THE SUMMER AT CALTECH

To the Arctic

Prof. George E. MacGinitie, Associate Professor of Biology, who has been in charge of the Kerckhoff Marine Laboratory at Corona del Mar since 1932, was granted a year's leave of absence from the Institute in June, to become Scientific Director of the Arctic Research Laboratory operated by the Office of Naval Research at Point Barrow, Alaska. With his wife as co-worker, Prof. MacGinitie spent three months at Point Barrow in the summer of 1948, doing research on the distribution and ecology of marine life in that area. Now, as director of the laboratory, he will continue this work, and also supervise related projects in physiological and biochemical research of both land and marine animals, and birds of the far north.

One of these projects is under the direction of Dr. Dan H. Campbell, Associate Professor of Immunochemistry at the Institute. Dr. Campbell left for Point Barrow early in August to continue work he had begun in the summer of 1948 on the blood chemistry of Arctic birds and animals, to find out how they can withstand extreme cold—with a view to helping human beings withstand it better.

Caltech's third research team to head for the Arctic this summer was the party of glaciologists and geophysicists led by Dr. Robert P. Sharp, Professor of Geomorphology, which returned to the Seward Ice Field near Yakutuk to continue the study of Alaskan glaciers which was begun in 1941—and was described by Dr. Sharp in his article "Project 'Snow Cornice' " in E & S for Nov. '48. Five Caltech graduate students went on the junket—Laurence Nobles, John R. Reese, S. Norman Dominico, Bernard O. Steenson, and Frederick Gross.

New Coach

Bert LaBrucherie (see page 20), whose UCLA team played in the Rose Bowl in 1946, was named in July to replace Mason Anderson as varsity football and track coach at the institute.

LaBrucherie resigned as head coach at UCLA at the end of last year's season, after serving for four years. A graduate of UCLA, where he played three years of varsity ball and also competed in track, he coached at Los Angeles High School for 16 years, during which time he had ten league championships. He went to UCLA in 1945 and in 1946 his team won the Pacific Coast Conference. This was the only unbeaten and untied season the Bruins ever had, until they lost the Rose Bowl game to the University of Illinois 45-14.

For the record, Bert LaBrucherie isn't expecting to work a miracle and win a lot of games this season. For one thing, the team lost ten of its twenty lettermen by graduation last June—including four of its best linemen: Don Hibbard, End; Dennis Long, Guard; Manuel Bass and Bob Walquist, Tackles. The season gets under way Sept. 24 when the team plays Arizona State at Flagstaff. The rest of the schedule:

Oct. 1—La Verne at La Verne.
Oct. 8—Whittier at Rose Bowl.
Oct. 14—Frosh vs. Whittier at Whittier.
Oct. 22—Pomona at Rose Bowl.
Oct. 28—Occidental at Rose Bowl.
Nov. 12—Redlands at Redlands.
Nov. 18—Cal Poly at San Dimas.

Speakers' table at Industrial Relations' tenth anniversary dinner included Dale Yoder, Lawrence Appley, Arthur Young, R. A. Millikan, Dr. DuBridge, and Leo Wolman.

Ten Years Old

On July 21 the Industrial Relations Section of the Institute celebrated its tenth anniversary with a special conference honoring Dr. Robert A. Millikan, who organized the section in 1939. Nearly 400 representatives from some 200 companies, unions, and universities turned out for the all-day conference and dinner meeting. Outstanding industrial relations authorities who participated in the conference included Alexander R. Heron, vice-president of the Crown Zellerbach Corporation; Leo Wolman, Professor of Economics at Columbia University and a member of the research staff of the Bureau of Economic Research; Lawrence A. Appley, president of the American Management Association; and Dale Yoder, Director of the Industrial Relations Center of the University of Minnesota, and a member of the Committee on Labor Market Research of the Social Science Research Council.

Merck Fellow

Paul S. Farrington, graduate assistant in chemistry at the Institute for the past three years, was chosen in August as the first recipient of the $2,500 Merck Graduate Fellowship in Analytical Chemistry. The fellowship, established last year by the Merck Co. of Rahway, New Jersey, goes to the applicant who is considered—by a special award committee of the American Chemical Society—likely "to contribute most to the advancement of the theory and practice of analytical chemistry during the tenure of the fellowship and the course of his future career."

Farrington received his B.S. from the Institute in 1941, his M.S. in 1947, and the degree of Chemical Engineer in 1948. He will use the Merck award to finance a year's study towards a Ph.D.

During the war Farrington was employed at the Institute on a National Defense Research Committee project, dealing with the anaylsis of chemical warfare agents on a semi-micro scale. He did research on procedures for the determination of iron, manganese, titanium, chloride, fluoride, and carbon.

Sage Award

Bruce H. Sage, Professor of Chemical Engineering, was first-time winner of a $1,000 award for achievement in petroleum chemistry at the national meeting of the American Chemical Society in Atlantic City on Sept. 19. The new $1,000 Precision Scientific Co. award was established to "recognize, encourage and stimulate outstanding research achievements in the field of petroleum chemistry or in some phase of science that contributes directly and materially to the knowledge of petroleum and its products."

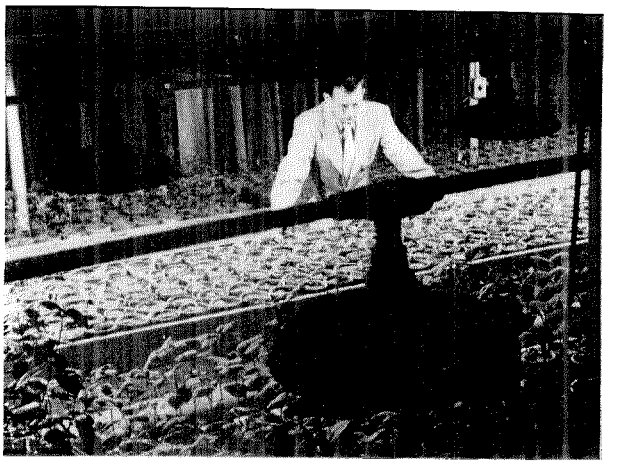
Specifically, Dr. Sage received the award for "the independence of thought, experimental ingenuity, and originality demonstrated in his 17 years of research on phase equilibria in petroleum hydrocarbon systems."

Dr. Sage, whose petroleum research is credited with significantly enlarging the recoverable natural oil resources of the United States, is now Associate Director of Engineering and head of the Explosives Department at the Naval Ordnance Test Station, at Inyokern, Calif.

Bonner Down Under

Dr. James F. Bonner, Professor of Biology, took off in August for Sydney, Australia, to attend the (deep breath here) British Commonwealth Agricultural Specialist Conference on Plant and Animal Nutrition in Relation to Soil and Climate. One of three Americans who were invited to address this annual conference, Dr. Bonner spoke on plant enzymes. After the meeting, he began a three-month lecture tour of Australia and New Zealand universities, planned to return to Caltech in November.

Dr. Bruce H. Sage, Professor of Chemical Engineering, is honored for his achievements in petroleum chemistry.



Dr. James F. Bonner, Professor of Biology, is the new president of the American Society of Plant Physiologists.

Shortly before leaving for Australia, Dr. Bonner was elected president of the American Society of Plant Physiologists, succeeding Dr. Donald B. Anderson of North Carolina State College. Dr. Bonner is the second Caltech biologist to head this organization in recent years; Dr. Frits Went was president in 1947-48.

Short Notice

Dr. Edwin P. Hubble, Research Chairman of the combined Mount Wilson and Palomar Observatories, was recently elected a member of the French Academy of Sciences in honor of his having taken the first photographs with the 200-inch telescope (E & S, May '49) of "island universes" 1,000,000,000 light years from the earth.

Dr. Jack E. McKee has been named Associate Professor of Sanitary Engineering at the Institute, filling the vacancy left by the death of Arthur Perry Banta last spring. Dr. McKee received his training in civil engineering at the Carnegie Institute of Technology and Harvard University. He has been affiliated with the U. S. Public Health Service and the TVA.

Members of Caltech's Management Club, composed of Institute supervisory personnel, contributed $600 to the Institute to assist some worthy undergraduate student. The student is to be chosen by the faculty scholarship committee.

The University of Michigan has set up a cooperative research project with the Mount Wilson Observatory to study the makeup of the atmosphere about the earth and the stars. The project involves installing an infra-red spectrometer on a solar telescope at Mount Wilson, similar to one which has been in operation at the University of Michigan for some time. The Michigan spectrometer has already helped in the discovery of methane and two heavy forms of carbon dioxide in the earth's atmosphere.

The National Institute of Health has awarded money grants for the coming year to five faculty members—$9,504 to Dr. Henry Borsook, Professor of Biochemistry, for research in transmethylation for diet improvement; $33,048 to Drs. Linus Pauling, Dan Campbell, and Carl Nieman to carry on work on the chemistry of the blood; $5,508 to Dr. Joseph Koepfli, Research Associate in Chemistry, to continue research in anti-malarial drugs.