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denly accumulated during the summer. One of these findings was an apparent break-through of researchers at Roswell Park and elsewhere in attempts to grow the virus particles cited by Endicott in large quantities. Another was the discovery by a team of researchers from the Pfizer laboratories, the South Jersey Medical Research Foundation, and the University of Pennsylvania that some of the particles associated with leukemia were present in cow's milk. Although NCI and other officials are careful to emphasize that this is only one of many new clues, it is clearly one that raises the possibility of a major public health "scare" and may have influenced the Senate committee, which had not yet completed its deliberations.

The major influence, however, appears to have been the conviction that the level at which NCI had planned to fund leukemia research was not high enough to exploit satisfactorily all the new discoveries. The appropriation followed the discoveries very quickly and shows how speedily Congress can react when the significance of scientific information is presented to it in comprehensible fashion. In fiscal 1964, about $24 million was spent on studies related to leukemia, with all but $250,000 going to support outside grantees and contractors. Although the spending level for the current fiscal year had not been determined, it appears that with the special appropriation, it will total around $33 or $34 million. The additional $10 million has been specifically earmarked according to the NCI for (i) efforts to substantiate the viral nature of leukemia and to develop vaccines; (ii) developmental work to minimize the dangers to scientists working on isolating and growing the viruses; (iii) further clarification of leukemia in animals and its relation to man; and (iv) intensive development of new leads in chemotherapy, supportive therapy, and pharmacology.—ELINOR LANGER

Announcements

The National Bureau of Standards Institute for Basic Standards has initiated a service for the **calibration of humidity measuring instruments**. The facility is being offered to both government and the public, but only instruments suitable for use as laboratory or plant standards are being accepted

for calibration. The results will be reported in terms of dew-point temperature (degrees centigrade), mixing ratio (grams of water vapor per kilogram of dry air), volume ratio (parts of water vapor per million parts of air), or relative humidity (percent). Information regarding the fees charged for the calibrations may be obtained from Test Administration, Accounting Division, National Bureau of Standards, Washington, D.C. 20234.

Grants, Fellowships, and Awards

Applications are invited from U.S. scientists to participate in a conference on **developmental biology and fertilization**, to be held in Tokyo 27–31 March. The Meeting is sponsored by the U.S.–Japan Cooperative Science Program. Funds are being provided by the National Science Foundation for 20 U.S. investigators to attend the meetings and to visit major Japanese centers for developmental biology. Deadline for receipt of applications: *1 November.* (C. L. Markert, Department of Biology, Johns Hopkins University, Baltimore, Md.)

The International Laboratory of **Genetics and Biophysics** in Naples, Italy, has announced the availability of ten 2-year fellowships beginning 1 January 1965. The program, intended for postgraduate research and further training through advanced courses at the laboratory, is open to applicants 30 or under who have received a university degree during the past 5 years in mathematics, physics, chemistry, biology, or medicine. Applications should include academic transcripts, a tentative program of proposed scientific work, and one copy of each scientific publication. Submission deadline: *15 November.* (G. Polvani, Laboratorio Internazionale di Genetica e Biofisica, Casella Postale 104, Napoli, Italy)

The Population Council is offering fellowships for pre- or postdoctoral study in **demography** during the 1965–66 academic year. Applicants must have completed 4 years of college, and preference will be given those with at least a year's graduate work. Recipients may choose their own place and course of study. Stipends begin at $2700, plus tuition and university fees; supplemental funds will be used for books, necessary travel, and special expenses. Stipends are larger for postdoctoral fel-

lows. Deadline for applications from the U.S. and Canada: *30 December*; from other countries: *11 January*. (Fellowship Secretary, The Population Council, 230 Park Avenue, New York 10017)

The Atomic Energy Commission is offering two types of fellowships in **health physics**. Each fellowship is for a year, renewable for up to 3 years; stipends include dependency and travel allowances, tuition, and fees at a participating university. Applicants for each must be U.S. citizens. Information on both programs is available from the Health Physics Fellowship Office, University Relations Division, Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tenn. 37831. The fellowship programs are:

AEC special fellowships in health physics, for full-time graduate study toward the M.S. or Ph.D., during an academic year and 3 months' on-the-job training at a government laboratory. The annual stipend is $2500. Applicants must be under 35 years old and have a bachelor's degree in biology, chemistry, engineering, physics, or a related field.

Advanced health physics fellowships, for persons now active in the field, with at least 2 years' training besides schooling and able to study at the doctoral level. Preference is given those less than 32 years of age. The stipend is $4000 a year.

Meeting Notes

The **Air Polution Control** Association will hold its 58th annual meeting in Toronto, Ontario, 20–24 June 1965, and papers are solicited. Deadline for 200-word abstract and title in triplicate: *15 November*. (M. Katz, Director, Environmental Assessment, Occupational Health Division, Department of National Health and Welfare, 45 Spencer St., Ottawa, Ontario)

The theme of the 13th Hahnemann Medical College symposium will be the **stomach**, and related areas of the esophagus and duodenum. The meeting, scheduled 14–16 December in Philadelphia, will stress the basic aspects of the physiology and diseases of the stomach and interrelationships of the abnormalities to functions of adjacent areas of the intestinal tract. (J. H. Moyer, Department of Medicine, Hahnemann Medical College, Philadelphia, Pa.)

Courses

A course in **digital simulation** technology has been organized by Control Technology, Inc. It is scheduled 16–23 October, in Long Beach, California. Registration fee for the full course is $350. (Digital Simulation, Control Technology, Inc., 1232 Belmont Ave., Long Beach, Calif. 90804)

Films

The following 16-mm, sound, color films are available from Thorne Films, Inc., 1229 University Ave., Boulder, Colorado 80302.

Measuring Oxygen Consumption (6 minutes; $77). Construction and use of a simple apparatus to measure oxygen consumed by small mammals; can be measured in cubic centimeters per hour, per gram of body weight.

Bacteriophage Growth (4 minutes; $53). Presence and growth of T_2 bacteriophage, and a method for determining its concentration in a culture of *Escherichia coli* B.

Hot Wire Technique with Chick Embryo (3 minutes; $41). A simple procedure for removing chick embryos from their yolks by using a circular piece of nickel-chrome wire, which can then act as a carrier during the fixing and staining process.

Development of the Cardio-Vascular System of the Chick: The Heart (20 minutes, color or black and white, sound. First of series of five films). Heart development in the early chick embryo, later development, and effects of development of the truncus, ventricle, and sinoatrial region on heartbeat rate. (Audio-Visual Center, Indiana University, Bloomington, Ind.)

Scientists in the News

George W. James, director of socio-economics research at Battelle Memorial Institute, has been elected president of the National Association of Business Economists, succeeding **Richard W. Everett** of Continental Can Company.

Richard Cole, formerly in charge of the countermeasures evaluation branch of the military evaluations division at the U.S. Naval Radiological Defense Laboratory, has been named to head the chemical technology division at the laboratory.

James G. Kelly, chief of the community projects section at the NIH Mental Health Study Center, has been appointed associate professor of psychology at Ohio State University.

Harpur College, Binghamton, N.Y., has appointed **H. R. Kells** assistant dean. He has been assistant to the chairman of the college's division of science and mathematics.

The following appointments have been announced by Rice University:

Friedrich Horn, formerly at the University of London; professor of chemical engineering.

Angelo Miele, former director of astrodynamics and flight mechanics at Boeing Scientific Research Laboratories, Seattle, Washington; professor of astronautics.

G. C. Jain, formerly at Purdue University; associate professor in electrical engineering.

Douglas Price-Williams, formerly at the London School of Economics; associate professor of psychology.

William H. Summerson, formerly chief scientist at the U.S. Army Edgewood Arsenal, Maryland, has become director of the Food and Drug Administration's Bureau of Scientific Research.

At the California College of Medicine:

Thomas L. Nelson, former professor in the University of Kentucky college of medicine, has become professor and chairman of the pediatrics department.

Bernard J. O'Loughlin, former professor of radiology and head of the diagnostic division and chief of pediatric radiology at the University of California, Los Angeles, has been appointed professor and chairman of the department of radiology.

Bernard O'Connor, head of the neurology service at Los Angeles County Rancho Los Amigos Hospital, has become chief of the division and associate professor of medicine.

Thomas Gold, chairman of Cornell's department of astronomy and director of the university's center for radiophysics and space research, and **Harry Messel**, head of the school of physics at the University of Sidney, Australia, have been named directors of the newly established Cornell-Sydney joint astronomy center. The center will employ facilities at Cornell, Sydney, and the

Arecibo Ionospheric Observatory in Puerto Rico. Members of the Cornell faculty who have joined the center are:

Edwin E. Salpeter, professor of nuclear studies;

Philip Morrison, professor of physics;

Kenneth I. Greisen, professor of physics and director of Cornell's cosmic astronomy program;

Gordon H. Pettengill, associate director of the Arecibo Ionospheric Observatory;

Associate professors of astronomy **Frank D. Drake, Marshall H. Cohen, W. Ian Axford, Mukul R. Kundu**, and **Martin O. Harwit**.

Sydney faculty members associated with the center are:

R. Hanbury Brown, director of Sydney's stellar interferometer;

W. N. Christiansen, head of Sydney's electrical and engineering school;

C. B. A. McCusker, who is in charge of Sydney's cosmic astronomy installation:

B. Y. Mills, department of physics.

Roy H. Garstang, former assistant director of the University of London Observatory and Reader in Astronomy at the university, has joined the University of Colorado as professor of physics and astrophysics, and permanent fellow of the Joint Institute for Laboratory Astrophysics.

Dorland J. Davis has been appointed director of the National Institute of Allergy and Infectious Diseases, to succeed **Justin M. Andrews**, who has retired. Davis was formerly director of intramural research at NIAID.

Recent Deaths

Philip E. Ohmart, 48; founder and president of the Ohmart Corporation; 27 August.

Fred W. Schueler, 43; professor and chairman, department of pharmacology, Tulane University school of medicine; 7 September.

Angus M. Woodbury, 78; director of ecology research on the Colorado Project at the University of Utah; 1 August.

Rufus B. von Kleinsmid, 89; Chancellor, University of Southern California; 9 July.

Erratum: In the report "Lobuloalveolar differentiation in mouse mammary tissues in vitro" by R. Ichinose and S. Nandi (31 July), the sentence begining on page 496, column 3, line 13, should have read: "The contents of media 2, 3, and 4 will be referred to hereafter as 'incomplete hormone supplements'; the contents of medium 5, as 'complete hormone supplement'."