

ALUMNI NEWS

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The San Francisco Chapter meets weekly for lunch at the Fraternity Club, 345 Bush Street, on Mondays.

WILLIAM G. YOUNG '29 CHOSEN UCLA RESEARCH LECTURER

DR. WILLIAM G. Young '29, professor of chemistry and dean of the Division of Physical Sciences at U.C.L.A. has been chosen faculty research lecturer at that school for 1946-47. His selection was based largely upon his research on unsaturated organic chemical compounds and their reactions, a field in which he has received national recognition.

Two of the best-known chemical problems to which Dr. Young has devoted his attention are: First, the allylic rearrangement and second, cis-trans isomerism. Fundamental contributions have been made in correlating the nature of the products from reactions of allylic compounds with the mechanisms operating. Although Dr. Young's work has been principally in the fields of pure science, practical applications of his discoveries are thought to be possible in the fields of synthetic polymers and this relation to natural rubber and in many phases of the petroleum industry.

Dr. Young was graduated from Colorado College and took his Ph.D. from the Institute. He has been on the Los Angeles campus since 1930 and has been chairman of the chemistry department since 1940. Last December he was appointed dean of the division of physical sciences.

DUANE ROLLER '29 WINS OERSTED MEDAL

THE American Association of Physics Teachers has awarded the Oersted Medal to Duane Roller. Ph.D. '29, professor and head of the Department of Physics at Wabash College, Crawfordsville, Indiana. The award is made annually "for notable contributions to the teaching of physics."

Dr. Roller was co-author with Dr. Robert A. Millikan, another holder of the Oersted Medal, and Professor E. C. Watson of **Mechanics, Molecular Physics, Heat, and Sound**. This college physics text has been used at the Institute and other colleges for almost 10 years. While at C.I.T., Dr. Roller showed such great interest and ability in the teaching of freshman and sophomore physics courses that he was invited to work with Dr. Millikan and Professor Watson in the preparation of the new text. Besides his work with **Mechanics, Molecular Physics, Heat, and Sound**, Dr. Roller has also edited the *American Journal of Physics* since it was founded in 1933.

Dr. Roller did his undergraduate work at the University of Oklahoma. He also received the Master's degree at Oklahoma and taught there for 13 years, partly before and partly after his work for the Doctorate at the California Institute. Subsequently he was a research associate at Columbia and associate professor at Hunter College. During the First World War he was a pilot and during the recent war he was chief technical aide of the National Defense Research Committee.

The formal award was made at the January 31 session of the annual meeting of the American Association of Physics Teachers at Columbia University. In his address of acceptance Dr. Roller discussed one of his chief professional interests, physical terminology, another field in which he has made notable contributions both to the teaching of physics and to the science itself.

DUNNE AND HONEY SAILING HERE FROM EAST COAST

SAILING a 35-foot schooner from Nova Scotia to California is the means which Brian Dunne, Jr. and Dick Honey, both of the class of '45, have chosen to "get away from everything." Brian and Dick, together with two other former Navy men, have a tentative voyage mapped out which will carry them down the inland waterway to Florida, including a cruise through the West Indies, passage through the Panama Canal, and eventual arrival in California.

Brian served three years as navigator on Navy transports in the Pacific, and the men bought the converted fishing boat a month after discharge, christening her *Utopia*. Brian says the purpose of the trip is to "get away from everything until it settles down. Labor troubles, shortages and general unrest have things topsy-turvy. We believe conditions will be much improved in a year or so and meanwhile we're having the time of our lives."

FACULTY NOTES

Dr. Beno Gutenberg, professor of geophysics at the Institute since 1930, has been appointed director of the Seismological laboratory.

Dr. Ian Campbell has recently been promoted from associate professor to professor of petrology.

G. K. HARTMANN '33 JOINS NAVAL ORDNANCE LABORATORIES STAFF

DR. GREGORY K. Hartmann '33 has been appointed assistant chief of the Explosives Division of the Naval Ordnance Laboratories at White Oak, Maryland. He had previously been with the Applied Explosives Research Group of the Naval Bureau of Ordnance.

A consultant in experimental physics primarily concerned with explosive phenomena while with the Bureau of Ordnance, Dr. Hartmann was technical director of the Bureau's Instrumentation Group with the Bikini task force which was responsible for measuring the air blast and water shock for both bomb tests, and for measurements of radiation intensities at the time of the explosions. His group consisted of about 95 technicians and scientists.

During the war Dr. Hartmann made several trips abroad on Navy business. In 1943 he was assigned the task of surveying the state of British explosive research, and in 1944 returned to England to obtain information concerning certain aspects of problems connected with minesweeping. In 1945, following V-E Day, the Bureau of Ordnance sent Dr. Hartmann to Germany, where he traveled extensively interviewing German scientists to determine their knowledge in explosive research.

Receiving his B.S. degree in 1933 from the Institute, Dr. Hartmann went to Queens' College, Oxford University, England, as a Rhodes scholar. He was graduated from there with a B.A. degree in mathematics in 1936. He then returned to the United States and became an assistant in physics at Brown University while working on his Ph.D., which he received from

that institution in 1939. Next he went to the University of New Hampshire, where he remained as assistant professor of physics until joining the staff of the Bureau of Ordnance concerned with supersonic acoustics in 1941.

While at the Bureau of Ordnance, Dr. Hartmann worked on explosive experiments at the Underwater Explosives Laboratory, Woods Hole, Massachusetts. Besides his many other contributions to the explosives field, Dr. Hartmann has developed instruments and measurement techniques for determining explosive power.

EDWARD A. WHEELER EX '43 HEADS FM BROADCASTING COMPANY

EDWARD A. Wheeler, ex'43, is president of the North Shore Broadcasting Company, Inc., which opened station WEAW in Evanston, Illinois, the first of February. Wheeler has supervised the organization of the station and directed all of its activities since the original application for a license was filed with the FCC in 1945.

WEAW-FM serves an area more than 40 miles in radius around Evanston. As a local station, WEAW is sponsored by Evanston and Wilmette businesses and is giving free time to Northwestern University, local high schools and churches, the City of Evanston, and other civic groups. Northwestern University's schools of journalism and speech have each installed studios with their own control boards from which the program being broadcast is transmitted by telephone wire to WEAW.

PROGRAM

ALUMNI SEMINAR

Saturday 26 April 1947

- 9:00 a. m. THE DEVELOPMENT OF AN ELECTRICAL CALCULATOR
By Gilbert D. McCann, associate professor of electrical engineering
- 10:00 AN INSIGHT INTO THE MODERN NOVEL
By Harvey Eagleson, associate professor of English
- 11:00 PALEONTOLOGICAL EXPLORATIONS IN MEXICO
By Chester Stock, professor of paleontology
- 12:00 m. SOME DEVELOPMENTS IN PLANT BIOLOGY
By James F. Bonner, associate professor of plant physiology
- 1:00 p. m. LUNCH will be served in the student houses
The late luncheon is necessitated by the crowded conditions in the houses. We will be served after the students.
- 2:30 CASE HISTORIES IN AIR FIELD CONSTRUCTION
By Perry Banta, associate professor of sanitary engineering
- 3:30 HARBOR DEVELOPMENTS AT GUAM AND STUDIES ON CAVITATION
By Robert T. Knapp, associate professor of hydraulic engineering
- 4:30 to 6:30 FELLOWSHIP HOUR: Alumni are welcome to inspect the portions of the campus which are open. Arrangements have been made for a lounge at the Pasadena Athletic Club where groups may gather if they desire.
- 6:30 DINNER at the Shakespeare Club. Ladies Invited.
This will be an opportunity to meet in an informal manner. Music will be provided during the dinner.
After dinner we will hear from George H. Hall, director of public relations on Institute Public Relations, and
John A. Shutz, instructor in history on a timely subject of world-wide interest.

Guests are welcome to the seminar and ladies are welcome to the dinner. Please save the date 26 April from 9:00 in the morning until after the dinner meeting.

NEW DIRECTORS TO BE CHOSEN

IN ACCORDANCE with Section 1 of Article XII of the By-Laws of the Association, the Directors met as a nominating committee on 11, February, 1947. Five vacancies will occur on the Board at the end of the current fiscal year, one vacancy to be filled from the present board and four to be elected by the membership. The present members of the board are as follows:

R. D. Andrews '15—Term expires 1947
C. F. Friend '38—Term expires 1947
H. M. Huston, Jr. '29—Term expires 1947
A. L. Laws '26—Term expires 1947
C. W. Varney, Jr. '22—Term expires 1947
J. R. Bradburn '32—Term expires 1948
W. M. Jacobs '28—Term expires 1948
H. B. Lewis '23—Term expires 1948
F. T. Schell '27—Term expires 1948

The four members of the Association nominated by the Board are:

E. H. Hoge '18
W. D. Sellers '25
W. B. Miller '37
J. W. Lewis '41.

In accordance with the By-Laws: "Additional nominations may be made by petitions signed by at least 10 members in good standing, provided that the Petition must be received by the Secretary at least 30 days before the Annual Meeting.

Statements about the nominees of the Board are presented in this issue of ENGINEERING AND SCIENCE.

D. S. CLARK, Secretary

WENDELL B. MILLER



WENDELL B. Miller '37 received his B.S. in electrical engineering. As an undergraduate he distinguished himself by winning freshman numerals in football and track, and varsity letters in these sports in each of his next three years. This activity represents only a portion of the performance that brought him four honor keys. He remains the only alumnus to hold that number.

Besides his athletic achievements, Wendell spread his efforts through all other phases of extracurricular activities, holding posts with the ASB government, class office, forensic and publications groups. He served as second representative-at-large and on the Board of Control in his sophomore year. As a junior he was vice-president of the student body. In his senior year he was class president. He also found time to be Little T business manager.

After graduation Wendell started to work with the Southern California Telephone Company by whom he is now employed in the Alhambra Engineering District. He is an outside plant engineer, dealing with design and engineering plans for the outside plant, or cable serving from and beyond the exchange

offices. He was recently engaged in the outside-plant design for the special gas-filled, lightning-protected cable to Mount Wilson for use in connection with television transmission.

In 1944-45 Wendell served one year of an unexpired term of office on the Alumni Association Board of Directors. In the last two years he has been the Alumni Association's representative on the Institute Athletic Council.

EDISON R. HOGE



EDISON R. Hoge is a graduate of the Throp Institute of Technology, fore-runner of the present Institute, with the class of '18. In spite of working his way through four years, Ed had time to be assistant athletic manager and photographer for the school magazine under Editor Frank Capra, and held membership in the Gnome Club. As an undergraduate he lugged a Graflex camera along with his

books and made many early photographs of the campus. He has been combining science and engineering with technical photography ever since.

Mr. Hoge spent a year as control chemist for a Los Angeles firm. He then joined the Mount Wilson Observatory staff as the assistant solar observer and as assistant to Mr. Ferdinand Ellermann who was in charge of photographic work for the Observatory. When his son reached school age, Mr. Hoge moved down the mountain to Pasadena.

For three years he engaged in the rapidly developing radio field with Ben and Hugo Benioff, '22 and Ph.D. '35. Mr. Hoge then joined Leon T. Eliel, manager of the then newly formed Pacific Coast Branch of Fairchild Aerial Surveys. He became production manager, in charge of the photographic department and aerial mapping operations. In 1932 Mr. Hoge left Fairchild and started a successful small business of his own in "Technical Photography." Applications of photography to scientific and engineering projects included considerable work for the Mount Wilson Observatory and the preparation of exhibits for all the Planetariums in this country.

Upon the retirement of Mr. Ellermann from the Mount Wilson Observatory in 1937, Mr. Hoge was appointed to the Staff vacancy. His responsibilities include participation in the Solar Research Program at the Observatory and the many photographic problems in the Pasadena Laboratories.

During the war he participated as investigator and in charge of photography in a number of O.S.R.D. projects that were carried on at the Observatory. These included aerial photographic problems, B-29 formations and their defensive fire-power, the development of a method of obtaining radar reconnaissance motion pictures using standard equipment available in Army and Navy supply depots.

In addition Mr. Hoge acted as consultant in technical photographic problems to The Rapid Blue Print Company of Los Angeles, Lockheed Aircraft, the Photogrammetric Company, and the Navy. In 1944 he was asked by Dr. Robert T. Knapp, associate professor of hydraulic engineering, to participate in a

model wave and surge study that was then being developed on the Caltech campus for the Naval Operations Base at Terminal Island, California. Mr. Hoge was given the problems of photographic recording of data obtained on this important hydraulic study. A number of new photographic methods were developed and used successfully throughout the life of the project which terminated in 1945. Since then he has continued his association with Dr. Knapp as consultant on photographic matters in his new and larger Model Studies of the Harbor of Guam, now being conducted by the Institute for the Navy Bureau of Yards and Docks under the shelter of a large airplane hangar erected for the purpose at Azusa, California.

As a member of the staff of the Mount Wilson Observatory Mr. Hoge is looking forward to the merger with the Caltech Palomar 200 inch project into one large coordinated astronomical observatory which will include the finest in equipment and competent personnel anywhere in the world.

Mr. Hoge has been a member of the Association most of the time since its incorporation in 1935. He is also a member of the American Astronomical Society, Sigma Xi, and the Society of Motion Picture Engineers.

WILLIAM DOUGLAS SELLERS



WILLIAM Douglas Sellers, class of '25, returned to California in 1945 after having spent 20 years in the East.

As an undergraduate working toward his degree in electrical engineering, Doug played freshman and varsity football and tennis. He also sang in the glee club one year.

Following graduation in 1925 he was married and became a testman with the General Electric Company in Schenectady, subsequently entering the Engineering Department. Becoming interested in patent law, he took the Civil Service examination and entered the United States Patent Office in Washington as a patent examiner, which position he held for two years, employing his spare time in the study of law at George Washington University.

In 1928 he was employed as patent attorney by The Hoover Company, manufacturers of suction cleaners, and moved to Chicago. As senior practicing patent lawyer for The Hoover Company, he was in charge of litigation and under his releases products having a value of more than two hundred million dollars were sold in the American market. The best known case handled by Mr. Sellers was that of Hoover vs. Coe, which he argued before the United States Supreme Court in March of 1945 (securing a reversal of the decision in the Court of Appeals for the District of Columbia rendered by Justice Thurman Arnold of trust-busting fame. During the war Mr. Sellers had charge of The Hoover Company's administrative law activities.

Late in 1945 Mr. Sellers resigned as patent lawyer for The Hoover Company and returned to California to enter the general practice of law, specializing in

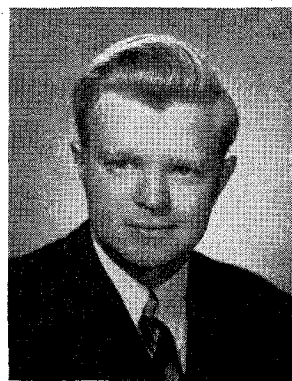
patent law and the related fields of trademarks and unfair competition. This practice he now carries on in his Pasadena office.

In addition to the degree of Bachelor of Science in Electrical Engineering received from the Institute, he also holds the degree of Master of Patent Law from John Marshall Law School and the degree of Doctor of Jurisprudence from De Paul University. He is a member of the Bars of the State of California, the State of Illinois, the District of Columbia, the District Court and the Court of Appeals for the Seventh Circuit, the Court of Customs and Patent Appeals, the United States Patent Office, and the United States Supreme Court.

During the last two years Mr. Sellers was a member of the Publicity Committee of the Chicago Patent Law Association and of the Publicity Committee of the American Bar Association, Patent Section. During the current year he is serving as a member of the Special Atomic Energy Committee of the American Bar Association, Patent Section, and as a member of the Legislative Committee of the Los Angeles Patent Law Association. In addition to this activity he also serves as chairman of the Membership Committee for the Alumni Association, and as Secretary and a Director of the West Hollywood Kiwanis Club. He is a thirty-second degree Mason and Shriner.

Mr. Sellers is the author of several articles in the field of law. He has written two articles for *Engineering and Science Monthly*, one entitled "The Flash of Genius Doctrine Approaches the Patent Office," in November, 1944, and the second, "An Engineer Before the United States Supreme Court," published in February, 1946. He is also circulation manager for the magazine.

JOSEPH W. LEWIS



JOSEPH W. Lewis graduated in mechanical engineering in 1941. His undergraduate career was marked by service as sophomore class president, Beavers president, senior class president and membership on the Board of Directors. He won letters as a member of the freshman football and varsity tennis teams. Joe was also a member of Ricketts House and the A.S.M.E.

In 1941 he began work with the Boyle Manufacturing Company, now the United States Steel Products Company, in their Los Angeles plant, as an Industrial Engineer. In 1942 he became plant supervisor of industrial relations and in 1943 manager of industrial relations. From June, 1944 to March, 1946 Joe was in the Naval Reserve as an aviation electronic technician. After his discharge he returned to United States Steel Products as assistant to the vice president and general manager of the West Coast Division of the Company, which position he still holds.

Joe's interests lie in the field of industrial relations. Before he entered service, he taught night school courses in industrial relations under the ESMWT program.