

Caltech on the Air

Caltech's 1959-60 series of radio programs, "Atomic Age Answers," can now be heard on Wednesdays from 7:05 to 7:30 p.m. on KFI, Los Angeles. Programs coming up include:

November 18—

"The San Andreas Fault and What a Geologist Does."
Clarence Allen, associate professor of geology.

November 25—

"Techniques Involved in Modern Geology. Methods of Determining the Age of Rocks."
Charles McKimney, senior research fellow in geology.

December 2—

"Neuron Pathways of the Brain. Brain Mechanisms."
Roger Sperry, professor of biology.

December 9—

"The New ONR Tandem Electrostatic Accelerator at Caltech."
Ward Whaling, associate professor of physics.

December 16—

"An Astronomer at Work."
Halton C. Arp, staff member of Mt. Wilson and Palomar Observatories.

December 23—

"Genetics"
George Beadle, chairman of the Division of Biological Sciences.

December 30—

"The Many Facets of Chemical Engineering."
George Neal Richter, assistant professor of chemical engineering.

January 6—

"Disappearing Boundaries Between the Basic Sciences."
Norman Davidson, professor of chemistry.

Ford Foundation Grant

Caltech has received a grant of \$3,200,000 from the Ford Foundation for the advancement of engineering education. The grant was part of \$19,050,000 which will go to 10 educational institutions in the Foundation's new program in support of science and engineering.

The grants have two objectives: to help promote excellence on engineering faculties, both by additional training of present faculties and by recruiting and development of increased numbers of well trained engineering teachers; and to support promising plans for the development of imaginative educational programs. The Caltech grant is to be used over a period of 10 to 15 years.

Of the total amount, \$800,000, together with the 10-to-15-year income from it, will be used for salaries for four new senior professorships in engineering.

Approximately \$900,000, plus income, will be used for salaries or salary supplements for a minimum of seven additional assistant and associate professorships.

Approximately \$800,000, plus income, will provide salaries for senior positions for four or five key professors now on the engineering faculty.

Approximately \$500,000, plus income, will be used

The Month at Caltech

The Month . . . *continued*

to provide or construct equipment needed for faculty or graduate research in engineering.

An additional \$100,000 is earmarked for use over a period of one to three years, for fellowships and loans to graduate students: \$75,000 is allocated to provide travel and study opportunities for faculty members at the Institute; and \$25,000 will cover costs of faculty members from sister institutions who come to Caltech to study.

Honors and Awards

Norman H. Brooks, associate professor of civil engineering, has won two 1959 awards of the American Society of Civil Engineers for his paper on "Mechanics of Streams with Movable Beds of Fine Sand," the J. C. Stevens Award and the Collingwood Prize for Junior Members, each consisting of a cash award and a certificate.

President DuBridge received the Arthur R. Berman Human Relations Award on October 19 at a ceremony in the Pasadena Jewish Temple and Center. The award is presented annually by the Pasadena Lodge of B'nai B'rith to a member of the community who, in public or private life, has made a significant contribution to the betterment of human relations in the community or in the nation.

Renato Dulbecco, professor of biology, and Dr. Marguerite Vogt, senior research fellow in biology, have received the \$1,000 Kimble Methodology Research Award for their technique that speeds up both research and control of virus diseases. The award is sponsored by the Kimble Glass Company, an Owens-Illinois subsidiary. The Dulbecco-Vogt technique uses animal tissue, instead of the entire animal, in virus research.

Wesley L. Hershey, executive secretary of the Caltech YMCA, has been elected national president of the Student YMCA Secretaries Association. During his three-year term, he will head a professional staff of more than 100,000 members.

Lester Lees, professor of aeronautics, will receive a Fellow Membership in the American Rocket Society at their 14th annual meeting in Washington, D.C., November 16-20. The award is given in recognition of his outstanding contributions to aeronautics and space technology.

Milton Plesset, professor of applied mechanics; and Frank Press, director of the Caltech Seismological Laboratory, have been appointed by Governor Edmund G. Brown to the scientific advisory committee of California's new office of Atomic Energy Development and Radiation Protection.

Bruce H. Sage, professor of chemical engineering, will receive the 1959 William H. Walker Award of the American Institute of Chemical Engineers at the 52nd annual meeting of the Institute in San Francisco, December 6-9. The award has been made each year since 1936 to some of the nation's outstanding chemical engineers for authorship of important papers.

Hallett D. Smith, chairman of the Humanities Division, has been appointed a Phi Beta Kappa Visiting Scholar for the 1959-60 academic year. The appointment involves appearances for lectures and informal talks at eight colleges and universities that have chapters of the national scholarship fraternity.

Undergraduate Chemical Engineering

Caltech is offering an undergraduate program in chemical engineering for the first time this year. In the past, undergraduates interested in this field majored in applied chemistry; chemical engineering courses were available only at the graduate level.

This change has been made possible by several curriculum changes, including the introduction of rigorous quantitative analysis in the freshman year. Both chemistry and chemical engineering students now complete their basic organic chemistry by the end of the junior year, making it possible for them to include several chemical engineering courses in the junior and senior years. The new program is also facilitated by an increase in the professional staff and an expansion of laboratory facilities.

Josef J. Johnson

Josef J. Johnson, research associate in astrophysics at Caltech from 1935 to 1952, died of cerebral thrombosis at his home in Pasadena on September 30. He had been retired from the Institute since 1952 because of ill health. Dr. Johnson was a graduate of Caltech (BS '30, PhD '35) and received an MS from Ohio Wesleyan. His particular interests in astrophysics were the observation of solar eclipses, theories of the solar corona, and studies of spiral nebulae.

Paul Perigord

Paul Perigord, who was professor of European history at Caltech from 1919 to 1924, died on November 4 at his home in Palisades, N. Y. Dr. Perigord was a graduate of the University of Toulouse and received his PhD from the University of Minnesota. In 1924 he left Caltech to become professor of French Civilization at UCLA.