

the NIH Record

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HEALTH, EDUCATION, AND WELFARE

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NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE

Nirenberg Receives Biological Sciences Award From WAS

Dr. Marshall W. Nirenberg, of the National Heart Institute's Laboratory of Clinical Biochemistry, recently received the annual Award for Scientific Achievement for the Biological Sciences from the Washington Academy of Sciences. Dr. Nirenberg is Head of the Section on Biochemical Genetics.

Five Honored

Dr. Nirenberg's award was one of five presented by the Academy for scientific achievement in 1962, at its annual dinner meeting on February 21. Dr. Nirenberg was cited "for his contributions toward the first direct experimental verification of the chemical basis of the genetic code."

Working with Dr. J. Heinrich Matthaei in NIAMD's Laboratory of Biochemistry and Metabolism in 1961, Dr. Nirenberg succeeded in partially cracking the genetic code which lies at the heart of the sys-

(See NIRENBERG, Page 7)

Belgian Royalty Visit Here, Plan Heart Research Center

NIH employees caught a glimpse of royalty on February 21 when Princess Liliane and her husband, ex-King Leopold III of Belgium, visited NIH to discuss their plans with officials here for a Belgian heart research center.

The center, planned as part of the Princess Liliane Cardiology Foundation, will be the focal point in Belgium for diagnostic and clinical cardiology. It will be academically tied to the University of Brussels.

The Princess's great interest in cardiovascular matters, especially surgery to correct congenital heart defects, stems from the day nearly ten years ago when her son, Prince Alexandre, was operated upon for coarctation of the aorta by Dr. Robert Gross of Boston. Prince Alexandre is now a medical student at the University of Louvain.

Visitors Listed

Accompanying King Leopold and the Princess on their NIH visit were Ambassador Louis Scheyven of Belgium; Prof. Pierre Rylant, Professor of Physiology of the Free University of Brussels; Prof. Henri Maisin, Director of the Institute of Pathology, Catholic University

(See ROYALTY, Page 4)



Dr. James A. Shannon, NIH Director, and Princess Liliane of Belgium confer during a buffet luncheon here for the visiting Belgians and members of their party.—Photo by Bob Pumphrey.

Powell Announces Establishment of 2 New Branches

Dr. Clinton C. Powell, Director of the National Institute of General Medical Sciences, today announced the establishment of two new branches: the Research Fellowships Branch and the Program Analysis Branch.

The Research Fellowships Branch will award and administer predoctoral, postdoctoral, and special fellowships as well as career awards and development awards for the support of research training in basic biomedical and health-related sciences.

Branch Heads Named

This Branch, formerly a Section in the Research Training Branch, will be headed by Dr. Frederick P. Ferguson. In calendar year 1962 this program supported 1,384 Fellows at a level of more than six and one-half million dollars.

The Program Analysis Branch will be responsible for data accumulation and analysis of the various programs of the Institute. It will be headed by Maurice Odoroff, formerly Assistant to the Chief, Division of General Medical Sciences.

(See NEW BRANCHES, Page 7)

Hamsters' Production of 'Pajama Game' Has Factory Set, Hit Songs and Dancing

Sewing machines will hum, chorus girls will dance and sing, and the audience will enjoy such hit numbers as "Steam Heat," "Hernando's Hideaway," and "Hey There" in the Clinical Center auditorium Thursday evening. Curtain time is 8:30 o'clock.

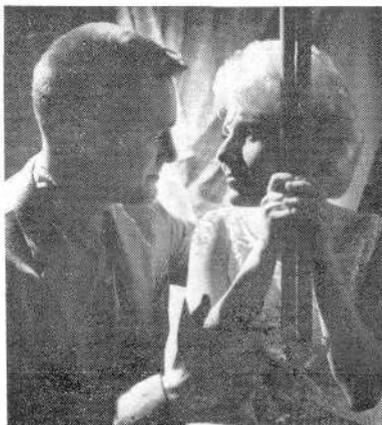
This will be the first of four performances of "Pajama Game" by the Hamsters, dramatic group of the NIH Recreation and Welfare Association. The remaining performances are scheduled for Friday and Saturday nights at 8:30, and Sunday at 2:30 p. m.

'Good Entertainment'

"This rendition of a love affair in a garment factory disrupted by a strike, affords some very good entertainment for the whole family," said Arnold Sperling, the show's director. "There are many NIH'ers in the cast," he said, "as well as people from the nearby communities."

In addition to the four leads—

(See PAJAMA GAME, Page 8)



"Sid" and "Gladys," played by John Kinnamon and Anita Ash, meet secretly at Hernando's Hideaway in the Hamsters' production of "Pajama Game."—Photo by John Blamphin.

Move to Westwood Planned For DRG, Parts of 8 Institutes

All NIH Extramural programs except those of the National Institute of Mental Health are scheduled to move to the Westwood Building about June 1, Dr. James A. Shannon, Director of NIH, announced recently.

The move will concentrate in one area research grants and training programs which are now located in a number of buildings both on and off the NIH reservation.

The Division of Research Grants and the National Institute of General Medical Sciences also will move to the Westwood Building, located at 5333 Westbard Avenue (between River Road and Massachusetts Avenue), Bethesda, Maryland.

CC Patients to Hold St. Patrick's Dance

Clinical Center patients will celebrate St. Patrick's Day with a dance on March 14 at 8 p.m., in the 14th floor assembly hall, which will be decorated with the traditional symbols of the famous Irish patron saint.

The U.S. Navy Dance Combo will provide the music for dancing. Intermissions will be devoted to group singing of Irish melodies, led by Ada Boone, pianist, and Myrna Louis, vocalist, of Silver Spring, who are sing-along specialists. There will also be door prizes for all patients who attend.

Arrangements for the dance were made by the CC Patients' Activities Section through the Montgomery County Chapter of the American Red Cross and the U.S. Navy.

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NEWS from PERSONNEL

"OPERATION TELEFRIEND"

To aid in the NIH search for qualified typists, stenographers and secretaries, Personnel Management Branch has prepared and distributed "Operation Telefriend" fliers to NIH employees.

These fliers request employees to "tell a friend" or acquaintance whom they believe to be qualified for these positions to visit or call the NIH employment office and learn of employment opportunities at the NIH.

PMB is also willing to contact directly individuals who may be interested.

Cooperation Needed

The success of this effort to obtain more secretarial and clerical personnel is dependent upon how well employees respond by telling others of the employment opportunities at the NIH.

PMB therefore urges NIH employees to support "Operation Telefriend" by reading the fliers and responding, if they know of any interested individuals.

Extra copies of the fliers may be obtained from Institute and Division Personnel Officers.

TEACHING MACHINE PURCHASED

Following four months of successful use on a trial basis, NIH has purchased a teaching machine and courses on Effective Management Practices (for use by grades GS-12, equivalent and above) and on Punctuation (for use by clerks, typists and stenographers).

As the course content is broadened by the purchase of additional training programs, other groups of employees will be instructed.

The machine, capable of presenting training programs covering a range of diversified subjects, was determined to be the most effective and efficient method among several considered.

NIAID 'Common Cold' Study Seeks Additional Volunteers

Although the response to date has been satisfactory, volunteers with recent common cold infections — preferably during the first three days of illness—are still needed by NIAID's Laboratory of Infectious Diseases.

The Laboratory is conducting a project designed to uncover new information about the common cold group of infections through studies of nasal washings and blood specimens. An appeal for volunteers was carried in the November 21 issue of the *Record*.

Volunteers Are Paid

Thus far volunteers have been drawn primarily from among employees visiting the NIH Employee Health Units for treatment of colds. Others wishing to volunteer may call Mrs. Hilda Kennedy, Ext. 5811.

Volunteers are paid \$2 for each of the two blood specimens required in the study. The first sample (20 milliliters) is taken with the nasal washing at the onset of the cold. The second blood specimen is drawn about three to four weeks later. Additional information may be obtained from Mrs. Kennedy.

In normal use the machine will be loaned to a requesting supervisor for one week to use in his office or suitable space nearby. Since each course may be completed in three to four hours, at least six to eight people can be trained per week.

Supervisors may request the use of the machine and courses through their respective Personnel Officers. Further information on the teaching machine and its operation is available from these Personnel Officers or the Employee Development Section, PMB.

Twelve Science Talent Search Finalists Discuss Research With NIH Scientists

Twelve finalists in the 22nd Annual Science Talent Search for the Westinghouse Science Scholarships and Awards visited NIH March 1 for a luncheon and individual consultations with NIH scientists.

Fredrickson to Speak at Program for Students

Dr. Donald S. Fredrickson, Clinical Director of the National Heart Institute, will deliver the third and final lecture in the 5th Annual High School Student Heart Research Program for District of Columbia High School Students at 10:30 a.m. Saturday.

He will speak on "The Aging Heart" to about 500 students in the D.C. Medical Society auditorium, 1718 M St., N.W.

The Washington Heart Association is sponsoring the program which consists of three Saturday morning lectures and laboratory tours of six local hospitals on March 20. NIH is one of the six institutions which the students may visit.

Prior Lectures Listed

Previous lectures in this year's program were given March 2 by Dr. Estelle R. Ramey of the Georgetown University School of Medicine and Dentistry and on March 9 by Dr. Samuel P. Bessman of the University of Maryland School of Medicine.

The Heart Research Program is designed to stimulate interest in the medical research field, to expose students to research problems in heart disease, and to afford students an opportunity for summer-time work in a medical laboratory.

Dr. John A. Oates, Jr., of NHI's Experimental Therapeutics Branch, is a member of the Washington Heart Association's High School Research Committee.

Dr. Stanley G. Korenman of the Endocrinology Branch, National Cancer Institute, welcomed the group to NIH. Dr. Korenman was a national finalist in the 1950 Science Talent Search.

Dr. Arthur Weissbach of the Laboratory of Biochemistry and Metabolism, National Institute of Arthritis and Metabolic Diseases, was guest speaker at the luncheon held in Wilson Hall.

Students Meet Scientists

After the luncheon the student-scientists met with NIH staff members engaged in research of particular interest to the visitors.

The twelve students, all high school seniors, were Jo Birkhead, Oklahoma City, Okla.; Alan Campbell, Fairfield, Conn.; Bernice Chang, Honolulu, Hawaii; Deborah Chase, New York, N. Y.; Douglas Cole, Holden, Mass.; Michele Flicker, Prairie Village, Kans.; Jonathan Fruchter, Austin, Tex.; Jack Kyte, Pasadena, Calif.; Bruce Leslie, Brooklyn, N. Y.; Alice Martin, Cleveland, Ohio; Zachary Miller, Brooklyn, N. Y.; William Pickard, Jr., Atlanta, Ga.

40 Finalists Chosen

They were among 40 national finalists chosen from over 22,000 students who entered the Talent Search which is designed to discover and develop scientific ability among high school seniors.

The scientific competition for the Westinghouse Scholarships and Awards is conducted annually by the Science Clubs of America, administered by Science Service, Washington, D. C.



Dr. Arthur Weissbach, NIAMD (in white coat), talks with Science Talent Search finalists during luncheon in Wilson Hall. Seated (left to right) are student-scientists Jack Kyte, Michele Flicker, Deborah Chase, Douglas Cole, Alice Martin, Jo Birkhead, Jonathan Fruchter, and William Pickard. Standing (left to right) are Alan Campbell, Bernice Chang, Bruce Leslie, and Zachary Miller.—Photo by Bob Pumphrey.

Epidemiological Report Made on Outbreak of Parainfluenza Type 2

The first epidemiologic description of an outbreak of parainfluenza virus type 2, formerly referred to as the "croup-associated (CA) virus," has been reported by Dr. Albert Z. Kapikian and associates of the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases.

The outbreak occurred in the spring of 1960 among the "nursery group" of Junior Village of the Department of Welfare of the District of Columbia. The group contained 105 children whose ages ranged from 6 to 53 months. Parainfluenza virus type 2 was isolated from 20 of this group. Paired sera on 14 of the 20 were tested and 11 showed neutralizing antibody rises to the parainfluenza 2 virus. In addition, 11 virus-negative children developed similar serologic evidence of infection.

Febrile Illness Develops

Two-thirds of the children from whom parainfluenza 2 virus was isolated developed an acute undifferentiated febrile illness at the time of initial infection. The association was of such a nature as to leave little doubt that it represented an etiologic relationship. The average of the maximum temperatures of the children with virus isolations and an associated febrile illness was 102.4° F., while the average duration of fever (100.6° F. or greater) was 3.4 days.

In this naturally occurring parainfluenza 2 virus outbreak only one child developed croup, the syndrome from which the virus originally derived its name. This was noteworthy since studies limited to hospitalized children have stressed the relationship of this virus to croup.

The report appears in the *Journal of the American Medical Association*.

List of Latest Arrivals Of Visiting Scientists

1/29—Dr. Seiya Kohno, Japan, Measles Vaccine. Sponsor, Dr. Joseph Smadel, DBS, Bldg. 29, Rm. 318.

2/1—Dr. V. Sasisekharan, India, Molecular Structure of Biological Materials. Sponsor, Dr. David R. Davies, NIAMD, Bldg. 2, Rm. 311.

2/18—Dr. Vitaliano Pallini, Italy, Protein Biosynthesis. Sponsor, Dr. G. L. Cantoni, NIMH, Bldg. 10, Rm. 2D18.

2/18—Dr. Hideo Kon, Japan, Photobiology. Sponsor, Dr. Edwin Becker, NIAMD, Bldg. 2, Rm. SB01A.

NIH Staff Present Programs At 4-Day AORN Congress



Dr. Clarence L. Hebert, Chief of the Anesthesiology Department, CC, makes use of a dummy in one of the NIH exhibits to demonstrate equipment used during hypothermia and anesthesia. The attentive observers are nurses attending the 10th National Congress of the Association of Operating Room Nurses.—Photo by Sam Silverman.

Many NIH staff members participated in the medical and scientific programs presented at the 10th National Congress of the Association of Operating Room Nurses at the Sheraton-Park Hotel in Washington, D. C., February 18-21.

The 4-day Congress was attended by more than 3,300 registered professional operating room nurses, nurses in allied fields, physicians and surgeons, hospital administrators, and students of nursing from all of the 50 States, the District of Columbia, Canada, and England.

The program of the Congress, presented by outstanding and distinguished authorities, was planned to improve standards of operating room nursing care and provide information touching on every aspect of operating room nursing.

200 Exhibits Displayed

In addition to the program sessions, over 200 educational, research, scientific, and technical exhibits were displayed during the meeting.

Doris B. Pagano of the Operating Room Staff, Clinical Center, was General Chairman of the Congress. Miss Pagano also is Vice President of the National Association of Operating Room Nurses and President of the Washington Chapter of the Association.

Janet L. Fitzwater, Chief of the Surgical Nursing Service, CC, was Chairman of the Educational Research and Scientific Exhibits Committee. All members of the Surgical Nursing Staff, CC, served as members of the various committees.

One of the features of the 4-day meeting was a 3-hour, closed-circuit colorcast of an open-heart procedure emanating from Johns Hopkins Hospital in Baltimore, moderated by Dr. Andrew G. Morrow, Chief of the Surgery Branch, Na-

NIMH Study Suggests Tryptamine Metabolite Has Psychologic Effect

Scientists of the National Institute of Mental Health have produced evidence that a 6-hydroxylated metabolite of tryptamine produces psychologic effects.

It has been known that N, N-dimethyltryptamine (DMT) and N, N-diethyltryptamine (DET), administered to humans, produce symptoms similar to the well-known hallucinogenic LSD and mescaline. In contrast to the longer-acting LSD and mescaline, the effect of DET lasts about 2 to 2½ hours; and in the case of DMT, about 1 hour.

The very short duration of effect of the tryptamine derivatives, the investigators hypothesized, suggested that a metabolite of these compounds produces the psychologic effect, until it is metabolized further or excreted from the human body.

6-HDET Analyzed

One of the known metabolites of DET is 6-hydroxy-DET, which in a previous study was found to be more active in disorganizing animal behavior than the non-hydroxylated parent compound. Furthermore, 6-HDET analyzed in urine samples accounted for 50-70 percent of DET administered in rats.

The NIH scientists administered a known amount of DET to 10 normal subjects and 10 chronic schizophrenics, and analyzed urine samples taken over time periods of 1-3, 3-6, and 6-9 hours, but could account for only 17 percent of the DET administered (about 5 percent as 6-HDET and about 12 percent as a recognized metabolite of DET). DET was metabolized more slowly in schizophrenics than in normal subjects.

Positive Correlation Noted

When tests were administered, a positive correlation was found between amount of 6-HDET in urine and the intensity and duration of the symptomatology as measured by psychologic, autonomic, and neurologic changes in normal volunteers.

However, they point out that since DET can be metabolized to 6-HDET in the body, this mechanism may conceivably present a way for producing psychotoxic metabolites endogenously and could thus have some bearing on the biochemistry of schizophrenia.

The NIMH scientists who conducted the study were Drs. Stephen Szara and Lawrence H. Rockland. Their findings were published in the *Proceedings of the Third World Congress of Psychiatry*.



Janet L. Fitzwater, Chief of the Surgical Nursing Service, CC, is pictured with Dr. Gilbert R. Christenson, Assistant Chief of the Anesthesiology Department, CC, at the AORN Congress. This is believed to be the last picture taken of Dr. Christenson who was killed in the crash of a private plane the following week. See story, Page 6.—Photo by Sam Silverman.

tional Heart Institute.

Dr. Alfred A. Ketcham, Chief of the Surgery Branch, National Cancer Institute; Dr. Howard L. Andrews, Chief of the Radiation Safety Department of the Clinical Center; and Miss Fitzwater presented a program on Radical Oncological Surgery, assisted by Dr. John F. Potter, Assistant Profes-

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ROYALTY

(Continued from Page 1)

of Louvain; and Dr. Louis Groven, Scientific Attache of the Belgian Embassy.

Also, Mrs. Florence Mahoney, Mrs. Eunice Shriver, Dr. Michael DeBakey, Dr. Jerome B. Wiesner, Dr. Leona Baumgartner, Mr. Boissefeuille Jones, Surgeon General Luther L. Terry, Dr. James Watt, and Dr. Paul Sanger.

The visitors were welcomed to NIH by Dr. Shannon, and to the Heart Institute by Dr. Ralph E. Knutti, NHI Director.

Tour Clinical Center

After a buffet luncheon in Building 31, the group visited the Clinical Center, where they were formally welcomed by Dr. Jack Masur, Clinical Center Director, who conducted them on a tour of the building.

They were shown the intramural activities of the Heart Institute by Dr. Donald S. Frederickson, NHI Clinical Director, and learned something about NHI research from Dr. Frederick Bartter (renal hypertension), Dr. Albert Sjoerdsma (pheochromocytoma), Dr. John Ross (diagnosis of congenital heart disease), and Dr. Andrew G. Morrow (heart surgery).

Their day at NIH ended with a final meeting with Dr. Shannon.

Prof. Zaimis to Lecture Here Monday at 3:30

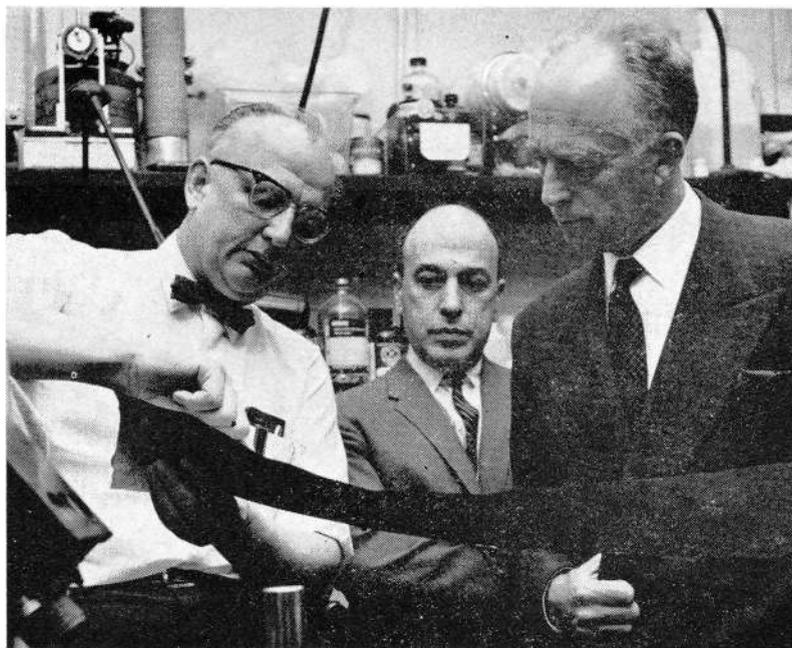
Prof. Eleanor Zaimis, Chairman of the Department of Pharmacology at the Royal Free Hospital School of Medicine in London, will present a paper on "The Need for Pharmacology of Chronic Treatment" in the Clinical Center auditorium next Monday (March 18) at 3:30 p.m.

In 1961 Prof. Zaimis shared the Gardiner prize for work on decamethonium with William Paton, Professor of Pharmacology at Oxford University. She is presently organizing a symposium on Evaluation of New Drugs in Man for the 1963 International Pharmacological meetings in Prague.

Research Vital

For a period of years Prof. Zaimis has done some very careful work on the long-term effect of pharmacological agents. This subject has become increasingly important in modern medicine, since the short-term therapy type of information is often inadequate where long periods of use are involved.

Dr. Robert Cohen, NIMH Clinical Director, suggests that many members of the NIH staff and the medical community will be interested in this presentation by Prof. Zaimis, which is sponsored by NIMH.



Dr. Robert W. Bowman, Chief of the National Heart Institute's Laboratory of Technical Development (left), explains to ex-King Leopold of Belgium a new method of analyzing small amounts of calcium during a tour of NHI laboratories in the Clinical Center. Dr. Robert W. Berliner, NHI Director of Intramural Research, is in the background.—Photo by Bob Pumphrey.

Att'y General Urges Gov't Employees To Contribute to NHA-FSJC Campaign

"These suffering and afflicted people who will benefit from our contributions must mean more to us than just a bunch of nameless statistics."

The speaker was Attorney General Robert F. Kennedy, addressing the kick-off meeting of the National Health Agencies—Federal Service Joint Crusade Campaign in the Departmental auditorium in Washington.

"When we realize that these are real people and that these diseases could touch our own families, then I think we will be more willing to give," Mr. Kennedy added.

He had just met and talked with one of these real people—6-year-old Buddy Bailey, a clinical patient of the D. C. Society for Crippled Children.

Invitation Extended

They later posed for pictures and the Attorney General invited Buddy "and some of your classmates to come visit me in my office."

The campaign here at NIH has been underway just over a week.

"Contributions are now coming in," said Dr. Ralph E. Knutti, NIH Campaign Director. "We are not aiming for any special dollar goal, but we are hoping for 100 percent participation."

Dr. Knutti explained why the campaign is necessary.

"The nine participating organizations must raise funds in order to serve the public. The campaign is not a charity drive. These organizations give people the opportunity to help themselves as well as to help others.

"The campaign consists of nine separate appeals—six in the health field and three in overseas relief and information work—which are

conducted simultaneously. This makes it important for the contributor to designate how he wants his contribution divided."

Dr. Knutti announced that Betty Wiehle and Linda Jenks, both of NHI, are serving as campaign manager and assistant.

John Fitzgerald, Executive Officer of NIDR, will serve as consultant. Tony Anastasi, NHI, is

Owen Scott Appointed NIGMS Exec. Officer

Dr. Clinton C. Powell, Director of the National Institute of General Medical Sciences, has announced the appointment of Owen W. Scott as Executive Officer of the Institute, effective February 17.

Mr. Scott, who has more than 20 years experience in administration in government agencies, came to NIH in 1956 as Administrative Officer with the Field Investigation and Demonstration Branch, NCI.

He held this position until 1960 when he was appointed Administrative Officer of the Office of the Associate Director for Field Studies, NCI.

Prior Experience Cited

Prior to coming to NIH, Mr. Scott served for 10 years with the Veterans Administration as an Administrative Officer with the Department of Medicine and Surgery. From 1939 to 1944 he held different clerical and administrative positions with the Surgeon General's Office, United States Army.

Mr. Scott served in the U.S. Army from 1944 to 1946 when he was commissioned in the Transportation Corps.

A native of Etna, Ill., he received a B.A. degree in Business Administration from George Washington University.

He was an Associate in Arts at George Washington in 1953 and prior to entering government service, spent two years in accounting and general business work at the Chillicothe Business College, Chillicothe, Mo.

publicity chairman. His staff includes Lou Cook, NHI; Mike Canning, NIGMS; Dan Rogers, Information Trainee; and Mike Maroney, NIAID.



Attorney General Robert F. Kennedy, Chairman of the National Health Agencies and Federal Service Joint Crusade Campaign, greets Tony Anastasi, Publicity Chairman of the NIH Campaign, at the recent kick-off meeting at the Departmental auditorium.

Mary Mitchell Retires; Served Here 10 Years

Mary A. Mitchell, Head Nurse of the Clinical Center's Arthritis and Metabolic Nursing Service for the past ten years, retired February 28 after 20 years in the Public Health Service.

Mrs. Mitchell joined the PHS in 1943 as Head Nurse at the PHS Hospital in New Orleans, La. She was stationed there until November 1953, when she was transferred to the newly opened Clinical Center.

Mrs. Mitchell received a cash award for superior performance in 1960.

A native of Fredericksburg, Va., she is a graduate of the Virginia Hospital School of Nursing in Richmond. During World War I she spent two years in the U.S. Army Nurse Corps.

During her Army service she met her husband, the late Dr. Leopold Mitchell. After their marriage, she retired from nursing to devote her time to her family.

Mrs. Mitchell will continue to live with her sister on Cedar Lane "just in back of the Naval Medical Center." She intends to spend some time visiting her two daughters and their families.

A party was held in Mrs. Mitchell's honor February 28 at the CC. She received a jewelled pin and matching earrings from her staff and a plant from the patients on her nursing unit.



Mary A. Mitchell (right) and her supervisor, Josephine O'Connor, Chief of the Arthritis and Metabolic Diseases Nursing Service, admire the jewelled pin and earrings presented to Mrs. Mitchell at her retirement party.—Photo by Jerry Hecht.

Victor Wartofsky Named Acting IO for NIAMD

Victor Wartofsky, Public Information Specialist at the National Institute of Arthritis and Metabolic Diseases, has been appointed Acting Information Officer for the Institute. He succeeds John W. Robinson who moved recently to the Office of Research Information.

Mr. Wartofsky came to NIAMD in 1960 after a short period of public relations work followed by freelance writing. From 1953-59 he

Patients' Welfare Fund Brings Comfort And Cheer to Clinical Center Residents

By Elizabeth Clare

The boy was blind and subject to frequent epileptic seizures, but to the Clinical Center staff members who cared for him his behavior was a more serious problem than his illness.

One day in the presence of a member of the hospital staff the boy angrily revealed one source of his aggravation. At night, when the hospital was still, he became lonely and had no way of knowing what time it was.

The social worker decided a braille watch might solve this problem and also might be a way of showing the staff's real concern for him.

Boy's Attitude Changes

The watch, purchased with money from the Patients' Welfare Fund, proved to be a turning point in the boy's attitude toward his condition and the CC staff members whom he then regarded as his friends.

This incident which happened over five years ago demonstrates one of the many ways in which the Patients' Welfare Fund is used to meet the needs of CC patients and their families.

Since its inception in 1954, the Fund has been used to purchase a myriad of items. Essentially it is a resource, not available from appropriated funds, to provide the extra comforts which are extremely important to the morale and well-being of the patient and his family at a time of stress.

Provides Basic Needs

If a patient is without money and if financial assistance from his family would impose a serious handicap on them, the Fund may supply him with \$2.50 or \$3 a week to purchase basic necessities during his stay at the Clinical Center.

Patients often use this money to keep in touch with their families by purchasing stationery supplies and telephoning their loved ones.

It is often necessary, in view of a patient's age or condition, for a parent, husband, wife, or other relative to be with him. In such cases the Fund may be used to provide travel and lodging expenses of a family member who otherwise would be financially unable to be with the patient.

Money from the Fund also is used for special patient activities. Birthday parties are provided for

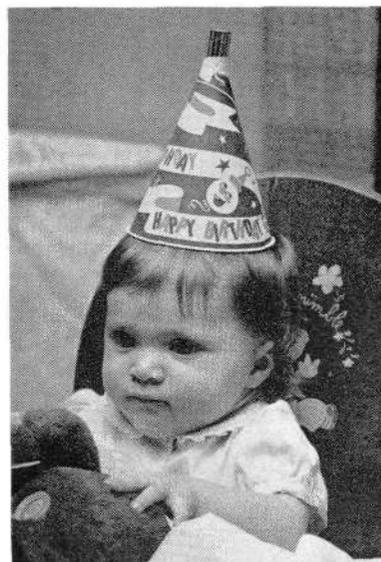
worked in the Washington bureau of United Press International on its foreign desk and in its radio-television department.

He attended George Washington University as a pre-medical student but later transferred to American University where he received a degree in journalism.

During his military service he served as a troop information and education specialist in Germany.

every child patient. On such occasions, all patients on the celebrant's nursing unit are included in the festivities.

Special activities for patients from other countries often are financed through the Fund. One CC staff member took some young Mexican patients to dinner at a local Mexican restaurant. The out-



Clinical Center patient Teresita Elizabeth Giese of Nogales, Ariz., enjoys her first birthday party here. She was 5 months old when she was admitted and 16 months old when she left last July. Teresita's teddy bear and birthday hat were provided through the Patients' Welfare Fund.—Photo by Lee Bragg.

ing was such a morale booster that Fund resources were supplied to enable the patients to enjoy another Mexican meal.

Each year a total of 25 percent of the CC patients are personally aided by the Fund. The CC Social Service Department, which administers the Fund, operates this function on a budget of \$850 a month.

Ellen Walsh, Social Service Department Chief, explained that 60 percent of the Fund's annual income is derived from contributions of the Recreation and Welfare Association of NIH, and that this is the only amount received on a permanent, stable basis. Thus, R&W and all of its members render a most worthwhile service to CC patients.

The remaining 40 percent comes from voluntary contributions from a wide variety of sources. Chief among these are former patients, their families and friends, and NIH staff members.

Calvin Baldwin Is Named Executive Officer of Child Health Institute

Dr. Robert A. Aldrich, Director of the newly established National Institute of Child Health and Human Development, has announced the appointment of Calvin B. Baldwin, Jr., as Executive Officer of that Institute. Mr. Baldwin assumed his new duties on March 4.

As Executive Officer Mr. Baldwin will be the principal assistant to the Institute Director on matters of administration and management.

Mr. Baldwin has served as Assistant Chief of the Grants Management Branch, Division of Research Grants, since June 1962.

He came to NIH in 1953, following two years in the Office of the Surgeon General, Public Health Service, and has served as Organization and Methods Examiner, Budget Examiner and Administrative Officer in the Division of Research Services, and as Executive Officer of the Division of General Medical Sciences.

Wins Award

While serving in the latter position, Mr. Baldwin won the Meritorious Award for exemplary achievement in public administration, given by the William A. Jump Memorial Foundation.

He is a graduate of the University of North Carolina and holds the degree of Master of Public Administration from Harvard University. He obtained the degree during a 9-month leave of absence from NIH in 1960-61, when he participated in a research and training program on science and public policy at the Harvard Graduate School of Public Administration.

A native of Radford, Va., Mr. Baldwin moved to Montgomery County in 1933. He resides with his wife Elizabeth and their three daughters at 11404 Norrjis Drive, Wheaton, Md.

'The Bad Seed' Is Next In R&W Movie Series

"The Bad Seed," starring Patty McCormack, will be the next in the series of free movies sponsored here by the Recreation and Welfare Association of NIH.

The film, based on a play by Maxwell Anderson, is recommended for adult audiences. Screenings are scheduled for Saturday and Sunday, March 23 and 24, at 8 p.m. in the Clinical Center auditorium.

NIH employees, their guests, and CC patients are invited to attend.



Mr. Baldwin

Dr. Gilbert Christenson Killed in Plane Crash

Dr. Gilbert R. Christenson, 45, Assistant Chief of the Clinical Center Anesthesiology Department, and his wife, Dorothy Hamilton Christenson, 45, were killed in a mountainside plane crash near Greenville, S.C., March 1, while en route to California.

The pilot and owner of the plane, Dr. Sidney W. Lowry, 48, of the District Heights (Md.) Medical Center, and the other passenger, William Richard Ford, 56, a businessman of Takoma Park, also died in the crash.

Dr. Christenson joined the USPHS Commissioned Corps in 1952 and had been with the CC Anesthesiology Department for the past 6½ years.

Adapts Devices for Use

He was responsible for modification of commercially available apparatus to fulfill the special needs of investigations carried out at the Clinical Center. This included a long-term study of ambulatory dental patients undergoing surgery, which was being conducted in collaboration with Dr. E. J. Driscoll of the National Institute of Dental Research.

Dr. Christenson was primarily responsible for the development of a portable battery-operated cardiac monitor, known as the Cardiactor.

This convenient device which is routinely employed on Clinical Center surgical patients, can be used to monitor the peripheral pulse by means of a digital pickup of the electrocardiogram and skin electrodes.

Prior to his NIH appointment Dr. Christenson had been with the Medical Center for Federal Prisoners at Springfield, Mo. He completed his residency at the PHS Hospital, Staten Island, N.Y., and



Dr. Christenson

received his M.D. degree from the Loma Linda University, California. He was born in 1918 at Dodge Center, Minn., and was a graduate of Union College, Lincoln, Nebr.

Dr. and Mrs. Christenson are survived by three sons and a daughter: Ronald, 17; Robert, 15; Richard, 13; and Joy, 4, of the home address, 7912 Lockney Avenue, Takoma Park.

Dr. Christenson leaves his parents, Mr. and Mrs. Eugene Christenson of Dodge Center, Minn.; a brother, Robert, also of Dodge Center, and a sister, Mrs. Leberta Holenbeck, of Minneapolis, Minn.

Mrs. Christenson was from Nebraska. She is survived by her parents and a sister, all of Mitchell, Nebr.

Memorial Services Held

Memorial services were held at the Sligo Seventh Day Adventist Church in Takoma Park, and burial was in Dodge Center, Minn., near Rochester.

Dr. Christenson's loss will be keenly felt by his colleagues at NIH. His conscientious devotion to the welfare of patients entrusted to his care and the loyalty and consideration which he displayed in his dealings with his fellow workers will long linger in the memory of those who knew him.

His friends and colleagues are establishing a Gilbert R. Christenson Memorial Fund, c/o Washington Sanitarium and Hospital, Takoma Park, Md., to provide a medical or nursing scholarship, as approved by his family.

Report Procedure Essential For Up-to-Date Directory

To assist in keeping the NIH Telephone and Service Directory up-to-date, the Communications Section, OSB-OAM, recommends that all organizational changes, such as new room and building numbers, extension numbers, and personnel additions, be reported promptly on PHS-3977 forms, obtainable from Administrative Officers.

The form has three carbon attachments. The original should be forwarded to the Chief Telephone Operator in Building 10, Rm. B1A23, for her information and records. The first carbon is sent to the Central Mail Room in Building 31, Rm. B1E18, to assure mail delivery, and the remaining two carbons are retained by the originating office.

The directory is published three times a year to keep abreast of organizational and personnel changes.

'JUST ONE MORE'



Peggy Sauer, NHI budget office, sights her camera to focus attention on the final NIH Camera Club color slide competition which will be held next Monday at 8 p. m. in Rm. 9N-226 of the Clinical Center. For information on joining the club, call the R&W office, Ext. 3597.—Photo by John Blamphin.

Sidney Cohen of DRG Accepts Gallaudet Post

Sidney B. Cohen, Chief of the Grants Management Branch, Division of Research Grants, will leave NIH this week to become business manager of Gallaudet College.

A native of Philadelphia, Pa., Mr. Cohen graduated from Columbus School of Accountancy of Catholic University in 1940, and did postgraduate work at American and George Washington Universities.

Mr. Cohen came to NIH in March 1960 as Assistant Chief of DRG's Grants Management Branch, and since November 1962 has served as Branch Chief.

He was supervisory constructive accountant and fiscal consultant in the Office of the Assistant Director for State Administration, Office of Vocational Rehabilitation, for two years before he came to NIH. From 1955 until 1958 he was Assistant Executive Officer of the Food and Drug Administration.

Mr. Cohen also has served as budget examiner for DHEW, as Director of Budget and Finance of the Wage Stabilization Board, Economic Stabilization Agency, and in various administrative capacities with the Federal Security Agency.

One hundred years ago George S. Boutwell, first Commissioner of Internal Revenue, had a staff of only one clerk, and personally read all letters from taxpayers.

Dr. James Dow Named Executive Secretary of 2 NIGMS Committees

Dr. James W. Dow, a Research Associate at Mt. Sinai Hospital, New York City, has been appointed Executive Secretary of the Physiology and Biomedical Engineering Training Committees of the National Institute of General Medical Sciences which currently supports over \$3 million in training projects in these two fields. His appointment was effective January 28.

In addition, Dr. Dow will serve as a Medical Advisor to the Research Training Grants Branch which administers a total program of \$36 million in research training grants.

Prior to coming to NIH, Dr. Dow participated in the conception and organization of one of the first formalized programs in biomedical engineering at Drexel Institute of Technology in Philadelphia. He directed this program from 1960 to 1962, serving also as Adjunct Professor of Medical Sciences there.

Experience Cited

Dr. Dow was an Assistant Professor of Medicine and Coordinator of Cardiovascular Teaching at Tufts University School of Medicine from 1953 to 1958. He was also an Instructor in Pediatrics at Harvard Medical School.

In addition to his teaching positions, Dr. Dow was the Director of Circulation Laboratories at the Children's Medical Center of Boston (1949-51), the Boston City Hospital (1953-58), and the Presbyterian Hospital of Philadelphia (1958-62).

In 1962 Dr. Dow was a member of the Biomedical Engineering Training Committee, Division of General Medical Sciences. He has also served as a consultant both in rheumatic fever with the State of Massachusetts Department of Health, and in congenital heart disease with the Maine Medical Center.

Harvard, Tufts Graduate

Dr. Dow completed his undergraduate studies at Harvard University, where he graduated with honors in 1941. He received an M.D. degree from Tufts University School of Medicine in 1944 and is trained in internal medicine, cardiology, and clinical cardiovascular physiology.

Among his research interests Dr. Dow lists the circulation control systems, shock due to histamine release in homologous blood exchange, and mechanical support of the circulation for as long as two days by venoarterial pumping.

A native of Worcester, Mass., Dr. Dow is a member of the American Medical Association, the Massachusetts Medical Society, the Pennsylvania Medical Society, and the American Heart Association.

NURSES

(Continued from Page 3)

sor of Surgery and Head, Oncologic Division of Surgery, Georgetown University Medical Center.

Dr. Clarence L. Hebert, Chief of the Anesthesiology Department, CC, and Dr. Henry Sprouse, Department of Anesthesiology, CC, participated in the program on "New Trends in Anesthesia: A Symposium on Hypothermia, Hyperventilation and Electrical Anesthesia—Present and Future Implications."

Scientific exhibits from NIH included Hypothermia, New Equipment in the Operating Room, A Look at the Development of a New Drug, and Current Clinical Research at NIH.

Dr. Rauscher, NCI, Wins Comenius Alumni Award From Moravian College

Dr. Frank J. Rauscher of the Laboratory of Viral Oncology, National Cancer Institute, will receive the Comenius Alumni Award of the Moravian College Alumni Association on March 23 at the college in Bethlehem, Pa.



Dr. Rauscher

Dr. Rauscher, who received his B.S. degree in 1953 from Moravian College, is the youngest recipient of the award, which is presented annually for outstanding achievements by an alumnus.

Last April Dr. Rauscher was credited with the discovery and isolation of a virus capable of rapidly producing leukemia in laboratory mice and rats. He presented his findings at the 8th International Cancer Congress in Moscow last July.

The Rauscher Virus, as it is known, makes it possible to complete in a few weeks studies that formerly took months. Its use is expected to greatly accelerate the pace of several areas of cancer research.

Dr. Rauscher received his M.S. and Ph.D. degrees from Rutgers University in 1957. He was an instructor and research assistant at Rutgers until he joined the National Cancer Institute in 1959.

NIRENBERG

(Continued from Page 1)

tematic reproduction of all living matter.

This work illuminated the way information is coded into the nucleic acids and used to direct the incorporation of specific amino acids into proteins.

Understanding the genetic code fully is considered one of the most important basic problems in biology. The code involves the two hereditary materials, DNA and RNA (deoxyribonucleic acid and ribonucleic acid), and provides the means for storing and transmitting genetic information.

Present in all living cells, DNA and RNA are believed to direct the manufacture of proteins, life's most complex and important molecules.

Dr. Nirenberg was an American Cancer Society Postdoctoral Fellow at NIH from 1957 to 1959. He also was a PHS Fellow here in 1959. He became an NIAMD chemist in 1960 and joined NHI in 1962.

In 1948 Dr. Nirenberg received his B.S. degree from the University of Florida at Gainesville. He earned his M.S. in Biology there in 1952, and a Ph.D. in Biochemistry at the University of Michigan in

DR. ALDRICH TAKES THE OATH OF OFFICE



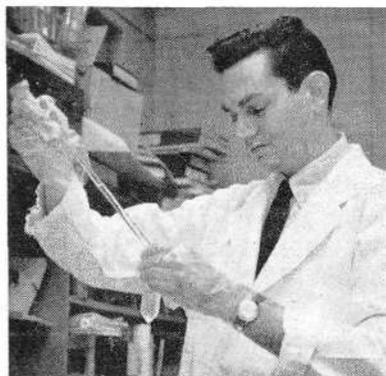
Dr. Robert A. Aldrich (right) is sworn in as Director of the newly established National Institute of Child Health and Human Development by John M. Sangster, Chief of the Personnel Management Branch. The ceremony took place March 4 in Mr. Sangster's office. At the time of his appointment Dr. Aldrich was Professor and Chairman of the Department of Pediatrics at the University of Washington School of Medicine.—Photo by Jerry Hecht.

1957.

Born in New York City in 1927, Dr. Nirenberg is a member of the American Chemical Society and Sigma Xi.

Other Awards for Scientific Achievement presented at the Academy's dinner meeting, and their recipients, were:

For the Engineering Sciences, Lendell E. Steele, Naval Research Laboratory, for "his contributions to the field of radiation effects to reactor pressure vessel materials"; for Mathematics, Dr. Bruce L. Reinhart, University of Maryland, for "his contributions to the topology of differentiable manifolds"; for the Physical Sciences, Dr. Edward A. Mason, University of Maryland, for "his many outstanding contributions to the molecular theory of gas properties"; and for the Teaching of Science, Rev. Francis J. Heyden, S.J., Georgetown University, who "by combining teaching and research . . . leads others to join his adventures in science."



Dr. Nirenberg in his laboratory.—Photo by Norman MacVicar.

NEW BRANCHES

(Continued from Page 1)

Dr. Ferguson came to NIH in the summer of 1960 as Chief of the Fellowships Section. Prior to that he served as a member of the faculty of the University of Maryland School of Medicine for eleven years. He became a Professor of Physiology in 1955, and from 1959 until he left, served as Acting Head of the Physiology Department.

Dr. Ferguson received both the B.A. (1938) and M.A. (1939) degrees from Wesleyan University, Middletown, Conn., and the Ph.D. degree (1943) in Zoology from the University of Minnesota. In 1958 he received a citation from Wesleyan University for Distinguished Service as Teacher and Scholar.

Memberships Cited

Dr. Ferguson is a Fellow of the American Association for the Advancement of Science and of the New York Academy of Science as well as a member of the American Physiological Society, the American Society of Zoologists, and the Society for Experimental Biology and Medicine.

Mr. Odoroff came to DGMS as Assistant to the Chief in 1960, after 26 years' experience in planning and administering programs in psychological services and statistics for Federal, State and private agencies.

Mr. Odoroff is the recipient of both the B.S. and M.A. degrees from the University of Minnesota in 1933 and 1934, respectively.

After being commissioned in the PHS in 1948, he was appointed Chief of the Evaluation and Re-

Clinical Center to Host 97th Annual Meeting Of RMS April 7, 9

The Royal Microscopical Society will hold its 97th Annual Meeting at the Clinical Center April 7 and 9.

This will be the first U.S. meeting of the Society, which was organized in 1866. More than 500 members from 26 nations are expected to attend.

Dr. Murray C. Brown, Chief, CC Clinical and Professional Education Branch, is chairman of the American Committee on Arrangements for the meeting which marks the 300th anniversary of the microscope in living biology.

Plenary Sessions Planned

Four plenary sessions will be held in the CC auditorium April 7 and 9. General subjects to be discussed are "Problems in the Study of Living Circulation and the Contribution of Microscopes to Its Study," "The Study of Living Cells," "New Methods for the Study of Biological Materials That Involve Microscopes," and "New Developments in Microscopes for Biologists."

Three NIH staff members are scheduled to appear on the program which includes many distinguished speakers from England, Sweden, Germany, France, and the United States.

NIH Speakers Listed

Dr. George Z. Williams, Chief of the Clinical Center's Clinical Pathology Department, will speak on "Converters and Vidicons."

Dr. David Scott, Chief of the Laboratory of Histology and Pathology, National Institute of Dental Research, will present the introductory statement for the first plenary session.

Dr. John Dalton of the Laboratory of Viral Oncology, National Cancer Institute, will make the introductory statement for the closing session.

Non-members of the Society will be eligible to attend the sessions on invitation only. The registration fee is \$30 for non-members and \$20 for members.

Members of the press will be admitted without charge but must register by March 25.

ports Branch, Federal Employees Health Division, in 1950, and later served as Chief of the Evaluation and Reports, and the Research Grant Branches of the Division of Hospitals and Medical Facilities.

The author of papers in the fields of vocational rehabilitation, hospital use, narcotics addiction, and statistical methods, Mr. Odoroff is a Diplomate of the American Board of Examiners in Professional Psychology in Counseling Psychology.

New Brochure Describes NIH Growth, Progress, Aims and Activities

The Department of Health, Education, and Welfare is responsible for about four-fifths of the Federal expenditure for medical research, according to a new brochure recently released by the Public Health Service entitled "The National Institutes of Health."

Other data in the publication which is being distributed to health agencies and research institutions, indicate:

- About 85 percent of the DHEW appropriations for medical research are invested in Public Health Service programs conducted and administered at NIH;

- About 80 percent of NIH appropriations are, in turn, awarded to non-Federal institutions such as medical schools, colleges, universities, hospitals, and other scientific institutions; and

- A total of 14,882 research grants were awarded to scientists in 1,198 such institutions in Fiscal Year 1962.

Dr. Luther L. Terry, PHS Surgeon General, said "the Public Health Service relies heavily on non-Federal advisory and consultative groups to assure that the direction and method of operation of the grants and awards programs are in the national interest.

"These groups of some of the Nation's leading scientists and public-spirited citizens help us carry out a philosophy that these programs are of and for the scientific community and in behalf of all of the people of the United States."

The 44-page publication contains up-to-date details about all components of NIH and summarizes its history.

Articles on each of the Institutes are presented in the brochure, including the newly activated National Institute of Child Health and Human Development and the National Institute of General Medical Sciences.

Listed as Public Health Service Publication No. 81, the brochure is for sale by the Superintendent of Documents, Government Printing Office, at 35 cents per copy.

Biomedical Engineering Seminar Announced

Biological Feedback Control Systems will be the subject of the fourth in a series of biomedical engineering seminars conducted by Dr. Fred Alt, Chief of the Instrument Engineering and Development Branch, Division of Research Services.

John K. Cullen, Jr., of IEDB, will introduce the subject, to be followed by an informal roundtable discussion.

The seminar, which is open to the public, will be held tomorrow (March 13) at 8 p. m. in Building



Girls in the Sleep-Tite pajama factory join "Pajama Game" heroine "Babe," played by Rebecca Barmack (seated on cart), in singing "I'm Not at All in Love." Left to right, back row: Pat Smith, Ann Meadows, Carolyn Grolman, Mrs. Barmack, Verece Silverman, Bonnie Friedman, Ruth Kahkonen, Barbara Weathers, and Mary Eilen Garber. In front are Dorothy Mathis, Janet Ginberg, and Barbara Ann Vargo.—Photo by John Blamphin.

PAJAMA GAME

(Continued from Page 1)

John Kinnamon, Anita Ash, Rebecca Barmack, and Murray Gould, all non-NIH employees—the cast includes Verece Silverman, DBS; Carol Long, CC; Bob Kavanaugh, ORI; Diane Johnson, NCI; Jeanette Love, NIAMD; and a singing and dancing girl chorus.

Mr. Sperling, the director, is Chief of the Patient Activities Branch, CC; the co-producers, Yvonne and Harold Miles, are from NINDB and the CC, respectively; the choreographer is Jerry Osborne, NCI; the stage director is Carl Robinson of Bethesda, and his wife, Mary Jo, is in charge of costumes.

There will be a special advance performance tomorrow night for Clinical Center patients.

Single free copies may be obtained by writing the Surgeon General, Public Health Service, Washington 25, D.C.

10, Rm. 1S213.

In his presentation, Mr. Cullen will discuss the application of operational analysis to the understanding of human nervous system functions. Primary emphasis will be placed on the "feedback" aspects of sensory inputs on the control of motor function.

Mr. Cullen also will consider extension of the system concept to other functions of the nervous system and will review some of the current experimental work utilizing this approach.

Olga Collier, NCI, Wins Performance Award

Olga S. Collier, Special Assistant to the Chief of the Endocrinology Branch, National Cancer Institute, received a cash award for sustained superior work performance on February 18.

Mrs. Collier won the award for her "exceptional interest in and capacity for discharging the responsibilities of her position."

Her citation said that "without prior instruction she evolved systems for patient recruitment and follow-up, the acquisition and storage of medical data, the control of traffic of medical specimens, and continued communication regarding patients' status with referring physicians and with patients' families."

Praised by Dr. Hertz

In presenting the award, Dr. Roy Hertz, Endocrinology Branch Chief, said, "Mrs. Collier conducts the business functions of the Branch with tact and efficiency. By skillfully organizing the work of those under her supervision she provides the staff with purchasing, filing and secretarial services of unique effectiveness."

"Mrs. Collier's name has become legendary around the Clinical Center," Dr. Hertz said, "because of her sensitivity to the personal needs of the patients and their families."

NINDB Is Broadening Its Grants Program Of Graduate Training

The National Institute of Neurological Diseases and Blindness has announced a broadening of its graduate training grants program to include career training in organized community health services and public health.

Support will be available to institutions offering postdoctoral training in four specialty areas—medical neurology, neurological surgery, ophthalmology, and otolaryngology.

NINDB has had for 12 years a program to support the training of physicians and scientists in these specialties who planned careers in research and teaching.

The expanded program, which reflects the national need for these specialists in organized community service and public health, is being conducted with the cooperation of the Neurological and Sensory Disease Program of the Bureau of State Services, PHS.

Fund Use Described

Funds from these graduate training grants will enable qualified institutions to develop or enrich training environments in these specialties and to support individuals in training.

All applications will be reviewed by the training grant review committees of NINDB and by the National Advisory Neurological Diseases and Blindness Council.

Additional information, advice and application forms (PHS-2499 Rev. 1-58) are available at these two offices:

Training Grants and Awards Branch, Extramural Programs, National Institute of Neurological Diseases and Blindness, National Institutes of Health, Bethesda 14, Md.; and Neurological and Sensory Disease Program, Bureau of State Services, U. S. Public Health Service, Wash. 25, D. C.



Dr. Roy Hertz, Chief of NCI's Endocrinology Branch, presents Olga S. Collier with a check for sustained superior work performance as other members of the Branch look on approvingly.—Photo by Jerry Hecht.