

possible to conduct a truly comprehensive and possibly definitive experiment on global weather.

Insiders acknowledge that it will be difficult to satisfy both groups. Meteorologists see GARP as chiefly a means of improving service. Scientists say that they have come to the point where theory on atmospheric movement has outrun data. Each group sees the other as a means to achieving its ends. The advantages of collaboration are so great, however, that GARP is likely to flourish. And the WWW itself is evidence that, with nations as with the subdivisions of science and technology, self-interest smooths the way for co-operation.—JOHN WALSH

Appointments

Jack Rosen, consultant on the staff of the Joint Committee on Atomic Energy, to special assistant to commissioner Gerald F. Tape, Atomic Energy Commission. He succeeds **William C. Bartels**, who is to become chief of the terrestrial Low-Power Reactor Branch, Division of Reactor Development and Technology, AEC. . . . **Robert B. Uretz**, professor of biophysics at the University of Chicago, to chairman of the department of biophysics at the University. . . . **C. Donald Van Houweling**, acting director of the Food and Drug Administration's Bureau of Veterinary Medicine, to director of the Bureau, succeeding **M. R. Clarkson**, who has become executive secretary of the American Veterinary Medical Association. . . . **Preston S. Abbott**, director of the Social Science Research Institute, American University, to director of the Center for Research in Social Systems at the university, succeeding **T. R. Vallance**, who has become chief of the National Institute of Mental Health's Office of Planning. . . . **James G. Miller**, professor of psychology and psychiatry and director of the Mental Health Research Institute, University of Michigan, to vice president for academic affairs at Cleveland State University. . . . **Arthur W. Busch**, professor of environmental engineering at Rice University, to chairman of the newly established Environmental Science and Engineering Program at the university. . . . **Alan J. Brook**, professor of botany in the University of Minnesota's College of Biological Sciences, to head a new department of ecology and behavioral biology at the university. . . . **Thomas F. A.**

Plaut, research associate and co-director of the national survey of services and programs for the Cooperative Commission on the Study of Alcoholism at the Institute for the Study of Human Problems at Stanford University, to assistant director of the National Center for Prevention and Control of Alcoholism, recently established within the National Institute for Mental Health. . . . **Serge A. Korff**, professor of physics, New York University, to president of the American Geographical Society, succeeding **Walter A. Wood**, who has become chairman of the council of the society. . . . **Ralph B. L. Gwatkin**, research assistant professor of reproductive physiology, University of Pennsylvania, to director of the Tissue Culture Laboratories, Merck Sharp and Dohme Research Laboratories, Rahway, New Jersey. . . . **Daniel Billen**, chief of the section on radiation biology, University of Texas M.D. Anderson Hospital and Tumor Institute, to director of the University of Florida's Radiation Biology Laboratory. . . .

Gladys M. Kammerer, director of the Public Administration Clearing Service, University of Florida, to the National Advisory Heart Council, National Institutes of Health. . . . **Jane C. Wright**, associate professor at New York University School of Medicine and director of cancer chemotherapy at the medical center, to associate dean at New York Medical College. . . . **C. Carl Robusto**, dean of St. John's University Junior College, to dean of the proposed School of General Studies at St. John's. . . . **Joseph B. Sprowls, Jr.**, dean of the Temple University College of Pharmacy, to pharmacy dean at the University of Texas. . . . **Robert H. Maier**, assistant dean of the Graduate School of the University of Arizona, to assistant chancellor of the new campus of the University of Wisconsin at Green Bay. . . . **Robert I. Weed**, associate professor of medicine and of radiation biology and biophysics, University of Rochester School of Medicine and Dentistry, to head of the Hematology Unit of the Department of Medicine, at the University, succeeding **Scott N. Swisher, Jr.**, who has been appointed professor and chairman of the Department of Medicine in the College of Human Medicine at Michigan State. . . . **Richard W. Hudgens**, assistant professor of psychiatry, Washington University School of Medicine, to assistant dean in charge of student curriculum at the School. . . . **James Austin**, professor of neurology, Univer-

sity of Oregon Medical School, to professor and head of the Division of Neurology, University of Colorado School of Medicine. . . . **Charles G. Wilber**, director of the marine laboratories and professor of biological sciences, University of Delaware, to chairman of the department of zoology, Colorado State University. . . . **Henry C. Rubin**, chairman of the Oil Import Appeals Board, to special assistant to the assistant secretary of the Interior for Mineral Research. . .

Recent Deaths

Irving W. Bailey, 82; professor emeritus of plant anatomy, Harvard University; 16 May.

William D. Collins, 91; formerly chemist in charge of the Quality of Water Division, U.S. Geological Survey; 8 May.

Frank Crippen, 47; assistant professor of mathematics, Fordham University; 27 May.

Percy A. Fitzgerald, 71; professor of dentistry, Howard University; 26 May.

Mabel K. Frehafer, 80; professor emeritus of physics, Goucher College; 10 May.

Peter Heinbecker, 71; professor emeritus of clinical surgery, Washington University School of Medicine; 22 May.

Donald B. McMullen, 63; a scientific adviser to the director of the Walter Reed Army Institute of Research and former chief of the Institute's Department of Medical Zoology; 27 May.

Jerome J. Morgan, 86; professor emeritus of chemical engineering, Columbia University; 19 April.

Joseph H. Roe, 74; former chairman of the biochemistry department, George Washington University School of Medicine; 18 May.

George B. Roth, 88; professor emeritus of pharmacology, George Washington University School of Medicine; 23 May.

Erratum: Figure 1 of the paper "Long-term activity in small aquatic animals" by A. A. Heusner and J. T. Enright (28 Oct. 1966, p. 532) is ambiguous to the extent that the two negative terminals might be interpreted as a common point in the circuit. In fact, these two points must be kept separate for the proper operation of the instrument.

Erratum: In the report "Martian relief and the coming opposition" (3 Mar., p. 1100), D. H. Harris stated that, ". . . the reduced contrast with decreasing (terminator distance) just balances the increase in visibility due to shadow length." This is obviously erroneous. A more careful examination of the problem shows that for favorable values of the Aerocentric Earth-Sun angle, visibility of relief increases toward the terminator, clouds not withstanding.