



Consultants Appointed To Advise On Institute Intramural Programs

Eight boards of scientific counselors have been established by PHS to review, discuss, and make general recommendations concerning the intramural research program of NIH in Bethesda and in the field.

Each board, composed of six outstanding non-Federal scientists, will advise one of the seven Institutes or DBS. Members have been selected from basic and clinical fields to serve four-year terms.

The National Advisory Councils of the Institutes will continue to advise the Surgeon General on the total program of each Institute, with particular emphasis on extramural activities. The new boards will be concerned only with activities conducted directly in NIH facilities.

Several of the boards have already met to confer with Institute Directors, Scientific Directors, and Laboratory and Branch Chiefs. They will submit recommendations to the Institute Directors and will be available to advise the NIH Director on general scientific policy.

HOW TO PUBLISH? ASK THE EXPERTS!

A scientific writing seminar to aid NIH scientists in the preparation and publication of scientific papers will be conducted by three nationally known science editors on December 6.

Participating in the question and answer session at 3:30 p.m. in Wilson Hall will be Dr. Graham Du Shane, Editor of *Science*, a publication of the American Academy for the Advancement of Science; Dr. Milton O. Lee, Executive Secretary

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DR. WINDLE RECEIVES WEINSTEIN AWARD



Dr. William F. Windle

Dr. William F. Windle, Chief, Laboratory of Neuroanatomical Sciences, NINDB, was presented the celebrated Max Weinstein Award at the eighth annual convention of the United Cerebral Palsy Association in St. Louis, Mo.

The award, which consists of a silver plaque and a check for \$1,000, is made annually for outstanding achievement in basic research related to cerebral palsy. The presentation was made by Dr. Seymour S. Kety, Chief, Laboratory of Clinical Sciences, NIMH, who received the award in 1954.

Dr. Kety cited Dr. Windle for his contributions to neurological research through investigations in regeneration of central nervous system tissue and through pioneering studies in experimental cerebral palsy.

Before coming to NIH in 1954, Dr. Windle was Scientific Director of the Baxter Laboratories in Morton Grove, Ill. He has held professorships in neurology and anatomy at Northwestern University, the University of Washington, and the University of Pennsylvania.

DR. BURNEY, DR. WATT ELECTED TO APHA COUNCIL

Dr. Leroy E. Burney, Surgeon General, PHS, and Dr. James Watt, Director, NHL, were elected for three-year terms to the Governing Council of the American Public Health Association at its 85th annual meeting in Cleveland, Ohio. Also elected to the council for a three-year term was Dr. Rodney R. Beard, newly appointed member of the National Advisory Heart Council.

Functions of the APHA Governing Council include establishing Association policies, considering resolutions proposed for approval, and approving standards promulgated in the name of the Association. Election to the council is considered a high honor in the public health field.

Dr. Burney has been a member of APHA since 1941 and a fellow of the Association since 1945. He served on the Governing Council as an elective member from 1950 to 1952.

Dr. Watt, a member of APHA for 18 years, has been a fellow since 1949. In 1955 he was elected to serve a five-year term on the Epidemiology Section Council.

UGF CONTRIBUTIONS TOTAL \$48,883.69

United Givers Fund contributions at NIH now total \$48,883.69, with 89 percent of employees reported as participating. Reports submitted on November 27 list NIH as 24 percent short of its goal of \$63,968.

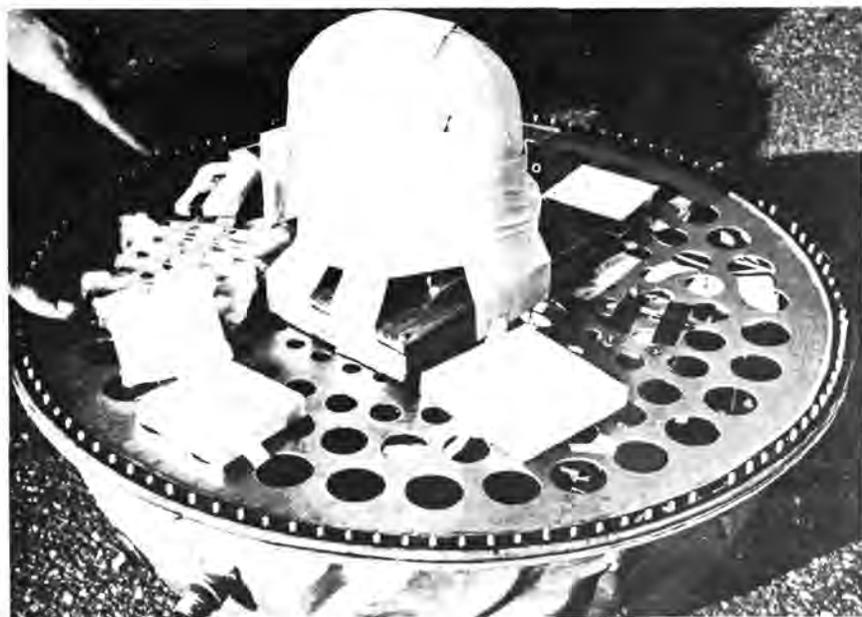
For the most part, NIH employees have expressed satisfaction with the united giving idea. Through UGF they were able to contribute to 140 charitable organizations during one campaign.

The drive has not been officially closed, and contributions will still be gratefully accepted. Donations may be given to your keyman.

(See UGF Drive, Page 3)

NIAMD Studies Space Survival Problems

No. 196 in a Series



Lower half of balloon gondola, used for making cosmic ray studies, after recovery. A simulated skull in center contains a block of sensitized film to record the amount of cosmic rays that would penetrate into the brain at high altitude. Other packages of sensitized plates are attached to indicate intensity of cosmic radiation outside the skull. These records of upper atmosphere radiation were made in preparation for the high altitude ascents made by Captain Joe Kittinger and Major David Simons, U. S. Air Force, who recently reached altitudes of 18 and 20 miles respectively.

The launching of earth satellites into space has generated increasing interest and concern in factors affecting life in sealed environments and at high altitudes. NIAMD investigators have been conducting studies for a number of years on metabolism and nutrition in enclosed chambers, disease susceptibility at high altitudes, and cosmic radiation--thus anticipating certain space survival problems.

These studies have explored many questions dealing with the physiological problems of living during lengthy flight into the upper atmosphere. The urgent usefulness of these studies by NIAMD scientists is now apparent.

Human energy expenditure at simulated high altitudes has been under study by Dr. Heinz Specht. His experiments have yielded valuable information for calculating oxygen needs in confined environments.

Dr. Specht states that removal of expired carbon dioxide and water vapor do not raise difficult problems. However, handling of heat evolved from metabolism and solar radiation requires considerable engineering skill.

Nutrition research, under study by Dr. Olaf Mickelsen, has shown that large amounts of calories can be stored readily in the body. Ordinarily, life will endure for several weeks without food. Water supply during long flights, however, is a serious problem, since nearly one quart is needed daily for maintenance of the body economy of the human adult in a normal temperate environment.

Another serious consideration in space travel is the bombardment by cosmic radiation. This problem has been under study for 10 years by Dr. Herman Yagoda.

On the ground we are protected from cosmic radiation by the earth's atmosphere, although some of the harmful rays may penetrate. But Dr. Yagoda has found that near the top of the earth's atmosphere each cubic centimeter of tissue receives a heavily concentrated bombardment of the harmful rays. Tissues particularly sensitive are the cornea, lens, retina, nerve cells, dermal papillae, and hair follicles.

To obtain this information, Dr. Yagoda devised special thick

(See *Survival*, Page 3)

Publication Preview

The following manuscripts were received by the SRB Editorial Section between September 17 and September 26.

DBS

Kilham, L. Further studies on fibroma-myxoma virus transformations in tissue culture.

CC

Briner, W. H. Certain aspects of radiological health.

NCI

Condit, P. T. and Grob, D. Studies on the folic acid vitamins. I. Observations on the metabolism of folic acid in man, and on the effect of aminopterin.

duBuy, H. G., and Hesselbach, M. L. Glucose utilization by washed mitochondria of normal and neoplastic mouse tissues.

Ernst, B. L., and Drye, J. C. Simple method of permanent labeling of frosted-end microscopic slides.

Hamilton, J. B.; Hollander, M.; and Anderson, H. B. Note on the increased rate of nail growth in mice carrying the milk agent for mammary cancer.

Heller, J. R. Chemotherapy and cancer control. Landy, M., and Shear, M. J. Polysaccharides of mammalian derivation. Their biological activities, including interaction with propridin.

Schatten, W. E.; Bergenstal, D. M.; Kramer, W. M.; and Wexler, H. Survival of skin homografts in hypophysectomized and hypothyroid rats.

Schatten, W. E.; Mantel, N.; and Mider, G. B. A relationship between amount of necrosis in Walker carcinoma 256 and concentration of hemoglobin in the host's blood.

NHI

Braunwald, E., and Morrow, A. G. A method for the detection and estimation of aortic regurgitant flow in man.

Cotton, M. deV., and Stopp, P. E. The action of digitalis on the non-failing heart of the dog.

Davis, J. O., and Ball, W. C., Jr. Effects of a body cast on aldosterone and sodium excretion in dogs with experimental ascites.

Grant, R. P., and Fox, S. M. III. Cardiovascular diseases (medical).

Landowne, M. The singularity of the (older) patient.

Macruz, R.; Perloff, J. K.; Case, R. B. A method for the electrocardiographic recognition of atrial enlargement.

Morrow, A. G.; Braunwald, E.; and Tenenbaum, H. L. Transbronchial left heart catheterization: A modified technique and its physiologic evaluation.

Orloff, J.; Wagner, H. N., Jr.; and Davidson, D. G. The effect of variations in solute excretion and vasopressin dosage on the excretion of water in the dog.

Shock, N. W. The Fourth International Gerontological Congress.

Weissbach, H.; Waalkes, T. P.; Udenfriend, S. A simplified method for measuring serotonin in tissues; simultaneous assay of both serotonin and histamine.

NIAMD

Dalmat, H. T. Arthropod transmission of rabbit papillomatosis.

Dalmat, H. T. Effects of X-rays and chemical carcinogens on infectivity of domestic rabbit fibromas for arthropods.

Dalmat, H. T. Passage of Shope's rabbit fibroma virus through one-day-old mice.

Levy, H. B.; Rowe, W. P.; Snellbaker, L. F.; and Hartley, J. W. Biochemical changes in

HeLa cells associated with infection by type 2 adenovirus.

McCullough, N. B. Human brucellosis, with special reference to the disease in the United States.

Prescott, B.; Kauffmann, G.; and James, W. D. Means of increasing the tolerated dose of isoniazid in mice. IV. Certain keto acids.

Rowe, W. P.; Hartley, J. W.; Cramblett, H. G.; and Mastrota, F. M. Detection of human salivary gland virus in the mouth and urine of children.

NIAMD

Axelrod, J.; Inscoe, J. K.; Senoh, S.; and Witkop, B. O-methylation, the principal pathway for the metabolism of epinephrine and norepinephrine in the rat.

Bryant, J. H.; Leder, I. G.; and Stetten, D., Jr. The release of chondroitin sulfate from rabbit cartilage following the intravenous injection of crude Papain.

Emmert, E. W.; Cole, R. M.; May, E. L.; and Longley, J. B. Studies on streptococcal hyaluronidase and anti-hyaluronidase. II. The localization of sites of absorption of streptococcal hyaluronidase (Group C) with fluorescent antibody.

Findlay, S. P. A preparation and certain properties of 2-carbomethoxy-n-methylgranatone.

Highman, B.; Roshe, J.; and Altland, P. D. Endocarditis and glomerulonephritis in dogs with aortic insufficiency. Production by single bacterial inoculation and effect of cortisone.

Jakoby, W. B., and Bhat, J. V. Microbial metabolism of oxalic acid.

Nes, W. R. Some observations on the use of copper chromium oxide.

Park, H. D. Sensitivity of hydra tissues to X-rays.

Peterson, R. E.; Black, R. L.; and Bunim, J. J. Salicylates and adrenocortical function in man.

Pierce, C. E., and Perrine, T. D. Rapid evaporation of solutions in test tubes.

Saito, S., and Hayaishi, O. 3-Hydroxy-L-tryptophan.

NIDR

Burstone, M. S. Histochemical comparison of naphthol AS-phosphates for the demonstration of phosphatases.

Stanley, H. R., Jr., and Swerdlow, H. Aspiration of cells into dentinal tubules.

NIMH

Biometrics Branch, NIMH. Patients in public institutions for mental defectives and epileptics, 1956.

Goodrich, D. W., and Mazer, J. The prescription: An anachronistic procedure in psychiatric occupational therapy.

NINDB

Klatzo, I., and Geisler, P. H. Demonstration of cryptococcus neoformans in polarized light.

NIH RECORD

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UGF DRIVE Contd.

Figures compiled by the quotas and reporting committee are:

	% of quota	% of participation
OD	102	100
NIMH	102	92
DRG	100	100
NIDR	96	98
NIAMD	89	100
NINDB	88	100
DBS	81	94
NHI	78	96
CC	74	85
NCI	71	83
NIAMD	67	76
DBO	66	88
DRS	45	87
Total	76	89

SEMINAR Contd.

of the Federated Societies for Experimental Biology; and Dennis Flanagan, Editor of Scientific American.

The seminar will include discussions on the handling of a manuscript by an editor, manuscript revisions and priorities, and valid reasons for publication. Other subjects are bibliographies, writing for the reader, and the editor's responsibility to the reader and author.

The seminar is primarily designed to facilitate publication by improving the quality of scientific papers. Techniques discussed may make it easier for scientists to have manuscripts accepted more quickly and with fewer revisions.

SURVIVAL Contd.

photographic emulsions to capture the tracks of radiation at very high altitudes. The exposure tests have been carried out in collaboration with the U. S. Air Force by means of high-altitude balloons.

The influence of high altitude on susceptibility to disease has been investigated by Drs. Paul Altland, Benjamin Highman, and Olaf Mickelsen. In their experiments with simulated altitudes as low as 25,000 feet, they have noted a tendency of animals to develop vegetations on and thickening of the heart valves. This indicates the importance of maintaining precise pressure and oxygen control in sealed cabin environments.

The altitude studies have also shown the extreme sensitivity and tendency to sudden death in obese rats and in rats on high-fat diets upon acute exposure to simulated altitude.

BRIEFS

The \$150 Karen Horney Award, to be presented December 30, 1958, to the author whose paper is an outstanding contribution toward the development of psychoanalysis, has been established by the Association for the Advancement of Psychoanalysis. Entries should be forwarded before May 30 to Dr. Louis E. De Rosis, 815 Park Avenue, New York City.

Representatives of health professions, insurance organizations, labor, industry, and other users of health statistics have been named to a new committee of the National Health Survey. The Surgeon General is chairman. The National Health Survey, directed by Dr. Forrest E. Linder, is a continuing PHS program for the collection of illness and morbidity data.

Donald L. Snow, Chief, Sanitary Engineering Branch, DRS, and currently Chairman of the Committee on Hospital Facilities, American Public Health Association, is directing the committee's study of sanitation and hospital food service.

Appointments. . . Dr. James V. Lowry succeeds Dr. David E. Price as Deputy Chief of the Bureau of Medical Services. Dr. Price is the new Chief of the Bureau of State Services. Dr. Murray A. Diamond replaced Dr. Lowry as Medical Officer in Charge of the Public Health Service Hospital in Lexington, Ky.

The year 1958 is the 75th anniversary of the signing of the Civil Service Act. To celebrate the diamond jubilee of the merit system, the American Federation of Government Employees is sponsoring a banquet on January 18 at the Sheraton Park Hotel. Tickets may be purchased through NIH members of AFGE Lodge 1690.

Note these recent changes in office locations. Administrative Services, DBO, has moved to Room 8E, Bldg. 1 (ext. 3441); Medical Arts, DRS, to Room 1A17, Bldg. 10 (ext. 3221); NINDB Information Office to Room 213, Stone House (ext. 2207); Biometrics Branch, DRS, to Room 201, Stone House (ext. 827); Chief, DRS, to Room 309, Bldg. 1 (ext. 793); and Plant Engineering Branch, DRS, to Room G1308, Bldg. 13 (ext. 2422).

ILLUSTRATIONS NET EMPLOYEE \$200 AWARD



Frederich Meiller demonstrates a micro camera with which he took award-winning illustrations.

Frederich H. Meiller, histopathology technician, NINDB, has been awarded \$200 for his outstanding contributions to the recently published NINDB atlas on muscle pathology.

Mr. Meiller gave freely of his talents and extra time to prepare the multiple-color illustrations that were largely responsible for the success of the monograph. The careful detail of the high-magnification photographs has received favorable comment from reviewers here and abroad.

Dr. Pearce Bailey, Director, NINDB, and Dr. G. Milton Shy, Clinical Director, NINDB, presented the award to Mr. Meiller at a ceremony December 2.

Capacity Audiences Enjoy Hamster's 7th Life At NIH

A talented cast of over 50 singers, dancers, and actors delighted capacity audiences at this year's original presentation of *Life at NIH*--"Taken for Granted."

The colorful drama starred June Klein and Donald Poulton, whose highjinks saved NIH's intramural program from a Madison Avenue promoter in charge of the grants program.

Congratulations are due to all those who helped to put on the production. A special vote of thanks goes to Directors Richard Williams, Paul Blank, Sue Oliver, and Hazel Rea who convinced us of the truth of the play's theme song, "Research is in the Very Best of Hands."

NEW PARKING AREAS CONSTRUCTED AT NIH

Three new parking areas and part of a fourth, accommodating approximately 600 vehicles, have recently been completed for employee use.

A new lot north of Bldg. T-6 now provides facilities for about 160 cars. A road from this lot to Cedar Lane is under construction to facilitate entering and leaving.

A 120-car lot has been constructed south of the Clinical Center, adjacent to South Drive, and a small area in front of Bldg. 6 is open to about 25 vehicles.

Construction has been completed on two sections of a parking area between South Drive and Service Road North, on the site of the former ball diamond. The last section of the unit will be completed in the near future. The entire lot will contain about 450 parking spaces.

Because of the need for parking facilities, employees have been permitted to park on South Drive from Old Georgetown Road to Center Drive. NIH motorists are urged to exercise care in driving on this road until the parking area on the ball diamond is completed, at which time parking on South Drive will be prohibited.

Xmas Decorations Needed

Decorations for patients' Christmas trees will be gratefully accepted at the Clinical Center. Please bring them to Room 13-N-202, Bldg. 10, before December 19.

HAMSTER CAST ONSTAGE FOR "TAKEN FOR GRANTED" CURTAIN CALLS



The entire cast of the 7th annual production of *Life at NIH* assembles on stage for deserved curtain calls.