Dr. Burney Honors 62 Award Winners

Sixty-two NIH employees were presented with cash awards totaling $6,095 by Dr. Leroy E. Burney, Surgeon General, PHS, at the annual awards ceremony, held in the CC Auditorium on January 8.

The program included addresses by NIH Director James A. Shannon and Joseph S. Murtaugh, Chairman of the NIH Board on Employee Awards. The awards total was one of the largest in the history of NIH.

An award of $1,070 was shared by nine employees of the DRS Media Section, who are responsible for supplying scientists with hundreds of different kinds of culture media. In addition to modifying and improving standard media, they have met numerous unusual demands for complex variations.

Fifteen employees in the Program Services Section, NIMH, were honored for developing new methods and procedures to meet the needs of an expanded research grants program, for which they are responsible. They shared awards totaling $1,890.

Also cited for superior work on the expanded NIH grants program were a group of 11 employees in the Health Research Facilities Branch, DRG. They received $1,300 for successfully administering a new grants program for building and equipping non-Government facilities for health research.

Superior and careful work on the expanded polio vaccine testing program netted 13 people in the Laboratory of Viral Products, DBS, a total of $685. Four employees in the NIAMD Section on Experimental Liver Diseases, who aided...
Radiation And Drugs Affect Hair Growth

No. 199 in a Series

A. Root of normal, growing hair. B. Hair shaft six days after exposure to radiation showing wasting of root. C. Root showing drug effect. Note constriction (arrow) in hair shaft.

How the growth of body tissue is controlled by normal physiological processes still defies scientific understanding. One possible approach to the problem is by the study of the growth and metabolism of hair roots, which are readily accessible tissue.

The hair root is one of the fastest growing tissues in the body. It is estimated that the growing part of the hair root doubles, or perhaps triples, its own mass every twenty-four hours for two to seven years—a rate of growth probably exceeding that of any cancer. At the end of this time, the hair root abruptly stops growing and is destroyed. Later an entirely new root develops and the cycle is repeated.

Investigations into these phenomena, conducted by the Dermatology Service of the General Medicine Branch, NCI, under the direction of Dr. Eugene Van Scott, have led to significant findings, including the effects of radiation and drugs on the growth of hair.

Radiation, the investigators have found, produces changes in the roots of scalp hair when the scalp has been included in the exposure. The changes can be detected by microscopic examination of extracted hair.

Changes indicating a direct effect of radiation are detected as early as four days following irradiation. A wasting of the hair root begins at that time and becomes progressively severe. The number of growing hair roots affected is proportionate to the amount of radiation received by the hair roots and to the time interval following radiation. The last observation may be useful in instances of accidental exposure, and suggests the possibility that radiation exposure can be measured quantitatively in man.

In the case of drugs, the effects on the growing hair are somewhat different. The investigators have found that certain drugs used in cancer chemotherapy only partially injure the hair root, but leave a withered zone as a permanent scar in the hair shaft. When the administration of drugs is stopped, the hair root promptly recovers and resumes producing a normal hair.

The type of hair loss in each of these instances can be easily distinguished. Following radiation, the hair falls out from the roots; but following use of the drugs, hair breaks off at the scars that weaken the shaft.

Further investigations are being carried out in a search for natural factors controlling the growth and metabolism of the hair root. Such studies on this tissue may give clues toward understanding normal, as well as abnormal, growth of other tissues.
NIADD
Bell, J. A.; Ward, T. G.; Kapikian, A. Z.; Shelokov, A.; Reichelderfer, T. E.; and Huebner, R. J. Artificially induced Asian influenza in vaccinated and unvaccinated volunteers.

Eagle, H.; Freeman, A. E.; and Levy, M. The amino acid requirements of monkey kidney cells in first culture passage.

Eklund, C. M.; Bell, E. J.; and Gerloff, R. E. Poliomyelitis in Idaho in 1955 following the use of two lots of vaccine containing live virus.


Huebner, R. J. Considerations of natural "latency" exhibited by certain "inclusion-body" viruses.

Levy, H. S., and Haas, V. H. Alteration of the course of lymphocytic choriomeningitis in mice by certain antimetabolites.

Pappenheimer, A. M., Jr., and Freund, J. Induction of delayed hypersensitivity to protein antigens.

Patterson, P. Y. Organ-specific tissue damage induced by mammalian tissue-adjuvant emulsions.

Shelokov, A. Soviet Medical Research: Some recent advances and future plans.

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TWO NAMED "GUARD-OF-THE-YEAR" FOR '57

Guard Lts. Frederick D. Reynolds (2d from left) and Richard F. Jones (2d from rt.) were recently presented with "Guard-of-the-Year" certificates by DBO Chief R. H. Henschel (center). Looking on are George P. Morse (left), Chief, Plant Safety Branch, and Guard Captain J. L. Craumer.

CREDIT UNION ASSETS TOTAL $1 MILLION

Assets of NIH's Federal Credit Union now total over $1 million, a 25 percent increase over last year, according to reports presented at the annual meeting January 15. Credit Union officers also reported that 3,274 employee loans totaling $1,324,768.59 were approved in 1957.

The following Credit Union officers and committee members were elected at the meeting.

Board of Directors: Dr. Kenneth W. Chapman, CC; Dr. Max Halperin, DBS (re-elected); Walter H. Magruder, NCI (re-elected); and Ruby Peters, DBO.

Supervisory Committee: Willis D. Wine, DBO.

Credit Committee: Josephine I. O'Connor, CC; Lloyd J. Bankard, DRS; and Thomas H. Keys, CC.

The membership also approved a dividend rate of four percent. Dr. Isadore Zipkin, NIDR, won the door prize of a $50 Government Bond.

SPOTLIGHT Contd.

most tourists do in Bermuda." She also spent two weeks driving through Canada, and had a wonderful time, "even though we ran out of money," she says.

Most of Marie's traveling now is confined to dashing to and from her many activities in her recently acquired "pride and joy"—a baby blue Chevrolet convertible.

AWARDS Contd.

in purifying and identifying a new dietary agent, received an award of $250.

A group of eight clerical workers in the NIAID Extramural Programs Branch were recognized for their outstanding work in administering a new training grants program in spite of the illness and transfer of senior staff members. They received $485.

Individual performance awards were presented to Shirley A. Lewis, research assistant in the Surgical Neurology Branch, NINDB, and Arthur D. Catlin, DBO Space Analyst.

NIH Instrument Section Holds Training Program

The Instrument Section, DRS, is sponsoring an on-the-job training program to acquaint its personnel with recent technological advances in the field of engineering and to review fundamental scientific principles.

Twenty-one employees recently completed a ten-week lecture course on the fundamentals of semiconductor electronics. Biweekly sessions included discussions on the behavior of transistors, the design of transistorized devices, and other semiconductor devices such as photovoltaic cells and solar cells. The course was taught by Gerald Vurek, electrical engineer in the Instrument Section's Engineering Unit.

Participants included V. T. Almasy, W. J. Dorsey, W. D. Hamilton, S. M. Meyers, K. H. Noyes, R. E. Murphy, and G. L. Johnston, all of LAB; and B. E. Burr, N. F. Coffey, Dr. J. Davidson, C. R. Mencken, L. Waters, W. C. White, and D. G. Winfrey, of NCI.

Others were J. S. Palmer, Dr. E. R. Simon, and R. H. Thompson, NIAMD; W. H. Washington and E. R. Whitcomb, NINDB; and H. V. Trantham and W. C. Whitehouse, NIH.

The training program was planned by Laurence R. Crisp, Chief, Instrument Section. Courses are open to all NIH employees interested in attending. A review of elementary physics, taught by George I. Johnston, will begin in February and will be announced in the NIH RECORD and the weekly Calendar of Events.

Surgeon General Leroy E. Burney (second from right) presents awards to members of the NIAID Extramural Programs Branch, as Joseph S. Murtaugh (right), Chairman of the NIH Board on Employee Awards, looks on. Award recipients are (left to right) Rosa A. Springman, Mary E. Schroe-der, Doris S. O'Keefe, Doro T. Gottlieb, Cordelia T. Gollic, Helen W. Denson, Mildred D. Bynum, and Louise N. Barnes.