



ISAWWA

ILLINOIS SECTION-AMERICAN WATER WORKS ASSOCIATION

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ILLINOIS SECTION

AMERICAN WATER WORKS ASSOCIATION

PUBLICATIONS COMMITTEE

C. L. BAYLOR - EDITOR

ARMON LUND J. L. HART

E. W. DEBERARD

*Merry Christmas
and a
Happy New Year
too!*

EDWARD E. ALT

OSCAR GULLANS

F. G. GORDON

H. E. HUDSON, JR.

W. R. GELSTON

C. W. KLASSEN

J. LESLIE HART

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— UNDER THE TEPEE FLAP —



JUST TO PROVE TO EVERYBODY'S SATISFACTION THAT THE WATER SUPERINTENDENTS OF ILLINOIS ARE ABLE TO CATCH THE LARGEST FISH, WE SHOW FRANK C. AMSBARY, JR., MANAGER OF THE ILLINOIS WATER SERVICE CO. AT CHAMPAIGN, WITH THE SAIL FISH WHICH HE CAUGHT AT MIAMI WHILE ATTENDING THE NATIONAL MEETING LAST SPRING. WITH HIM, FOR VERIFICATION, ARE MR. AND MRS. E. D. BARRETT. MR. BARRETT IS DISTRICT SALES MANAGER FOR THE CHICAGO BRIDGE AND IRON CO. AT DETROIT. WE UNDERSTAND THAT THERE WERE AT LEAST FIFTEEN BOATS OUT EVERY DAY OF THE WEEK, BUT NONE COULD EQUAL FRANK'S CATCH.

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NEWS OF RECENT MEETINGS



YES, WE KNOW THAT THERE ARE THOSE who would not be able to attend all of the meetings which come along, but for some reason or other we feel that it is a crime that time is not taken off to increase your knowledge of what and why the other fellow is doing and how you can apply it to your own plant. We feel that you and your municipality are the losers, and we really feel sorry for you. Maybe the following resume of the meetings which have been held

in the past couple of months will bring out your urge to attend the forthcoming meetings.

On October 19th and 20th your Illinois Section were the co-sponsors of the NORTHERN ILLINOIS WATERWORKS INSTITUTE, at which meeting 131 attendants heard five men of national reputation speak. A study of their past lives is history in the making.

First on the program was Clarence W. Klassen, Chief Sanitary Engineer, Illinois Department of Health, who spoke on "Illinois - A Century of Public Water Supply". He told us how and why the first water system was installed at Equality back in 1834, and from this beginning how the water supplies were installed each decade up to the present. He also stressed how the supplies were improved to make them adequate, safe, clean and soft for customer use.

Louis R. Howson, consulting engineer of Alvord, Burdick and Howson, discussed a paper on "Economics of Water Works Operation" and in which he gave a comparison of the cost of water per year per capita for the past several decades. He stressed the proper methods of obtaining an equitable rate by careful analysis of your assets and obligations. Without this study it is almost impossible to obtain a just rate or even an increase in rates.

A most complete report on "One Hundred Years of Filtration Practice" was given by John R. Baylis, Engineer of Water Purification, City of Chicago. He gave us a complete history of the practice of filtration and the many methods that had been developed by as many engineers, and how, by the combining of the best features of each, they had developed for the south side plant one of the most efficient filtration plants in operation today.

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W. W. DeBerard, City Engineer for the City of Chicago, reported to the group on the "Proposed Plans for the Central District Filtration Plant". He told how the plans had progressed from the idea stage to the completed plans and specifications, of all the meetings which had to be held with the various civic organizations ironing out their many questions, how legislation had to be obtained at Springfield and of the approvals which had to be procured from Washington. He stated that he hoped that construction could be started in the near future, since the plant would take about three years to complete.

A paper on "The Management of Water Works" was delivered by Harry E. Jordan, Secretary of A.W.W.A., in which he pointed out that any properly designed and operated water supply system in the United States can pay its way and expand itself in step with community growth.

After the banquet one of the most momentous occasions took place when Baylis, DeBerard and Jordan were presented with the following citations which are only a small indication of the great services these men have rendered to their profession. (See Citations on another page.)

Following the presentation of the Citations, Jim Brower, Engineer of the Milwaukee Sewage Treatment Plant, gave a most interesting discussion of the trials and tribulations he had experienced in his life from the time he left Holland until the present. Altho he is in the "used water" department, all operators could see the comparison of his and their troubles in the "water supply" department.

On Saturday, two exceptional events were in store for those who attended. In the morning a conducted tour of the Northwestern Technological Building disclosed a few of the many experiments which are conducted there by the staff. Each laboratory was a wonder in itself.

In the afternoon, something new and novel for a water operators' meeting was scheduled. All those who purchased the necessary tickets saw the Northwestern football team defeat Navy. (Eds. Note: If this is the type of program which you would like again let us know and we will pass the news on to the responsible parties.)

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The Twentieth Annual Water-Plant Operators' Conference, which is sponsored by the Division of Sanitary Engineering, State Department of Public Health, officially opened their meeting at Springfield on October 23 with a

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business session and a few pointed remarks by Chief Sanitary Engineer C. W. Klassen on the new Public Water Supply Control Law which was passed at the last legislature. There was also a showing of a motion picture, "Pipe Lines In The Clouds", which every operator should see and show to his schools and civic organizations.

This was followed by a panel discussion on "How's Your Water Works Maintenance" and was headed by C. C. Larson, Superintendent of Water Purification, Springfield. His panel, consisting of Ted. Seabrooke, J. H. Clow & Sons, Chicago, stressed the fact that it is necessary for every superintendent to keep a good set of permanent records of everything in his system.

Clyde Hum, Calmet Water Meters, Springfield, discussed the methods of making repairs on meters, how often they should be cleaned, what size should be used and the value of battery installations.

M. P. Schneller, Aurora Pump Company, Aurora, explained that pumps are simple mechanisms, however if trouble does occur it is well to know who to call to make the necessary repairs. He also brought out the necessity to determine the pump's efficiency of having instruments to test the voltage, amperage and gallons per minute of water pumped.

J. Leslie Hart, U. S. Pipe, Chicago, reviewed the specifications on cast iron pipe and fittings. He said that when ordering pipe it would be well for the superintendent to either present his problem to the pipe salesman or carefully check the specifications before ordering. Since pipe is now on a three to four months' delivery basis, it would be well for the superintendent to check his stock and order for the future.

Jeff Abplanalp, Wallace & Tiernan, Chicago, told us that most of the troubles encountered in the operation of chlorinators was due to dirt either from the water or from the chlorine.

Wm. Mitchell, Permutit Co., Chicago, gave us a brief resume of the history of filter plants in Illinois and stated that many of them are turning out excellent water with these old plants because of the fact that a proper job of maintenance is being done by the operator.

That afternoon, S. O. Elliott, Deputy Director, Office of Illinois Civil Defense, Chicago, discussed "Civil Defense and Water Supplies". He explained the action of the atom bomb, both in the air and under water, and gave us the distances of varying devastation and how the mutual aid system is being set up. He stressed the fact that the water superintendent should prepare himself for protect-

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ion of his system against contamination and sabotage, the emergency repair of a bombed area, provide for water for fire protection, and the providing of a water supply to take care of the influx of people from a bombed area.

The new National Production Authority Water Works Regulations was explained by Paul J. Fields, District Manager, Decatur. He brought out that the use of the controlled materials plan was not difficult, however if any operator was having difficulty in obtaining materials his best procedure would be to contact the nearest Federal office.

One of the most interesting panel discussions was conducted by C. W. Klassen on Fluoridation. He gave us a history of Fluoridation and how fluorides in water had affected the teeth. Dr. J. R. Blayney, of the University of Chicago, discussed quite completely all of the methods used in making the Evanston study and how they had approached the subject to the city before the addition of fluorides to the Evanston water supply.

Dr. N. J. Rose, State Department of Public Health, Springfield, stated that it would be the policy of the State Department to approve the addition of fluoride to the public water supplies if all of the necessary provisions which they have set up could be met by the Water Department.

The methods which are employed in Wisconsin for the addition of fluorides to the water was explained by O. J. Muegge, State Board of Health, Madison, Wisconsin. He showed many slides of the sixty-three installations which are now operating in Wisconsin and gave us a cost of the application, by the various methods.

The thoughts of mothers and housewives was brought into the picture by Mrs. Laura Lunde, of Chicago. She told us how in many cases bad teeth brought on delinquency in children, and any preventive which could be used to delay tooth decay should be appreciated by all mothers.

The banquet in the evening was most enjoyable because we heard Clarence V. Ammenoff, of Elburn, Illinois, discuss the many proper ways in which the doughnut can be dunked and the psychological effect it has upon the common association of peoples. Along the serious side, C. W. Klassen gave us the history of the Water-Plant Operators' Conference and how ten years ago they started awarding the trophy to the operator who had contributed the most towards the better operation of his department. Since this trophy can be held by the operator for a one year period, the State Department of Public Health had plaques made and presented to each of the former winners and which became his permanent possession.

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The event of the evening was the presentation by C. W. Klassen of this year's operator award to Spence Merz, Superintendent, at Rockford. Klassen gave a complete report of the activities and benefits derived by the city of Rockford in the many contributions which Spence has made to that city since 1935. Each and every operator in attendance felt that no better person could receive this trophy than Spence Merz.

On Wednesday morning, October 24th, a laboratory session, which is always looked forward to by all operators, was conducted by E. S. Clark and J. G. Weart, Chemists with the State Health Department. They explained and showed many new developments on the methods of making water tests. For the final session of the meeting, the operators broke up into three groups for a round table discussion on "Ground Water and Distribution Systems", "Iron Removal and Zeolite Softening", and "Water Purification and Lime-Soda Softening". This is the session in which each operator has the opportunity to bring up for discussion any problem which is troubling him.

At the business session John Briggs of Freeport was elected chairman, Paul Graden of Hillsboro, Vice-Chairman and Herman Welton, of Chester, as Secretary. Total registration for the meeting was 413, of which 30 were ladies.

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RECIPIENTS OF COMMENDATION FOR MERITORIOUS SERVICE AT NORTHERN ILLINOIS WATERWORKS INSTITUTE WERE HARRY E. JORDON, W. W. DEBERARD AND JOHN R. BAYLIS

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NORTHWESTERN TECHNOLOGICAL INSTITUTE

Commendation for Meritorious Service

JOHN ROBERT BAYLIS

*has received official commendation and praise
for outstanding performance of service in the
production of safe and potable water.*

Citation

For meritorious service in dedicating his life to outstanding research and development work in water treatment. His service has been of incalculable benefit to the water works profession and to the general public. His special contributions in improving the quality of public water supplies are in the fields of water treatment for removal of objectionable tastes and odors, coagulation, corrosion prevention, and design and operation of rapid sand filters. This significant work, most of which was carried on while he was connected with the Chicago Water Department, has gained for him world wide recognition.

Philip C. Rutledge
Chairman, Civil Engineering Department

Orin H. Eschbach
Dean

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NORTHWESTERN TECHNOLOGICAL INSTITUTE

Commendation for Meritorious Service

WILFORD WILLIS DeBERARD

*has received official commendation and praise
for outstanding performance of service in the
production of safe and potable water.*

Citation

This award is presented in recognition of distinguished services to the water works profession. It expresses an awareness of a full life, significant for outstanding contributions in the fields of design, technical review, counsel and engineering administration. It is a measure of appreciation of the executive ability which insured filtered water for a third of the population of one of the world's largest cities. This work has laid a firm foundation for the provision of similarly pure water for the remainder of the city's millions.

Philip C. Rutledge
Chairman, Civil Engineering Department

Orin H. Eschbach
Dean

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NORTHWESTERN
TECHNOLOGICAL INSTITUTE

Commendation for Meritorious Service

HARRY EDWARD JORDAN

*has received official commendation and praise
for outstanding performance of service in the
production of safe and potable water.*

Citation

This award is presented for his life long contributions to the development of sound water works practices. His achievements have made this country a safer and a better place in which to live. He is a tireless worker who inspires his associates to their best efforts. His ever widening horizons are reflected in numerous writings. His services as Advisor and Editor-in-Chief of Standard Methods of Examining Water and Sewage, as Executive Secretary of the American Water Works Association and as Editor-in-Chief of its Journal, attest to his leadership in the water works field.

Philip C. Rutledge
Chairman, Civil Engineering Department

David H. Eshbach
Dean

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MEMBERSHIP ACTIVITIES



THE LAST TIME I REPORTED was on our total membership as of April, 1951, at which time we had 479 members. Our total as of September is 477 members. Now, that looks like a loss, but quite a few new members have come into the section and we have had some losses due to non-payment of dues and transfers out of the state. However, the total combined figures amount to a loss of two members.

Following are the new members we wish to welcome into the tribe and, also, those who have been transferred into the section:

Donald L. Caldwell
Caldwell-Rhoads Company
Civil Engineering
Jacksonville, Illinois

Orval J. Kuhn
Waterworks Supt.
Water Treatment Plant
R. R. 5
Canton, Illinois

James E. Mulford
Consulting Engineer
Mulford Engineering Serv.
33 W. 16th Street
Chicago Heights, Illinois

Hugh L. Baker
Vice-President
Mueller Company
Decatur, Illinois

Arthur L. Soderberg
Sales Engineer
Calgon, Inc.
53 W. Jackson Blvd.
Chicago 4, Illinois

Bernt O. Larson
Associate Professor
College of Engineering
University of Ill.
310 Transportation Bldg.
Urbana, Illinois

Frank C. Foley
Head
Ground Water Division
Ill. Geological Survey
Natural Resources Bldg.
Urbana, Illinois

The following were transferred into the Section:

Morton Salt Company
120 S. LaSalle Street
Chicago, Illinois

Francis E. Grundler
Alvord, Burdick & Howson
1401 Civic Opera Bldg.
Chicago 6, Illinois

E. R. Dougherty
111 W. Main Street
Casey, Illinois

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NEWS OF THE TRIBE

WE ARE ALWAYS HAPPY TO HEAR OF THOSE who are interested enough to further their education. So it is with LEVERNE HUDSON, Principal Sanitary Engineer with the State Health Department, who has taken time off to attend the University of Michigan for a year to obtain his Master's Degree. GOOD LUCK on those Exams, Vern.

When a man retires we are always interested to know what he intends to do, so when LEWIS BIRDSALL informed us that he had retired as of June, 1951, we found that he intends to catch up on his loafing. THAT we agree with heartily, since he has put in 29 years with his company. We note from the records that he has been a member of the A.W.W.A. since June, 1913.

While talking to some of the Superintendents at these meetings, we were surprised to learn of the number of years they have spent with their departments. Two of these who have spent approximately 45 years at their jobs are JAMES P. MURPHY, Filtration Plant Superintendent at Pontiac and NICK HOELTZNER, Superintendent at Rock Island. Nick said he could remember way back when he pumped raw Mississippi water into the mains for human consumption. We dare him to try it now.

C. W. KLASSEN, Chief Sanitary Engineer of the State Department of Public Health, has brought to our attention the new "Public Water Supply Law", which was enacted into State Law on August 6th. He said that as soon as he has copies made he will send them to all operators. He wishes to point out that although this is not an operator's license law, in a way it has the same effect since it is now a requisite by law that a water department supply a water that is "assuredly safe in quality, clean, adequate in quantity, and of satisfactory mineral character for ordinary domestic consumption".

We were not able to attend the Dedication Conference held at Urbana and sponsored by the State Water Survey. We understand that it was a real meeting and comments prove that the boys in the State Water Survey really did a "bang-up" job. Congratulations!

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— SOMETHING NEW IS BEING ADDED —

WORD COMES FROM Clarence W. Klassen, Chief Sanitary Engineer, State Department of Public Health, that the following water works improvement projects have been approved by his office.

PEOTONE - New deep well turbine pump, connecting piping, chlorinator.

LOMBARD - Drilling of well.

CARBONDALE - Fluoridation equipment.

ROBBINS - Connection to Chicago water supply, pumping station, elevated tank, distribution system extensions and appurtenances.

CHESTER - Proposed improvements to waterworks, including fluoridation equipment.

PETERSBURG - Proposed improvements including reinforcing water mains, water main extensions, new elevated tank and appurtenances.

TOLUCA - New ground-storage reservoir, high-service pumping station, turbine well pump installation, and appurtenances.

WHEATON - New water-main extensions and appurtenances.

ATKINSON - New booster pumping station, chlorinator, aerator, ground-storage reservoir, and appurtenances.

CREVE COEUR - New booster pump, pump station, pressure tank, and connecting low-pressure main.

PERMITS FOR WATER MAINS have been issued to:

DES PLAINES

GLENCOE

LAKE ZURICH

CANTON

DECATUR

HAZEL CREST

PONTIAC

NILES

KANKAKEE

MELROSE PARK

HARVARD

STREATOR

PRINCETON

EVERGREEN PARK

CENTRALIA

MC COOK

GENOA

PONTIAC

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