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NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE

U. S. Team Visits Soviet, European Research Center

A 5-man team of outstanding American rheumatologists, headed by Dr. Joseph J. Bunim, Clinical Director of the National Institute of Arthritis and Metabolic Diseases, is currently on a one-month tour of rheumatology centers in the U.S.S.R. and the four Scandinavian countries.



Dr. Bunim

The tour, sponsored by NIAMD, was arranged in accordance with a 1958 agreement between Russia and the United States to exchange missions in scientific fields.

A group of three top-ranking Russian arthritis specialists visited American research institutions in 1962 when the exchange program was renewed and amended to include rheumatic diseases. The group also attended a symposium here sponsored by NIAMD.

The U.S. delegation, which left April 28, already has visited rheu-

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Dr. Hoeppli Finds Sites of Parasitic Ills Through Archaeology, Art, Old Records

The relationship between archaeological findings and the diseases of various continents was one of the aspects of a lecture by Dr. Reinhard J. C. Hoeppli, distinguished medical historian, describing his current work at a recent seminar of the National Institute of Allergy and Infectious Diseases.

An NIAID grantee, Dr. Hoeppli is presently compiling and writing a documented history of parasitic diseases that existed in Africa before the advent of modern medicine. He is attempting to



Dr. Hoeppli

STATISTICIAN'S AIM:

To Unravel Uncertainties That Affect Scientific Conclusions

By Tony Anastasi

Atomic particles and people with high blood pressure may have something in common, according to Prof. George A. Barnard, one of the world's foremost statisticians. Prof. Barnard is visiting the National Heart Institute to deliver a series of lectures on "Fundamental Concepts in Statistical Inference."

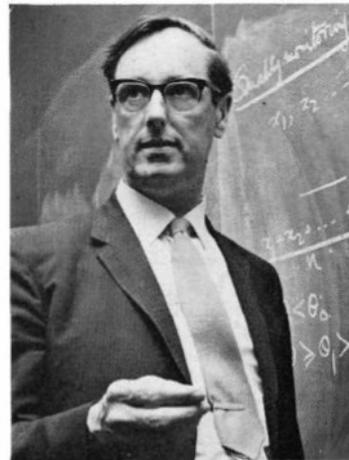
As Professor of Mathematical Statistics at Imperial College of the University of London since 1954, Prof. Barnard says that "the methods of analyzing the disintegration of the atomic particles, and of analyzing the effects of the various factors which contribute to hypertension are somewhat similar."

Explains Goal

Prof. Barnard, whose 10 lectures are being sponsored by the NHI's Biometrics Research Branch, says that the statistical problem of analyzing the two groups is exactly the same. "One helped the other."

His goal in the current lectures, the Professor explains, is "to expound and develop the ideas which originated with Sir Ronald Fisher, whose major contribution was the idea that there are various kinds

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Prof. George A. Barnard, noted British statistician, pauses to answer a question during one of his series of 10 lectures here at NIH.—Photo by Bob Pumphrey.

NIMH Holds Conference On Career Development

The Third Annual Conference of the Mental Health Career Development Program will be held next week, May 26 through May 28.

Dr. Robert H. Felix, Director of the National Institute of Mental Health, will introduce the many distinguished guests attending the conference at the first plenary session, which will take place from 6 to 9 p.m. at the Commissioned Officers' Club, National Naval Medical Center.

All other sessions will be held in the Clinical Center auditorium. An afternoon of visits to area mental health facilities is a part of the 3-day program.

Additional information on the conference may be obtained from the Mental Health Career Development Program, NIMH, Ext. 63377.

NIH Anticipates 3-Year Period Of Construction

This year will see the beginning of a major period in the development of facilities essential to fulfillment of NIH research missions.

During this period, expected to last about three years, construction activity will be almost constant on the NIH grounds. One building—the extension to Building 12—is now underway, and the extension to the DBS Building (No. 29) will be started in early fall. New Cancer and Neurology-Mental Health buildings will be started late this year.

Other projects to be undertaken during the latter part of this three-year period will be an extension to the General Office Building, and Library and Cafeteria additions to the Clinical Center.

Plans for Future

Planning for these facilities has included not only immediate research needs, but future requirements necessary to keep abreast of expanding research programs.

One project that embodies this concept of future planning more than any of the others is the expansion and updating of all utilities servicing NIH buildings.

These utilities include such services as steam and chilled water for heating and cooling, electricity, street lighting, and a myriad of other services that are supplied or

(See CONSTRUCTION, Page 4)

Dr. Shannon to Be Host To SEATO Sec't General

Dr. James A. Shannon, Director of NIH, will be host to Konthi Suphamongkhon, Secretary-General of Southeast Asia Treaty Organization (SEATO) and Mrs. Konthi at a luncheon to be held in Conference Room 6 of Building 31 on Tuesday, May 26.

Guests at the luncheon will include representatives from the Office of International Research, the Department of State, Agency for International Development, Walter Reed Army Institute of Research, and Naval Medical Research Institute.

the NIH Record

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The NIH Record reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policy of the paper and the Department of Health, Education, and Welfare.

NEWS from PERSONNEL

PAYMENT OF DEATH BENEFITS

In response to numerous questions received recently, the major provisions for payment of insurance and retirement death benefits, as well as any unpaid compensation at the time of an employee's death, are summarized below.

A standard order of precedence for such payments, which meets the needs and wishes of most employees who do not name a beneficiary, is established as follows:

1. The employee's widow or widower.
2. If there is no widow or widower, the child or children, in equal shares, with the share of any deceased child distributed among the descendants of that child.
3. If none of the above, the employee's parents, in equal shares, or the entire amount to the surviving parent.
4. If none of the above, the duly appointed executor or administrator of the estate.
5. If none of the above, the employee's next of kin who may be entitled under the laws of the employee's State of domicile at the time of death.

Order May Be Changed

Employees who are satisfied with this order of precedence do not need to name a beneficiary. However, those who wish to change the order, or to designate someone else, may obtain the appropriate forms for this purpose from their I/D Personnel Officer. The requirement for filing a designation also applies if an employee transfers between departments and wishes a previous designation continued in effect.

If an employee names more than one beneficiary, he must be sure to specify their respective interests

Medical History Group Elects Officers May 21

Officers for the coming year will be elected at the next meeting of the Washington Society for the History of Medicine, Thursday, May 21, at 8 p. m. in Wilson Hall.

Following the elections there will be two presentations. Lt. Cmdr. William Monafu, U. S. Naval Hospital, will speak on "Elisha Kent Kane: Arctic Explorer," and Capt. Lawrence C. McHenry, Jr., Walter Reed Army Medical Center, will speak on "The Medical Iconography of Dr. Samuel Johnson." Visitors are welcome.

in his death benefits; otherwise, the beneficiaries will share equally. If a designated beneficiary dies before the employee, his rights to the death benefits end automatically.

PRESIDENT LAUDS SERVICE

President Johnson recently underscored the importance of the Federal career service. He said:

"So very much of what we are to be as a nation—and what we are to achieve as a people—depends upon the caliber and character of the Federal career service. In no other endeavor can you serve our country's cause—or the values on which we stand—than in the public service."

His remarks were addressed to college seniors in the Civil Service Commission's annual Career Outlook Letter.

INTEREST IN EMPLOYMENT

During the 4-month period since new Civil Service examinations and standards for stenographers and typists were announced, the NIH Board of Civil Service Examiners has conducted 2,885 tests for stenographer and typist applicants.

Of this total, 1,115 were found eligible, including those who are available for summer work only,

Softball League Expects Best Year Since 1958

With the new season already underway, the NIH Intramural Softball League is embarked on what appears to be the best year since its beginning in 1958.

Sponsored by the Recreation and Welfare Association of NIH, the league now fields nine strong teams as compared with four teams six years ago.

One of the teams, The Old Timers, is composed of members of the original four teams which comprised the league in 1958. The other eight teams include NIAMD, Computers, Engineers, NLM, Radiological Health, Westwood Building, NIMH, and Building 10.

All games, which begin at 5:45 p.m., will be played at the same location, behind the National Library of Medicine.

NIH personnel interested in playing or forming new teams may contact George Tolbert, Ext. 62867, for additional information. The deadline for new players and teams is June 1.



Carlos Spears, Captain of the Building 10 Bombers (left), shakes hands with Jerry Farlow, Captain of the Computers, prior to the season's first game. In the center is Alfred Beaman, umpire. The Bombers won 14-3.

Youth Center to Hold Dance for Building Fund

To raise money for its building fund, the Greater Washington-Maryland Youth Center will hold a cabaret dance in the Silver Spring Armory, adjoining the D. C. Transit terminal, on Friday, May 29, from 9 p. m. to 1 a. m.

Music will be by Sammy Woods' combo. Tickets at \$2.50 per person may be purchased from Adrian Loftis, Bldg. 10, Rm. 2D17, Ext. 65330.

as well as those who are available for career conditional appointment.

Additional applicants in the groups tested may also be found eligible, when certificates of their stenographic and/or typing proficiency are received from their schools. They may also establish eligibility in a retest by the Board.

U. S. Savings Bond Drive Offers Chance to Save

The 1964 U. S. Savings Bond Drive at NIH is well underway with Dr. Clinton C. Powell, Director of the National Institute of General Medical Sciences, serving as Chairman.

Dr. Powell has pointed out that



Dr. Powell



Mr. Hansen

this is the one drive at NIH in which people are not asked to "give"—but are "given" an opportunity to save.

Keymen Appointed

Keymen for all Institutes and Divisions have been appointed and are now contacting employees with savings bond information. The drive will extend through the end of this month.

Bond investments are safe and dependable, and the purchaser can be sure of their earning power. U. S. Savings Bonds are just like cash in the bank in that they can be redeemed as quickly and easily as a personal check.

Employee participation through the payroll deduction plan insures a regular savings program. Employees can build up a savings with a deduction as low as \$3.75 each pay day or as high as salary permits, providing the amount is divisible into the price of the bond with no remaining fraction.

Bonds Not Taxed

Savings bonds are not subject to local or State taxes, and interest derived from them need not be reported as Federal income until they are cashed.

Chris A. Hansen, Chief of the Division of Research Services, is serving as the 1964 Savings Bond Campaign Chairman for the Public Health Service, including headquarters and field stations.

Dr. Gillespie Heads Alert On Respiratory Diseases

Dr. Louis Gillespie, Jr., of the Experimental Therapeutics Branch, National Heart Institute, has accepted the chairmanship of the Respiratory Disease Symptom Alert, conducted May 1-June 15 by the Montgomery County Tuberculosis and Heart Association.

The Alert is an educational activity financed by Christmas Seal funds to increase public awareness of respiratory diseases.

Dr. Brody Wins Award For His Research in Muscular Dystrophy

A National Institutes of Health neurologist recently received an award for research leading to a better understanding of muscular dystrophy and other muscle diseases.

Dr. Irwin A. Brody, Clinical Associate of the Medical Neurology Branch, National Institute of Neurological Diseases and Blindness, was selected by a group in the American Academy of Neurology to receive the S. Weir Mitchell award.

The award and \$300 honorarium were presented at the annual meeting of the Academy in Denver, Colo., April 24, followed by a reading of the winning manuscript, "The Significance of Multiple Molecular Forms of Lactated Dehydrogenase in Human Skeletal Muscle."

Describes Staining Technique

In it Dr. Brody described a new staining technique that revealed enzyme changes in the muscle cells of patients with muscular dystrophy and other muscle diseases. The work sheds light on the biochemical abnormalities associated with muscle weakness.

Following completion of his 2-year assignment in July of this year, Dr. Brody plans to return to the neurology staff at Duke University Medical Center, where he received previous training.

Awarded in the name of a famous neurologist and medical historian of the 19th Century, the S. Weir Mitchell award is presented yearly to a junior member of the American Academy of Neurology, a society of physicians specializing in diseases of the brain and nervous system. Another Institute neurologist, Dr. W. King Engel, received the award two years ago.

Eighth Facilities Report Forecasts Needs, Trends

The Surgeon General's Eighth Annual Report to the Congress on the Health Research Facilities Program, recently published, describes highlights for 1963 and forecasts trends and needs of the program.

This year the list of institutions awarded construction grants since beginning of the program in 1956 is arranged by state.

Also for the first time, the report includes a random sampling of photographs of completed facilities for which the Health Research Facilities Program provided part of

Employee Cooperation Sought In Radiation Counter Studies

The Clinical Center is requesting the cooperation of a large number of NIH employees in studies involving the use of its whole-body radiation counter.

Results of the employee tests will help to establish standards for the clinical use of the counter, the first whole-body radiation detector capable of recording separately the amount of radioactivity in 18 different sections of the body (reported in *NIH Record* of Nov. 6, 1962).

Information will be obtained as to the amount of naturally occurring radioactivity each living person has been accumulating since birth, and also the amount produced by fallout.

"Since each whole-body counter is slightly different," according to Dr. Howard L. Andrews, Clinical Center Radiation Safety Officer, "we must establish our own standards here at NIH."

Measurements Important

Measurement of the radioactivity in the body is an important part of the diagnostic procedures used for many Clinical Center patients. These measurements must be compared with those obtained from normal, healthy people.

Since the amount of radioactivity in a person's body varies with individuals in all age groups are needed.

Dr. Andrews emphasizes that volunteers will not be exposed to harmful radiation of any kind. On the contrary, he said, the counter room is the most radiation-free area of NIH. It is lined with 6¼ inches of carefully cleaned steel armor plate, and every precaution has been taken to keep all sources of radiation out of the counting area.

No Discomfort Involved

No discomfort is involved for those participating in the tests. The counter room has a pleasant atmosphere, including recorded music.

Volunteers will be required to change into radiation-free hospital clothing to insure an accurate count. The entire counting procedure requires approximately 30 minutes.

Employees who wish to participate in the test should obtain permission from their supervisors and then go to the Employee Health Service, Bldg. 10, Rm. B2A06, to arrange an appointment.

the cost of the health-related research areas.

Copies of the report are available from the Information Office, Division of Research Facilities and Resources, National Institutes of Health, Bethesda, Md. 20014.

Dr. Laki Named Chief Of Newly Established NIAMD Laboratory

Appointment of Dr. Koloman Laki as Chief of the newly created Laboratory of Biophysical Chemistry has been announced by the National Institute of Arthritis and Metabolic Diseases.

Formerly the Section on Physical Biochemistry in the Laboratory of Physical Biology, the new laboratory will be responsible for conducting research on muscle and blood proteins, the physical and enzymatic properties of contractile muscle proteins, and evolutionary aspects of the fibrinogen-thrombin interaction, among other studies.

Dr. Laki had been Chief of the old section since 1954. A native of Hungary, he attended the University of Szeged where he majored in biochemistry, receiving his Ph.D. in organic chemistry and biochemistry from that institution in 1936.

Prior Work Cited

Dr. Laki taught and did research at Szeged from 1933 to 1944 with a year's absence in 1938-1939 at the University of Manchester, England, as a Fellow of the Rockefeller Foundation.

From 1945 through 1947 he served on the faculty of the Institute of Biochemistry at the University of Budapest. In 1947 he became a member of the Hungarian Academy of Sciences and received the highest Hungarian prize, the Kossuth Prize, for scientific accomplishment.

Dr. Laki spent most of 1948 as a visiting professor at the University of Leeds, England. Later that year he came to NIH as a Special Research Fellow in the Laboratory of Physical Biology, NIAMD.

Health Plan Enrollment Open Until Tomorrow

The deadline for applications for the comprehensive health insurance program for Visiting Scientists and other professional workers who cannot be covered through the Public Health Service has been extended until tomorrow, May 20. Thereafter the policy will not be available until June 1965.

The program, available through Group Hospitalization, Inc., and Medical Service of D.C. (Blue Cross-Blue Shield), will offer coverage beginning June 1.

Further details on the program are available from the Foundation for Advanced Education in the Sciences, Ext. 66371, Rm. B1B38, Building 31.



Dr. Brody



Judy Raisner, NIH Information Trainee (right), wearing a radiation-free hospital suit, is escorted by Dorothy Peterson of the Radiation Safety Department to the radiation counter room in the Clinical Center.



Dr. Laki

U. S. TEAM

(Continued from Page 1)

matology laboratories, clinics, and rehabilitation centers in Moscow, Kiev, Sochi, and Leningrad.

The delegates also attended the Soviet All-Union Rheumatological Conference in Moscow May 8-12, where three of the American delegates presented papers.

Dr. Bunim's papers dealt with the "Influence of Genetic and Environmental Factors on Occurrence of Rheumatoid Arthritis and Rheumatoid Factor in American Indians," a subject in which Russian scientists have expressed interest.

On May 16 the mission departed from Leningrad to visit centers for rheumatology in Helsinki and Heino, Finland; Stockholm, Sweden; Oslo, Norway; and Copenhagen, Denmark.

Other Members Listed

Other members of the American delegation are Dr. Ronald W. Lamont-Havers, Medical Director of the Arthritis and Rheumatism Foundation; Dr. Gene H. Stollerman, Professor of Medicine, Northwestern University School of Medicine; Dr. John H. Vaughan, Associate Professor of Medicine, University of Rochester School of Medicine; and Dr. Morris Ziff, Professor of Medicine, Southwestern Medical School, University of Texas.

Arrangements for the visit were made by the Office of International Health with the NIH Office of International Research.

CONSTRUCTION

(Continued from Page 1)

controlled from central sources at NIH.

The original utilities system has been expanded to its limit. With new buildings planned and an ever-increasing load on utilities in the old buildings, it is now necessary to expand and update the utilities to adequately serve future buildings and provide more reliable service for existing buildings.

Some of the utilities which will be included in this expansion and improvement are chilled water (a doubling of present capacity for air-conditioning buildings), domestic water service and lawn sprinkler system for the major buildings, electricity and street lighting, storm and sanitary sewers, steam, compressed air, and gas; and the telephone, central alarm, and pneumatic tube systems.

The extension and revision of the utilities will be accomplished in two construction phases. The first will involve the utilities to all existing buildings and those currently under design. The second phase will include all future buildings.

Utilities Updated

The initial phase of utilities construction, to be started in late summer of this year, will meet the needs of the construction of Buildings 12A, 29A, and 31C.

The remaining portion of this first phase, to be started early in 1965, will include the updating of utilities throughout the reservation and new utilities for Buildings 36 and 37 (Cancer and Neurology-Mental Health).

Since much of the construction during the next few years, especially the Master Utilities project, will disrupt pedestrian and vehicular traffic and parking, the *NIH Record* will carry details of each project as soon as definite construction schedules are established.

The Division of Research Services and the Plant Safety Branch are cooperating to minimize inconvenience during the construction period.

Dr. Jude, Formerly NCI, Named to Miami Faculty

Dr. James R. Jude, a former Clinical Associate with the National Cancer Institute, has been appointed Professor of Surgery and Chief of the Division of Thoracic and Cardiovascular Surgery at the University of Miami.

He is currently a surgeon at the Johns Hopkins Hospital and Surgeon-in-Charge of its emergency department, as well as Instructor in Surgery at the University.

Key Traits Set Creative Youth Apart From Peers, Parloff's Study Shows

Key traits which distinguish the potentially creative young scientist from his fellows have been uncovered in a new study by a National Institute of Mental Health scientist.

Dr. Morris B. Parloff, Chief of the Section on Personality of the Institute's Laboratory of Psychology, described his findings at the meeting of the Academy of Psychoanalysis in Los Angeles, May 2.

He selected 573 top male applicants in the 1963 Westinghouse Science Talent Search for the project. A team of judges divided these high school students into three groups, the potentially most creative (Group One), moderately creative (Group Two), and the least creative (Group Three), on the basis of their science projects.

Three Groups Tested

The boys averaged 17.3 years of age and were of high intelligence; 53 percent of their fathers were professional men, one-third of whom were scientists.

Each of the three groups of boys was given tests, including the California Psychological Inventory. The groups were compared with each other, and the top group, Group One, was compared with 45 research scientists and 40 architects who were rated by their contemporaries as highly creative.

Dr. Parloff found that Group One rated much higher than Group Three in ambition, independence, the efficient use of intelligence, and in perceptiveness. It also was more rebellious and more original.

Group Two was rated slightly lower than Group One in these

traits. The top group enjoyed a greater sense of well-being and greater self-control, while Group Two had more self-doubt.

When Dr. Parloff compared the California Psychological Inventories of the creative scientists with those of the architects, he found that the men were strongly similar in certain areas. All were dominant and headstrong, high in self-acceptance and persistence, and low in socialization and willingness to conform.

Men, Boys Compared

When the men were compared with the boys, both showed a high sense of personal worth. A clinical assessment of the boys' personality inventories showed that they had many of the traits which other investigators have found in highly creative men.

These include persistence, independence, assertiveness, skepticism, a wide range of interests, stubbornness, impatience with supervision, indifference to convention, an awareness of the feelings of others but an indifference to them, and little interest in personal relationships.

Next, Dr. Parloff will study the family backgrounds of the three groups of students, hoping to determine what sorts of environment and child raising practices are most stimulating to creative children.

A long term follow-up study will also be carried out to determine how personality, capacity, and environment interact to inhibit or facilitate creative ability in later years.

Francis P. McGrath, Sr., DRG Toxicologist, Dies

Francis P. McGrath, Sr., Executive Secretary of the Pharmacology and Toxicology Study Section, Division of Research Grants, died April 26 at Georgetown University Hospital.

Before coming to NIH in 1956, he was affiliated with the Army Chemical Center, Aberdeen, Md., as Assistant Chief of the Gassing Branch. During his 15 years at the Center he worked extensively on toxicology of nerve gasses.

A native of Washington, D.C., Mr. McGrath received his A.B. degree in science from Georgetown University in 1935, and his M.S. in biochemistry from the same school in 1938. He did additional graduate study at Georgetown and the University of Maryland.

Mr. McGrath was a member of the American Chemical Society, American Institute of Chemists, and American Industrial Hygiene

Association.

A specialist in inhalation toxicology, he recently participated in planning the New York Academy of Sciences Drug Toxicity Conference that was attended by more than 1,000 research scientists interested in adverse drug reactions.

One of his brothers, the Rev. Brian McGrath, S. J., is academic Vice President at Georgetown University.

Also surviving are his wife, Monica; a son, Francis P., Jr., and a daughter, Eileen, all of the home address, 1806 Alcan Dr., Silver Spring, Md., and his mother Ellen McGrath; a sister, Margaret O'Brien, and a brother, Thomas J., all of 4433 P St., N.W., Washington, D.C.

The greatest art enlightens the conscious mind as well as the subconscious.—*Jacques Lipschitz from Conversations With Artists.*

Dr. Stewart, NCI, Wins Research Award From James Ewing Society

Dr. Sarah E. Stewart of the Laboratory of Viral Oncology, National Cancer Institute, received the Lucy Wortham James Award on April 22 in New York City. The award is given annually by the James Ewing Society to an outstanding individual in cancer research.

Through her intensive research on viruses in relation to cancer, Dr. Stewart has become one of the leading investigators in this field. In collaboration with Dr. Bernice Eddy of the Division of Biologic Standards, Dr. Stewart used tissue culture techniques for cultivation of a virus from mouse parotid gland tumors which she had earlier



Dr. Sarah Stewart examines a hamster used in her cancer research in the Laboratory of Viral Oncology.

observed to be virus induced.

The cultured virus causes many types of cancer in mice and was named polyoma virus for this reason. It also crosses species lines and induces tumors in hamsters and rats.

Dr. Stewart has recently continued her virus-cancer research in the hope of obtaining new leads to the understanding of how viruses may cause cancer in man.

A significant recent finding was that a virus that causes tumors only in chickens can be changed so that it becomes tumor-inducing for mammals—specifically, hamsters.

The James Ewing Society is an international organization of about 250 members whose primary interest is the field of cancer. It was established in commemoration of Dr. James Ewing, a noted pioneer in cancer work at Memorial Hospital in New York City.

A second annual award was presented to Dr. John R. Heller for his contributions in clinical cancer. Dr. Heller was Director of NCI from 1948 to 1960.

Investigation of Infantile Spinal Muscular Atrophy Aided by Histochemistry

Scientists of the National Institute of Neurological Diseases and Blindness currently are conducting studies designed to clarify the relationship between muscle fiber alterations in infantile spinal muscular atrophy and histochemical fiber type.

In denervated infantile muscle, the different histochemical types of fibers show a specific pattern of fiber atrophy and hypertrophy.

Two muscle fiber populations of the human skeletal muscle system have been identified by histochemical staining as type I and type II. This is considered to constitute an immutable signature of normal muscle fibers.

Under normal conditions muscle fiber typing is derived from inherent and constant characteristics of muscle fibers, as demonstrated by characteristic signatures with the myofibrillar A-band ATPase reaction.

Conclusion Supported

This conclusion was supported by demonstrating histochemical staining characteristics to be uniform throughout the length of the muscle fibers; nonenzymatic morphologic differences to be consistent between type I and type II fibers; size differences occurring between type I and type II to be consistent; and characteristic histochemical and morphological differences between type I and type II to be present even in postmortem material.

Biopsy specimens from quadriceps muscle of seven infants with infantile spinal muscular atrophy (Werdnig Hoffmann disease) were studied.

The ATPase histochemical signature was found to be unchanged in denervated infantile muscle. It was also found that the proportion of light and dark fibers remains the same in the denervated muscle, and the architectural appearance of the muscle fibers in denervated infantile or adult muscle stained with this reaction appeared relatively unchanged.

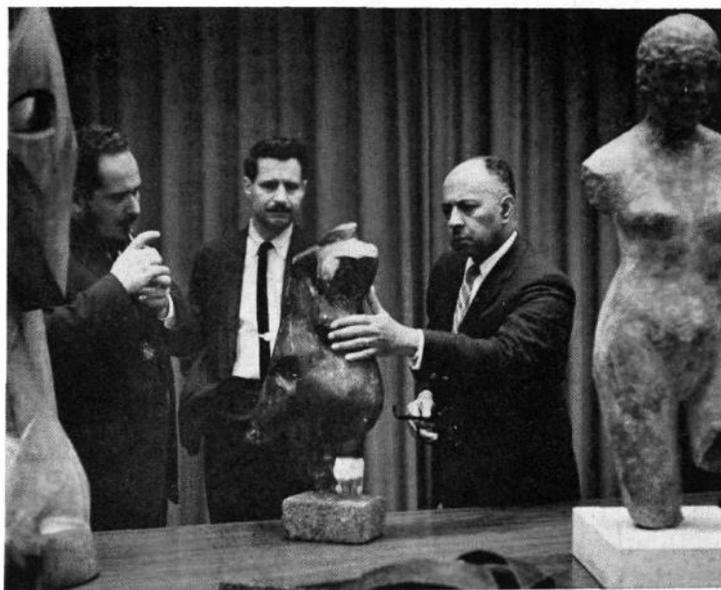
Explanation Needed

Two observations from the present study still require explanation. Type I fibers appear to undergo severe atrophy and hypertrophy while type II fibers are altered little or not at all.

One possible answer is that both are denervated at the same time, but one is more susceptible to change.

A second possibility is that each type was originally innervated by different types of anterior horn cells which showed different sus-

NIH Art Show Brings Out 240 Entries; Miss Fishman Wins Best-of-Show Prize



The panel of judges, framed by sculptures in the NIH Art Exhibit, appraise Miss Fishman's prize-winning entry, "El Gallo." They are (L to R): Jose Bermudez, George D. O'Connell, and Albert J. Carter.—Photo by Jerry Hecht.

Saide Fishman's bronze sculpture, "El Gallo," was awarded first prize in sculpture and "best of show" at the 6th Annual NIH Art Exhibit, which opened Sunday, May 10, in the Clinical Center lobby. A combined prize of \$75 was awarded Miss Fishman, of the Laboratory of Psychology, NIMH, for the dual honor.

Mrs. Anthony J. Celebrezze, wife of the Secretary of Health, Education, and Welfare, served as honorary chairman of the show, sponsored by the Recreation and Welfare Association of NIH.

First prize for oil painting and \$50 went to Ann Zahn, wife of Theodore Zahn of the Laboratory of Psychology, NIMH, for her entry, "White Woman."

In the category of prints and etchings, Howard J. Kohn, son of Esther G. Kohn, NIMH, won first prize and \$50 for his etching, "Night, Light, and Rocks," and an honorable mention for his entry, "Moongate."

ceptibility to the disease process.

The second observation, that hypertrophy and atrophy both occur mainly among the fiber type I, is also open to further study.

It is possible that there is some difference among the fibers of type I, and that further histochemical methods may demonstrate basic differences between atrophied and hypertrophied type I fibers which would preclude their being typed together.

These studies by Drs. Gerald M. Fenichel and W. King Engel, Medical Neurology Branch, NINDB, were reported in Neurology.

Howard Bartner, Medical Arts and Photography Branch, DRS, was awarded first prize in drawings, for his work, "Young Woman."

Second prizes of \$25 each went to Mary W. Witkop, wife of Dr. Carl J. Witkop, Human Genetics Branch, NIDR, for her sculpture, "Goat," and to Gloria Bornstein, wife of Dr. Paul Bornstein, Laboratory of Biochemistry, NIDR, for her oil painting, "Rudimentary Growth."

Other Winners Cited

The two third prize winners of \$15 each were Jenny Lea Knight, Laboratory of Psychology, NIMH, for her welded steel construction, "Defender," and Phyllis Hoffman, wife of Dr. Harold Hoffman, Laboratory of Biology, NCI, for her oil painting, "Margaret."

Those receiving honorable mention were Dr. James R. Stabenau, Adult Psychiatry Branch, NIMH, for his wood sculpture entitled, "Virago"; Naomi Bossom, wife of Dr. Joseph Bossom, Laboratory of Psychology, NIMH, for her oil painting, "Self Portrait"; Frank C. Jones, father of Dr. Bryant L. Jones, Clinical Branch, NCI, for his collage, "Nerus"; Lynn Pruitt, wife of Charles M. Pruitt, DRS, for her pastel and cray-pa, "Composition #2"; and Donna M. Greenough, Laboratory of Psychology, NIMH, won a group honor-

Dr. Brown Is Appointed To New PHS Position, Was CC Branch Chief

Dr. Harry Heimann, Chief of the Division of Occupational Health of the Public Health Service, has announced the appointment of Dr. Murray C. Brown as Assistant Chief of the Division.



Dr. Brown

Formerly Chief of the NIH Clinical and Professional Education Branch, Dr. Brown has been an active commissioned officer with the Public Health Service since 1950. He has also served as Chief of the Grants and Training Branch of the National Heart Institute.

Born in Washington, D.C., on May 28, 1913, Dr. Brown received his M.D. in 1938 from the University of Virginia. He served his internship at the PHS Marine Hospital in Baltimore and was awarded a traveling fellowship in 1940.

Directs VD Programs

After directing several venereal disease programs in West Virginia and Tennessee, Dr. Brown taught at Vanderbilt University, George Peabody College, and Meharry Medical College, and directed the George Hubbard Hospital.

Dr. Brown is a member of the American Medical Association, the American Association of Public Health Physicians, the American Public Health Association, and the Microcirculatory Conference.

He is also a member of the Medical Society of London, Chairman of the Motion Picture and Television Committee of the American Association of Anatomists, Chairman of the Council on Medical Television of the Institute for the Advancement of Medical Communications, and an Honorary Fellow of the Royal Microscopical Society of England.

able mention for her pen and ink drawings, "Bust of a Woman," "Entrapment," and "Linguistics."

Of the more than 240 entries submitted, 66 were chosen for exhibit by the judges: Jose Bermudez, noted sculptor and Head of Graphic Arts, Pan-American Union; Albert J. Carter, Curator of Art, Howard University; and George D. O'Connell, Assistant Professor of Art, University of Maryland.

The exhibit will be displayed in both bays of the Clinical Center lobby through June 5. The award-winning entries will then be moved to the lobby of Building 31 for the remainder of June.

STATISTICIAN

(Continued from Page 1)

of uncertainty, some measurable and some not, and that the job of the mathematical statistician is to unravel the uncertainties that affect conclusions drawn from scientific experiments."

Enjoying his third visit to the United States, Prof. Barnard was invited here by Jerome Cornfield, Acting Chief of the NHI's Biometrics Research Branch.

Referring to Prof. Barnard's lectures, Mr. Cornfield said, "They are stimulating and lucid and his comments on some of our unsolved problems are especially penetrating."

A graduate of St. John's College, Cambridge, England, Prof. Barnard was a graduate student at Princeton University from 1937-39.

Develops Test Methods

In England during World War II, he developed sequential methods of testing, whereby the number of trials in analyzing a subject are not fixed in advance but the number depends on the results of earlier trials.

This method led to considerable economy in fuses and a significant savings for the British Government. Prof. Barnard was honored with the Guy Medal of the Royal Statistical Society, partially for his achievement in fuse economy.

He is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics, a member of the International Statistical Institute, Chairman of the British Institute of Statisticians and President of the Operational Research Society.

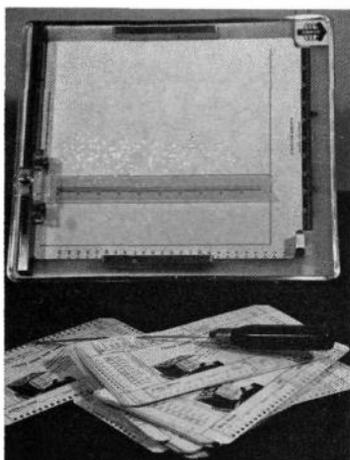
He enjoys viola playing, camping and boating. Despite the fact that he once misjudged the tides and his home-made boat dumped his family into the water, he continues to build his own boats.

NIH Orchestra Presents Concert Here May 26

The NIH Orchestra, conducted by Mark Ellsworth, will present the second concert of its fifth season on Tuesday evening, May 26, at 8:30 p.m. in the Clinical Center auditorium.

The program will open with Mozart's overture to Don Giovanni. Featured as soloist in Beethoven's first piano concerto in C major will be 14-year-old Ellen Johnson, the daughter of an NIH consultant. The second half of the program will present Mendelssohn's Symphony No. 3 in A minor (Scottish).

Admission to the concert is free and no tickets are required. All NIH employees, their families and friends are cordially invited to attend.



This is part of an exhibit of punched card systems for information retrieval now on display in the NIH Library on the 5th floor of the Clinical Center. Two types of cards are shown—the edge punched (Keysort) card and the optical coincidence (Peek-a-boo) card. Marcia Ginguld, of the Reference Unit Staff of the Library, is available to answer questions about the exhibit and to assist anyone wishing to establish a punched card system.—Photo by Bob Pumphrey.

PHS Publication Lists Awards in FY 1963 For Advanced Training

Training grants, research fellowships, traineeships, and research career awards totaling \$201,078,472 were awarded by the Public Health Service during the fiscal year ending June 30, 1963.

A detailed accounting, by State and institution, of these awards for advanced training in the medical and biological sciences is contained in a new publication just issued—Public Health Service Grants and Awards, Fiscal Year 1963 Funds, Part II.

Is 2d of Series

This publication is the second in a series of five. Parts I, III, and IV, published earlier, contain complete listings of grants made by the PHS in support of research projects, construction of research and hospital facilities, and health services, respectively.

Part V, to be published later, will present supplementary summaries of all grant and award programs by type, amount, state, and recipient institution.

Copies of the new booklet—Publication No. 1079, Part II—may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

The price is \$1. Parts I, III, and IV, costing \$1.50, 30 cents, and 30 cents, respectively, are available from the same source. Ask for publication No. 1079, Parts I, III, and IV.

Dr. Felix Pays Tribute To Kennedy Leadership At N. Y. World's Fair

Dr. Robert H. Felix, Director of the National Institute of Mental Health, was the keynote speaker at recent ceremonies at the New York World's Fair in observance of National Mental Health Week.

The event, held outside the U. S. Pavilion, was sponsored by the National Association for Mental Health as a tribute to the late President John F. Kennedy for his great concern for, and championship of, the mentally disabled.

In speaking of President Kennedy's leadership which resulted in the new community mental health program, Dr. Felix said, "He made concrete the sum of many dreams and hopes which heretofore had had little or no unifying influence . . . and thus became the spokesman for a people without a voice."

Other speakers included officials from the American Psychiatric Association, the American Medical Association, and NAMH. Frank McGee of the National Broadcasting Company was master of ceremonies.

Excerpts from President Kennedy's Mental Health Message delivered to the Congress on February 5, 1963, were read by actor Hume Cronyn, co-star of "Hamlet."

Research Grants Index Published in 2 Volumes

The Public Health Service has published the Fiscal Year 1963 Research Grants Index, a cross-reference of 15,800 PHS research grants and contracts representing nearly a half billion dollars.

This 1,659-page publication is printed this year in two volumes. The first volume lists the grants and contracts under 6,391 main subject headings, arranged alphabetically, and 2,017 sub-headings.

Volume II contains three appendices. The first lists the grants by grant number; the second classifies them under approximately 60 general research areas; and the third is an alphabetical list of investigators.

Index Is Unique

The Index is unique in that it presents research in progress. This enables the scientist to explore research in a given field before papers can be published by the investigators.

The Research Grants Index is produced by the Research Documentation Section, Division of Research Grants.

Copies (PHS Publication No. 925) are available to the public from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402, at \$9.75 per copy.

Mary Corning of NLM Named Executive Sec't Of Advisory Committee

Mary E. Corning, recently appointed Head of the Publications and Translations Division of the National Library of Medicine, has also been named Executive Secretary



Miss Corning

of the Public Health Service Advisory Committee for Scientific Publications, Dr. Martin M. Cummings, Director of NLM, announced May 1. The 15-member Advisory Committee provides a review mechanism, in coordination with the PHS Division of Research Grants, for applications for grants to support scientific publications in the biomedical field. The committee also advises and makes policy recommendations to the Office of the Surgeon General regarding PHS support of scientific publications.

Prepares Special Studies

The committee was formally established in 1962 under NLM and began operating in 1963.

From 1960 until 1964 Miss Corning prepared special studies for the Federal Council for Science and Technology and for the President's Science Advisory Committee, and participated in the development of U.S.-Japan Scientific Programs and the development and administration of international cooperative research programs between the U.S. and foreign universities.

From 1950 to 1960 she was Assistant Editor of Journal of the Optical Society of America and Editor-in-Chief of the 40-volume Analytical Subject Index for the journal.

Memberships Cited

She is a member of Phi Beta Kappa, a Fellow of the Optical Society of America, a member of the American Chemical Society and of the U.S. National Committee for the International Commission for Optics.

As U.S. National Liaison Officer for the Organization for Economic Cooperation and Development, she prepared a study on The Organization of Scientific Research in the U.S., the first single document covering all aspects of U.S. scientific organization.

Miss Corning was born in Norwich, Conn., in 1925. She received a B.A. from the Connecticut College for Women in 1947 and an M.A. in physical chemistry from Mount Holyoke College in 1949.

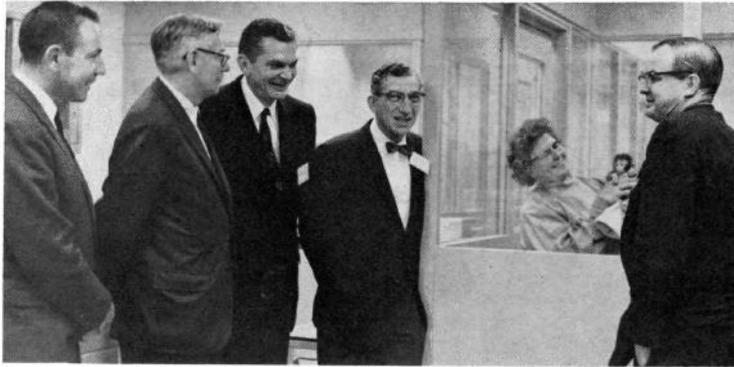
A brat is a child who acts like your own but belongs to a neighbor.—*The Washington Post*.

NIAID Lab Seeks Volunteers For Study of Common Cold

The Laboratory of Infectious Diseases, NIAID, again is in need of volunteers for its continuing study of the "common cold."

Researchers have substituted a new technique in the study, designed to isolate and identify unknown upper respiratory viruses, which requires a simple gargle (instead of nasal washings) plus the two blood specimens.

Interested NIH personnel with colds, preferably within the first three days of infection, may contact Mrs. Hilda Kennedy, Ext. 65811, for additional information. Participants are paid \$2 for each blood sample.



A one-week-old Rhesus monkey is held up for the admiration of experts following the dedication ceremonies of the new primate research center at the University of Wisconsin. The amused observers are, left to right: Dr. Joe R. Held of the Animal Resources Branch, DRFR; Dr. Edwin Young, Dean of the University's College of Letters and Science; Dr. Willard H. Eyestone, Chief, Animal Resources Branch, DRFR; Dr. Harry A. Waisman, Chief of the Center's pediatric-biochemistry and mental retardation unit; and Dr. Harry F. Harlow, Center Director. Mrs. Keith Sutcliffe holds the monkey.

Robert Carpenter Wins Markle Scholar Award

Dr. Robert R. Carpenter of the Laboratory of Clinical Investigation, National Institute of Allergy and Infectious Diseases, has been named one of the "Scholars in Academic Medicine" by the John and Mary R. Markle Foundation.

The Markle Foundation program is designed to contribute toward the development of faculties of medicine in this country and in Canada. To this end, awards are given to support individual teachers, investigators and administrators in medicine.

The award to Dr. Carpenter is accompanied by a grant to be used over a 5-year period. In July, Dr. Carpenter will go to Houston, Tex., where he will be an Assistant Professor of Medicine at Baylor University College of Medicine.

Dr. Carpenter received his B.S. from the University of Pittsburgh in 1954 and his M.D. from the University of Rochester in 1957. He has been with NIAID since 1960 and has been Acting Chief of the Clinical Immunology Section since 1963.

Dr. Conner Joins BSS

Dr. Mark H. Conner has been appointed Associate Chief for Research and Training Grants in the Division of Occupational Health, Bureau of State Services.

Dr. Conner began his Public Health Service career in 1959 as a Special Assistant to the Chief, Division of Research Grants. Subsequently he served as Executive Secretary of the Dental Study Section and Associate Referral Officer, DRG, and recently he has been a Grants Specialist in the National Cancer Institute.

DR. HOEPLI

(Continued from Page 1)

have designs that represent symptoms of parasitic diseases.

Sculptured portrayals of both men and women have been found with greatly enlarged limbs suggestive of elephantiasis. From the age of the figures and from knowledge of the area where they were found, Dr. Hoepli hopes to determine the time and place where certain parasitic diseases were present and were recognized by the natives.

Dr. Hoepli noted that some African figures and masks are strikingly similar to Ecuadorian stone figures with mutilations apparently symbolic of yaws.

A comparison of native art, said Dr. Hoepli, shows the similarities and differences in the representation of parasitic diseases in widely separated countries.

Dr. Hoepli has found interesting tribal customs related to parasitic diseases. As long ago as several hundred years, certain African tribes recognized a relationship between mosquitoes and the disease modern man knows as malaria.

Swamps Taboo

Designated as taboo for the tribes were certain low, swampy areas where mosquitoes bred. In tribal dialect the words for mosquito and the strange illness associated with it were the same.

Dr. Hoepli's documentation of parasitic infections in Africa will supplement his book, "Parasites and Parasitic Infections in Early Medicine and Science," published in 1959.

Dr. Hoepli is a consultant on the history of tropical medicine to the American Foundation for Tropical Medicine. He was formerly Resident Director of the Liberian Institute for Tropical Medicine in West Africa.

Regional Primate Center Opens at Wisconsin U.

Scientists and administrators from all sections of the country attended the official opening of the Regional Primate Research Center at the University of Wisconsin April 27-28.

Representing the NIH Division of Research Facilities and Resources which administers the regional primate research center program were Dr. Willard H. Eyestone, Chief of the Animal Resources Branch, and Dr. Joe R. Held, also of that branch, who is in charge of the program.

A Public Health Service grant provided \$1.2 million for the full cost of construction, and additional awards support the Center's core scientists and all operational costs.

Many Fields Covered

Under the direction of Dr. Harry F. Harlow, internationally renowned behavioral scientist, the Center is a resource for scientists of the University of Wisconsin and other institutions, especially those in the midwest region.

Studies conducted by the Center's scientists are largely in the fields of psychology, neurochemistry, psychopharmacology, neurophysiology, biochemistry, physiology - endocrinology, experimental pathology, and primate medicine which includes clinical support for the research projects being carried out at the Center.

The first center, the Oregon Regional Primate Research Center at the University of Oregon, was completed in 1962. In various stages of construction or planning are the five other centers at the University of Washington, Emory University, Tulane University, Harvard University, and the University of California at Davis.

'Bold New Approach' to Mental Health Problems Described in Pamphlet

The "bold new approach" to problems of mental illness reflected in the passage of the Community Mental Health Centers Act of 1963 is described in the pamphlet "Community Mental Health Advances," issued last week by the Public Health Service.

Prepared by the National Institute of Mental Health, the pamphlet gives details not only of the Community Mental Health Centers Act but of other federally aided programs in the mental health field.

These include the Hospital Improvement Program and the In-service Training Program, both aimed at upgrading the quality of care in State hospitals and institutions for the retarded, and grants-in-aid for State planning of comprehensive mental health services.

Reports of promising community-oriented services throughout the country, some of them supported by NIMH grants, are included to inform the increasing number of persons concerned with strengthening community mental health programs about new and interesting developments.

Examples Given

Among the examples cited are the "crisis unit" at Northern State Hospital, Sedro-Woolley, Washington, which is able to return to the community a high percentage of patients admitted after an average stay of 22 days.

The use of "Teacher-Moms" to educate and treat severely emotionally disturbed children in Elmont, N.Y., is another program which has proved its effectiveness.

Also included in the pamphlet are sections on recent State legislation relating to mental health, a calendar of events for 1964, and current reading.

"Community Mental Health Advances," PHS Publication No. 1141, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, for 20 cents a copy.

Single free copies are available from the Publications and Reports Section, NIMH, Bethesda, Md. 20014.

New NIAID Appointments

Two new investigators have joined the staff of the Laboratory of Parasite Chemotherapy, National Institute of Allergy and Infectious Diseases. Dr. Kendall G. Powers and Dr. Jordon L. Holtzman are conducting, respectively, a program to screen various compounds for antimalarial activity and a study of the metabolism of malaria parasites.

EMPLOYEES RECEIVE MERITORIOUS SERVICE AWARDS TODAY



Janet E. Modery wins a sustained superior performance award and Hazel Rea an outstanding performance rating. Both are members of the National Institute of Mental Health.



Standing: Lucille S. Dublin, Adelle L. Carrington, Ida M. Flack and Elizabeth B. Balls. Seated: Rebecca W. Mitchell, Bertha Robinson and (far right) Coretta L. Ford, all of the Clinical Center Laundry Section, are winners of sustained superior performance awards. Elizabeth A. Roth, second from right, a Clinical Center nursing assistant, is the recipient of a beneficial suggestion award.



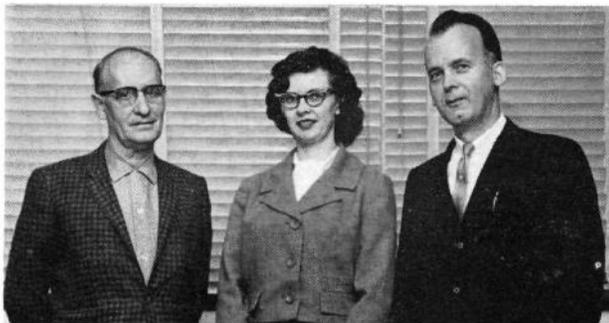
Winners of a group award for special act or service are these members of the National Institute of General Medical Sciences Information staff: Linda Perry, Hilah B. Thomas and Nancy Hawes.



Recipients of special act or service awards are these members of the Laboratory of Blood and Blood Products, Division of Biologics Standards: Donna C. Williams, Rita S. Conroy, Ann L. Dayton and Eleanor G. Morrison.

TWENTY-NINE employees named to receive cash awards at the Thirteenth Annual NIH Awards Ceremony at 3 p. m. today in the Clinical Center auditorium are pictured on this page, and one who receives an outstanding performance rating. Others receive 40- and 30-year service pins and certificates. All identifications left to right.

Photos by Sam Silverman



Homer G. Renfro and Joan M. Crist of the Plant Engineering Branch, Division of Research Services, and Gerald O. Taylor of the Laboratory Aids Branch, DRS, receive awards for beneficial suggestions.



Evelyn M. Rosenstein of the Career Development Review Branch, Division of Research Grants, receives a sustained superior performance award; Virginia P. Woodard is a special act or service award winner, and Rose S. Doying wins a sustained superior performance award. The latter are members of the Research Grants Review Branch, DRG.



Harry B. Bartee and Raymond E. Walls of the Office Services Branch, Office of Administrative Management, receive, respectively, a beneficial suggestion award and a sustained superior performance award.



These members of the National Institute of Neurological Diseases and Blindness, winners of sustained superior performance awards, are Mel Rose Canady of the Ophthalmology Branch, Joseph B. Proctor of the Medical Neurology Branch, and Grace C. Ream of the Laboratory of Biophysics.



Recipients of sustained superior performance awards are Roy R. Reed of the Laboratory of Experimental Pathology, National Institute of Arthritis and Metabolic Diseases, and Edna G. Ketchum of the Office of the Director, National Institute of Dental Research.