
APPOINTMENTS

Edmund G. Ryan, former executive vice president for educational affairs, Georgetown University, to president, Seattle University. . . . **B. S. Thyagarajan**, professor of chemistry, University of Idaho, to director, earth and physical sciences division, University of Texas, San Antonio. . . . **R. Gerald Colclaser**, acting chairman, electrical engineering department, University of Pittsburgh School of Engineering, to chairman of the department. . . . **Herbert H. Richardson**, former head, systems and design division, mechanical engineering department, Massachusetts Institute of Technology, to head, mechanical engineering department at the institute. . . . **John P. Brady**, acting chairman, psychiatry department, University of Pennsylvania School of Medicine, to chairman, psychiatry department at the university. . . . **Stanley J. Rudnick**, electrical engineer, Argonne National Laboratory, to director, electronics division at the laboratory. . . . **Stephen M. Ayres**, professor of medicine, University of Massachusetts, to chairman, internal medicine department, St. Louis University. . . . **Robert H. Cannon, Jr.**, assistant secretary of transportation for systems development and technology, U.S. Department of Transportation, to chairman, engineering and applied science division, California Institute of Technology. . . . **William W. Marion**, professor of poultry science, Iowa State University, to head, food technology department at the university. . . . **Edmund H. Volkart**, professor of sociology, University of Hawaii, to chairman, sociology department at the university. . . . **William W. Hay**, chairman, Planning Committee of the Joint Oceanographic Institutions for Deep Earth Sampling, National Science Foundation, to chairman, marine geology and geophysics, Rosenstiel School of Marine and Atmospheric Science, University of Miami. . . . **Nalin J. Unakar**, acting chairman, biological sciences department, Oakland University, to chairman, biological sciences department at the university. . . . **Arthur C. Haman**, associate professor of mechanical engineering, University of Detroit, to chairman, mechanical engineering department at the university. . . . **John L. Gammel**, former associate professor of psychology, Carnegie-Mellon University, to chairman, physics department, St. Louis University. . . . **James F.**

Danielli, director, Center for Theoretical Biology, State University of New York, Buffalo, to head, life sciences department, Worcester Polytechnic Institute. . . . At the Mount Sinai School of Medicine: **Richard Gorlin**, professor of medicine, Harvard Medical School, to chairman, medicine department, and **Arthur H. Aufses, Jr.**, professor of surgery, State University of New York, Stony Brook, to chairman, surgery department. . . . **David R. Challoner**, professor of medicine and biochemistry, Indiana University School of Medicine, to dean, School of Medicine, St. Louis University. . . . **Edward J. Stemmler**, acting dean, School of Medicine, University of Pennsylvania, to dean of the school. . . . **Sydney R. Parker**, chairman, electrical engineering department, U.S. Navy Postgraduate School, to dean, College of Engineering, Rutgers University. . . . **Robert B. Jennings**, chairman, pathology department, School of Medicine, Northwestern University, to chairman, pathology, School of Medicine, Duke University. . . . **Harley E. Flack**, assistant dean, School of Health-Related Professions, State University of New York, Buffalo, to dean, College of Allied Health Sciences, Howard University. . . . **Charles F. Sanders**, acting dean, School of Engineering, California State University, Northridge, to dean of the school. . . . **Elmer Gray**, acting dean, Graduate College, Western Kentucky University, to dean of the college. . . . At the School of Medicine, State University of New York, Stony Brook: **Leon Mann**, chairman, obstetrics and gynecology department, Nassau County Medical Center, to cochairman, obstetrics and gynecology department, and **Joseph Rovinsky**, director of obstetrics and gynecology, Long Island Jewish-Hillside Medical Center, to cochairman, obstetrics and gynecology department. . . . **Robert D. Allen**, professor of biology, State University of New York, Albany, to chairman, biological sciences department, Dartmouth College. . . . **V. Norskov Olsen**, dean College of Arts and Sciences, Loma Linda University, to president of the university. . . . **Eugene S. Mills**, acting president, University of New Hampshire, to president. . . . **Ross Pritchard**, president, Hood College, to president, Arkansas State University. . . . **Henry Koffler**, director, biological sciences department, Purdue University, to vice president for academic affairs, University of Minnesota. . . . **Roger L. Mitchell**, dean of extension, University of

Missouri, Columbia, to vice president for agriculture, Kansas State University. . . . **Paul Hardin**, former president, Southern Methodist University, to president, Drew University. . . . **N. W. Brian Craythorne**, chairman, anesthesiology department, University of Cincinnati Medical Center, to chairman, anesthesiology department, University of Miami School of Medicine. . . . **Arthur G. Waltz**, professor of neurology, University of Minnesota, to chairman, neurology department, Pacific Medical Center. . . . **James C. Carter**, vice president for academic affairs, Loyola University, to president of the university. . . . **Robert B. Hayes**, dean, College of Education, Marshall University, to president of the university. . . . **Verne Kennedy**, president, Science Industries, to dean, School of Engineering Technology, Metropolitan State College. . . . **William E. Waters**, research scientist, Pacific Southwest Forest and Range Experiment Station, to dean, College of Natural Resources, University of California, Berkeley. . . . **Harold Loe**, professor of dentistry, University of Michigan, to dean, School of Dental Medicine, University of Connecticut. . . . **W. W. Sullivan**, chairman, chemistry department, North Carolina A&T State University, to dean of arts and sciences, University of Arkansas, Pine Bluff. . . . **Joseph R. Jenkins**, professor of technology, Alabama A&M University, to dean, School of Technology at the university.

RECENT DEATHS

William A. Brandenburg II, 64; former president, Wayne State College; 20 January.

William S. Bridges, 84; former professor of mechanical engineering, North Carolina State University; 7 November.

Walter G. Cady, 99; professor emeritus of physics, Wesleyan University; 9 December.

J. William Caldwell, 72; former associate professor of engineering, Pennsylvania State University; 13 February.

C. R. Carpenter, 69; research professor of psychology and anthropology, Pennsylvania State University; 1 March.

Kenneth H. Condit, 86; dean emeritus, School of Engineering and Applied Science, Princeton University; 15 December.

Frank E. Correll, 61; professor of horticultural science, North Carolina State University; 20 February.

Roland P. Davis, 90; dean emeritus, College of Engineering, West Virginia University; 11 December.

Robert R. Gatts, 49; professor of mechanical engineering, University of Kansas; 8 December.

David T. Griggs, 63; professor of geophysics, Institute of Geophysics, University of California, Los Angeles; 31 December.

K. Albert Harden, 69; former dean, College of Medicine, Howard University; 24 December.

Leo E. Melchers, 87; professor

emeritus of plant pathology, Kansas State University; 29 December.

John E. Nordskog, 81; professor emeritus of sociology, University of Southern California; 21 November.

Masaru Ogawa, 55; professor of physics, University of Southern California; 23 December.

John F. O'Rourke, 43; associate professor of sociology, University of Massachusetts; 6 December.

Marion Ownbey, 64; professor of botany and genetics, Washington State University; 7 December.

Melissa L. Richter, 54; professor of psychology and biology, Sarah Lawrence College; 28 November.

Lila Sands, 86; former professor of chemistry, University of Arizona; 18 November.

Ernst Simonson, 75; professor emeritus of physiology, University of Minnesota; 7 December.

Henry W. Thurston, Jr., 81; professor emeritus of plant pathology, Pennsylvania State University; 19 December.

Arthur J. Vorwald, 70; professor emeritus of medicine, Wayne State University; 29 November.

Everett P. Wheeler II, 74; senior research associate, geological sciences department, Cornell University; 30 October.

RESEARCH NEWS

Diabetes: Epidemiology Suggests a Viral Connection

Diabetes is a rapidly increasing health problem. The number of diabetics in the United States has burgeoned from 1.2 million in 1950 to an estimated 5 million now, an increase of more than 300 percent while the population has grown only about 50 percent. Treatment with insulin has markedly increased the life expectancy of diabetics. But in spite of treatment with insulin, strict diets, and oral antidiabetic agents, diabetes is still the fifth leading cause of death by disease in this country and the second leading cause of blindness. Progress in research on diabetes seemed to tail off in the 1950's and early 1960's, but there has been a marked resurgence during the last few years. Epidemiologists have produced much evidence that there is a link between viral infection and the onset of diabetes. Virologists have developed several model systems in which viruses appear to produce diabetes in animals. Geneticists have collected evidence suggesting that there are two different forms of diabetes with different methods of initiation. Endocrinologists have shown that a second hormone, glucagon, is involved in the pathology of diabetes, suggesting that much better control of diabetic symptoms can be accomplished by regulation of the concentrations of both insulin and glucagon. And clinicians and technologists have developed new methods with the potential for providing a more natural regulation of insulin concentration, such as transplantation of pancreases or the islets of Langerhans and implantation of artificial pancreases or cultured beta cells. None of these developments have yet met with any significant clinical application, but they offer much promise for future use. In the next few weeks Research News will present several articles assessing the status of research in diabetes and examining some of the areas where progress has been most apparent.

As long ago as 1864, the Norwegian physician J. Stang reported that diabetes developed in one of his patients shortly after a mumps infection and hypothesized there might be a link between the two events. Since then, there have been many scattered reports of temporal associations between viral infections and the onset of diabetes. The agents thus implicated have included mumps, hepatitis, rubella, coxsackie, and influenza viruses, adenoviruses, enteroviruses, and cytomegalovirus. The presumed links to diabetes seem logical because many of the viruses are known to replicate in the pancreas, but they have often been dismissed as coincidence because of the relatively high incidence of both the viral infections and diabetes.

Only within the past few years has there appeared more substantive evi-

dence linking viruses and diabetes. This new material includes more extensive epidemiological evidence, the identification of high concentrations of antibodies to viral antigens in newly diagnosed diabetics, and several demonstrations that viral infections can produce diabetes-like conditions in animals. Some of this evidence is contradictory and inconclusive, but it is nonetheless becoming clear that viruses may play some role in the initiation of the type of diabetes known as acute-onset or juvenile-onset diabetes. It is equally clear, however, that genetic predisposition to diabetes may play a large role in juvenile diabetes and may be the predominant factor in the maturity-onset form. The virus-initiated development of diabetes in animals will be discussed in a subsequent article.

Mumps virus has been most consistently associated with diabetes in scattered reports, but there has been little concrete epidemiological evidence to support the association. The most notable exception was the 1958 report by Kerstin Melin and Bo Ursing of the Hygiea Sverige in Lasarettet, Umeå, Sweden, who studied an outbreak of mumps in an isolated Swedish community. Of 40 children who contracted mumps during the episode, four developed diabetes during the following year. This proportion is much higher than would be predicted from the normal incidence of juvenile diabetes and is suggestive of a link to the mumps infection.

Somewhat stronger evidence was presented last year by Harry A. Sultz and his associates at the State University of New York at Buffalo. They studied