

Journal of the National Cancer Institute.

William Godel, deputy director of the Defense Department's Advanced Research Projects Agency.

Abe Silverstein, director of National Aeronautics and Space Administration's Lewis Research Center, in Cleveland, Ohio.

Arthur L. Smith, former head of the Rohm & Hass Laboratory for application research, has been appointed manager of the new products research division at Burns & Russell Company, Baltimore, Md.

Robert P. Petersen, physicist and former president of Booz-Allen Applied Research, has been named president of Centech Corporation, a research and development firm recently established in Des Plaines, Ill.

Mones E. Hawley, a former manager with Radio Corporation of America's major systems division, has been appointed associate director of Planning Research Corporation's engineering division in Washington, D.C.

Recent staff appointments at Radio Corporation of America:

Edward Gerjuoy, of E. H. Plesset Associates in Los Angeles, has been named director of plasma and space-applied physics for the firm's defense electronic products.

Richard K. Brown, of the Institute for Exploratory Research at Fort Monmouth, N.J., has joined the staff of RCA's David Sarnoff Research Center in Princeton, N.J.

Seymour Levine, of the Institute of Psychiatry at Maudsley Hospital, London, has been appointed associate professor of psychology at Stanford Medical Center.

Paul V. Maney, director of scientific research at Pharmich Laboratories, a division of Michigan Chemical Corporation, has been named professor of industrial pharmacy at St. Louis (Mo.) College of Pharmacy.

Russell S. Poor, provost of the University of Florida's Miller Health Center, has been named director of the U.S. Atomic Energy Commission's recently established Division of Nuclear Education and Training. Poor will serve on a part-time basis until June.

John R. Barry, former associate professor of psychology at the University of Pittsburgh College of Medicine, has been appointed research coordinator of health and rehabilitation services and professor of psychology at the University of Florida.

Frederick M. Bayer, former associate curator of marine invertebrates at the U.S. National Museum, has joined the University of Miami's Institute of Marine Science as an associate professor.

At National Aeronautics and Space Administration:

Edmund F. Buryan, former president of Motec Industries in Minneapolis, and **Arthur E. Raymond**, former senior vice president of engineering at Douglas Aircraft Company, have been appointed consultants to Administrator James E. Webb. Buryan will advise and assist in developing practical applications of NASA-developed technological advances; Raymond will be concerned with organization and management of advanced research and development programs.

Orr E. Reynolds, former head of the Department of Defense's Office of Science, will direct and establish new programs in bioscience research.

G. E. Boyd, assistant director of Oak Ridge National Laboratory, is serving as visiting professor in chemistry at Purdue during the 1962 spring semester.

Juergen Tonndorf, research professor of otolaryngology at State University of Iowa, will become professor of otolaryngology at Columbia University College of Physicians and Surgeons.

Robert M. Witucki, former senior scientist with Hoffman Electronics' Science Center, has been appointed director of research for Astro Research Corporation in Santa Barbara, Calif.

Theodosius Dobzhansky, professor of zoology at Columbia University, will resign in July to accept a professorship at the Rockefeller Institute. He plans to retain his association with Columbia as adjunct professor.

John F. Grayson, senior research palynologist at Socony Mobil Oil Company's research laboratory in Dallas, Tex., has accepted a position as re-

search group supervisor of palynology at Pan American Petroleum Corporation's research laboratory in Tulsa, Okla.

William B. Harris, former director of environmental sciences at the U.S. Atomic Energy Commission's Health and Safety Laboratory, has joined the engineering staff of Del Electronics Corp. in Mount Vernon, N.Y.

Eric T. B. Gross, of Illinois Institute of Technology, has been appointed to the recently established Philip Sporn Chair in electric power systems engineering at Rensselaer Polytechnic Institute.

K. Venkataraman, director of the National Chemical Laboratory at Poona, India, is visiting professor of chemistry at Purdue.

Maximilian G. Duman, recently appointed professor of biology at St. Vincent College in Latrobe, Pa., has been named president of the college.

Recent Deaths

A. Elizabeth Adams, 69; emeritus professor of zoology at Mount Holyoke College in South Hadley, Mass.; 15 Feb.

Walter E. Bullington, 61; zoologist and former chairman of the department of biology at Randolph-Macon College in Ashland, Va.; 11 Feb.

George N. Papanicolaou, 78; developer of the Pap test for cancer diagnosis and emeritus professor of clinical anatomy at Cornell Medical College; 19 Feb.

Hakon A. Wadell, 66; consultant and research geologist at New Haven, Conn.; 1 Feb.

Louis F. Woodruff, 65; former chief scientific consultant to the director of Army Intelligence; 24 Feb.

Harold G. Wolff, 63; Titzel professor of medicine at Cornell and director of neurological service at New York Hospital; 21 Feb.

Erratum. The statement made in the January 1962 *AAAS Bulletin* that "it takes only 5 roentgens to kill a pine tree" was based on misinformation. Reliable data indicate that on the contrary it takes about 500 roentgens to kill a pine seedling and something like ten times as much to kill a mature pine tree. Chronic exposures of 5 to 10 r/day continued for an average of 8 months per year for 9 years will kill a large percentage of pine trees, according to experiments conducted by Arnold H. Sparrow at the Brookhaven National Laboratory.