

head of the physiology section, on work in developing micro methods which gained wide attention.

After World War II, Lang's interests refocused on protein structure, and, as the decade of the double helix developed, the atmosphere that Lang's special gifts generated in the chemistry section was to attract a flood of interesting visitors to the Carlsberg Laboratory. Rollin D. Hotchkiss, of Rockefeller University, who first visited the Carlsberg Laboratory in the middle 1930's, says that Lang recognized that "the traditional approach is not necessarily the shortest route" for the researcher and that Lang also applied discipline and precision to sometimes unorthodox attacks on problems. Lang had a knack of working with younger scientists and coming up with a crucial insight or practical suggestion. Christian B. Anfinsen, now chief of the laboratory of chemical biology, National Institute of Arthritis and Metabolic Diseases, says Lang "could turn a good idea into a terrific idea," and that the ingredients of the Carlsberg's success were "charisma plus bright visitors." And the Carlsberg became a model for those who went on to run labs of their own.

The Carlsberg Laboratory at its apogee was, as one alumnus puts it, "literally the center of protein chemistry." Hotchkiss recalls that "if one said you'd been at the Carlsberg, there was an immediate response. It was like a lodge membership." And it amounted to much more than a pleasant year in Copenhagen for bright post-docs in the postwar easy days for research. In a letter to a Danish academician who is involved in the deliberations over the lab, John A. Schellman of the University of Oregon wrote, "The achievements of the laboratory have been truly remarkable. Just page through any journal that deals with biochemical topics and look for the words: pH, buffer, titration curve, pH stat, cartesian diver, hydrogen exchange, constriction pipette, polyelectrolyte, density gradient, melting curve . . . helix coil transition, limited proteolysis, motility, gradient tube, rotatory dispersion curve, primary, secondary, and tertiary structure, etc. These concepts or major applications of them were produced at the Carlsberg laboratory. The whole spirit of biophysical chemistry, a discipline of great importance today, appears to have had its inception at the Carlsberg laboratory."

Throughout the period, the lab was a small, modestly financed enterprise.

Typically, Lang and three or four Danish colleagues worked with a dozen or more visitors in the basement and on the first floor of the aging, two-story building at 10 Carlsbergvej. Small Rockefeller grants through the 1950's helped, but even in the 1960's the lab's total annual budget remained below \$200,000.

It is commonly agreed that the excitement at Carlsberg has waned. Lang died in 1959, and his successor, Martin Ottesen, has interests of a more applied sort than Lang's; and it was inevitable, after all, that the heady days of protein chemistry in the 1950's would give way to an era of consolidating research.

Uncertainty about the future of the chemistry section has been compounded by the question of whether, or in what form, the physiology section will be continued. After the retirement of Holter, the remnants of that lab have been at least temporarily merged with the Biological Institute, another lab funded by the Foundation. As for the chemistry section, the odds seem to favor a compromise that will allow it to survive as something more than an industrial lab, but something less than a center of fundamental research.

Alumni of the Carlsberg agree that the name and tradition are worth saving, and there have been discussions on ways to revive the Carlsberg in its earlier incarnation. But at a time when U.S. federal research funds have been repatriated and foundations have reordered priorities, even fund-raising prospects seem bleak. Some of the alumni concede that they may be moved more by nostalgia and gratitude than by a sense of the practical possibilities; the future of the Carlsberg is, after all, up to the Danes.—JOHN WALSH

APPOINTMENTS

Albert Ax, professor of psychology, Wayne State University, to chairman, psychology department, University of Detroit. . . . At Florida International University; **Abraham M. Stein**, associate professor of biochemistry, University of Florida, to chairman, biology department and **Robert C. Fisher**, professor of mathematics, Ohio State University, to chairman, mathematics and statistics department. . . . **Guido H. Daub**, acting chairman, chemistry department, University of New Mexico, named chairman. . . . **C. Lawson Crowe**, dean,

Graduate School, University of Colorado, to provost and vice president for research at the university. . . . **Reimar Lüst**, director, Max Planck Institute for Extra-Terrestrial Physics, to president, Max Planck Society, succeeding Adolf Butenandt. . . . **Arnold Allentuch**, professor of mechanical engineering, Newark College of Engineering, to director of research at the college. . . . **Lee Holder**, director, planning and evaluation division, Association for the Regional Medical Program of North Carolina, to dean, College of Allied Health Professions, University of Tennessee, Memphis. . . . **Melvin M. Ketchel**, professor of physiology, School of Medicine, Tufts University, to director, proposed Population Research Center, Oak Ridge Associated Universities. . . . **Abe Rubin**, dean, Ohio College of Podiatric Medicine, to president of the college. . . . **George M. Volkoff**, head, physics department, University of British Columbia, to dean, faculty of science at the university. . . . **Robert D. Coye**, professor of pathology, University of Wisconsin Medical School, to dean, School of Medicine, Wayne State University. . . . **William R. Drucker**, chairman, surgery department, University of Toronto, Canada, to dean of medicine, University of Virginia School of Medicine. . . . **Joseph H. Appleton**, professor of engineering, University of Alabama, Birmingham, to dean, School of Engineering at the university. . . . **George H. Handelman**, chairman, mathematics department, Rensselaer Polytechnic Institute, to dean, School of Science at the institute. . . . **Richard A. Moore**, associate head, mathematics department, Mellon Institute of Science, to chairman of the department. . . . **Richard W. Heckel**, professor of metallurgical engineering, Drexel University, to head of metallurgy and materials science, Carnegie Institute of Technology. . . . **A. Kent Christensen**, associate professor of anatomy, Stanford University Medical School, to chairman, anatomy department, Temple University School of Medicine. . . . **Maureen Henderson**, professor of preventive medicine, University of Maryland School of Medicine, to chairman, preventive medicine department at the university. . . . **Paul B. Pearson**, retired president, Nutrition Foundation, appointed chairman, nutrition and food department, Drexel University. . . . **James H. Zumberge**, professor of geosciences, College of Earth Sciences, University of Arizona,

to chancellor, University of Nebraska, Lincoln. . . . **Jesus Parrilla**, chairman, physics department, Catholic University of Puerto Rico, to dean, College of Science at the university. . . . **John J. Sharry**, head, office of learning resources, University of Alabama, Birmingham, to dean, College of Dental Medicine, Medical University of South Carolina. . . . **Fain A. Guthrie**, chairman, former division of education, University of Alabama, Birmingham, to dean, School of Education, University College at the university. . . . At the University of California, Irvine: **Lewis A. Froman, Jr.**, professor of political science, to dean, School of Social Sciences, **Howard M. Lenhoff**, former associate dean, School of Biological Sciences, to dean, Graduate Division, and **T. Timothy Crocker**, internist, infectious disease service, University of California San Francisco Medical Center, to chairman, community and environmental medicine department, College of Medicine. . . . At Dartmouth College: **Peter C. Whybrow**, director, residency training program in psychiatry, Medical School, to chairman, psychiatry department, and **Saul Blatman**, professor of pediatrics, Mt. Sinai School of Medicine, to chairman, new maternal and child health department. . . . **Ira Dyer**, professor of ocean engineering, Massachusetts Institute of Technology, to head, ocean engineering department, at the institute. . . . **John W. Clayton, Jr.**, director, inhalation toxicology-biochemistry laboratory, Hazelton Laboratories, Inc., to director, Center for Environmental Toxicology, University of Wisconsin. . . . At Queen's University: **Michael W. Partington**, acting head, pediatrics department, appointed head, and **Robert B. Stewart**, professor of microbiology, to head, microbiology and immunology department. . . . **Lucas Calpouzos**, professor of plant pathology, University of Minnesota, to head, plant sciences department, University of Idaho. . . . **William J. Adelman, Jr.**, professor of physiology, University of Maryland Medical School, Baltimore, to chief, Laboratory of Biophysics, National Institutes of Health. . . . **Kenneth E. Davis**, professor of physics, Reed College, to chairman, physics department at the college. . . . **Victor A. Politano**, acting chairman, urology department, University of Miami School of Medicine, appointed chairman of the department. . . . **Herbert H. Woodson**, professor of energy conversion, M.I.T., to chairman, electrical engineering department, University of Texas.

RECENT DEATHS

Richard T. Alexander, 84; former professor of education, Teachers College, Columbia University; 16 October.

E. Wight Bakke, 68; professor of economics, Yale University; 23 November.

J. D. Brooks, 51; organic geochemist, mineralogy division, Commonwealth Scientific and Industrial Research Organization, Australia; 15 July.

Webster Chester, 94; former chairman, biology department, Colby College; 7 October.

Wallace R. Ernst, 43; botanist and curator, botany department, Smithsonian Institution; 8 October.

Clark C. Evernham, 52; managing director, San Diego Museum of Man; 1 October.

John N. Finlayson, 91; former dean of applied science, University of British Columbia; 21 September.

Lester H. Germer, 74; senior research associate in applied physics, Cornell University; 3 October.

Alonzo G. Grace, 75; former dean, School of Education, University of Illinois; 19 October.

Robert Guttchen, 45; chairman, foundations of education department, Hofstra University; 27 August.

Franklin M. Hanger, Jr., 77; professor emeritus of medicine, Columbia University; 10 October.

Doris W. Hayes, 73; retired range conservationist, Forest Service Herbarium, U.S. Department of Agriculture; 20 September.

Weikko A. Heiskanen, 76; professor emeritus of geodesy, Ohio State University; 23 October.

Frank M. Hildebrandt, 83; plant physiologist and retired director of research, Industrial Chemicals Division of National Distillers Corporation; 25 September.

Michael A. Hill, Jr., 73; former professor of mathematics, University of North Carolina; 23 October.

Forrest S. Holmes, 86; former seed analyst for the State of Maryland; 6 November.

James M. Hughes, 81; former dean, School of Education, Northwestern University; 26 October.

Leonard M. Monheim, 60; professor of anesthesiology and pharmacology, University of Pittsburgh; 18 October.

Jean P. Nitsch, 49; professor of plant physiology, National Institute of Agronomy and scientific director, National Center for Scientific Research, Paris, France; 29 July.

John F. O'Malley, 50; dean, School of Education, St. Bonaventure University; 31 August.

Mynie G. Peterman, 75; former clinical professor of pediatrics, Marquette University; 14 October.

Nilkanth M. Phatak, 73; professor emeritus of pharmacology, Dental School, University of Oregon; 18 October.

Alec H. Reeves, 69; electronics expert and former head of exploratory circuit research, Standard Telecommunication Laboratories, ITT, England; 13 October.

Elmer C. Sandmeyer, 83; president emeritus, Santa Monica City College; 5 November.

Leonard J. Savage, 53; professor of statistics, Yale University; 3 November.

Louis Schellbach III, 83; archeologist and retired chief park naturalist, National Park Service, Department of the Interior; 22 September.

John A. Schmitt, 42; former associate dean, Boston College of Education; 8 November.

Robert B. Smith, 55; former president, Medical College of Virginia; 8 October.

Aaron J. Spector, 50; professor of sociology, Temple University; 19 November.

Celestin J. Steiner, 73; former chancellor and president, University of Detroit; 25 October.

Francis E. Swain, 60; chief, data processing division, Engineering and Research Center, Bureau of Reclamation, Department of the Interior; 1 October.

Ernest L. Talbert, 92; professor emeritus of sociology, University of Cincinnati; 20 September.

Oscar J. Thies, Jr., 74; former professor of chemistry, Davidson College; 18 October.

Arne Tiselius, 69; retired professor of biochemistry, Uppsala University, Sweden; 29 October.

Arthur C. Trowbridge, 86; professor emeritus of geology, University of Iowa; 16 November.

Jeannie Wahlert, 88; former professor of education, Harris Teachers College; 13 November.

Herbert W. Wesle, 83; former professor of civil engineering, University of Wisconsin, Milwaukee; 8 November.

Joseph C. Wilson, chairman, Xerox Corporation and of the presidential committee on health education; 22 November.

John R. Young, 66; former president, Monticello College; 1 November.