

greatly in actual indirect cost to institutions resulted in real inequities.

The so-called Wooldridge report on the National Institutes of Health, *Bio-medical Science and Its Administration* (see *Science*, 26 March), may also have given impetus to the change. While the Wooldridge panel took no position on whether or not the government should pay full costs of research projects for which it makes grants, it did say, in effect, that if NIH is going to pay less than the full costs of the projects it supports, the computation should be on the basis of the total cost of the project rather than on the present system of computing direct and indirect costs.

The provision in the three House bills is as follows. "None of the funds provided herein shall be used to pay any recipient of a grant for the conduct of a research project an amount equal to as much as the entire cost of the project."

As it stands, the section appears to be an open-ended one, and some university officials have been highly apprehensive over how the blanks are to be filled in.

The Appropriations Committee report called on the Bureau of the Budget to promulgate regulations on the section not later than 1 July. But the Bureau, in a demonstration of bureaucratic circumspection, has not done so. For the Budget Bureau could be accused of jumping the gun, since the section has not been written into law.

The Senate Appropriations independent offices subcommittee, as a matter of fact, recently struck the new cost-sharing language from its bill. So the fate of the provision will have to be determined when the three appropriations bills go to the House-Senate conferences to reconcile differences. A House-Senate conference on the Independent Offices Appropriations bill has been set for next Tuesday.

Even on the House side the new provision is viewed with reservations—in the defense appropriations subcommittee, for example—because the language is so general.

While the record does not show it, Fogarty is understood to feel that a 5-percent maximum should be placed on an institution's share of the research costs. On many projects the percentage would be less, and in special cases, such as the support of a primate center, where costs are high and benefits are widespread, the university would ap-

parently be expected to supply only minimal support.

In its report Fogarty's committee also added an interesting suggestion: "For administrative purposes," it stated, "the committee believes that a determination of the extent of Federal participation might be made on either a project-by-project basis, or an institutional basis."

With details of the new provision not yet clear, university misgivings about the new provision seem to center generally on its compulsory-cost-sharing feature. Some observers suggest that the new approach may create difficulties for universities which now use federal research funds to pay the portions of faculty salaries justified by faculty time spent on research projects.

Other institutions which refuse to use federal funds to pay tenure faculty—usually institutions with greater resources—could presumably declare faculty salary for research time on federal projects to be part of the institution's cost-sharing effort. Less affluent universities, which use federal funds pro rata to support salaries, would have to find cost-sharing funds elsewhere. For them, life on a sliding scale might prove financially more arduous than playing the percentages is now.—JOHN WALSH

Announcements

The Education Committee of the American Physiological Society plans to revise and extend its list of **Laboratory Experiments in General Physiology** for university and college use. The list was originally prepared in 1959. University and college teachers who have used any of these experiments in their teaching laboratories are invited to send the committee their comments, criticisms, and adaptations of the experiments made for particular uses in their own laboratories, or any new experiments they have taken from current research and adapted for teaching. (S. R. Tipton, Department of Zoology, University of Tennessee, Knoxville 37916)

The National Bureau of Standards Institute for Basic Standards recently established a **temperature scale from 4° to 14°K**. Based on the acoustical thermometer, the scale bridges the gap between the lower limit (10°K) of the NBS 1955 Provisional Scale and the temperatures defined by the T₅₈ Helium 4 Vapor Pressure Scale (2° to 5°K).

A thermometer calibration service has been initiated from 2° to 20°K at 1-degree intervals, and the first such calibration was recently completed for industry. The establishment of the new scale and calibration service is the result of a 9-year research program conducted by H. H. Plumb and G. Cataland, of the institute's low-temperature laboratory.

Grants, Fellowships, and Awards

Short-term fellowships in tropical medicine are being offered by the Louisiana State University medical school. Recipients will study in nearby Latin American countries, and their work will stress the research needs of the area. Transportation and per diem allowances are furnished. Applicants may be teachers or advanced graduate students in any subdivision of microbiology, public health, or nutrition, or teachers or residents in infectious diseases, pediatrics, or dermatology. (G. A. Thurber, Louisiana State University Medical Center, New Orleans 70112)

The Inter-University Committee on Travel Grants announces opportunities for advanced graduate students and scholars to study and do **research in the U.S.S.R.** and Bulgaria, Czechoslovakia, and Hungary, during the 1966–1967 academic year. Participants will be chosen through a national competition. Applicants must be citizens or permanent residents of the U.S. and be proficient in the language of the country in which they wish to study. (H. Mehlinger, Inter-University Committee on Travel Grants, Indiana University, Bloomington)

Applications are being accepted for pre- and postdoctoral fellowships in **brain research** at the new Center for Neurobiological Sciences of the University of Florida, Gainesville. Appointments may be for 9, 10, or 12 months, and applicants must be U.S. citizens.

Predocctoral fellowships carry stipends of \$2400 a year, plus \$500 for each dependent. Candidates must be accepted by one of the departments participating in the center (anatomy, physiology, psychology, or zoology) and by a faculty member of the center from that department. Applications must be received in time to begin a term at the university; the trimesters start 31 August, 5 January, and 28 April.

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NEWS AND COMMENT

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Postdoctoral recipients will get a \$6000 annual stipend, plus \$500 per dependent. They should apply directly to the center, but will be affiliated with an individual department. There is no application deadline. (Directors, Center for Neurobiological Sciences, University of Florida, Gainesville)

Meetings

The call for papers has been issued for the fourth conference on **electronic computation**, scheduled for September 1966 at U.C.L.A. The meeting will stress the application of electronic computers to structural engineering practice. Being sought are papers that cover the use of new programming languages, new approaches to problem solving, design applications, the unfilled needs of practicing structural engineers, and the associated problems of communication, documentation, and economics. Deadline for receipt of abstracts: *31 August*. (L. A. Schmit, Jr., Engineering Division, Case Institute of Technology, Cleveland, Ohio 44106)

Scientists in the News

Bert L. Vallee has been named Paul C. Cabot professor of biological chemistry at the Harvard medical school. The chair was established this year in honor of the treasurer of Harvard, who retired 1 July.

John P. Utz, formerly chief of the infectious disease section at the National Institutes of Health, has become professor of medicine and head of the allergy and infectious disease division at the Medical College of Virginia, Richmond.

The State University of New York at Buffalo has announced that **Willard F. Libby** and **Edward Teller** will be "distinguished visiting professors of nuclear science" for short periods during the 1965-1966 academic year. According to the university, they will "deliver public lectures, conduct seminars, and meet with graduate students and faculty." Libby is director of the Institute of Geophysics and Planetary Physics at U.C.L.A.; Teller is associate director of the Lawrence Radiation Laboratory, Livermore, California.

Donald E. Wohlschlag, professor of biological sciences and director of an antarctic fishes research project at Stanford University, will become professor of zoology and director of the University of Texas Institute of Marine Science, Port Aransas, as of 1 September.

Walter E. Heston, chief of the National Cancer Institute's Laboratory of Biology, has received the Alessandro Pascoli Prize for his genetic research on lung tumors in the laboratory mouse. The million-lire (about \$1600) prize, is awarded by the Tourist Bureau of Perugia, Italy, through the University of Perugia.

Melvin Henriksen, professor of mathematics at Purdue University, will become chairman of the mathematics department at Case Institute of Technology, Cleveland, Ohio, as of 1 September.

Raymond L. Bisplinghoff, associate administrator of the Office of Advanced Research and Technology at NASA, has been appointed president of Case Institute of Technology, 1 September.

Belgium's Académie Royal de Médecine has presented its \$4000 Pfizer prize to **J. E. Desmedt** for his work in neurophysiology and experimental neurology. He is the director of the laboratory of pathophysiology of the nervous system and the brain research unit at the University of Brussels.

Samuel Lewis Meyer, professor of botany and academic vice president of the University of the Pacific, has been named president of Ohio Northern University, Ada, succeeding **F. Bringle McIntosh**, who has announced plans to retire 31 August. Meyer will be inaugurated in October.

The University of Rochester has named **Cecil E. Combs** associate provost for special programs, effective 1 September. He is to retire 31 August as commandant of the U.S. Air Force Institute of Technology at Wright-Patterson Air Force Base.

Morris Katz, director of environmental assessment in the occupational health division of Canada's Department of National Health and Welfare, has been appointed professor in the civil engineering department of Syracuse University. He is to begin there 1 September.

Jacob I. Hartstein was recently formally inducted as the first president of Kingsborough Community College, New York.

Thomas F. Bates, professor of mineralogy, Pennsylvania State University, has been named science advisor to the Secretary of the Interior, succeeding **John C. Calhoun, Jr.**

Ogden R. Lindsley has been named professor of education at the University of Kansas and research director of the children's rehabilitation unit, University of Kansas Medical Center. He was formerly associate in psychology and director of the behavior research laboratory in the Harvard Medical School psychiatry department at Metropolitan State Hospital, Waltham, Mass.

Daniel Alpert, director of the University of Illinois coordinated science laboratory, will become dean of the university's graduate college, effective 1 September.

George W. Irving, Jr., has been appointed administrator of the Agricultural Research Service, U.S. Department of Agriculture; he had been associate administrator.

A. Geoffrey Norman, vice president for research at the University of Michigan, has been appointed chairman of the division of biology and agriculture in the National Research Council. He succeeds **Theodore C. Byerly**, administrator of the cooperative state experiment station service, U.S. Department of Agriculture, who has completed his 2-year term as chairman.

Frank Press, professor of geophysics and director of the seismological laboratory at California Institute of Technology, has been named to succeed **Robert R. Shrock** as head of the department of geology and geophysics at M.I.T. He is scheduled to begin there 1 September.

Donald Lee Dean, chairman of civil engineering at the University of Delaware, will become chairman of the department of civil engineering at North Carolina State University, in September.

Saul B. Barber, associate professor of biology at Lehigh University, will become professor and chairman of the biology department at the school, effective 1 September.

Henry G. Kunkel, a professor at the Rockefeller University, has received the first annual Allergy Foundation award for his research in allergy. The award carries a \$1000 honorarium.

Charles L. Hosler, head of the department of meteorology at Pennsylvania State University, has been named dean of the college of mineral industries, as of 1 August. He succeeds **Richard H. Jahns**, who has been appointed dean of the school of earth science at Stanford.

Charles B. Huggins, director of the Ben May Laboratory for Cancer Research, Chicago, has been selected to receive the \$5000 Passano award for 1965, for his contributions to the knowledge of the role of hormones in the induction and control of cancer.

Robert E. Olson, head of the department of biochemistry and nutrition at the University of Pittsburgh, has been awarded the first McCollum award of the American Society of Clinical Nutrition. The award, for research in clinical nutrition, includes a scroll and \$1000 honorarium.

Marion L. Ferguson, research associate and head of the physiology laboratory at Goodyear Aerospace Corporation, Akron, has been appointed associate professor in the department of biological sciences at Kent State University, Kent, Ohio, effective in September.

Lloyd W. Law, head of the carcinogenesis section at the National Cancer Institute, NIH, has been presented the G. H. A. Clowes memorial award for cancer research, for his recent work on the role of the thymus in relation to the induction of cancer. The \$1000 award, made annually by Eli Lilly and Company, was presented by the American Association for Cancer Research at its annual meeting in Philadelphia.

Neil Kent, associate professor of psychology at Grinnell College, Iowa, will become professor of psychology at Western Michigan University in August.

Milton O. Lee has retired as executive officer of the Federation of American Societies for Experimental Biology, effective 1 July. He will remain at the Federation as adviser to the chairman of the board, and as managing editor

New Weather Agency

Dr. Robert M. White, chief of the Weather Bureau since 1963, has been named to head the new Environmental Science Services Administration (*Science*, 11 June, p. 1446).

President Johnson also named Rear Admiral H. Arnold Karo, director of the Coast and Geodetic Survey for 10 years, deputy head of the new agency. Both men were sworn in 27 July.

The agency came into being 13 July as a result of a plan submitted to Congress by the President in May. It will work to pull together scattered government efforts in meteorology and related activities.

The Weather Bureau and the Coast and Geodetic Survey are combined by the reorganization measure into the Environmental Science Services Administration. A third unit—the Central Radio Propagation Laboratory—will become a part of the new agency in October.

of the American Physiological Society publications until his full retirement in September 1966. Lee became executive director of the combined offices of FASEB and the American Physiological Society in 1947, and was appointed federation secretary the following year.

Louis S. Marks, associate professor of comparative anatomy at Fordham University, has been appointed professor and head of biology in the department of natural sciences at Pace College, effective 1 September.

William C. Kelly, director of the department of education and manpower of the American Institute of Physics, will become associate director of the Office of Scientific Personnel at the National Academy of Sciences–National Research Council, effective 1 September.

Recent Deaths

James Bertram Collip, 72; head of the medical research department at the University of Western Ontario and co-developer, with Frederick Banting, of insulin; 19 June.

Moyer S. Fleisher, 80; bacteriologist emeritus at Jewish Hospital, St. Louis, and former head of the department of bacteriology and immunology at St. Louis University; 10 March.

James R. Gilbreath, 48; assistant director of Argonne National Laboratory; 8 July.

Virginia Gildersleeve, 87; dean emerita of Barnard College; 8 July.

Bernard Greenberg, 52; professor of biology and chairman of the biology department, Roosevelt University, Chicago; 17 June.

Phyllis Hayford Hutchings; associate professor of astronomy at Whitman College, Walla Walla, Washington; 7 July.

R. Lynn Kalmbach, 51; founder of the South Carolina Educational Television Network; 14 June.

Gilbert Malcolm, 72; president emeritus of Dickinson College; 2 July.

J. Percy Moore, 95; professor emeritus of zoology at the University of Pennsylvania; 1 March.

Charles Pierce, 64; retired deputy director of the U.S. Coast and Geodetic Survey; 7 July.

William H. Rinkenbach, 71; consulting chemist, former head chemist at the U.S. Army Picatinny Arsenal, Dover, N.J.; 29 June.

Lazar Rosenthal, 91; former head of the bacteriological laboratory at Maimonides Hospital, Brooklyn, N.Y.; 13 June.

Howard W. Russell, 64; technical director at Columbus Laboratories, Battelle Memorial Institute; 13 July.

Anton K. Valter, 60; Soviet physicist at Kharkhov University; 13 July.

Ben Willerman, 47; on leave as professor of psychology at the University of Minnesota to serve as a staff associate of the Social Science Research Council; 21 June.

Erratum. In the report "Nonspecific binding of complement by digestion fragments from antiviral gamma globulin" by N. E. Cremer, J. L. Riggs, E. H. Lennette, and F. W. Jensen (2 July, p. 84) the footnote sign § should have been printed after "Papain" and "Pepsin" (the controls) both places where they appear in column 1 of Table 2.

Erratum: In the first paragraph of the report "Reduction of trimethylene dipyrindyl with illuminated chloroplasts" by C. C. Black (2 July, p. 62), the second arrow in the reaction scheme should have been a solid arrow like the third arrow.

Erratum: In the report "Medial neurosecretory cells as regulators of glycogen and triglyceride synthesis" by E. Van Handel and A. O. Lea (16 July, p. 298), the first footnote in Table 1 should have read "Milligrams $\times 3.7$."