species (Cl. Crustacea, Order Ostracoda).

Comments should be sent as soon as possible, and in duplicate, to the secretary of the commission, Francis Hemming, 28 Park Village East, Regent's Park, London, N.W.1, England.

Alaskan Mountain Laboratory

The Department of the Interior has reported that a cosmic-ray research station is to be built on the plateaulike summit of Mount Wrangell, Alaska, an area that is from 13,600 to 13,800 feet above sea level and considered ideal for high-altitude research. Interior has approved a Bureau of Land Management order reserving 640 acres of public lands for the station, which will be used by the University of Alaska and other universities and scientific groups.

Plans for Accelerator

A 3×10^9 volt, high intensity-proton accelerator, which is to be built at the James Forrestal Research Center at Princeton University, is now in the final planning stage. Financed in large part by the U.S. Atomic Energy Commission, the accelerator will be used under the joint administration of Princeton and the University of Pennsylvania for unclassified basic research.

The new machine is expected to produce heavy mesons in much larger quantities than has so far been possible. The study of these and other particles produced in the accelerator may throw additional light on the question of parity conservation.

The machine will consist of an alternating-current electromagnet, measuring some 80 feet in diameter and weighing 400 tons, with a rate of cycling 100 times that of the Brookhaven cosmotron. At peak energy the rotating beam of protons will be directed at target nuclei, thereby creating an intense shower of heavy mesons, which will be studied by cloud and bubble chambers, photographic emulsions, and scintillation counters.

March Scientific Monthly

Articles appearing in the March issue of *The Scientific Monthly* are: "An international observatory," J. B. Irwin; "Silverfish, a paper-eating insect," R. Lasker; "Jungle brimstone," W. Haynes; "Scientists through adolescent eyes: what we need to know, why we need to know it," D. N. Michael; "Meteorology in the International Geophysical Year," H. Wexler. Nine books are reviewed.

Scientists in the News

PERRY W. GILBERT, professor of zoology at Cornell University, has been appointed a Guggenheim fellow and will be on leave during the spring term. Until 1 May he will be at the Lerner Marine Laboratory, Bimini, Bahamas, where he will investigate the morphology and physiology of the reproductive tract of representative elasmobranch fishes. This study is expected to extend over a 2-year period and is supported in part by a grant from the National Science Foundation.

KENNETH H. KINGDON, who first joined the General Electric Research Laboratory's staff in 1920, has been appointed manager of the laboratory's Project Analysis Section. The section will evaluate certain specific research projects from both technical and economic viewpoints. It will also participate in general company studies with the objective of bringing a contribution from physical science to those studies. Previously Kingdon has served as manager of the technical department of the Knolls Atomic Power Laboratory and manager of nucleonics and radiation research at the G.E. Research Laboratory.

ROY C. NEWTON, vice president of Swift and Company, Chicago, Ill., will receive the 1957 gold medal of the American Institute of Chemists for his leadership in food technology. The presentation of the medal will be made at the 1957 annual meeting of the institute, which is to be held at the Sheraton-Mayflower Hotel, Akron, Ohio, 22–24 May.

Newton has helped to build a research staff at Swift's that has developed hundreds of improved forms of food and food products. His personal research has contributed many processes to the food industries. In addition, under his direction, a program of Swift research fellowships has been extended to numerous colleges and universities.

Rev. Dr. HANS HOFMANN, both a theologist and a psychologist, will direct a 5-year study at the Harvard Divinity School to develop mental health training for future ministers. Hofmann has been appointed associate professor of theology, effective 1 July. He is now on the faculty of the Princeton Theological Seminary.

He will conduct a study at Harvard to develop a curriculum in religion and mental health suitable for Protestant theological schools. Similar studies will be conducted at Loyola University in Chicago and at Yeshiva University in New York. The studies are supported by the U.S. Department of Health, Education, and Welfare.

ERNEST WEBER, former director of the Microwave Research Institute, at the Polytechnic Institute of Brooklyn, has been appointed to Polytechnic's newly created administrative position of vice president for research.

On recommendation of the Committee on School Science of the American Academy of Arts and Sciences, the Elizabeth Thompson awards for outstanding science teaching in the secondary schools of New England have been presented to the following: GLENN E. AIKEN, Montpelier High School, Montpelier, Vt.; THEODORE P. EMERY, Gould Academy, Bethel, Me.; HELEN B. GREEN, Weston High School, Weston, Mass.; Sister MARY CATHERINE LABOURE, Girls Catholic High School, Malden, Mass.; PAUL W. LEGGE, Maine Central Institute, Pittsfield, Me.; EDWARD A. MOBERG, Watertown High School, Watertown, Conn.; DOUGLAS SANDS, Wellesley Junior High School, Wellesley, Mass.; ELSIE SCOTT, Northfield School, Northfield, Mass.

HERBERT C. S. THOM, for the past 2 years chief climatologist of the President's Advisory Committee on Weather Control, has returned to his former position in the Office of Climatology, U.S. Weather Bureau, Washington, D.C.

SAM C. HITE, former associate professor of chemical engineering at Purdue University, has been selected to head a new department of chemical engineering at the University of Kentucky.

ELIAS BURSTEIN of the Naval Research Laboratory, Washington, D.C., has been awarded the Washington Academy of Sciences' annual award for scientific achievement in the physical sciences. The award was made to Burstein "in recognition of his distinguished study of impurity levels and effective electron masses in semi-conductors."

Since joining the staff of NRL, where he is now head of the physics section of the crystals branch, he has been doing research on nonmetallic crystals. In recent years he has been concerned with the properties of semiconductor materials used in transistors and photoconductors.

KENNETH L. HERTEL, head of the department of physics at the University of Tennessee, has been assigned as full-time director of the university's Textile Research Laboratory, a regional laboratory supported by the U.T. Agricultural Experiment Station and the U.S. Department of Agriculture. ALVIN H. NIELSEN has succeeded Hertel as head of the department of physics.

LAURITS BJERRUM and GIULIO PIZZETTI have been appointed visiting professors in the department of civil engineering at Massachusetts Institute of Technology. Bjerrum, named visiting professor of soil mechanics, has been director of the Norwegian Geotechnical Institute in Oslo since 1951.

Pizzetti is an engineer specializing in concrete structures. He will work with the departments of architecture and civil engineering as visiting professor of structural engineering. He has taught at both the Polytechnic Institute of Turin, Italy, and at the School of Architecture, University of Buenos Aires. He is a member of the Italian National Council of Research and has published many papers on the subject of structures, thin shells, and pre-stressed concrete.

CLAUDE E. SHANNON, professor of mathematics at Massachusetts Institute of Technology, has received the 1956 Research Corporation award for his work in establishing a mathematical theory for communications. The award consists of an honorarium of $2500, a plaque, and a citation.

The theory, called the "information theory," is concerned with the most efficient way to carry out the communicating process between both man and machine and man and man. Although still theoretical, the procedure has applications in the fields of television, radio, and computing machines.

JOSEPH L. MORSE has been named professor and director of the department of dermatology at New York Medical College, Flower–Fifth Avenue Hospital. He has been a member of the faculty at New York Postgraduate Medical School, New York University–Bellevue Medical Center, for 30 years and associate clinical professor of dermatology there since 1950.

JOHN PAUL of the University of Glasgow, Scotland, will direct the Tissue Culture Association's course on the principles and techniques of cell and tissue culture that is to be given at the University of Colorado School of Medicine, Denver, 1–26 July.

ROSS A. McFARLAND, associate professor of industrial hygiene at the Harvard School of Public Health, has received the 1956 John Jeffries award of the Institute of the Aeronautical Sciences "for outstanding contributions to the advancement of aeronautics through medical research." McFarland is a physiologist whose name has long been associated with the development of biotechnology, the epidemiological approach to accidents involving human beings and machines.

JOHN T. RANDALL, F.R.S., Wheatstone professor of physics and honorary director of the Biophysics Research Unit of the Medical Research Council, King's College, University of London, is spending 5 months as visiting lecturer in the Laboratory of Developmental Biology at the Rockefeller Institute for Medical Research, New York.

FRANCIS O. RICE, head of the department of chemistry at the Catholic University, has won the 1957 Hillebrand award of the American Chemical Society's Washington, D.C., section. The award will be presented on 14 Mar. at a special dinner in the Kennedy-Warren Hotel, Washington. In his award address Rice will discuss his 25 years of work on free radicals.

An expert on the structure of matter, Rice was one of the first chemists to stress the importance of free radicals in certain chemical reactions. The methods which he has proposed to measure the products formed when organic substances are broken down have gained wide attention. On the basis of his research a whole chapter in modern chemistry is being reformulated.

Three promotions on the research staff of the General Motors Corporation, Detroit, Mich., have been announced by Lawrence R. Hafstad, vice president in charge of research. JOHN M. CAMPBELL, who has been technical director since 1954, has been named scientific director; in this newly created position he will serve as Hafstad's principal assistant.

ARTHUR F. UNDERWOOD, who has headed the mechanical development department, was elevated to manager of research staff activities. GREGORY FLYNN, JR., succeeds Underwood.

The promotions result from the retirement on 1 Mar. of ALFRED L. BOEGEHOLD, manager of research activities and principal assistant to Hafstad. Boegehold will continue as a consultant to the research staff following his retirement. He has been with General Motors for 36 years.

EUGENE B. FERRIS, formerly professor of medicine and chairman of the department of medicine at the Emory University School of Medicine, has been appointed medical director of the American Heart Association, New York.

HERWIG HAMPERL, director of the Institute of Pathology, University of Bonn, Germany, has been appointed visiting Carl Schurz professor at the University of Wisconsin Medical School for the spring semester. He will present lectures both at the medical school, which is in Madison, and at the university's campus in Milwaukee.

JOHN B. MACDONALD has been named director of the Forsyth Dental Infirmary for Children and professor of oral microbiology in the Harvard School of Dental Medicine. His is the first joint appointment made by the two institutions since their affiliation in May 1955. Macdonald was formerly chairman of the Division of Dental Research and professor of bacteriology in the Faculty of Dentistry, University of Toronto. His service to dentistry has embraced professional dental practice, research, and teaching.

Recent Deaths

C. GREGORY BARER, Bronxville, N.Y.; 53; staff member of the Institute of Ophthalmology of Presbyterian Hospital, Columbia–Presbyterian Medical Center and instructor at the College of Physicians and Surgeons of Columbia University; 8 Feb.

CLIFFORD R. BEARDSLEY, Huntington, N.Y.; 71; retired electric power engineer; 9 Feb.

WALTER BOTHE, Heidelberg, Germany; 66; director of the Institute of Physics at the Max Planck Institute for Medical Research and 1954 winner of the Nobel prize for physics; 8 Feb.

HENRY S. DUNNING, New Canaan, Conn.; 76; professor emeritus and a founder of the College of Dental and Oral Surgery of Columbia University; 10 Feb.

JOSEPH F. HAUCK, New Brunswick, N.J.; assistant chairman of the agricultural economics department at Rutgers University; 5 Feb.

JOHN H. HOSKINS, Cincinnati, Ohio; 61; chairman of the department of botany and bacteriology at the University of Cincinnati; 8 Feb.

HUBERT S. HOWE, New York, N.Y.; retired clinical professor of neurology at the College of Physicians and Surgeons of Columbia University; 4 Feb.

EDWARD H. HUME, Wallingford, Conn.; 80; former director of the New York Post-Graduate Medical School; head of the medical services of Yale-in-China 1904–10; 9 Feb.

ALBERT D. SANIAL, La Crosse, Wis.; former meteorologist with the United States Weather Bureau; 9 Feb.

LUCILLE H. SNOW, Chicago, Ill.; 58; staff member of Loyola University, Stritch School of Medicine at Loyola University; 8 Feb.

JOHN VON NEUMANN, Washington, D.C.; 53; member of the U.S. Atomic Energy Commission; 8 Feb.

Erratum: The name of the publisher, Simon and Schuster, New York, and the publication date, 1956, were inadvertently omitted from the review of James R. Newman's book *The World of Mathematics*, which appeared in the issue of 1 Feb., page 197.