

the NIH Record

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

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NATIONAL INSTITUTES OF HEALTH

Dr. Lloyd W. Law, NCI, Awarded Research Prize At University of Perugia

Dr. Lloyd W. Law, National Cancer Institute, was awarded the Alessandro Pascoli Prize recently at the University of Perugia, Italy.

Dr. Law, who is with the Carcinogenesis Section, Laboratory of Biology, was honored for his stud-



Dr. Law was chosen for the award at the University of Perugia by his fellow conference members. The prize is named after a famous 17th century professor of anatomy and medicine.

ies on tumor antigens and the immune status of the host as major determinants in cancer induction and repression.

The prize, named for an outstanding 17th Century professor of anatomy and medicine, is given

(See DR. LAW, Page 7)

Twenty-One NIH Employees are Honored At Annual Awards Ceremony on June 30

Exemplifying their work as "public service at its very best," Dr. Robert Q. Marston, NIH Director, presented awards to 21 employees at the First Annual NIH Honor Awards Ceremony, on Monday, June 30, in the Jack Masur Auditorium of the Clinical Center.

The NIH Director extolled the award winners and said "they have accepted great challenges and responded to them in superlative fashion.

"I am proud of our accomplishments at the NIH and especially proud of our staff members who have excelled in a wide range of positions and activities: as scientists, program directors, administrators, and personnel managers.

Marston Lauds Winners

"Each of them has contributed materially to the progress of our research efforts at NIH. . . they have displayed an exemplary commitment to the aims of management, to the mission of NIH, and to the goals of the DHEW."

Richard L. Seggel, Associate Director for Administration, introduced the award winners, and read their citations.

Dr. John F. Sherman, NIH Deputy Director, ID Directors, and families of the honorees were among the guests attending the ceremony.

Before the awards presentation the Armed Forces Color Guard and the United States Navy Band performed.

Following are the award recipients:

Research in family planning, the effects of future population trends, and factors influencing the use of contraceptive methods will be surveyed.

Funds amounting to approximately \$3 million have been allocated to the contracts. Part of these funds—\$1.5 million—comes from the Agency for International Development which sponsors and supports family planning programs in developing countries.

"The specific goal of the research program is the development of an

(See PROGRAM, Page 4)

SUPERIOR SERVICE HONOR AWARDS

Harry C. Abernathy, assistant executive officer, BEMT, "For his dedication to the development and administration of the programs and policies of BEMT."

Scott Adams, deputy director, NLM, "In recognition of his outstanding record in the fields of medical librarianship and information science. . ."

Louis M. Carrese, associate director for Program Planning and Analysis, Office of the Associate Director, NCI, "For his vital contribution to the development and

(Continued on Page 7)

Engineers Shift to ODA In Partial Reorganization Of NIH Central Services

A partial reorganization of NIH's central services has been approved by DHEW, effective June 1, 1969.

It includes the establishment of an Office of Engineering Services under Richard L. Seggel, the NIH Associate Director for Administration.

The Division of Research Services will continue to provide professional and technical supporting services not related to buildings and facilities.

Has 3 Branches

In the reorganization, the Office of Engineering Services will consist of the Plant Engineering, Construction Engineering, and Engineering Design Branches.

Ross Holliday, former Associate Director for Engineering Resources, DRS, has been designated Acting Director of the new organization.

Dr. William B. DeWitt has been appointed Director of the Division of Research Services.

DRS functions will include the Biomedical Engineering and Instrumentation, Environmental Services, Medical Arts and Photography, Laboratory Aids, and Library Branches.

Dr. Egeberg Nominated For DHEW Ass't Sec'y Health, Science Affairs

Dr. Roger Olaf Egeberg, Dean of Medicine at the University of Southern California School of Medicine, was nominated June 28 to be DHEW Assistant Secretary for Health and Scientific Affairs.

Nationally known in the fields of medicine and medical education, Dr. Egeberg has served on numerous State and Federal medical advisory groups and commissions.

Among them were the Presi-



Dr. Roger O. Egeberg (left) and DHEW Secretary Robert H. Finch answer questions at a press conference on June 28 announcing the nomination of Dr. Egeberg as DHEW Assistant Secretary for Health and Scientific Affairs.—DHEW Photo.

dent's Panel on Narcotic Addiction (1962) and the President's Advisory Commission on Narcotic and Drug Abuse (1963).

He was chairman of the Governor's Committee for the Study of Medical Care and Health in California (1959-60). From 1964 to (See DR. EGEBERG, Page 5)

Cummings Attends U.S.-Japan Joint Conference on Libraries

Dr. Martin Cummings, Director, National Library of Medicine, recently attended the first Japan-U.S. Conference on Libraries and Information Science in Higher Education.

The purpose of the meeting, held in Tokyo, was to discuss cooperation and development activities, and also to encourage the exchange of views between senior professional librarians of both countries.

the NIH Record

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Major Issues Discussed At NIH Science Seminar

Major issues pertaining to undergraduate and graduate education and medicine were discussed at the recent 9th NIH Seminar on Science and Public Policy.

Participants included 21 senior members of the NIH extramural staff. Dr. Robert Q. Marston, NIH Director, and Dr. Lee A. Dubridge, White House Science Advisor headed the list of discussion leaders.

The basic reasons for discontent in the nation's medical schools were stressed by C. Clement Lucas, Jr., the outgoing president of the Student American Medical Association.

He believed that medical students assumed activist roles because a more mechanized society seems to overlook the well-being of the individual.

Other speakers taking part in the seminar were Dr. John F. Sherman, NIH Deputy Director; Dr. Leonard D. Fenninger, BEMT Director, and Fred Malek, Deputy Under Secretary, DHEW.

Also, Dr. Alice M. Rivlin, senior staff member, Brookings Institution; Dr. Ronald W. Lamont-Havers, associate director for Extramural Research and Training; Dr. Kenneth D. Roose, vice president of the American Council on Education, and Dr. Edmund D. Pellegrino, vice president for the Health Sciences, State University of New York at Stony Brook.

The seminar, conducted by Mel H. Bolster, Office of Personnel Management, is sponsored by the Committee on Staff Training, Extramural Programs.

Beckelheimer Wins First Prize in Bond Drawing

Melvin Beckelheimer, Office of Computer Engineering Services, National Library of Medicine, won first prize in the final bond drive drawing last week.

The \$100 savings bond was presented to Mr. Beckelheimer by members of the gift committee. Money for the bond was donated by The R & W Association of NIH.

Other winners drawn last week for the extra weekly prizes were J. P. Maccira, Division of Research Services; Rosa B. Young, National Library of Medicine, and Mary Bazyk, Clinical Center nursing staff.



Margaret LeSuer, laboratory technician, Rocky Mountain Laboratory, NIAID, Hamilton, Mont., receives a Superior Work Performance cash award from Dr. Herbert Stoenner, RML Director. She has been with RML since 1942, and is in charge of the Media Preparation unit.



Care of patients with midline granuloma and current research on this disorder were discussed by members of the CC's Allergy and Infectious Diseases Nursing Service at a recent conference. Principal speakers were (l to r): Lila Elaine Stiles and Virginia Weber, clinical nurses; Josephine Braz, head nurse, AID Nursing Service, and Dr. Anthony S. Fauci, clinical associate, NIAID. The conference is one of a series presented annually as part of the CC Nursing Department's continuing education program.

NIH Blood Bank Issues I/D Cards for FY 1970

On July 1 distribution of Blood Assurance Identification cards for Fiscal Year 1970 was made to NIH employees. If you have not received this identification card, call the NIH Blood Bank, Ext. 64506.

Under the NIH-American Red Cross Assurance Program, the card entitles the holder to benefits and protection. Blood needed by an NIH employee or his family is replaced at any hospital in the U.S. which accepts Red Cross blood or credit.

There is no charge for the blood; the protected employee just pays the hospital processing fee. Also, there are no limits as to quantity or restriction on the type of illness requiring blood.

Alfred R. Zipf Elected NLM Board Chairman

Alfred R. Zipf, executive vice-president of the Bank of America, has been elected chairman of the Board of Regents of the National Library of Medicine. He is the first non-physician to be elected to this post.

The Board of Regents serves as an advisory body to NLM's programs of acquiring and disseminating biomedical information.

Mr. Zipf's training and background include engineering and computer sciences, subjects of increasing interest to NLM.

He was appointed a member of the NLM Board of Regents in 1967 by the President of the United States, and confirmed by the U.S. Senate.

Mr. Zipf joined the Bank of America in Los Angeles in 1935. With an education award from the A. P. Giannini Foundation, he

NIH Television, Radio Program Schedule

Television

NIH REPORTS

WRC, Channel 4
Sundays—4:55 p.m.

July 13

Dr. Gordon C. Zubrod
scientific director for
Chemotherapy, NCI
Subject: Chemical Control of
Cancer (Part 1)

July 20

Dr. Gordon C. Zubrod
Subject: Same (part 2)

Radio

DISCUSSION: NIH

WGMS, AM-570—FM Stereo
103.5—Friday evenings—
About 9:15 p.m.

July 11

Dr. Heinz W. Berendes,
chief, Perinatal Research
Branch, NINDS
Subject: Problems of the
Perinatal Period

July 18

Dr. Marilyn Hutchison,
Division of Physician Man-
power, BEMT
Subject: Physician Man-
power Shortage

Both interviews take place during intermission, Marlboro Festival Concerts.

studied engineering at the University of California at Los Angeles from 1951 to 1953.

When he resumed his banking career he headed the group which installed the first large-scale, general-purpose computing system in any banking institution.

He was appointed to his present post in 1965.

Dr. Franklin Neva Joins NIAID in Dual Capacity

Dr. Franklin Allen Neva recently joined the staff of the National Institute of Allergy and Infectious Diseases in a dual capacity: he is assistant director of Intramural Research and head of the Laboratory of Parasitic Diseases.

In his first assignment, he will administer the Institute's Pacific Research Section and its Laboratory of Parasite Chemotherapy. And, under his leadership, the staff of LPD will conduct parasitology and tropical medicine studies.



Dr. Franklin Neva (r) is sworn in as the new assistant director of Intramural Research at NIAID. Officiating at the recent ceremony was Dr. John A. Seal, Director of the program.

Dr. Neva comes to NIH from the Harvard School of Public Health where, since 1964, he has been John LaPorte Given Professor of Tropical Public Health.

Dr. Neva has both a clinical medicine and science background.

He is a graduate of the University of Minnesota Medical School, and completed his internship and residency at Boston City Hospital.

As a U.S. Navy medical officer he served in Cairo, Egypt, before returning to the Boston area.

There, under two Harvard research fellowships, he studied typhus rickettsiae, viruses, and tissue culture techniques.

Teaches at Univ. of Pittsburgh

In 1953, he became assistant professor of research bacteriology, and instructor in research medicine at the University of Pittsburgh School of Medicine. He returned to Harvard in 1955.

In addition to his research and teaching duties, Dr. Neva has been a clinical consultant to Boston City Hospital.

Dr. Neva is a Diplomate of the National Board of Medical Examiners and the American Board of Internal Medicine.

In 1965 he was awarded the Bailey K. Ashford Medal by the American Society of Tropical Medicine and Hygiene. He has served as a member of the Board of Scientific Counselors of NIAID and of the NIH Study Section for Virus and Rickettsial Diseases.

5 NIH Employees Receive 1969 Training Awards for Academic Year of Study

By Judy Roberts
Information Trainee

Five administrators at the National Institutes of Health have been named winners of 1969 training awards—four received Career Education Awards and one received the Educational Program in Systematic Analysis Award.

The four CEA winners are William M. Koenig, Bureau of Health Professions Education and Manpower Training; Pauline H. Stephan, National Cancer Institute; William D. Vincent, Division of Computer Research and Technology, and Paul G. Waugaman, National Institute of Neurological Diseases and Stroke.

The EPSA winner is Joseph A. Brackett, Division of Research Grants.

13 Universities Participate

Both training programs give midcareer federal and state public officials an academic year of study. Eight universities participate in the CEA program and five in EPSA.

CEA was started by the National Institute of Public Affairs, in 1962, under a grant from the Ford Foundation. After this year the Civil Service Commission will be responsible for administering the program.

The purpose of CEA is to give potential high-level executives a chance to broaden their perspective and better understand the role of government in society.

Most of the universities offer a basic seminar in public affairs. It is designed especially for the CEA fellows. Other than this, award winners may enroll in the courses they wish.

Because the CEA program does not lead to a degree, participants



Mr. Koenig, BEMT

do not follow a particular degree curriculum.

Courses may be as varied as political science, economics, history, liberal arts, or physical and biological sciences.

The eight universities participating in CEA are Cornell University, Harvard University, Indiana University, Princeton University,



Miss Stephan, NCI

Stanford University, University of Southern California, University of Virginia, and University of Washington.

EPSA is similar to CEA but was set up to train public officials in systematic analysis techniques and their application to public programs.

EPSA is administered by the Civil Service Commission in cooperation with the Bureau of the Budget and NIPA.

Typical study programs include
(See *ACADEMIC*, Page 6)

Dr. Leiter, Scott Adams Discuss NLM Functions At International Meeting

"Today's librarian is not someone looking after a collection of books, but someone who is handling knowledge and information..." With these words Prince Bernhard of the Netherlands opened the Third International Congress of Medical Librarianship, recently held in Amsterdam.

Scott Adams, deputy director, National Library of Medicine, and one of the two honorary presidents of the Congress, followed Prince Bernhard's speech with a review on the progress of medical library resources.

He explained that "... The number of newly founded medical libraries have grown with each year. Interlibrary loans among countries are increasing. We have developed programs to share the costs internationally of cataloging the books and journals we receive. . . ."

Dr. Joseph Leiter, associate director for Library operations, NLM, was also one of the speakers at the international meeting. He presented an analysis of MEDLARS, NLM's computer-based information system.

New Device Measures Soft Palate Movement; May Aid Speech Therapy

Dr. R. L. Christiansen, National Institute of Dental Research, has developed and tested a new instrument that directly measures and continuously records the motion of the soft palate during speech and other functions.

The device also analyzes the elevation of the soft palate toward the back of the throat, and it may aid in speech training.

The new procedure requires no radiation. It is an alternate to two usual methods of palate motion analysis: comparing frames taken during X-ray motion pictures (direct) and measuring air pressure and flow (indirect).

Dr. Christiansen explained that his device is particularly useful in cleft palate cases because it instantaneously makes a continuous, sensitive recording of even slight motions of the soft palate during any palatal function.

Instrument Explained

The instrument uses a displacement transducer assembly, in which an orthodontic band affixes the instrument firmly to a back tooth. The transducer frame is a thin rectangular plate of spring steel protected from tongue movements by a heavy wire guard.

The strain gages cemented to this plate are wired to an amplifier and recorder so that slight bending of the plate will be automatically recorded as a wave by a needle moving across a strip of paper.

A thin sensor wire is fastened to the plate, the tip contacts the spot of the soft palate that is to be measured.

This finger spring sensor is adjusted so that when the soft palate is at rest, the transducer plate is in the loaded position.

As the soft palate rises toward the back of the throat the trans-

(See *PALATE*, Page 7)

Eight Blood Donors Reach One Gallon-or-More Status

The Clinical Center Blood Bank reports that eight of its donors have achieved a special status:

Eddie G. Powell, ODA, reached the 3-gallon mark, and Dr. Carl A. Kuether, NIGMS, attained the 2-gallon mark.

Gordon C. Gamble, CC; Nicholas C. Moriarty, Jr., DRG; Frank A. Lassak, NIGMS; Dr. George E. Sheele, NIAMD; Dr. John Venditti, NCI, and Wynette White, NINDS, joined the Gallon Donor Club.

More blood is needed. Call the Blood Bank, Ext. 64506, to make an appointment.

NIH Ham Operators Have a Field Day Under Simulated Emergency Conditions

The NIH "hams" had a real field day!

On June 28 and 29 the NIH Radio Amateur Club took part in a Field Day contest sponsored by the American Radio Relay League (ARRL), the amateurs' own society in this country and Canada.

NIH amateur radio operators as well as thousands of other hams worked under simulated emergency conditions for 24 hours.

ARRL contest rules encouraged use of non-commercial power. "Hams can use any kind of power that they can get their hands on, like batteries or emergency generators," said Dr. Jimmy Scott, assistant secretary-treasurer of the club.

The NIH station, K3YGG, used generators operated by the Plant Engineering Branch. Under these conditions, NIH hams tried to contact as many other fellow hams as possible.

Logs Maintained

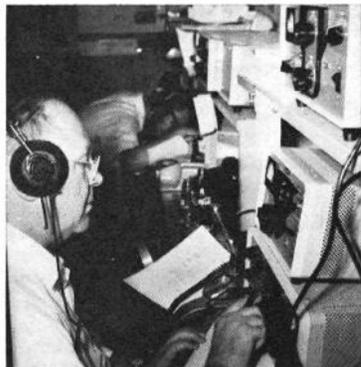
They carefully kept logs of the operators they contacted, a Federal Communications Commission regulation. They also sent their list of contacts to the amateur radio magazine, *QST Journal*, which publishes the names of winners.

The purpose of the contest was not only to provide fun and rivalry, but to simulate emergency conditions.

Hams try to help whenever there is need to handle messages from Civil Defense, the Red Cross, or other emergency operations.

During this period amateurs acquired training experience and learned how long fuel would last in the emergency generators if there were need for such power.

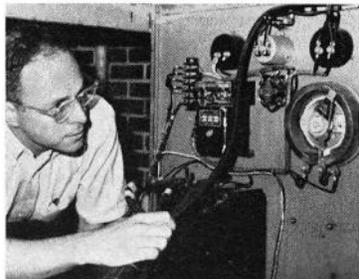
Because NIH ham operators



A 24-hour vigil can be tiring, Dr. Jimmy Scott discovers, as he catches a cat nap. Bernard Burr is on the job searching for contacts.

have their equipment permanently set up in the NIHRAC "shack," they had easier working conditions than the mobile and portable ham operators.

On Field Day, amateur operators turned the country into one



Dr. William Hook takes a last quick check on the emergency power generator to make sure everything will be all right on Field Day.

Army Band to Give Concert On CC East Patio July 17

A concert for Clinical Center patients by the First Army Band will be presented Thursday, July 17, at 7:30 p.m., on the patio east of the Jack Masur Auditorium.

In case of rain, the concert will be held in the auditorium.

NIH employees, their families and friends, are cordially invited, but patients will have priority in seating.

Arrangements were made by the CC Patient Activities Section.

giant picnic ground. Hams waited until the moment the event started to get their equipment ready. Mobile operators threw their equipment and a sandwich into cars and raced to higher ground for better reception.

Those who simulated emergency conditions and waited until the hour in which the event began—3 p.m. Saturday—received a 3-hour bonus in addition to the normal 24-hour period.

Set-Up Is Permanent

Since the NIH ham radio station is a permanent set-up and since, as Nathan Coffey, NIHRAC president said, "it takes only a flick of the switch" to cut from commercial to generator power, K3YGG operators permitted themselves only the normal 24-hour operating time.

Not only did the hams feel this was important practice, but they were spurred by rivalry. As many as a dozen clubs pooled their equipment to increase their number of radio contacts for the event.

Besides Mr. Coffey, NCI, and Dr. Scott, NIMH, other club members who aided in keeping the station in operation during the entire 24 hours were Dr. William Hook,

Framingham Heart Study Issues Research Results On Coronary Diseases

The results of a research project on cardiovascular disease, undertaken by the Framingham Heart Study, part of the National Heart Institute, have been published in a series of monographs. Sections 9-22 have now been completed.

For the study—under way since 1949 at Framingham, Mass.—over 5,000 men and women, ages 30-62, were examined every 2 years for the development of cardiovascular disease.

Certain traits in coronary prone adults were detected. These traits, such as cigarette smoking, high blood pressure, elevated serum cholesterol, and sedentary living, are associated with excess risk of developing heart disease.

The series of monographs entitled *The Framingham Heart Study: An Epidemiological Investigation of Cardiovascular Diseases* was edited by Dr. William B. Kannel, Director of the Framingham Heart Study, NHI, and Tavia Gordon, Biometrics Branch, NHI.

Sections Described

Section 9 gives the distribution by age and sex of 22 different characteristics, such as blood pressure, serum cholesterol, etc.

The other sections give the incidence of a specific cardiovascular disease by age and sex according to these characteristics.

The disease categories, by section, are as follows:

Section 10, *Coronary Heart Disease*; Section 11, *Myocardial Infarction*; Section 12, *Uncomplicated Angina Pectoris*; Section 13, *Sudden Death from Coronary Heart Disease*; Section 14, *Non-Sudden Death from Coronary Heart Disease*; Section 15, *Cerebrovascular Accident*; Section 16, *Brain Infarction*; Section 17, *Intermittent Claudication*; Section 18, *Congestive Heart Failure*; Section 19, *Death*; Section 20, *Death from Coronary Heart Disease*; Section 21, *Death from Cardiovascular Disease other than CHD*; Section 22, *Death from Cause other than Cardiovascular Disease*.

Copies of each section can be purchased for \$1.50 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

NIDR, secretary-treasurer; Frank Noble, NHI, club trustee; Bernard Burr, NCI; Dr. Harry Bluestein, NIAID; Dr. Karl Frank, NINDS; Dr. John Lynch, CC; Samuel Windham, CC, and Dr. Warren Zapol, NHI.

Employees interested in NIHRAC may obtain additional information from Mr. Coffey, Ext. 61221, or Dr. Hook, Ext. 62608.

Dr. Richard Gaufin Joins DRG Grants Associates

Dr. Richard F. Gaufin joined the NIH Grants Associates Program on June 16.

This program, administered by the Division of Research Grants, provides a year of training in science administration.

Dr. Gaufin came to the program from Cornell University where he was a research associate in the Department of Entomology and Limnology.

Dr. Gaufin graduated from the University of Utah with a B.S. degree in zoology in 1961, an M.A. degree in zoology (fisheries biology) and sanitation biology in 1964, and a Ph.D. degree in zoology (limnology) and sanitation biology in 1967.

Dr. Gaufin has been assistant or principal investigator on several research projects. These included ecological effects of herbicides in ponds and accumulation and distribution of pesticides in aquatic systems.



Margaret L. DeVore (l), and Jon F. Carow, Research Grants Processing Section, NHI Extramural Programs, receive an Employee Suggestion Award from Ernestine Taylor, chief of Operations Branch, for setting up and developing an IBM charge-out system for handling file folders of active and inactive research grants.

PROGRAM

(Continued from Page 1)

array of contraceptive methods which are effective, safe, reversible, inexpensive, and suited to the diverse requirements of the world's varied population groups," Dr. LaVeck said.

"The newly funded contracts are designed to clarify the processes involved in reproduction and to suggest means of altering these processes for the purpose of controlling fertility. From this information, new contraceptive methods will be developed, their medical effects will be assessed, and improvements in new and old methods undertaken."

The contraceptive development contracts deal with research in four areas: Maturation and fertilizing capacity of spermatozoa; Oviduct function and gamete transport; Corpus luteum function; and the biology of the pre-implantation ovum.



Hannah M. Twombly (l), a secretary in the Neurology Nursing Service, CC, receives congratulations and a cash Employee Suggestion award from Elizabeth Edwards, chief of the Service. Mrs. Twombly redesigned a statistical report form used in the nursing service that will save over 10,200 sheets of paper annually.

'Color Us Black' Rescheduled For Showing at CC, NLM

"Color Us Black," a film about the student protest at Howard University in the spring of 1968, will stage a repeat performance. The motion picture is part of the NIH Film Forum on Race Relations conducted by the Training and Employee Development Branch.

It will be shown on Wed. and Thurs., July 16 and 17, at 12 noon in the Jack Masur Auditorium, Clinical Center.

On Friday, July 18, it will be presented at 11:45 a.m. and 12:45 p.m., in the National Library of Medicine auditorium.

Scientists Explode Jack Sprat Theory—Steak, Not Starch, May Be Calorie Culprit

When steaks or starches are the choice, teenage girls overestimate calories in the starchy foods and underestimate them in the meat. This notion may be tipping the scales to keep fat girls (and boys) fat.

This research, aided by a grant from the National Institute of Arthritis and Metabolic Diseases, was undertaken by two Harvard scientists, Dr. Johanna T. Dwyer and Dr. Jean Mayer, Department of Nutrition, Harvard School of Public Health.

Will Direct Conference

Dr. Mayer was recently appointed Special Consultant to the President to organize and direct a White House Conference on Food, Nutrition and Health. It will be held in late October.

The scientists studied senior girls from two Massachusetts high schools.

In one investigation, 130 girls, told that a pat of butter contained 50 calories, estimated calories in pat-sized portions of 10 different foods.

The girls overestimated the calories in sweets and starches, underestimated them in meats and eggs.

Then, 446 girls estimated cal-

Treatment for Lesch-Nyhan Syndrome Given to Twins Lessens Disease Effects

From the moment of their birth 7 months ago, twin boys in Wisconsin have been receiving medical treatment, the first of its kind, to lessen the effects of a rare sex-linked genetic disease.

The fact that they would have the disease was learned early in the mother's pregnancy.

The achievement was reported in the June 13 issue of *Science* by a group of University of Wisconsin scientists headed by Dr. Robert DeMars.

Their work is aided by a genetics research grant from the National Institute of General Medical Sciences.

Both boys are affected by an inherited disease known as the Lesch-Nyhan syndrome.

The abnormality is transmitted genetically by a carrier mother who has one normal X chromosome and one X with a mutant gene in a manner similar to the way the blood disease hemophilia is transmitted.

Manifestations of the disease in males include excessive uric acid in the blood, neurological deficiency and self-destructive behavior often expressed by a vicious biting of lips and fingers.

In the past, most children with the disease have died early, but with comprehensive care some are now living into their teens.

The new developments stem from work undertaken several years ago in the laboratory of Dr. J. E. Seegmiller at the National Institute of Arthritis and Metabolic Diseases.

Further research by the Wisconsin scientists showed that women heterozygous for the disease (carriers) could be identified.

This is done by culturing cells from a tiny skin biopsy and exposing them to a radioactive-labeled chemical, hypoxanthine.

Carrier women have two types of cells, normal and abnormal. The normal cells take up the radioactive chemical, the others do not.

Dr. DeMars and his associates were studying a woman whose family history suggested she might be a carrier of the Lesch-Nyhan mutant gene.

During the 22nd week of pregnancy cells from the amniotic fluid showed the embryo would be male, because of the presence of only one X chromosome. Chemical tests of the cells further showed that the child (the presence of twins was not then determined) would have the basic defect.

The geneticists found the mutant



Dr. Demars and Dr. Janet Felix with other U. of Wisconsin researchers have made the first pre-birth diagnosis of a Lesch-Nyhan victim. Circle shows microphotos of normal amniotic fluid cells (l) and Lesch-Nyhan mutant cells (r). Dark spots in normal cells reflect absorption of radioactive hypoxanthine, deficient in L-N patients, contrasting with little uptake in mutant cell strain.

cells failed to grow unless the culture medium was supplemented with adenine or high levels of folic acid, a dietary substance necessary for normal metabolism which also is involved in the body's production of adenine.

The researchers promptly started therapy with adenine and folic acid following birth of the twins. Although they say results thus far are encouraging, they emphasize that it will be several years before the full effectiveness of such therapy can be assessed.

DR. EGEBERG

(Continued from Page 1)

1967, Dr. Egeberg was a member of the National Advisory Cancer Council.

Dr. Egeberg was graduated from Cornell University in 1925 and received his M.D. in 1929 from the Northwestern University School of Medicine. He interned at Wesley Hospital in Chicago and completed his residency in internal medicine at the University of Michigan Hospital in Ann Arbor in 1932.

Serves at VA Hospital

After practicing internal medicine in Cleveland for 10 years, Dr. Egeberg served in the U.S. Army Medical Corps from 1942 to 1946. During his military career, he was the personal physician and aide de camp to Gen. Douglas MacArthur from 1944 to 1945.

After the war, from 1946 to 1956, Dr. Egeberg was Chief of Medical Services at the Veterans Administration Hospital in Los Angeles. From 1956 to 1958 he was Medical Director of the Los Angeles County Hospital.

Dr. Egeberg was Clinical Professor of Medicine at the University of California at Los Angeles from 1948 to 1964, and Professor of Medicine at the University of Southern California from 1956 until named Dean of the School of Medicine there in 1964.

He is a Diplomate of the American Board of Internal Medicine, a Fellow of the American College of Physicians, and a member of the American Clinical and Climatological Association, California Society of Internal Medicine, American Medical Association, California-Los Angeles Medical Association, and Alpha Omega Alpha.

NIAMD Booklet, Exhibit Show Activity Scope

An exhibit and booklet on the activities of the National Institute of Metabolic Diseases is being shown at the 22nd World Health Assembly which opened yesterday (Tuesday, July 8), in Boston.

The exhibit portrays the scope of NIAMD's research which includes diseases of the digestive system and endocrine disorders.

The 24-page booklet, NIAMD's first program brochure, contains 21 illustrations.

There also is the possibility, now, that such treatment could be commenced prenatally, through the mother.

They stress the fact that women in families having a history of Lesch-Nyhan disease can be examined and alerted if they are carriers, and told early in pregnancy if an affected son is to be born.

Experimental Heart Assist 'Space Suit' May Save Lives of Heart Attack Victims

A heart assist device, which looks like a space suit, may one day save the lives of heart attack victims.

What could be the predecessor of such a circulatory assist suit is presently being evaluated by physicians at the Southwestern Medical School at the University of Texas.

The experimental suit, developed and built by Hamilton Standard, uses pressure cuffs to compress and release arm and leg arteries in synchronization with the heart to assist blood circulation, reducing the heart's workload.

Funded by NHI

The sequence pulsation suit was developed under a research program funded by the National Heart Institute, and was reported at a recent NHI Artificial Heart Program Conference.

The positive-pressure suit completely covers the patient and, unlike present circulatory assist devices, does not require surgical attachment to the patient. The torso section, which has a clear plastic face plate, is supplied with air for breathing purposes, and pressurized.



The positive-pressure suit completely covers the patient and does not require surgical attachment. The torso section has a clear plastic face plate and is supplied with air for breathing purposes.

ing and ventilating the suit.

The device is fabricated out of rubberized nylon and has a zipper down the front to allow easy and rapid donning. The arm and leg pressure cuffs are fitted to the patient in sections and fastened by Velcro straps.

An electric-pneumatic pump triggered by electrodes attached to a patient's chest or arms synchronizes the cuff pressure action to the heart beat. Pressure is applied to the cuffs when the heart is at rest and is released when the heart begins to beat, resulting in external counterpulsation.

A representative from Hamilton

Dr. Frank Falkner Named NICHD Associate Dir. For Program Planning

Dr. Frank Falkner has been appointed associate director for Program Planning and Evaluation of the National Institute of Child Health and Human Development. Since January 1969, he has been acting associate director.

Dr. Falkner came to NICHD in 1968 from the University of Louisville's Department of Pediatrics. He was head of the department and professor of Pediatrics, and chief of Staff of the Louisville Children's Hospital.

He attended Cambridge University and the London Hospital Medical College in England. Dr. Falkner received his medical degree in 1945.

DCRT Plans Computer Training Courses in Fall

The Division of Computer Research and Technology is expanding its educational program for the Fall term. New courses will be offered to programmer trainees and administrative personnel.

There will also be courses for scientists and advanced programmers.

A brochure, *Computer Training Courses*, describing both the courses and registration procedures, will be available in August. It can be ordered from the Documentation Office, DCRT, Bldg. 12, Rm. 2245, Ext. 65431.

Instruction on computers and computer programming from a self-teaching text is available to students who cannot attend regular courses during the working day. Information about these courses can also be had from the Documentation Office.

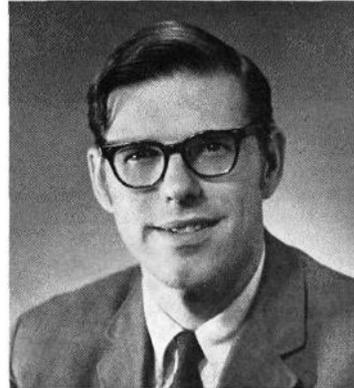
Dr. English Appointed

Dr. James A. English, Dean, School of Dentistry, State University of New York at Buffalo, has been appointed to the National Advisory Dental Research Council for a 4-year term.

Standard, a division of United Aircraft Corporation, explained that techniques developed in its 7 years of space suit work for the National Aeronautics and Space Administration and Air Force were applied to the design and fabrication of the sequenced pulsation pressure suit.

ACADEMIC

(Continued from Page 3)



Mr. Waugaman, NINDS

courses and seminars in microeconomics, quantitative methods, public expenditure theory, and systems analysis.

Most EPSA universities also require a basic seminar in systematic analysis.

The five universities participating in EPSA are the University of California (Irvine), Harvard University, University of Maryland, Massachusetts Institute of Technology, and Stanford University.

Gov't Pays Tuition

Both training award programs are made possible through the Government Employees Training Act.

Award winners continue to receive their salaries from their agencies while in school, and tuition and fees are paid by the federal government.

NIH applicants for the programs are screened by the NIH Administrative Training Committee. The committee makes recommendations



Mr. Vincent, DCRT

to the NIH associate director for administration. In turn, nominations are submitted to DHEW. After further screening, final selection is made by the Civil Service Commission and NIPA.

William Koenig and Paul Waugaman are both going to Indiana University.

Mr. Koenig is chief of the Pol-

icy and Procedures Branch of DHMES. He has been with BEMT since it was created in 1967. Prior to that he held other positions in PHS relating to training grant activities.

He is a 1957 graduate of Nebraska Wesleyan University with a B.A. degree in political science.

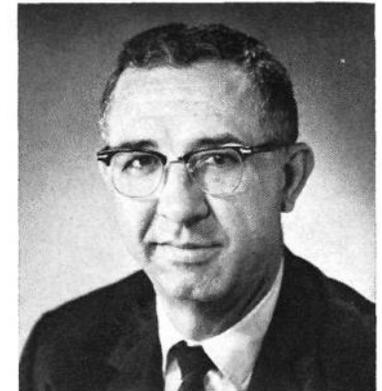
Mr. Waugaman is administrative officer for collaborative and field research for NINDS. He came to NIH as a management intern in 1961.

Education Noted

He received both his B.A. in Political Science and an M.A. in Public Administration from American University.

William Vincent will attend the University of Washington in Seattle. He is a computer systems analyst for DCRT.

Before coming to NIH, he was a mathematician for the Navy and the National Aeronautics and Space Administration. Mr. Vincent



Mr. Brackett, DRG

is a 1962 graduate of North Carolina A & T State University with a B.A. degree in mathematics.

Pauline H. Stephan, staff assistant to the associate director for NCI Extramural Programs, will spend her year at Stanford University. She is executive secretary of the National Advisory Cancer Council's Subcommittee on Carcinogenesis and Prevention. She also serves as NCI liaison to the Regional Medical Programs.

Miss Stephan received her B.A. degree from the University of Massachusetts. She holds a Registry in Occupational Therapy from the Army Medical Corps.

Mr. Brackett to Attend MIT

Joseph Brackett is going to Massachusetts Institute of Technology. He is assistant chief of the Statistical Analysis and Surveys Section of the Statistics and Analysis Branch, DRG.

Mr. Brackett is a graduate of the University of Texas.

He received both his B.A. and M.A. in economics from that university.

1st Annual NIH Awards Ceremony Held June 30

(Continued from Page 1)

successful planning of large-scale complex targeted research enterprises."

Dr. Albert J. Dalton, chief, Viral Biology Branch, NCI, "... notable and imaginative leadership in the advancement of education and research devoted to the study of the ultrastructure of normal and neoplastic tissues."

James B. Davis, Director, Office of Administrative Services, OD, "In recognition of his imaginative and dedicated service in support of the bio-medical research community of NIH."

Contributions Praised

Dr. Mortimer M. Elkind, senior research physicist, Laboratory of Physiology, NCI, "For his outstanding contributions to research in radiobiology."

Dr. Samuel W. Greenhouse, chief, Epidemiology and Biometry Branch, NICHD, "... contributions to the health research field particularly in his pioneering application of statistical methods and theories to the social sciences."

Richard L. Hopkins, chief, Grants and Contract Management Branch, Office of the Associate Director for Program Services, NICHD, "For his skills in developing and implementing new and broader concepts of grants and contract management..."

Jane F. Knapp, program analyst, OD, DRG, "For important contributions to the research mission of NIH..."

Dr. Mortimer B. Lipsett, chief, Endocrinology Branch, NCI, "For his outstanding contributions to endocrinology research and leadership..."

Other Citations Listed

Dr. Stephan E. Mergenhagen, chief, Immunology Section, Laboratory of Microbiology, NIDR, "For his continuing fundamental contributions to the understanding of the pathogenesis of periodontal disease."

Dr. Marie Ussing Nylen, acting chief, Laboratory of Biological Structure, NIDR, "For directing superlative research investigations on the structure, properties and chemical composition of tissues, cells, and cell products..."

Dr. S. Stephen Schiaffino, chief, Research Grants Review Branch, DRG, "For maintaining efficiency and continuity in DRG operations..."

Dr. John R. Seal, director of Intramural Research, NIAID, "... scientific leadership in the development of new intramural research programs and at Seato-Cholera Research Laboratory in Pakistan."

Dr. Trygve W. Tuve, chief, Research Training Grants Branch, NIGMS, "In recognition of policies he developed and implemented which increased effective use of

training grant funds..."

Dr. Theodor von Brand, head, Section on Physiology and Biochemistry, Laboratory of Parasitic Diseases, NIAID, "For meritorious research on the chemical composition and metabolism of parasites."

MERITORIOUS SERVICE AWARDS

Dr. Joseph A. Gallagher, Assistant Surgeon General, deputy director, BEMT, "... organization and administration of BEMT and for his continued outstanding performance and contributions to the health of the Nation."

Dr. Paul H. Keyes, dental director, Laboratory of Biological Structure, NIDR, "... outstanding contributions to the identification of cariogenic streptococci which now serves as the critical turning point in modern caries research."

Exceptional Skills Cited

Boyd W. Stephenson, assistant to the director for Commissioned Officers, OD, "... exceptional skills and valuable contributions to the personnel missions of NIH and PHS..."

COMMENDATION MEDAL

Dr. William A. Walter, Jr., deputy associate director for Extramural Activities, NCI, "... continuing excellence and highly significant contributions to the grants, training, and awards program of NCI."

CERTIFICATE OF HONOR as a DHEW Nominee from the Federal Woman's Awards Committee:

Dr. Ruth M. Davis, Director, Lister Hill National Center for Biomedical Communications and associate director for Research and Development, NLM, "... exceptional initiative and productivity and for her services as an outstandingly creative innovator in the application of communication sciences technology to government..."

(See AWARD WINNERS, Page 8)

Engineering Goals in Biology, Medicine Discussed

Proceedings of a conference on *Future Goals of Engineering in Biology and Medicine*, sponsored by the National Institute of General Medical Sciences, are now available.

The 357-page volume covers a 2-day international conference held September 1967 in Washington, D.C.

It was edited by two NIGMS staff members: Dr. James F. Dickson III, program director, Engineering in Biology and Medicine, and Dr. J.H.U. Brown, associate director, Scientific Programs.

The book includes papers by 37 participants and discussions by more than 80 engineers, physicians, and scientists on how engineering science may be applied to biomedical research to meet health needs.

The conference participants, spe-



Jordan Bryan (l) recently retired after 31 years with SMB. He was one of the first employees on the reservation. At a reception he receives best wishes and a farewell gift from friends, presented by James B. Davis, OAS Director. Mr. Bryan's wife, an SMB employee, shares the happy occasion.

DR. LAW

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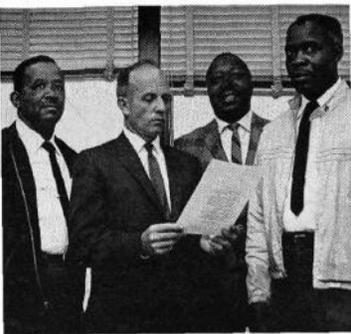
every 4 years—it has been awarded only 4 times. In 1965 another NCI scientist, Dr. Walter E. Heston, chief of the Laboratory of Biology, won the prize.

The award was given to Dr. Law at a conference on immunity and cancer sponsored by the Division of Cancer Research of the university's medical school. He was chosen for the award by his fellow conference members.

Dr. Law, who served as chairman of one of the sessions, delivered a paper, "The Immune Status of the Host and Virus-Specific Tumor Antigens in Oncogenesis."

Other NCI scientists who attended and addressed the conference were:

Dr. Harold L. Stewart, chief, Biology Branch; Dr. Robert J. Huebner, chief, Viral Carcinogenesis Branch; Dr. Thelma B. Dunn, head, Cancer Induction and Pathogenesis Section, Laboratory of Pathology, and Dr. Gregory T. O'Connor, Pathologic Anatomy Branch.



Grover T. Fletcher, head, Housekeeping Services Section, OAS, reads the Employee Suggestion Award citing Matthew Smith, foreman, James Rose, day cleaning unit supervisor, and Junius Seay, assistant supervisor. They developed an apparatus for washing glass shields for light fixtures, cutting time for cleaning 1800 shields from 640 to 84 manpower hours.

PALATE

(Continued from Page 1)

ducer becomes unloaded, and a change in voltage occurs which appears graphically on the paper strip.

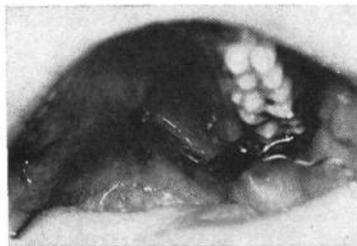
The voltage varies directly with both the load in grams and the distance in millimeters whether the person is blowing soundlessly, making a particular noise, or speaking continuously.

Microphone Attached to Recorder

The assembly is used in conjunction with a chest microphone also attached to the recorder so that it is possible to tell exactly when speech starts and how long it lasts. This is then compared to the movement of the soft palate.

The instrument does not interfere with the palatal function under study, and it makes a permanent performance record.

The equipment may be helpful in training people to develop sufficient muscular control to voluntarily raise the palate to a particular level. This would be a great help in speech therapy.



Transducer assembly of an analyzer of soft palate motion is attached to upper left rear molar in position to record any movement. The shelf-like structure at the bottom of the picture is the tongue. The two dark dots in the upper third of the picture are the foveae palatinae in the midline of the hard palate.

21 RECIPIENTS HONORED AT FIRST ANNUAL NIH AWARDS CEREMONY

Superior Service Honor Awards



Mr. Abernathy



Mr. Adams



Mr. Carrese



Dr. Dalton



Mr. Davis



Dr. Elkind



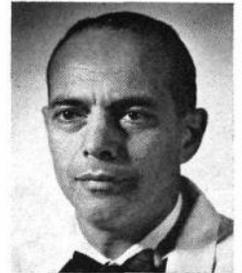
Dr. Greenhouse



Mr. Hopkins



Mrs. Knapp



Dr. Lipsett



Dr. Mergenhagen



Dr. Nylén



Dr. Schiaffino



Dr. Seal



Dr. von Brand



Dr. Tuve

Meritorious Service Medals



Dr. Gallagher



Dr. Keyes



Mr. Stephenson

Commendation Medal



Dr. Walter

Certificate of Honor



Dr. Davis