRE, at Greece Post, American Legion, heard an address by Hilliard W. Paige, General Manager, Missile and Space Vehicle Dept., General Electric Co., on "The Generation of Electric Power in Outer Space."

March 21, 1961 — An RES luncheon meeting in the Sheraton Hotel was addressed by Donald W. Shepardson, Manager, Product Development, Engineering Dept., Haloid Xerox, Inc., on "Application of Recently Introduced Xerographic Machines in Industry."

A report of the RES Education Committee on its 1961 Survey of Continuing Education for Engineers was published in the September, October and November, 1961 issues of *The Rochester Engineer*. O.L. Angevine, Jr., was chairman of the committee.

Jan. 3, 1963 — A joint meeting of the RES and AIEE, in the Rochester Gas & Electric Corp., heard an address by Robert C. Berger, Applications Engineer and Design Supervisor, General Electric Corp., on "The Impact of Solid State Devices in Industrial Power Control."

Oct. 3, 1963 — A joint meeting of RES, ASME, and

IEEE in Hoyt Hall, University of Rochester, heard an address by Dr. Arthur Kantrowitz, Vice President, AVCO Corp., on "Problems and Progress in Magnetohydrodynamic Power Generation."

Dec. 31, 1963 — O. Laurence Angevine retired from the position of Executive Secretary of the RES, and was succeeded by Norman M. Howden.

Feb. 20 1964 — The "Rochester Engineer of the Year" Award was instituted by the RES, and the first such award was presented to Carey H. Brown. (This required some behind-the-scenes maneuvering, as Col. Brown was chairman of the committee assigned to select the award winner.)

Oct. 1, 1964 — Representatives of 19 engineering and technical societies met at the Faculty Club of the University of Rochester to discuss the feasibility of forming a Council of Engineering Organizations.

Oct. 18, 1965 — A program of four evening seminars, running weekly for six weeks, was begun by the RES, providing continuing education for engineers in: "Management Practices," "PERT — Program Evaluation and Review Techniques," "Computer Techniques for Engineers," and "Mathematics Review."

From the January, 1966 issue of *The Rochester Engineer*: The RES Board of Directors has endorsed the

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## Rochester Products is Proud...

of its employees who work hard to support  
the Rochester Engineering Society:

John F. Schickler  
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James C. St. Amand  
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Edwin C. Story  
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Virender K. Saigal  
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# Rochester Engineering Society.

ROCHESTER, N. Y., JUN 2 1897.

Special Meeting, Friday,  
at the Reynolds Library, Spring Street.

Paper by Mr. **C. O. LANEY,**  
Topic **THE PARKS OF ROCHESTER.**

JOHN F. SKINNER, Sec'y.

## ANNUAL EXCURSION

OF THE

### Rochester Engineering Society,

To NIAGARA FALLS,

SATURDAY, JULY 24, 1897.

TRAIN LEAVES B. R. & P. Ry. STATION, WEST AVE. at 9 A. M.

RETURNING, LEAVES NIAGARA FALLS at 5:15 P. M.

Round Trip \$1.25.

Basket Lunch.

Tickets may be had of LEGRAND BROWN, 90 Exchange Place Bld'g., or the undersigned.

JOHN F. SKINNER, Sec'y

Come and bring your Family and Friends.

Rochester Engineering Society Luncheon  
Tuesday Noon, February 6, 1917  
at 12:20

**PROF. DEXTER PERKINS**  
Professor of International Law, University of Rochester  
will talk on

## "PEACE AFTER THE WAR"

Last week we had the largest crowd of the year  
The Committee

### ROCHESTER ENGINEERING SOCIETY LUNCHEON

Tuesday, January 13, 1920, Hotel Seneca, 12:15 p.m.

Speaker: **DR. C. E. KENNETH MEES**  
Head of the Research Laboratory of the Eastman Kodak Co.

Subject: **"THE CAMERA IN WAR"**  
ILLUSTRATED WITH LANTERN SLIDES  
Dr. Mees has been connected with the Research Laboratory of the Eastman Kodak Co. for a considerable length of time and has been intimately connected with the evolution of photographic apparatus for the use of our army and navy. This will be a very instructive and interesting talk on a subject of which we have heard much but know very little.

JOINT MEETING OF ROCHESTER SECTION, A.S.M.E.,  
AND ROCHESTER ENGINEERING SOCIETY  
THURSDAY, FEBRUARY 22, 1945, AT 8:15 P. M.  
IN ROCHESTER MUSEUM OF ARTS AND SCIENCES, 857 EAST AVENUE.

First Speaker:—Harold R. Condit, Research Laboratories, Eastman Kodak Company.  
Subject:—"Color Motion Pictures of the Whole Sky."  
Second Speaker:—Emil A. P. Raab, Meteorologist, Rochester Station, U. S. Weather Bureau.  
Subject:—"Forecasting the Weather."

Time-lapse kodachrome motion pictures of the whole sky taken on different days from sunrise to sunset will be projected by Mr. Condit, along with slides showing the amount of illumination from the sun and sky which reached the earth's surface on the corresponding days.  
Mr. Raab will discuss observation methods, the equipment used, and some of the applications both in every day life, and in the more specialized fields such as aviation. He will also give a brief summary of the weather during the past two months. He states that there are certain interesting features in the present winter which will, no doubt, become more interesting this month.

BRING THE LADIES

BRING THE LADIES

### Rochester Engineering Society

#### Saturday Afternoon Excursion to the Mines and Plant of Empire Gypsum Co. at Garbutt

Meet in front of Society's Headquarters, Sibley Block, at 1:30 p.m. sharp,  
Saturday, May 24, 1919.

Members having automobiles are requested to assist in furnishing transportation and to have their cars at the Sibley Block not later than 1:30 p.m.  
Wear an old overcoat and hat.

H. O. STEWART, Secretary.

A. I. E. E. MEETING, FRIDAY, MAY 23, SIBLEY BUILDING.

Mr. E. J. ... will speak on "Commercial Applications of Aluminum."

#### ROCHESTER FALL MEETING Institute of Radio Engineers and Radio Manufacturers' Association — Engineering Department

WAR RADIO CONFERENCE  
Monday, November 9, 1942, in the Sagamore Hotel

Directed toward the expediting of production of radio equipment for the war effort. A one day meeting packed with worthwhile addresses and conferences. At the Banquet, at 7 p.m., James L. Fly, Chairman of the Federal Communications Commission and Board of War Communications will be the speaker. Tickets should be purchased before 2 p.m. of November 9.

See Rochester Engineer for Full Program—  
Rochester Engineering Society Cooperating



#### JOINT MEETING OF ROCHESTER SECTION, A.S.M.E., WESTERN NEW YORK-ONTARIO DISTRICT A.S.T.M., AND ROCHESTER ENGINEERING SOCIETY

Thursday, March 10, 1949, at 8:15 p.m. in Hotel Sheraton

Speaker:—Eugene Ayres, Manager, Chemical Laboratory, Gulf Research & Development Co.  
Subject:—"Major Sources of Energy."

In this talk our energy supplies are classified as to sources and uses, and present energy requirements are estimated. Nine "continuous" sources are analyzed. These are given in the order of their magnitude. The "unrenewable" sources of energy, including fissionable elements and fossil fuels, are considered for magnitude of reserves. The fuels are discussed with reference to efficiencies of conversion and of utilization.

A dinner in honor of the speaker will be served at 6:15 p.m. in Hotel Sheraton. Make reservations with the Executive Secretary, R.E.S., Hamilton 8911.



*Cont. From Page 201*

newly-organized Water Resources Council of Monroe County and has become an active member of the Council.

March 1967 — In this, and several succeeding months, the Board of Directors of the RES gave serious consideration to a proposal to convert a large barn on the campus of the Rochester Institute of Technology into an Engineers' Center and Club. However, this project later was abandoned as not economically feasible.

September 6, 1967 — The RES Board of Directors completed action on a revision of its Constitution and Bylaws, establishing professional requirements for full voting membership.

February 10, 1969 — The RES, with several other scientific and technical societies, co-sponsored a lecture on "Science and Survival of the City," by Dr. Barry Commoner at the Nazareth College Auditorium.

March 24, 1969 — A public meeting on "The Rochester Metropolitan Transportation Study" at the Rochester Institute of Technology was co-sponsored by the RES, the MPES, and ASCE.

## Operation RESOURCE

March 1971 — Organization of "Operation RESOURCE" was begun by the RES to undertake a study of solid waste management for the Rochester community. A task force that ultimately numbered more than 100

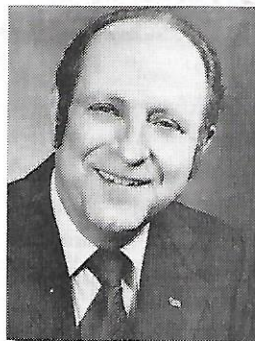
volunteers addressed this problem and, in April, 1972, published a report and recommendation. It is as a result of this study that the County's Resource Recovery Facility is now being built.

April 30, 1974 — Norman M. Howden retired from the position of Executive Secretary of the RES, and was succeeded by Edwin F. Stevens.

April, 1975 — The RES established a "Technical Skills Bank" through which a wide range of technological expertise can be made available on a volunteer basis to public service agencies at local levels.

November, 1976 — A Technology Transfer program for the City of Rochester and the County of Monroe, with financial support from the National Science Foundation, was instituted by the RES. Andrew C. Hirsch was appointed Manager of the project.

March 1, 1977 — Edwin F. Stevens resigned from the position of Executive Director of the RES. Norman M. Howden returned to the position on a part-time, interim basis.



*Joseph W. Campbell*

May 9, 1977 — Joseph W. Campbell, former Supervisor of the Town of Gates and former Clerk of the Monroe County legislature was appointed Executive Director of the Rochester Engineering Society by the Board of Directors. □



## Just the Beginning!