

Federal Telegraph Company's Research Laboratory under Doctor Kolster, is now radio engineer for the Mackay Radio and Telegraph Company, Hobart Building, San Francisco, Calif.

WILLIAM B. WEST has recently returned from the American Legion Convention in Paris. While abroad, Mr. West spent much of his time visiting power plants and manufacturers of electrical machinery, and now has in his possession an interesting collection of photographs of foreign methods and machines; also a technical description of the New Barking Station of the County of London Electric Supply Company.

PROFESSOR GEORGE C. SHAAD, head of the Department of Electrical Engineering at the University of Kansas, has been appointed Dean of its School of Engineering and Architecture. The appointment which was made early in November became effective at once, Dean Shaad succeeding Dean Perley F. Walker, for whom he was acting dean while Dean Walker was in military service 1917-1918. Professor Shaad, who has been a Fellow of the Institute since 1913, is also a member of the Illuminating Engineering Society, the Kansas Engineering Society and the American Society of Mechanical Engineers.

Obituary

F. E. Norman, sales manager of the Line Material Dept. of the Oliver Iron & Steel Corp., Pittsburgh, Pa., died November 3, at the age of 37. Mr. Norman was born at Hamburg, New Jersey, and before undertaking his electrical career attended the State Normal College for two years. His first work in the field was with the Electric Bond and Share Company, as material and construction engineer. Remaining with this company for three years, he then joined Messrs. Hubbard and Company (Electric Materials Department) as their sales representative in New York City, being transferred later to the Pittsburgh office to become advertising manager there. Early in 1927, he associated himself with the Oliver Iron & Steel Company as sales manager of its Line Material Department, which was his position of service at the time of his death. Mr. Norman joined the Institute in 1921.

F. E. Idell, consulting mechanical engineer, and an Associate of the A. I. E. E. since 1887, died September 29, 1927 at his home, Allentown, N. J. Mr. Idell was born in Hoboken, New Jersey, in 1856. He graduated from Stevens Institute of Technology in 1877 and in 1921 received its degree of Doctor of Engineering. For forty years Mr. Idell served the Cochrane Corporation, formerly the Harrison Safety Boiler Works, at Philadelphia, as its New York representative, leaving behind him a record most creditable when he left to establish his own consulting office. He was a member of The American Society of Mechanical Engineers, the Engineers Club of New York, the University Club of Brooklyn, and the Brooklyn Chamber of Commerce.

Harry L. Brown, Secretary of the Ohio Brass Company, former editor of the *Electric Railway Journal*, and former assistant editor of the *Electrical World*, died of appendicitis while returning to his home at Mansfield from the Ohio-Michigan football game. Born in Barry County, Michigan March 1889, Mr. Brown was educated in the grammar and high schools of Grand Rapids. In 1908 he entered the University of Michigan,

and was graduated in 1912 with the B. E. E. degree. He was promptly made editor of *Electric Traction*, remaining as such for two years; then he was chosen special engineer of the Chicago Telephone Company. In 1915 he returned to press work however, and became assistant editor of the *Electrical World* in the Chicago territory. Here he was in close contact with all phases of central station work, giving particular attention to the electrical distribution systems, new power plant design and construction, illumination problems, etc. In 1917 he was made western editor of the *Electric Railway Journal*, responsible for editorial matter from the central west and naturally in close contact with the electrical side of the electric railway industry, with extensive study of automatic substations, all electrical developments and other engineering considerations. In 1918, he responded to military call first as 1st Lieutenant and then Captain of the Signal Corps, U. S. A., in charge of the preparation and supply of technical training literature for the Signal Corps. In fact in his book, "Radio Engineering Principles," completed in 1919 for use as a college text book in the Signal Corps courses being given by twelve universities, he endeavored to bring the theory of radio up to the minute including such developments as were made during the war. Mr. Brown never tolerated mediocrity in anyone, himself included, and if he did not spare others in any given task which he allotted them, neither did he spare himself. This was never made more evident than in his important work of 1924, when with Secretary Welsh and Harley Johnson, as members of the committee on foreign practise, he spread before the industry a summary of foreign practises with comment on the applicability of European methods for adoption in the United States. As commented by the president of the McGraw Hill Publishing Company, Mr. Brown served faithfully and loyally and his constructive influence was one which industry could ill afford to lose. He joined the Institute in 1919.

James Ray Craighead, assistant engineer of the engineering laboratory of the General Electric Company, and Fellow of the Institute, died suddenly at his home, Rosendale Road, Schenectady, N. Y., November 22, of angina pectoris. Mr. Craighead was born at Saratoga Springs, N. Y., July 14, 1874, and there received his early education. He was an 1898 graduate of Williams College with the degrees of B. A. and M. A. He was also an enthusiastic student of arts and sciences, a facile writer and a graduate in chemistry and physics with Phi Beta Kappa rank. For ten years he was principal of the Lansingburgh (N. Y.) Academy, now a part of the Troy public school system, his was a most successful teaching career. In 1908 he joined the General Electric Company and has been with them ever since. Mr. Craighead was prominent in many laboratory developments, including a system of metering for electrified railroads, instrument transformers, and methods and apparatus for standardizing transformers. He has also done much in developing standards for electrical machinery for the General Electric Company as well as other engineering societies. He was Chairman of the Institute's Committee on Instruments and Measurements, past chairman of the Schenectady section, chairman of the Steinmetz Memorial Lecture Endowment, member of the American Physical Society, the A. S. M. E. Power Test Codes, Instruments and Measurements committee, and a Theta Delta Chi.

Past Section Meetings

Cleveland

An Engineering Yardstick Applied to Residence Lighting Equipment, by Ward Harrison, Director, Illuminating Engg. Dept., Nela Park. October 27. Attendance 80.

Columbus

Electric Refrigeration, by R. L. Robillard, Frigidaire Corp. Illustrated with the following motion pictures: "Sands on a Slippery Sidewalk" and "Diagrammatic Operation of the Frigidaire." October 28. Attendance 33.

Connecticut

Transmission of Pictures over Telephone Circuits, by R. D. Parker, A. T. & T. Co. Illustrated. October 25. Attendance 150.

Cincinnati

Inspection trip to Wright Aviation Field, and a dinner, at which a talk was given by Major Dill on "The Spokane Air Races." At the meeting which followed talks were given by Lt. Wolf on "Radio Beacons" and Mr. Showalter on "Earth Inductor Compass." Illustrated. October 18. Attendance 450.

Denver

The Range of Communication, by Bancroft Gherardi, National President, A. I. E. E. Illustrated with motion picture depicting the transoceanic telephone service. September 23. Attendance 90.

Romance of Power, by C. M. Ripley, General Electric Co. Illustrated. The meeting was preceded by a dinner. October 21. Attendance 200.

Transmission-Line Stability, by A. W. Copley, Westinghouse Elec. & Mfg. Co. Illustrated. October 28. Attendance 50.

Detroit-Ann Arbor

Recent Developments in Single-Phase Motors, by Prof. B. F. Bailey, University of Michigan. October 18. Attendance 275.

Erie

Taking the Teeth Out of Lightning, by H. M. Towne, General Electric Co. Illustrated. October 18. Attendance 80.

Fort Wayne

Electric Arc Welding in Manufacture and Construction, by D. H. Deyoe, General Electric Co. Illustrated. November 10. Attendance 110.

Indianapolis-Lafayette

The Trend of Science in Management, by L. W. Wallace, Executive Secretary, American Engineering Council. October 27. Attendance 427.

Kansas City

Aviation, by Capt. Francis Poindexter, Reserve Air Corps. Illustrated. October 17. Attendance 35.

Standardization in Engineering Work, by A. P. Denton, Denton Engg. & Construction Co., and

Liquid Air, Electricity and Magnetism, by Dr. H. P. Cady, University of Kansas. Joint meeting with University of Kansas Branch. November 1. Attendance 100.

Los Angeles

High-Voltage Oil Circuit Breakers for Transmission Networks, by Roy Wilkins, Pacific Gas and Electric Co. Illustrated. The meeting was preceded by a dinner. November 1. Attendance 135.

Lynn

Instruments Used in Aeronautics, by Prof. Wm. E. Brown, Mass. Inst. of Tech. Illustrated. October 26. Attendance 159.

Recent Developments in Electrical Insulation, by L. E. Barringer, General Electric Co. November 9. Attendance 125.

Pittsburgh

Tendencies in Modern Transportation, by N. W. Storer, Westinghouse Elec. & Mfg. Co. September 13. Attendance 400.

Television, by H. M. Stoller and J. W. Horton, The Bell Telephone Laboratories. October 11. Attendance 650.

Pittsfield

Inspection trip to the following industries: Cluett, Peabody and Co., Ford Motor Co., Ludlum Steel Co., and John A. Manning Paper Co. October 12. Attendance 150.

To the North Pole and Back Again, by Floyd Bennett, U. S. N. A dinner preceded the meeting. November 1. Attendance 900.

Portland

General Problems Relating to High-Voltage Systems, by R. D. Evans, Westinghouse Elec. & Mfg. Co. September 27. Attendance 70.

Providence

Modern Power-Plant Design in This Country and Abroad, by G. A. Orrok, Consulting Engineer. Illustrated. The talk was preceded by an inspection trip to the Somerset Station of the Montaup Electric Co. October 25. Attendance 80.

Rochester

Engineering Features of Radio Station WHAM, by A. B. Chamberlain, and

The General Subject of Broadcasting, by E. E. Chappell. After the talk the members visited the new WHAM Studio. Joint meeting with I. R. E. and R. E. S. October 7. Attendance 175.

St. Louis

The Emmet Mercury-Vapor Process, by L. A. Sheldon, General Elec. Co. Illustrated. September 21. Attendance 132.

The Economic Factors Affecting Apparatus Designs, by T. S. Perkins, Westinghouse Elec. & Mfg. Co. Illustrated. October 18. Attendance 51.

Schenectady

Smoker. October 21. Attendance 225.

Low Cost: What the Engineers Can Do, by W. R. Burrows, General Electric Co. Preceding the lecture a motion picture, entitled "The Making of Lamps," was shown. Joint meeting with A. S. M. E. October 27. Attendance 200.

Seattle

The Application of Carrier Current to Relay Protection, by A. S. Fitzgerald, General Electric Co. October 11. Attendance 77.

Sharon

The Modern Reproduction of Sound, by C. R. Hanna, Westinghouse Elec. & Mfg. Co. October 12. Attendance 158.

Spokane

General Problems Relating to High-Voltage Systems, by R. D. Evans, Westinghouse Elec. & Mfg. Co. October 3. Attendance 26.

A Carrier-Current Pilot System of Transmission-Line Protection, by A. S. Fitzgerald, General Electric Co. October 13. Attendance 20.

Springfield

Central-Office Machine Switching, by Ralph Sheppard, New England Telephone Co. October 17. Attendance 90.

Syracuse

Power-Transmission Systems and Interconnections, by Robert Treat, General Electric Co. Illustrated. October 31. Attendance 136.

Toledo

Research in Concrete Mixtures in Building Construction, by Col. Boyden. October 12. Attendance 71.

Toronto

Communication Interference, by J. L. Clark, Bell Telephone Co. October 14. Attendance 88.

Urbana

Theory and Manufacture of Electrical Measuring Instruments, by A. F. Corby, Weston Electrical Instrument Corp. Joint meeting with Electrical Engineering Society. October 18. Attendance 224.

Utah

Stability of High-Voltage Power-Transmission Systems, by A. W. Copley, Westinghouse Elec. & Mfg. Co. Illustrated. October 31. Attendance 30.

Vancouver

High Lights of Telephonic Transmission, by C. H. McLean, B. C. Telephone Co. Illustrated. November 1. Attendance 93.

Inspection trip to the Seymour-Douglas Exchange of the B. C. Telephone Co. November 5. Attendance 24.

A. I. E. E. Student Activities

ELECTRICAL SHOW AT PENNSYLVANIA STATE COLLEGE

In an electrical show held by the Pennsylvania State College Branch on Alumni Homecoming Day, October 29, 1927, the 22 exhibits covered a wide variety of subjects and were viewed by several thousand persons.

Some of the exhibits of an instructive nature included plans and pictures of a hydroelectric plant, a model substation and transmission line, Jenkins picture transmitting apparatus, automatic tele-

phone equipment, electric meters and parts, a Tesla coil in operation, etc. Several exhibits illustrated use of colors in illumination.

Among the "trick" exhibits were a wireless light, a mysterious egg, rotating copper ball floating in a glass jar, a tin can lid motor, and a bucking motor.

There were several exhibits of household appliances and radio receivers. A Panatrop with loud-speakers in various parts of the room furnished music.