

The Month at Caltech

Caltech in Kanpur

Three members of the Caltech faculty and administration will be in Kanpur, India, in the next few months to take part in the Kanpur Indo-American Program in support of the five-year-old Indian Institute of Technology there. Taras Kiceniuk, Caltech lecturer in engineering design, left with his family last month for a year of teaching at the IIT; Fred Lindvall, chairman of the division of engineering and applied science, will visit Kanpur for ten days this month as a member of an eight-man committee sent to evaluate the progress of the Institute; and Ernest Hugg, assistant director of Caltech's physical plant, will leave in June for an 18-month stay at the Institute as an advisor on the operation and maintenance of the physical plant.

Caltech is one of nine U.S. institutions involved in the program, supported by the U.S. Department of State's Agency for International Development (AID), to aid in the development of the Indian Institute of Technology. Six Caltech men have taken part in the school's operation in Kanpur since it opened in 1960, and two Caltech faculty members have served on the steering committee of the nine-school consortium. Marc Nicolet, associate professor of electrical engineering, is currently on the committee, replacing Donald E. Hudson, professor of mechanical engineering and applied mechanics, who served from 1961 to 1965.

Speaking of Microcirculation

J. Harold Wayland, Caltech professor of engineering science, is taking a four-month leave of absence to lecture at medical schools, laboratories, and at conferences on a schedule that will take him around the world. Dr. Wayland leaves April 8 for Japan, Thailand, Iran, and Greece, where he will speak on his bioengineering research in relation to microcirculation. In June he will conduct a symposium on methods of research in the microcirculation, to be held in Cambridge, England, four days before the Fourth European Conference on Microcirculation. His last speaking engagement will be in Reykjavik, Iceland, at the First International Congress on Hemorheology on July 10-16.

Honors and Awards

Pol Duwez, Caltech professor of materials science, has been elected a fellow of the Metallurgical Society of the American Institute of Mining, Metallurgical and Petroleum Engineers, one of five U.S. engineers and scientists to be given the honor this year. Dr. Duwez's citation is in recognition of "his imaginative contributions to the science of metals and to the development of new types and new structures of material for the space age."

Robert B. Leighton, Caltech professor of physics and principal investigator for the Mariner IV television experiment, is one of seven American scientists to be named by NASA to a special U.S.—U.S.S.R. data coordination board on space biology and medicine. The joint group has been formed under an agreement made with the Soviet Academy of Sciences for mutual assistance in medical knowledge relative to long space flights.

Hans W. Liepmann, Caltech professor of aeronautics, has been elected to the National Academy of Engineering for his fundamental contributions to the field of fluid mechanics. He is the fifth Caltech man to be honored by membership in the Academy.

An authority on shock waves, plasmas, and the flow of rarefied gases, Dr. Liepmann is also chairman of NASA's research advisory committee for fluid mechanics. In NAE membership he joins Caltech's Simon Ramo, research associate in electrical engineering and a member of the Institute's board of trustees; George W. Housner, professor of civil engineering and applied mechanics; and the late Clark Millikan, professor of aeronautics and director of the Graduate Aeronautical Laboratories.

Sloan Foundation Grants

Five Caltech men are among the 90 scientists in the United States and Canada selected to receive basic research grants from the Alfred P. Sloan Foundation: Don L. Anderson, associate professor of geophysics; Everett C. Dade, associate pro-

continued on page 30

The Month at Caltech . . . *continued*

fessor of mathematics; Roger F. Dashen, assistant professor of theoretical physics; Kip S. Thorne, research fellow in physics; and George Zweig, assistant professor of physics.

Report to the President

Arie J. Haagen-Smit, Caltech professor of bio-organic chemistry, now in charge of the Earhart-Campbell Plant Research Laboratories, recently completed a 15-month study of pollution as a member of a special panel of the President's Science Advisory Committee on Pollution Problems. The published report, "Restoring the Quality of Our Environment," contains more than 100 recommendations for managing pollution of air, water, and soil, and is currently being studied by government agencies and departments for possible implementation in an anticipated, all-out, government drive against pollution.

Dr. Haagen-Smit, who says he is "taking a vacation from smog," to concentrate on administration of the plant laboratories and on other research projects, spent alternate weekends for more than a year in Washington, D.C., along with the 14 other educators, scientists, industrialists, and government officials on the panel.

The Y's Fiftieth

"The YMCA is Caltech's antidote to random trolls and talented nuts. Against academic pressures that would make a sow's ear out of a silk purse, the YMCA has battled nobly to make rounders out of squares, lounge lizards out of snakes, and politicians out of hermits . . . it is to apathy and withdrawal what the committee report is to insomnia . . ."

This breezy tribute to the Y's half-century of contribution to Caltech life was delivered to some 800 students, faculty, and friends gathered in Beckman Auditorium on February 25 to celebrate the Caltech Y's 50th birthday.

Eleven students came to the first meeting of the Caltech Y in 1916, and each of them paid 50 cents in dues to cover expenses for the rest of the year. Although the Y has come a long way to its \$55,000 budget for 1966, the goals established 50 years ago still apply—to help students gain an understanding of themselves and their society, and to give moral direction to their lives.

In its infancy the Caltech Y was strong on the traditional evangelical approach. However, in addi-

tion to Bible study classes and a program to encourage students to attend church, it offered a success course, athletic activities at the Pasadena YMCA, a room-and-board service, and sex lectures.

In the thirties the rallying point of the Y shifted to humanitarian concern, and student interests broadened to include such social action as peace movements, labor unions, and socialism.

World War II, with accelerated student schedules, involvement of faculty in military-oriented research, and the suspension of many Institute traditions, altered most regular activities and limited the Y's program to something of a "holding operation."

When peace came, so did a new executive secretary, Wesley L. Hershey—now celebrating his 20th anniversary at Caltech. The presence of veterans on campus seasoned the Y's concerns and activities, and continued the broadening of its religious outlook. Many new programs were initiated at this time—programs that have today become the weekly frosh dinner forum; the weekly Athenaeum luncheon-with-guest-speaker; the weekly informal graduate sack lunch; the Leaders of America program, bringing to campus such distinguished men as Paul Hoffman, Ralph Bunche, Martin Luther King, Archibald MacLeish, and Ted Sorensen; weekend conferences and retreats, including the annual Caltech-Scripps Conference; personal counseling for students; and work and service projects such as the tutoring of needy high school students.

"If a college education means the whole of the experience a student has in college," said President Lee A. DuBridge, saluting the Y on its 50th birthday, "then the Caltech Y is a major educational organization . . . May it live and prosper forever!"

Caltech Bookstore

Esther Green, who has managed the Caltech bookstore since 1929, will retire next month. In her 38 years at the Institute she has played an important part in developing the store from a mere cubbyhole in Throop (where space and business were so limited that she also operated the switchboard and kept books for the accounting office) to the model university bookstore it is today.

Vernon Rohe, manager of the Earlham College Store in Richmond, Indiana, for the past eight years, will take charge of the Caltech bookstore on April 1. Before going to Earlham he was head of the campus bookstore at his alma mater, Heidelberg College in Tiffin, Ohio, for 10 years.