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# Record

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

June 13, 1978  
Vol. XXX, No. 12

NATIONAL INSTITUTES OF HEALTH

## There Is No Copyright In 'U.S. Gov't Works' According to New Law

Publishers are continuing to ask NIH authors to sign forms assigning copyrights in articles, and some authors are continuing to puzzle over whether they should sign.

An NIH author should not sign such a form if the article was written as a part of official duties. Such an article is a "U.S. Government work," as it is described in the new Copyright Act, according to the NIH Office of Communications.

Instead of signing the form, the NIH author should advise the publisher that the article is not copyrightable. (See box on page 11 for suggested letter.)

Journal publishers routinely ask authors to assign copyrights because of provisions of the new Act. Except for Government employees, most authors now have a U.S. copyright the instant an article is written. This copyright remains with the author unless formally assigned to someone else.

(See COPYRIGHT LAW, Page 11)

## Employees Honored

The Tenth Annual NIH Honor Awards Ceremony will be held on Monday, June 26, at 1:45 p.m. in the Masur Auditorium.

An article citing the outstanding accomplishments of NIH employees begins on page 5.

## Dr. Floyd S. Doft Dies; Well-Known Nutritionist Was NIAMDD Director



Dr. Floyd S. Doft

Dr. Floyd S. Doft, 78, former Director of the National Institute of Arthritis, Metabolism, and Digestive Diseases for 10 years prior to his retirement in 1962, died of pneumonia recently at the Bethesda Naval Medical Center.

A memorial for Dr. Doft will be held Thursday, June 22, at 1 p.m. in the 14th floor chapel of the Clinical Center.

After retiring from NIH, he served as a member of the Nutrition Board of the National Research Council and visiting professor at the Albert Einstein College of Medicine in New York City.

(See DR. DOFT, Page 9)

## DES TASK FORCE

### Report Recommends Physicians/Patients Be Alerted to Carcinogenic Potential

Although a statistically significant relationship between the use of DES (diethylstilbestrol) during pregnancy and the risk of cancer in mothers has not been established, the DES Task Force has serious concern about the carcinogenic potential of DES in these mothers.

In its first report sent to Dr. Julius Richmond, HEW Assistant Secretary for Health, on May 30, the Task Force recommended that its concern be transmitted through professional and public media to reach all physicians and women exposed to DES during pregnancy.

#### Should Inform Patients

Physicians should be encouraged to inform their patients of previous DES exposure and to inquire about such exposure when taking medical histories. Women aware of such exposure should notify their physicians.

The Task Force is headed by Dr. Diane J. Fink, director of the National Cancer Institute's Division of Cancer Control and Rehabilitation.

The report covers only one aspect of the DES issue—the question of whether mothers exposed to DES or similar drugs during their pregnancies are at higher-than-average risk of developing breast or other hormone-related cancers.

Dr. Robert Hoover, head of the NCI Environmental Studies Section, was the chairperson of this

#### WHA Meeting in Geneva: See Report in Next Issue

The 31st World Health Assembly was held in Geneva, Switzerland, May 8-24. HEW Secretary Joseph A. Califano, Jr., headed the U.S. delegation and addressed the Assembly May 9.

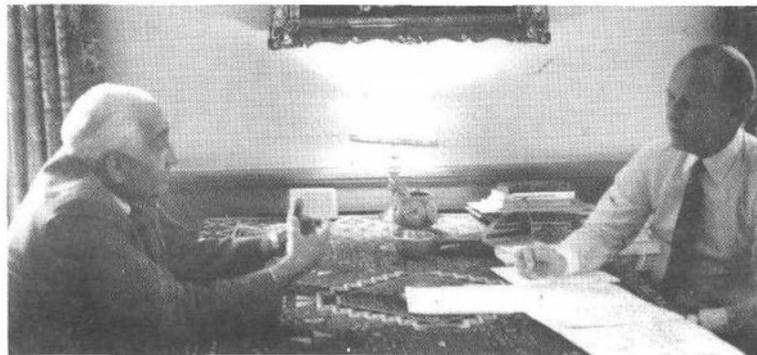
By a unanimous vote, Dr. Halfdan Mahler was elected to a second 5-year term as Director General of the World Health Organization.

Approximately 110 delegates addressed the plenary sessions at the 16-day conference.

NIH Deputy Director Thomas E. Malone and National Eye Institute Director Dr. Carl Kupfer served as advisors to the U.S. delegation.

A summary of Secretary Califano's speech and of the major issues and discussions presented at the WHA will be included in the next Record.

part of the Task Force assignment. Symptom-free DES mothers should be urged to have the regu- (See DES REPORT, Page 12)



Dr. George Hatem (far l and far r) visited NIH on June 6-7. Dr. Hatem was born in Buffalo, N.Y., graduated from the University of North Carolina, and studied medicine at the American University of Beirut, Lebanon, and at the University of Geneva, Switzerland. In 1933 he began a world tour and settled in Shanghai. Later he joined the Communist movement in Yanan and met Mao Tse-Tung. He has recently served on the staff of Fu Wai Hospital as a



representative of the Ministry of Health. With his wife, former film star Su Fei, he is now visiting the U.S. for the first time in more than 40 years. While at NIH he discussed with NIH Director Dr. Donald S. Fredrickson and B/I/D Directors China's efforts to establish public health standards and to eliminate venereal disease. He also presented a Chinese medical text to the National Library of Medicine.

# the NIH Record

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## Summer Employees Offered Wide Variety Of Training Courses

The 1978 Summer Training Program is under way and course information is contained in the NIH Personnel Handbook 410-5, *Course Guide for Summer Training*, with complete descriptions, dates, times, and locations.

All summer employees are eligible for training except those working under the American University High Ability Science Student Program.

Any summer employee wishing to attend a training course should complete the nomination form contained in the Handbook, have his/her supervisor sign the form, and be sure the B/I/D program manager has the form by June 26.

Offered this year are:

### Courses

ABC Stenoscrypt  
Advanced Computer Programming  
Advanced Laboratory Techniques  
Basic Laboratory Techniques  
Career Life Planning  
Human Relations  
Introduction to Computer Programming  
Introductory Laboratory Mathematics  
Laboratory Animal Science  
Lift-Truck Operation  
Medical Terminology  
Office Procedures  
Proofreading and Spelling  
Refresher Typing  
Speech and Communication  
Speed and Efficient Reading  
The Metric System  
Truck Driving  
TV Production Workshop  
Writing and Editing  
*Individual Learning Center Courses (Self-Study)*  
Introduction to Computer Mathematics  
Basic Electrical Troubleshooting  
Elementary Electronics  
Improving your Punctuation  
Improving your Writing  
Sentences, Nouns, and Pronouns  
Verb Usage  
Spelling Improvement Series  
Fractions: A Review Course  
Slide Rule Fundamentals  
Introduction to Genetics

### Reminder: Dial 496-4608 To Hear Personnel Tapes

To hear recordings on personnel-related topics, interested NIH employees can dial 496-4608.

The telephone tapes of topics discussed by the Division of Personnel Management may be heard 24 hours a day on the dates listed:

The Employee Assistance Program—through June 16.

Your Leave Benefits—June 19-23.

AWOL and LWOP—What's the Difference—June 26-30.

### R&W Holds Travel Seminar June 14 at Noon in Bldg. 1

R&W announces its very first travel seminar. The travelog, presented courtesy of the Global Travel Company, consists of a film and discussion on the romantic and beautiful capitals of Eastern Europe.

Admission is free, and travel information will be available.

Bring a lunch and see picturesque Prague, Budapest, and other places on Wednesday, June 14, in Wilson Hall, Bldg. 1, from noon to 1 p.m.

The Plain Truth about Smoking  
Basic Chemistry  
How to Apply for a Job  
Taking Care of Diabetes

### Seminars

Alcohol and Drug Abuse  
Scholarship and Financial Aid  
Career Day Program

### Tutorial Program

Free tutorial service is available in subjects such as geometry, chemistry, physics, trigonometry, algebra, writing, foreign language, calculus, basic reading skills, etc.

Employees who have any questions regarding this program may call the Training Assistance Branch, DPM, 496-2146.

## A Visit With Twain and Truman—Everyone Is Invited



"I was born modest; but it wore off," recalls Mark Twain (portrayed by James Frasier). "I never saw myself as President. I just happened to be in the right place at the wrong time," observes Harry Truman (Martin Rosenstock).

Take "A Journey With Twain and Truman" at noon on Thursday, June 22, in the Masur Auditorium. It's free—and sponsored by the Recreation and Welfare Association.

Appearing first on the program, Mark Twain (James Frasier) will present "The Other Side," observations on human nature.

"I Honestly Believe," is the major theme of Harry S. Truman (Martin Rosenstock).

Everyone is welcome to attend and enjoy an hour of the wit of two great Americans.

### Evening of Baroque Music Will Be Presented on June 21

On Wednesday, June 21, at 8 p.m. in the Masur Auditorium the R&W Association and the Chamber Music Society will present an evening of baroque music with the Colonial Quartet.

Musicians will appear in traditional 18th century costume during the lecture and concert.

The program includes selected pieces by C. P. E. Bach, Georg Philipp Telemann, G. F. Handel, Loeillet, Galiard, J. S. Bach, and Mathias.

### Concert Is Free

The concert is free and open to all NIH employees, Clinical Center patients, and their families.

### Volunteer Tutors Needed For Summer Employees

Volunteers are needed to tutor high school and college students working at NIH for the summer in algebra, geometry, trigonometry, calculus, foreign languages, organic and inorganic chemistry, physics, and accounting.

Tutors are asked to spend from 1 to 3 hours a week with their students for 6 to 10 weeks. Tutoring will take place at NIH, the time and place being arranged between student and tutor.

For further information, call the Training Assistance Branch, DPM, 496-2146.

## Final Results Posted For 1st Annual Relay

Final standings have been announced for teams participating in the First Annual NIH Institute Challenge Relay held May 24.

### Front Runners

Men's or mixed teams finishing in under 15:00 minutes included NIMH Shrinks A, 11:59; Cancer Crabs, 12:30; Aging A, 12:32; NIMH Shrinks B, 12:36; Packers, 12:41; No Names, 12:42; Heart, Lungs, and Blood, 12:52; Slow Pokes, 13:40; Main Liners, 13:49; Road Runners, 13:51; NIEEC, 13:57; Escar-Go, 14:10; Murph's Serfs, 14:26; Latecomers, 14:27; NEI Track Club, 14:40; Rhum Runners, 14:47; Epi-Taphs I, 14:48; Pacemakers, 14:49.

### Women's Teams Listed

The 11 women's teams finished in the following ranking: NIMH End-Orphans, 17:01; Sue's Strutters, 17:18; Falcons, 17:27; Aging B, 18:01; Carl's Angels, 18:27; Footloose Five, 18:27; Runners Up, 18:53; ¼ Milers, 19:17; PedLers, 19:42; Aging C, 20:14; The Streaks, 21:20; Twinkle Toes, 21:47.

Other teams in order of finishing were: The Parasites, 15:01; Hepatitis, 15:08; Rat Racers, 15:10; Aging D, 15:12; Lynn's Lovers, 15:14; The Secret Weapon, 15:17; Streaking Retinoids, 15:25; Shameless Nameless, 15:33; Rooster Boosters, 15:42; Wurtz Possible Runners, 15:44; Pappilomas, 15:54; Rape-Pillage Society, 15:57; Magnificent Five, 16:12; Sneakers, 16:19; Carmen's Cats, 16:19; Jerry's Angels, 16:20; Gravediggers, 16:24; Tommy's Angels, 16:27; Sick Pack, 16:33; Archangels, 16:42; Pack of Liars, 16:48; 3D-Tortoises, 17:23; Jaguars, 17:27; Research Contracts, 17:40; Epi-Taphs II, 17:51; Greased Lightning, 18:11; Donald's Ducks, 18:21; Blair Rabbits, 18:58; The Homogenate, 19:48; CD BZZZ, 20:08, and last, but not least, the OD-Laggers, 23:28.

## Applying for a Social Security Number— Certain Procedures, Documents Required

Everyone, regardless of age or place of birth, must now submit evidence of age, identity, and U.S. citizenship or lawful admission status when applying for a social security number.

These procedures are intended to help protect the applicant's social security record, assure that it is complete and accurate, and to prevent anyone else from misusing or abusing the person's social security number.

In addition, a person 18 or over

### Blood Drive To Be Held At Blair Bldg. June 20

The Clinical Center Blood Bank and the Montgomery County Chapter of the American Red Cross are sponsoring a joint blood drive in support of patient care at NIH and Metropolitan Washington.

This drive on Tuesday, June 20, will begin at 9:30 a.m. and end at 3:15 p.m. in the Blair Bldg., Conference Room 110, at 8300 Colesville Road in Silver Spring.

For information or an appointment, call the CC Blood Bank, 496-1048 or 496-1049.

Help make blood and blood products available for those who need them.

## NIH Sailors Recap Cruise Adventures on June 29



The boats met and rafted up at Oxford on Saturday evening, sailed to St. Michael's on Sunday for the next rendezvous, and sailed back across the Chesapeake Bay on Monday.

Over the Memorial Day weekend 33 people and 2 dogs sailed 7 boats from Rockhall, Galesville, Herring Bay, South River, and Oyster Creek to Oxford and St. Michael's on the Eastern Shore.

Although the skies were mostly overcast, the wind was good for all but 3 hours on Sunday, when the NIH sailors were "as idle as a painted ship/Upon a painted ocean."

The cruise provided an opportunity for everyone to learn more about boat handling—from anchor-

who is applying for a number for the first time, must apply in person.

The best evidence of a person's age and U.S. citizenship is a birth certificate. If it is not available, other documentary evidence can be used.

Evidence of identity should include documentation which shows the person's picture, signature, date of birth or age, or other identifying information.

Applicants not born in the U.S. should submit evidence of their U.S. citizenship or their immigration documents showing they are lawfully admitted to the U.S.

All documents submitted as evidence are subject to verification with the agency which issued them.

A person should allow plenty of time to get the number. It takes 3 to 4 weeks to issue the number and deliver the card after all required evidence has been submitted.

A free leaflet, *Applying for a Social Security Number*, can be obtained at any social security office or by calling 953-3600.

### Are You Afraid of Your Anger?

Call 496-2738

### Employee Assistance Program

## John Edwards Adds to Award Collection For Extraordinary Service to Scouting

When not running the Production Desk for the Division of Computer Research and Technology in Bldg. 12A, John Edwards is working with Boy Scouts in Prince George's County. He has been at it for 17 years.

Those who know John Edwards feel that he deserves to be recognized for extraordinary contributions of time and talent. Last month he received the highest award given to adult leaders by the National Council of the Boy Scouts of America, the Silver Beaver Award for Distinguished Service to Youth.

This newest addition to his collection of medals and badges is a handsomely carved solid silver beaver on a blue and white ribbon, a certificate, and blue patch which requires a special position, on the scout uniform above the other patches.

### Oversees 11 Groups

Two such "upstaged" patches are in themselves awards of equally unique distinction: the Wood Badge Award, scouting's highest international training award, and the District Award of Merit, the highest award given in Mr. Edwards' scouting district.

Serving as assistant commissioner for the Marlborough District of the National Capital Area Council, Mr. Edwards does not remain behind a desk handling stacks of paper work. He personally oversees the activities of five troops and six cub scout packs in his Area 1.

He also participates in frequent weekend outings and yearly national outings at scout camps throughout the United States.

## 4 NIDR Employees Get Special Awards For EEO Activities

Four National Institute of Dental Research employees were recently honored at an Institute-wide meeting on equal employment opportunities: Dr. Marie U. Nylen, Barbara Y. Iba, Garland N. Martin, and Webster (Chad) Leyshon. EEO Special Achievement Awards were presented by NIDR Director Dr. David B. Scott and Kathleen M. Conn, chairperson of the NIDR EEO Advisory Committee.

Dr. Nylen, director of NIDR Intramural Research, received the award for her outstanding contributions to the Institute's EEO program and for her work as chairperson of the Review Panel for a Study of Employee Conflict at NIH.

Ms. Iba, NIDR's EEO coordinator, was nominated for her unparalleled leadership during her service as the Institute's EEO counselor, as EEO coordinator, and as executive secretary of the NIDR EEO Advisory Committee.

Mr. Martin, of the Laboratory of Biological Structure, was honored for his work as liaison between the Institute's Advisory Committee and



This summer Mr. Edwards will be leading a crew of nine scouts on a 75-mile, 11-day trek—classed "Strenuous" in the trip catalog—in the Sangre de Cristo Range in the Rockies near Cimarron, N. Mex.

### Early Out Retirement Option Ends on Aug. 23

NIH employees who are eligible and wish to take advantage of early retirement provisions must retire no later than the close of business Aug. 23, or be in leave without pay status beginning Aug. 24 and have filed an application for retirement no later than the close of business Aug. 23, 1978.

For information on the early optional retirement, contact your B/I/D Personnel Office or the Employee Relations and Recognition Branch, DPM.

### NIH Bridge Club Relocates

The NIH Duplicate Bridge Club is now meeting in a new location: in Wilson Hall, third floor of Bldg. 1, every Wednesday at 7:30 p.m.

Everyone is welcome to attend. For further information call 652-4217.

### the NIH EEO Advisory Council.

Mr. Leyshon, Laboratory of Developmental Biology and Anomalies, was recognized for his contributions to the NIH Employee Assistance Program and to the NIDR EEO Program.

### Increase Women, Minorities

The EEO meeting also covered efforts to increase the number of minority and female scientists in the NIDR Intramural Research Program, promotion of Institute research support personnel, status of the 3-year classification review of NIDR positions, training opportunities, award mechanisms, and grievance procedures.

ing to man overboard (intentional drill) to navigation and to gourmet galley endeavors.

To hear more about these high adventures (and misadventures) and to see the slides, come to the next NIH Sailing Association meeting on Thursday, June 29, at 8 p.m. in Bldg. 30, Room 117. Everyone is welcome.

A man had rather have a hundred lies told of him than one truth which he does not wish to be told.—*Samuel Johnson*

## Six Programs Receive Grants From DRR To Meet Needs, Provide Opportunities

A total of 760 grants, representing \$132.7 million, was awarded by the Division of Research Resources in FY 1977 to meet the research resource needs and opportunities of NIH.

DRR develops and assures the availability of resources essential to the conduct of human health research. The Division currently manages six major NIH programs that serve as the backbone for important health research at universities, hospitals, and research institutes throughout the U.S.

These programs are: General Clinical Research Centers, Biotechnology Resources, Laboratory Animal Resources, Primate Research Centers, Biomedical Research Support, and Minority Biomedical Support.

### GCRC's Highly Specialized

The General Clinical Research Centers are highly specialized human patient units providing medical scientists with opportunities for careful study of disease. In FY 1977, there were 82 centers funded in medical schools, hospitals, and other research institutions, pursuing more than 3,000 protocols ranging from metabolism studies to organ transplants.

In addition to over 200,000 days of study involving 26,000 inpatients, there has been rapidly growing ambulatory research activity in 53 centers reporting more than 60,000 outpatient visits during the last fiscal year.

### Biotechnology Program Described

The Biotechnology Resources Program concentrates on the application of the physical sciences, mathematics, and engineering to biology and medicine. The FY 1977 grant activity involved over 50 resources which included 16 biomedical computing centers, 19 biomolecular characterization resources, 6 biomedical image and image processing resources, and 10 biomedical engineering resources.

The Animal Resources Program provides support to institutions for increasing and improving their laboratory animal facilities.

### Variety of Programs Supported

The FY 1977 support encompassed 21 special colonies and animal research projects, 15 diagnostic and disease investigation laboratories, 14 animal resource improvement projects, 10 training and fellowship awards in laboratory animal medicine and science, 7 animal reference centers, and 13 other animal-related resources.

The seven major NIH Primate Research Centers reported a total of 711 core research projects conducted during FY 1977, with 389 additional collaborative activities involving scientists in other research institutions, and 27 investi-

## Lillian Kozuma Heads NLM Catalog Section



**Ms. Kozuma received an NIH Director's Award in 1977 for her leadership in developing and implementing CAT-LINE.**

Lillian R. Kozuma has been named to head the National Library of Medicine's Catalog Section, Technical Services Division. She succeeds Emilie V. Wiggins who retired in December 1977 after 30 years' service.

### Joined NLM in 1972

Ms. Kozuma joined NLM as a Library Associate in 1972. In 1973 she joined the Catalog Section, becoming assistant head in 1977.

She received her B.A. in political science from Drew University in Madison, N.J., in 1963, spending 5 months at the London School of

Economics during her senior year. After earning an M.P.A. degree from Syracuse in 1964, she held a series of positions with Federal agencies before spending 2 years at the University of Southern California, holding a traineeship from NLM, in a special 2-year program in the management of health information systems. She received an M.S.L.S. degree in 1972.

gations by visiting scientists using nonhuman primates. The basic mission of the Centers is to identify primate models in which diseases can be studied and duplicated, their causes and effects documented, and effective means of prevention and treatment developed.

A total of 467 grants were awarded by the Biomedical Research Support Program to eligible health professional schools, non-Federal hospitals, state and local health departments, non-profit research organizations, and academic institutions to strengthen, balance, and stabilize Public Health Service-supported biomedical and behavioral studies.

### New Activity Designed

Included were 12 grants in a new activity, the Biomedical Research Development Grant Program, started in September 1977. It is specifically designed to assist in the development of the biomedical research capability of new, small, and developing institutions.

In the continued effort to encourage increased involvement of eth-

## Phil DeLozier of BEIB Retires After 37 Years Of Government Service

Phil DeLozier, assistant supervisor of the Mechanical Unit, Systems Maintenance Section, Biomedical Engineering and Instrumentation Branch, Division of Research Services, retired June 2 after 37 years of Federal service.

He began his Civil Service career in 1941 at the U.S. Naval Gun Factory in Washington, D.C. as an apprentice machinist and transferred to NIH in June 1951 after serving in the U.S. Navy during World War II.

### Managed Contracting Program

During his last 2 years in BEIB, Mr. DeLozier has been instrumental in developing and managing the contracting program for the Mechanical Unit.

This program has resulted in a decrease in the average turnaround time for repairs and has greatly reduced the backlog in the Unit.

Phil played on the NIH city and county championship softball teams in 1952-53. He was very active in the NIH Golf League and the NIH Bowling League, serving on the board of directors and as a team captain in both for several years.

Mr. DeLozier and his wife, Jean, plan to move to Lake Surf, N.C., where they are building a new home. They intend to golf and relax.

After earning an M.P.A. degree from Syracuse in 1964, she held a series of positions with Federal agencies before spending 2 years at the University of Southern California, holding a traineeship from NLM, in a special 2-year program in the management of health information systems. She received an M.S.L.S. degree in 1972.

nic minority students and faculty in the biomedical sciences and health professions, the Minority Biomedical Support Program awarded 73 grants in FY 1977.

**Support Minority Institutions**

This support was given to institutions with a substantial enrollment of minority students. There were 1,575 individual participants involved.

### Support Minority Institutions

An overall analysis of the 760 awards made by the Division of Research Resources in FY 1977 indicated that 46.1 percent went to medical schools in the U.S.

Non-Federal hospitals were awarded 8.9 percent; research organizations received 7.1 percent; other health professional schools were recipients of 3.4 percent; and 34.5 percent of the total funding was awarded to other higher educational institutions.

## 3 Members Join NEI's National Advisory Council

Three new members have been appointed to the National Advisory Eye Council: Drs. Kenneth T. Brown, Thomas D. Duane, and Edward W. D. Norton.

Dr. Brown, a leading authority on retinal physiology, is professor of physiology at the San Francisco Medical Center of the University of California.

Before coming to the University of California, he taught and conducted research in physiological optics at the Johns Hopkins University of Medicine where he was a U.S. PHS Special Research Fellow.

Dr. Brown has published extensively on the neurophysiology, especially the electrophysiological function, of the retina.

He and a colleague at the University of California, Dale G. Flaming, recently invented a system for producing extremely fine glass pipettes for use as microelectrodes in studying the electrophysiology of single cells.

### Duane Known for Research Support

Dr. Duane is ophthalmologist-in-chief at the Wills Eye Hospital in Philadelphia. In addition, he is professor and chairman of the department of ophthalmology at Jefferson Medical College, a position he has held since 1962.

His research specialties are retinal and corneal physiology, but Dr. Duane is also known for his broad interest in the conduct and support of eye research and its impact on clinical practice.

In the early 1960's, he conducted a landmark survey of ophthalmic research in the United States sponsored by Research to Prevent Blindness, Inc., and reported on its results in the publication *Ophthalmic Research: U.S.A.* (1965).

Dr. Norton has served since 1959 as professor and chairman of the department of ophthalmology of the University of Miami School of Medicine. He is also medical director of the Anne Bates Leach Eye Hospital which opened in 1976.

Dr. Norton has served on both the NEI's Vision Research Training Committee and the NIH Visual Sciences Study Section.

## Summer Gala Planned

R&W is planning a Summer Time Gala—the 40th Annual National Folk Festival—for NIH summer employees on Saturday, July 29, at Wolf Trap.

Meet for a wonderful day complete with beer and picnic lunches, starting at 1 p.m. with mini-concerts, 5:30 to 6:30, a dance party, and at 8 p.m. a concert.

Price will be as low as possible. Sign up at the R&W Activities Desk, Bldg. 31, Rm. 1A-18.

# Awards Ceremony June 26 Honors Outstanding Accomplishments of NIH'ers

At the Tenth Annual NIH Honor Awards Ceremony on Monday, June 26, at 1:45 p.m. in the Masur Auditorium, staff members will be recognized by NIH Director Dr. Donald S. Fredrickson for their outstanding accomplishments.

The NIH Director's Award will be presented to 37 Civil Service employees and 2 former NIH employees, and the PHS Commendation Medal to 36 Commissioned Officers.

The NIH-EEO Award of the Year, the Harvey J. Bullock, Jr., Award for Equal Opportunity Achievements, and Forty Year Length-of-Service Awards will also be presented.

In addition, Dr. Fredrickson will give the Civil Service Commission Commissioners' Award for Distinguished Service to an OD staff member.

As Dr. Fredrickson, assisted by B/I/D Directors, presents the awards, Dr. Thomas E. Malone, NIH Deputy Director, will serve as the Master of Ceremonies and read the award citations.

Dr. Robert Q. Marston, president of the University of Florida, will deliver the keynote address. Dr. Marston served as NIH Director from Sept. 1, 1968, through Jan. 21, 1973.

All NIH employees are invited to attend the ceremony which will last approximately 1 hour and 40 minutes.

## NIH Director's Award Recipients



Mr. Bernard



Mr. Carson



Dr. Goldwater



Mr. Parker



Mr. Henderson



Mr. Kenton



Dr. Costlow



Dr. Domanski



Dr. Shearer



Mr. Spallone



Dr. Thomson



Mr. Van Nevel



Dr. Hurd



Dr. Moskowitz



Mr. Ward

### NIH DIRECTOR'S AWARD RECIPIENTS

NIH'ers who will receive the NIH Director's Award are:

#### OFFICE OF THE DIRECTOR

STEVEN C. BERNARD, deputy director, Division of Contracts and Grants, OA—"For exceptional professional skill in the development of a broad range of grants management policies and procedures in support of the NIH extramural programs."

BRUCE F. CARSON, deputy associate director for Program Planning and Evaluation—"For service with high distinction for 16 years, during which his special administrative abilities have aided four NIH Directors immeasurably in developing important policy."

DR. WILLIAM H. GOLDWATER, Collaborative Program policy officer, Office of Collaborative Research—"For substantial contributions to the development of regulations and policy on peer review, clinical trials, selection of award instrument, privacy act releases, and staff training."

DONALD P. PARKER, procurement analyst, Division of Contracts and Grants, OA—"For exceptional professional contribution to the establishment of improved research and development contracting policies and practices at the National Institutes of Health."

#### NATIONAL LIBRARY OF MEDICINE

B. EARL HENDERSON, chief, Communications Engineering Branch, Lister Hill National Center for Biomedical Communications—"For leadership of a nationally-recognized program to develop and explore a broadband satellite communications network for information transfer in the health sciences."

DAVID L. KENTON, computer specialist, Office of Computer and Communications Systems—"For significant effort in providing technical support for the Medline System and for leadership in the coordination and installation of Medline in four countries, thereby expanding the dissemination of medical information."

#### NATIONAL CANCER INSTITUTE

DR. RICHARD D. COSTLOW, chief, Detection, Diagnosis, and Pretreatment Evaluation Branch, DCCR—"For superior management of the Division of Cancer Control and Rehabilitation's Detection, Diagnosis, and Pretreatment Evaluation Branch, NCI."

DR. THADDEUS J. DOMANSKI, chief, Cause and Prevention Branch, DCCR—"For vigorous and enlightened leadership in the administration of the Cause and Prevention Branch, and energetic expert development of the Carcinogenesis Program in that Branch."

DR. GENE M. SHEARER, research biologist, Immunology Program,

DCBD—"For excellent performance of laboratory investigations into the genetic control and expression of immunologic reactions to alterations of an individual's own cell membrane structures."

ROBERT E. SPALLONE, grants financial officer, Grants Administration Branch, DCCR—"For exceptional dedication, innovation and judgment in developing a highly sophisticated computerized accounting and grant information system which permits prompt and accurate replies."

DR. LOUISE G. THOMSON, program director for Review Activities, Review and Referral Branch, DCCR—"In recognition of the many years of intensive work to insure objective, thorough and scientifically rigorous review of large, complex grant applications."

J. PAUL VAN NEVEL, associate director for Cancer Communications, Office of Cancer Communications, OD—"For excellence in planning and executing a complex, innovative program to communicate cancer information for the benefit of all."

#### NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

DR. SUZANNE S. HURD, associate director for Program Planning and Evaluation, Division of Lung Diseases, OD—"For sustained record of accomplishment of the mission of the National Heart, Lung, and Blood Institute and for indispensable role in developing the programs of the Division of Lung Diseases."

DR. JAY MOSKOWITZ, director, Office of Program Planning and Evaluation, OD—"For excellent administrative leadership and creativity in initiating and managing programs in the field of planning for heart, lung, and blood research."

GRAHAM W. WARD, public health educator, Office of Prevention, Education and Control, OD—"For the effective implementation and management of the National High Blood Pressure Education Program and the development of high blood pressure demonstration and education programs."

#### NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

DR. JOHN K. INMAN, research chemist, Laboratory of Immunology—"For important contributions to the development of immunology through the introduction of techniques for affinity chromatography and for studies of multispecific binding of antibodies."

DR. BERNARD W. JANICKI, acting chief, Allergy and Immunology Branch—"For imaginative and extremely effective leadership of NIAID's extramural immunology program."

(Continued on following pages)

## NIH Director's Award Recipients



Dr. Inman



Dr. Janicki



Dr. Podolsky



Mr. Hunter



Dr. Piatigorsky



Dr. Bick



Dr. Gal



Mr. Oviatt



Mr. Johnson



Dr. Jones



Dr. Eanes



Dr. Schiffman



Dr. Lucier



Dr. McRee



Dr. Ferguson



Dr. Gartland

### NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

DR. RICHARD J. PODOLSKY, chief, Laboratory of Physical Biology, Intramural Research Program—"For significantly advancing knowledge of muscle physiology, by conducting highly innovative and productive research on the contractile mechanism of striated muscle cells."

### NAT'L INST. OF CHILD HEALTH AND HUMAN DEVELOPMENT

JEHU C. HUNTER (retired), former assistant director for Program Development, Center for Research for Mothers and Children, OD—"For a superior record of achievement in research administration, basic research, and program planning and development spanning over 34 years of public service."

DR. JORAM PIATIGORSKY, chief, Section on Cellular Differentiation, Laboratory of Molecular Genetics—"For continuing contributions to our understanding of the biochemical processes involved in development, utilizing the chick embryo lens as the model system."

### NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

DR. KATHERINE L. BICK, assistant to the director, Neurological Disorders Program—"For superior accomplishment in organizing the joint NINCDS, NIA and NIMH Workshop-Conference on Alzheimer's Disease, Senile Dementia and Related Disorders."

DR. ANDREW E. GAL, head, Section on Neurochemical Methodology, Development and Metabolic Neurology Branch—"For developing a widely used series of chromogenic reagents for the diagnosis of sphingolipid storage diseases."

### DIVISION OF RESEARCH SERVICES

VINSON R. OVIATT, supervisory sanitary engineer, Environmental Safety Branch—"For developing an effective Environmental Safety Program which provides protection for NIH staff, patients, and visitors and serves as a prototype for the biomedical research community."

### CLINICAL CENTER

THOMAS A. JOHNSON, administrative officer, CC—"For performance which has been an outstanding example of a dedicated well-motivated employee who expresses sound and thoughtful judgment in a quiet, sophisticated manner."

DR. ALFRED E. JONES, supervisory medical officer, Nuclear Medicine Department—"For imaginative development and adaptation of techniques of radionuclide imaging for the diagnosis of disease."

### NATIONAL INSTITUTE OF DENTAL RESEARCH

DR. EDWARD D. EANES, chief, Molecular Structure Section, Lab. of Biological Structure—"For studies of calcium phosphate chemistry

and structure, the effects of fluoride on apatite crystal formation and the physico-chemical processes involved in biological calcification."

DR. ELLIOTT SCHIFFMAN, research chemist, Laboratory of Developmental Biology and Anomalies, IRP—"For discovery of chemicals that direct the migration of phagocytic cells."

### NAT'L INST. OF ENVIRONMENTAL HEALTH SCIENCES

DR. GEORGE W. LUCIER, head, Developmental Toxicology Workgroup, Laboratory of Environmental Toxicology—"In recognition of excellent scientific contributions in the areas of pharmacokinetics, enzymology, and developmental toxicology."

DR. DONALD I. McREE, research physicist, Laboratory of Environmental Biophysics—"In recognition of contributions to our current understanding of the basic mechanisms underlying the bioeffects of microwave radiation."

### NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES

DR. FREDERICK P. FERGUSON, director, Biomedical Engineering Program—"For contributions to the planning, organization, and development of research and research training programs within NIGMS over a period of 18 years."

DR. WILLIAM J. GARTLAND, director, Office of Recombinant DNA Activities—"For his role in the formulation and implementation of NIH policies affecting the conduct of recombinant DNA research."

### NATIONAL EYE INSTITUTE

DR. FRANK J. MACRI, pharmacologist, Intramural Research Program, Clinical Branch—"For scientific excellence and achievement in pharmacologic research of aqueous humor production and intraocular pressure regulation." (No photograph available.)

CHURCHMAN L. NAPPER, administrative officer, Intramural Research Program, OD—"In recognition of ingenuity, perseverance and dedication in establishing the best possible environment for the conduct of clinical vision research."

### DIVISION OF RESEARCH GRANTS

DR. LUIS ANGELONE, health scientist administrator, Referral Branch—"For maintaining efficiency and continuity in the Referral Branch, DRG, operations through the exercise of sound judgment and excellent managerial skills."

### DIVISION OF COMPUTER RESEARCH AND TECHNOLOGY

PAUL J. WINTERMYER, digital computer systems administrator, Office of Systems Planning—"For exceptional work with, and important contributions to the development and implementation of a variety of computer based systems dealing with the extramural programs."

(See NATIONAL INSTITUTE ON AGING, Page 8)



Mr. Napper



Dr. Angelone



Mr. Wintermyer



Dr. Parsegian



Dr. Andres



Mr. Chicchirichi



Mr. Cornfield

## PHS Commendation Medal Recipients



Dr. Adams



Dr. Bernstein



Dr. Bailar



Dr. Bono



Mr. Cradock



Dr. Fox



Dr. Herman



Dr. Li



Dr. McGuire



Dr. Roberson



Dr. Young



Dr. Epstein



Dr. Keiser



Dr. Krames

### PHS COMMENDATION MEDAL RECIPIENTS

Recipients of the PHS Commendation Medals will be:

DR. MYRON J. ADAMS, JR., director, National Medical Audiovisual Center, NLM—"In recognition of his unique scientific and administrative skills and his creative leadership and originality which have resulted in the development of multi-media instructional packages that have improved the learning process for health professionals."

DR. LIONEL M. BERNSTEIN, assistant deputy director for Research and Education, NLM—"In recognition of his development of a prototype computerized information transfer system for health care practitioners."

DR. JOHN C. BAILAR III, editor-in-chief, *Journal of the National Cancer Institute* and senior consultant for Cooperative Studies, NCI—"For outstanding professional initiative and leadership in recognizing and citing the significant radiation hazards inherent in routine mammography examinations for women in certain age groups."

DR. VINCENT H. BONO, chief, Investigational Drug Branch, DCT, NCI—"For establishing a system of monitoring clinical trials involving Investigational New Drugs in all phases of clinical study."

JAMES CLAUDE CRADOCK, head, Analytical and Product Development Section, Pharmaceutical Resources Branch, DCT, NCI—"For outstanding achievements in the development of unique and novel formulations of investigational drugs for the Division of Cancer Treatment."

DR. DONALD G. FOX, chief, Research Facilities Branch, DCRR, NCI—"For his outstanding leadership, continuing excellence and significant contributions to the NCI Construction Grant Program."

DR. CHESTER J. HERMAN, head, Quantitative Cytology Section, DCBD, NCI—"In recognition of his significant contributions using flow microfluorometry and cell sorters to study neoplastic and non-neoplastic human epithelial cells."

DR. FREDERICK PEI LI, head, Clinical Studies Section, Clinical Epidemiology Branch, DCCP, NCI—"For studies that drew attention to the importance of evaluating the health of long-term survivors of childhood cancer and their children."

DR. WILLIAM P. MCGUIRE III, senior investigator, Clinical Investigations Branch, DCT, NCI—"For unusual foresight and managerial capabilities in the strengthening of the clinical contract review system of the Division of Cancer Treatment."

DR. WILLIAM L. ROBERSON, chief, Cancer Research Centers Program, DCRR, NCI—"For dedication, expertise, and leadership that have resulted in notable and significant contributions to the Cancer Research Centers Program which has gained national recognition."

DR. NATHANIEL A. YOUNG, head, Viral Oncology and Molecular Pathology Section, DCBD, NCI—"For his significant contributions to

clinical, pathological and experimental studies of infectious diseases in Clinical Center patients."

DR. STEPHEN E. EPSTEIN, chief, Cardiology Branch, DIR, NHLBI—"For outstanding performance and leadership in basic and clinical cardiology."

DR. HARRY R. KEISER, clinical director, DIR, deputy chief, Hypertension-Endocrine Branch, NHLBI—"For basic contributions into an understanding of the mechanisms of hypertension and for providing stable, responsible and effective clinical direction to the Intramural Research Program."

DR. BARBARA KRAMES, associate director for Cardiology, DHVD, NHLBI—"For combining medical, administrative, and scientific expertise for an overall high degree of effectiveness in research programs on ischemic heart disease and sudden cardiac death."

DR. MICHAEL A. OXMAN, health scientist administrator, Review Branch, DEA, NHLBI—"In recognition of outstanding contributions to the initial scientific review activities of the NHLBI."

DR. JOSEPH E. PIERCE, chief, Section on Laboratory Animal Medicine and Surgery, DIR, NHLBI—"For excellent contributions in veterinary sciences in the development of new animal resources, experimental surgery, and management of an experimental cardiovascular laboratory."

DR. HARRY B. GREENBERG, medical officer, Epidemiology Section, NIAID—"For significant contributions to the understanding of several important infectious diseases and for developing approaches to preventing and treating these illnesses."

DR. ROBERT W. GWADZ, research entomologist, Laboratory of Parasitic Diseases, NIAID—"For development of an experimental malaria vaccine against the sexual stage of the parasite that infects the mosquito, thus blocking malaria transmission in animals."

DR. ETHAN M. SHEVACH, senior investigator, Laboratory of Immunology, NIAID—"For major contributions to understanding genetic regulation of immune response and of disease susceptibility in man."

DR. DAVID G. HANSON, otolaryngologist, Communicative Disorders Program, NINCDS—"For sustained high quality performance in initiating and developing a program involving Clinical Otolaryngology within the Communicative Disorders Program."

DR. ERNEST E. MCCONNELL, head, Comparative Pathology Section, Environmental Biology and Chemistry Branch, NIEHS—"In recognition of research characterizing the toxicopathology associated with chlorinated dibenzodioxins and exceptional leadership in developing the Comparative Pathology Program for the Institute."

TANYA T. CROW, chief, Neurology Nursing Service, nursing coordinator for Quality Assurance Program, CC—"In recognition of her role



Dr. Oxman



Dr. Pierce



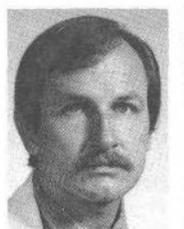
Dr. Greenberg



Dr. Gwadz



Dr. Shevach



Dr. Hanson



Dr. McConnell



Ms. Crow

## PHS Commendation Medal Recipients



Ms. Lampert



Dr. Lewis



Mr. Reed



Mr. Strong



Mr. Tangrea



Ms. Waters



Dr. Rosenstreich



Dr. Gibson



Dr. Gregerman



Dr. Hines



Mr. Polcari



Dr. Dayton



Dr. De Cesare



Dr. Kendrick

in developing a nursing audit system which met the rigorous demands of the Joint Commission for the Accreditation of Hospitals."

**MARSHA H. LAMPERT**, senior staff physical therapist, Physical Therapy Service, CC—"For being instrumental in establishing and maintaining an active clinical research project studying aspects of rehabilitation of above-knee amputees, with both administrative and direct service responsibilities."

**DR. THOMAS L. LEWIS**, chief, Office of Clinical and Management Systems and chief, Laboratory Computer Section, CC—"In recognition of the outstanding manner in which he has selected, implemented and maintained a computer system for the Clinical Pathology Department and the Clinical Center."

**JOSEPH K. REED, JR.**, supervisor, orthotics and prosthetics, Rehabilitation Department, CC—"For sustained superior work performance in the field of foot care, prosthetics, and orthotics both in the delivery of patient care and in the teaching of these subjects."

**CORWIN D. STRONG**, environmental services officer, Office of Administrative Management, CC—"In recognition of his technical skill and administrative ability in fulfilling his role as Environmental Services Officer and his dedication and constant surveillance in the development and implementation of the CC's Safety and Environmental Control Programs."

**JOSEPH A. TANGREA**, chief, Pharmacy Department, CC—"For effective implementation and professional supervision of the unit dose drug distribution system throughout the Clinical Center."

**CATHERINE G. WATERS**, therapeutic research dietitian, Nutrition Department, CC—"For contribution in refining the food service techniques for patients in the Clinical Center Laminar Flow Unit and for effectiveness as a national resource person on the feeding of the cancer patient."

**DR. DAVID L. ROSENSTREICH**, medical officer, Laboratory of Microbiology and Immunology, NIDR—"For fundamental contributions to a clearer understanding of cellular interactions and mechanisms involved in the process of lymphocyte and macrophage activation."

**DR. DON C. GIBSON**, chief, Biophysiology and Pathology Program, NIA—"For pioneering the establishment and characterization of rodent populations in research on aging and for developing effective programs of extramural research on a broad variety of problems in the biophysiology and pathobiology of aging."

**DR. ROBERT I. GREGERMAN**, chief, Endocrinology Research Center, NIA—"For outstanding leadership of the Endocrinology Section, Clinical Physiology Branch, GRC, NIA, and his numerous contributions related to the aging endocrine system."

**DR. RONALD S. HINES**, chief, Animal Resources Facility, Gerontology Research Center, NIA—"For outstanding organization and management of two large aged animal colonies which provide essential resources for intramural research conducted at the GRC, NIA."

**A. ROBERT POLCARI**, senior health services officer, Grants Associate Program, DRG—"For his consistent superior performance, excellent rapport, and expert guidance as Executive Secretary of the Grants Associate Program, DRG."

**DR. DELBERT H. DAYTON, JR.**, medical officer, Center for Research for Mothers and Children, NICHD—"For effective leadership and organizational skills as Executive Secretary of the Public Health Service Genetics Coordinating Committee during 1977."

**DR. WILLIAM R. DE CESARE**, director, General Clinical Research Centers Program, DRR—"For introducing significant innovations which have expanded the capability and cost-effectiveness of GRC's."

**DR. FRANCIS J. KENDRICK**, director, Biomedical Research Support Program, DRR—"For significant role in helping to adapt and stabilize the Biomedical Research Support Program and for initiating the Biomedical Research Development Program."

### OTHER AWARDS



Ms. Betton

The NIH-EEO Award of the Year will be presented to **VIVIAN A. BETTON**, histopathologist, Surgical Neurology, IR, NINCDS, for "outstanding managerial leadership and participation in activities fostering equal employment opportunity both in the NINCDS and in the NIH."



Mr. Rowel

The Harvey J. Bullock, Jr., Award for Equal Opportunity Achievements will be presented to **HOOVER ROWEL**, heavy mobile equipment mechanic, DES, OA, for "consistent efforts to improve career opportunities and upgrade working conditions for his fellow employees in the Grounds Maintenance and Landscaping Section, DES."

Mrs. Bullock will assist in the presentation of the award honoring her late husband, a former NIH employee.

Forty Year Length-of-Service Awards will be presented to six staff members who completed 40 years of service during 1977: **LOUISE C. CLARK, OD**; **THADDEUS A. HENLEY, OD**; **ARTHUR MCKAY, OD**; **RUSSELL P. RANKIN, CC**; **NORMAN E. SHARPLESS, NIAMDD**; and **RALPH FLEISCHMAN, NHLBI**.

On behalf of Alan K. Campbell, CSC Chairman, Dr. Fredrickson will present the Commissioner's Award for Distinguished Service to **JOHN D. MOORE**, employee development specialist, Executive Management and Development Branch, DPM, as a "Team Member of the Federal Personnel Management Project for leading and accomplishing the most fundamental and comprehensive review of Federal personnel management ever undertaken, a review that served as the foundation for Presidential proposals for Federal personnel management reform."

### NATIONAL INSTITUTE ON AGING (Continued from Page 6)

**DR. V. ADRIAN PARSEGAN**, research physicist, Physical Sciences Laboratory—"For research on the role of electrodynamic and electrostatic forces in cellular interactions, and for development of the theory of van der Waals' forces."

**DR. REUBIN ANDRES**, clinical director, NIA, and chief, Clinical Physiology Branch, GRC—"For continuing and consummate leadership of the Clinical Physiology Branch, GRC, NIA, and for developing the glucose clamp technique to study glucose metabolism in man."

**DAVID L. CHICCHIRICHI**, executive officer, NIA—"For demonstrating creativity and imagination in the development and administration of the newly emerging institute, NIA."

**JEROME CORNFIELD**, retired, former employee with the NIH, 1947-67—"In recognition of his unique role in developing and applying biostatistical techniques to the problem of causation and prevention of chronic diseases."

## DR. DOFT

(Continued from Page 1)

Nutrition studies which he conducted and directed have contributed to the understanding of dietary deficiencies causing anemia and cirrhosis of the liver, and the role of B vitamins, particularly pantothenic acid and folic acid.

His work also has contributed to the understanding of the relationship of intestinal flora to nutrition through studies with germfree animals.

He was a pioneer in the study of an unidentified substance later shown to be folic acid, a vitamin used widely today in treatment of blood disorders.

Dr. Doft was chairman of the Federation Board of the Federation of American Societies for Experimental Biology and past president of the American Institute of Nutrition.

In 1953 he was appointed director of the National Institute of Arthritis and Metabolic Diseases, later changed to include digestive diseases.

Prior to that time, Dr. Doft served as assistant director and chief of laboratory research at the Institute. Before coming to NIH in 1937, he engaged in teaching and research at Harvard, Yale, the Carlsberg Laboratories in Copenhagen, and the University of Rochester.

He received his doctorate at Yale University in 1926 and held an honorary D.Sc. degree from Simpson College, Iowa, where he earned his undergraduate degree.

Dr. Doft is survived by his wife, Pauline, and a stepson, Leon W. Fisk, both of the home in Chevy Chase, Md., and a sister, Ruth, of Atlantic, Iowa.



NIAMDD Director Dr. G. Donald Whedon (at table head) and other Institute officials met recently with members of the Indian Health Advisory Board to discuss ways to improve health services for Indians. The Board has 11 members representing the 8 tribal governments and 3 Indian organizations within the metropolitan Phoenix area, where NIAMDD has a field research unit studying diabetes and other diseases.

## NCI Researchers Find Drug Resistance Linked With DNA Repair in Cancer Cells

Evidence that cancer cells may attempt to repair damage done by certain anticancer drugs was presented in April by Dr. Warren E. Ross of the National Cancer Institute (at the 69th Annual Meeting of the American Association for Cancer Research).

Dr. Ross and colleagues examined the damage done to mouse leukemia cells by the anticancer drugs Adriamycin (a commercially-available antibiotic) and Ellipticine (a plant product which has not yet been cleared for clinical trial).

### Anticancer Activity Exerted

Both drugs are known to exert their anticancer activity by becoming inserted (intercalated) between the base pairs of the DNA molecule, the critical units for conservation of genetic information.

DNA which has drug molecules bound to it is unable to direct synthesis of DNA or RNA, and cell death eventually results, Dr. Ross reported.

Using a new technique for assaying DNA damage, the NCI scientists found a unique association between breaks in the DNA double helix caused by these drugs and the binding of cellular protein.

### Technique Developed at NCI

The DNA alkaline elution technique was developed at NCI. It measures the frequency of breaks by the rate at which DNA can pass through the holes of a millipore filter.

Since intercalating agents are known to cause breaks in the DNA double helix, the NCI scientists expected to observe rapid passage of the DNA from drug-treated mouse leukemia cells through the filter pores. Instead, they found this DNA passed through the filter at the same rate as that from untreated cells.

Postulating that the breaks in the drug-treated cells might be masked by cellular protein, the NCI scientists exposed the cells to pronase—an enzyme capable of digesting away any proteins which

are tightly bound to DNA. This process revealed the presence of the breaks by alkaline elution.

Using a modification of the alkaline elution technique, the NCI scientists were able to quantitate the DNA-protein association. They found a single DNA-protein cross link for each break in the DNA double helix caused by the intercalating drug. Further, they determined that the cross link was located at the site of the DNA break.

### Distortion May Be Recognized

Such an intimate association suggests that the cellular protein may be a specific enzyme which recognizes the distortion in the DNA double helix caused by the intercalated drug.

This enzyme may be attempting to nick the DNA strand in preparation for repair of the damage, Dr. Ross suggested. The presence of the drug molecule may cause the enzyme to get stuck, and it becomes chemically crosslinked to the DNA.

### Protein Not Observed

Protein associated with DNA breaks was not observed in cells treated with anthramycin—a drug which binds to, but does not intercalate into DNA.

Enzymes capable of repairing DNA breaks caused by irradiation have been described in both bacterial and mammalian cells. Such repair enzymes have not been previously associated with DNA damaged by drugs.

The exact nature of the protein requires further research, says Dr. Ross. Its function may help to explain why cancer cells become resistant to anticancer drugs.

## Weekly Seminar Series For Grants Associates Open to Some Selectees

A 9-month weekly Seminar Series is conducted each year for Grants Associates with the 1978-79 series tentatively scheduled to begin Sept. 18.

The seminars are held on Mondays, usually in the morning.

As in the past, the series is available to a limited number of other NIH scientists—extramural, collaborative, and intramural.

The series will include such topics as: the Federal Government—HEW, NIH, other agencies; the legislative and budget processes; policy and ethical considerations in biomedical and behavioral research—protection of human subjects, conflicts of interest; NIH extramural and collaborative programs—funding mechanisms, awards; and program planning and evaluation.

Anyone interested should forward a curriculum vita with a request through his/her immediate supervisor to the B/I/D Director.

B/I/D Directors, who will make the final nominations, are asked to submit no more than two nominees' names and their c.v.'s to the Office of Grants Associates, Division of Research Grants, Westwood Bldg., Room 2A-03, no later than COB, Wednesday, July 26.

Final selections will be made by Dr. William Raub, Acting Associate Director for Extramural Research and Training, NIH.

Nominees will be notified of the final action in early September. Those selected will be asked to submit a completed Form 350 (DHEW Training Nomination and Authorization) to the Office of Grants Associates before the start of the series.

### Training Credit Permitted

This will serve as official approval and will permit the selectees to obtain training credit (a minimum of 150 hours) in their official personnel file.

A request to participate carries a commitment of regular attendance through the entire series.

For further information, contact A. Robert Polcari, executive secretary, Office of Grants Associates, DRG, 496-7501.



Dr. Elizabeth K. Weisburger of NCI recently received the Distinguished Alumnus Award from Lebanon Valley College in Pa. She is one of six brothers and sisters to graduate from that college, which she currently serves as first vice president of the Board of Trustees. Dr. Weisburger is a PHS commissioned officer and has been associated with NIH since 1951. Chief of the Carcinogen Metabolism and Toxicology Branch, NCI, she has served as associate editor of JNCI since 1969.



## Emergency Simulation Planned June 24



Dr. Robert Silva and his wife Patricia have been members of NIHRAC for 2 years. The club has about 50 members and welcomes visitors at meetings the first Thursday noon each month Bldg. 10, Room B2-N104.

The NIH Radio Amateur Club will be operating continuously for 24 hours from 2 p.m. Saturday, June 24, until 2 p.m. Sunday, June 25 in the Multi-Level Parking garage as part of an annual test simulation of the nationwide emergency radio network.

### Members Take Turns

The 50 NIHRAC members will take turns operating the NIH station under simulated emergency conditions using a separate generator for power. All interested persons are invited to stop by to observe operation of the station, K3YGG.

On several previous occasions, the NIH "hams" have been able to transmit medical information, such as electrocardiograms, between Bethesda and stations in other states and even on other continents.

### Contact For Information

For further information, contact Leonard Aberbach, 496-4131.

## Whedon Receives Honorary Degree From U. of Rochester

An honorary degree of doctor of science was recently awarded by the University of Rochester to Dr. G. Donald Whedon, Director of the National Institute of Arthritis, Metabolism, and Digestive Diseases for his contributions to medical knowledge.

### Cited For Contributions

He was cited for his work as chairman of the Life Sciences Advisory Committee of the National Aeronautics and Space Administration and for his "... contributions on the metabolic and physiologic aspects of convalescence and immobilization, with particular concern for metabolic-kinetic relationships of bone in situations of inactivity and weightlessness. . . ."

## 96-Page Directory Describes Activities Of Clinical Centers

A 96-page directory describing the General Clinical Research Centers of NIH has been published and is available free.

Titled *General Clinical Research Centers, A Directory*, the booklet serves as a ready reference on the major clinical research activities and participants at the 80 Division of Research Resources-supported GCRCs throughout the country.

### Lists Programs, Locations

In addition to the current complete listing and location of the Centers, the directory identifies the names of program and associate directors, principal investigators, the specific location of the facility within the host institution, the number of beds, and the Centers' major areas of investigation.

Also included are listings of special assay services or new tests available, special instruments or devices, and guides, pamphlets, or booklets from the Centers.

A geographic index is provided, indicating the General Clinical Research Centers by state, and alphabetically within each state, according to the names of the host institution.

A single free copy of *General Clinical Research Centers, A Directory* may be secured by writing to the Research Resources Information Center, 1776 East Jefferson Street, Rockville, Md. 20852, or by request from the DRR Office of Science and Health Reports, NIH, Bethesda, Md. 20014.

Sleep, riches, and health are only truly enjoyed after they have been interrupted.—Jean Paul Richter

## NLM Adds 7 Subjects To Literature Searches

Recent searches of the MEDLINE data base for NLM's Literature Search series have produced bibliographies on seven subjects of current interest. These searches are available without charge. A complete list of titles appears in each issue of *Index Medicus* and *Abridged Index Medicus*.

When requesting Literature Searches, please include title and number, enclose a self-addressed gummed label, and mail to: Literature Search Program, MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Md. 20014.

LS 78-6 Recombinant DNA. December 1977 through June 1978. (Updates LS 77-15.) 146 citations.

LS 78-7 Photocoagulation in diabetic retinopathy. January 1976 through April 1978. 75 citations.

LS 78-8 Adolescent pregnancy. January 1975 through April 1978. 254 citations.

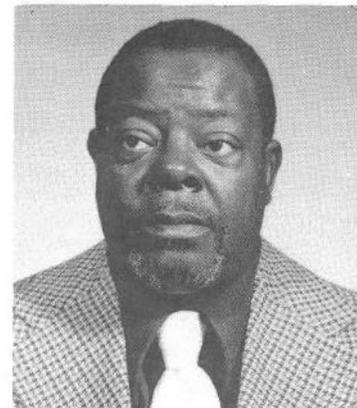
LS 78-9 Adverse effects of oral contraceptives. July 1974 through December 1977. (Updates LS 74-20.) 659 citations in English.

LS 78-10 Audiovisual aids in medical education. May 1974 through April 1978. (Updates AV portion of LS 74-6.) 253 citations in English.

LS 78-11 Computer aided and programmed instruction in medical education. May 1974 through April 1978. (Updates portion of LS 74-6.) 90 citations in English.

LS 78-12 Estrogen replacement therapy. January 1976 through June 1978. 173 citations.

## Walter Johnson Dies, NIAID Lab Technician Joined NIH in 1955



Walter Johnson

Walter Johnson, biological laboratory technician in the Animal Care Section, Office of Scientific Director of the National Institute of Allergy and Infectious Diseases, died at his home on May 15.

Mr. Johnson joined NIH in 1955, and at the time of his death was senior member of the NIAID animal caretaker's team, which involves the day-to-day care of laboratory animals.

### Born in Washington

He was a valued employee whose job required not only knowledge of the animal needs and behavior, but also skill in observing, handling and controlling the animals.

Born in Washington, D.C., Mr. Johnson attended Harrison Elementary and Cardoza High School, later serving a tour of duty in the Army from 1941 to 1946.

## Institute of Chile Honors NLM's Dr. M. Cummings

At ceremonies on May 18 in Santiago, Chile, NLM Director Dr. Martin M. Cummings, received honorary membership in the Academy of Medicine of the Institute of Chile.

Chile's Minister of Health, Fernando Matthei, presented Dr. Cummings with the order of "la Cruz del Sur," citing particularly his efforts on behalf of Chile's medical libraries which have resulted in improved information services for Chile's scientific community.

The U.S. Ambassador to Chile, George W. Landau, along with distinguished members of the Academy, attended the ceremony, after which Dr. Cummings spoke on modern biomedical communications.

Did you know? The NIH reservation in Bethesda is 306.4 acres. The cornerstone for Bldg. 1 was laid on June 30, 1938. The Ransdell Act of May 26, 1930 redesignated the Hygienic Laboratory as the National Institute of Health.



"You must have been a beautiful baby." That was the melody heard around the NIH Plateletpheresis Trailer, located near the Blood Bank entrance of the Clinical Center. Members of the staff held a baby identification contest, and donors tried to match each staff member with their baby picture. Eleonore Lehr, a random donor, guessed all nine pictures during the 6-week contest. Her prize was a beautiful dracaena plant in need of constant love, care, and water.

## COPYRIGHT LAW

(Continued from Page 1)

However, the new copyright law provides that there is no copyright in U.S. Government works. If the NIH author signs the form, it gives an incorrect impression that a copyright exists.

It is possible, on the other hand, for NIH authors to secure copyrights in their own, private writings, done entirely during non-duty time as long as they comply with the HEW Standards of Conduct.

Any writer who has questions should seek advice from the Office of the General Counsel, telephone 496-4108 or 496-7056.

An NIH manual chapter on the new Copyright Act is being prepared by the Division of Management Policy, OA.



Bryan Watson, Washington Capitals hockey player, recently visited young patients at the Clinical Center. He stopped by Bobby Goudreau's unit on 2 East and then on to the 14th floor playroom. His visit was sponsored by the CC Patient Activities Section.

## CC Normal Volunteer Cindy Klos Wins Prize For Research Paper

Cindy Klos, a 20-year-old normal volunteer at the Clinical Center, has won the 1978 student research prize from the American Gastroenterological Association for work performed in the Digestive Diseases Branch of the National Institute of Arthritis, Metabolism, and Digestive Diseases.

In addition to her duties in the Normal Volunteer Program, Cindy worked under the guidance of Dr. Juerg Reichen, a guest worker from Switzerland.

For 4 months in 1977, she conducted experiments on factors influencing bile flow and won an all-expense paid trip to Las Vegas to present her scientific paper at the annual meeting of AGA.

Her award-winning paper is entitled A Fraction of Hepatocellular Bile Flow Dependent on Anions Other Than Bile Salts.

Although the award is usually won by senior students in medical school, Cindy is a junior majoring in biology at Gustavus Adolphus College in Minnesota. She plans to

## Suggested Letter

Dear Dr. \_\_\_\_\_

Editor \_\_\_\_\_

We recently received from your office a document assigning copyright and republication rights of the submitted article (TITLE) to (PUBLICATION).

The article fits the description in the new U.S. Copyright Act of a "United States Government work." It was written as a part of my (our) official duties. This means it cannot be copyrighted. It is freely available to you for publication, and there are no restrictions whatever on your use of it, now or subsequently. However, the HEW Office of the General Counsel has advised me (us) that I (we) do not have any rights to assign.

I (we) trust that this letter is sufficient assurance that I (we) retain no rights in the article.

Sincerely yours,

## Workshop Proceedings Tell How to Measure Animals' Blood Pressure

The Division of Heart and Vascular Diseases, National Heart, Lung, and Blood Institute, recently issued *Proceedings of a Workshop on Blood Pressure Measurement in Hypertensive Animal Models*, DHEW Publication No. (NIH) 78-1473. These proceedings are a result of the workshop held at NIH on Sept. 27, 1977.

Workshop participants described methods currently used to measure blood pressure in experimentally hypertensive rats, dogs, pigs, and nonhuman primates, problems associated with these methods, and future needs for better instrumentation.

The discussions included direct and indirect methods of blood pressure measurement, acute and chronic measurements, and use of anesthesia.

Speakers presented specific problems identified with each of the above situations. Of greatest concern in the direct measurement in the hypertensive rat are the problems of clotting and growth around the tip of the cannula, glomerular emboli, use of heparin, infection, and damping of the pulse.

Problems associated with the tail-cuff indirect measurement of pressure were heating, use of anesthesia, and the need to restrain the animal. The training and skill of the individual measuring pressure or surgically preparing the animal were emphasized.

Although blood pressure measurement was the major topic discussed, measurement of other hemodynamic parameters in many different hypertensive animal models was stressed and encouraged.

This 84-page publication will serve as a reference for investigators studying or planning to study factors regulating blood pressure in hypertensive animal models.

Limited quantities are available from NHLBI's Public Inquiries and Reports Branch, 496-4236.

enter medical school in the future to put her scientific prowess to work as a physician.

## NIGMS' Dr. Emilie Black Discusses Burn Therapy Via Satellite in Sweden

Dr. Emilie A. Black, assistant director for Clinical Research, National Institute of General Medical Sciences, will attend the 5th International Congress on Burn Injuries in Stockholm, Sweden, June 18-23. Her presentation to the Congress will be a 30-minute film, "Burn Therapy Via the Communications Technology Satellite."

The film presents some research advances in the early care and resuscitation, healing, and nutrition of burn patients.

A Communications Technology Satellite linked individuals in the National Library of Medicine, Bethesda, Md.; Fairbanks, Alaska; and Seattle, Wash., for a discussion and case presentations by burn specialists.

In this way the Institute is disseminating this information to the public, paramedical practitioners, primary care physicians, and burn specialists.

In addition, a number of papers will be presented by NIGMS grantees at the Congress on epidemiology-prevention, metabolism-nutrition, immunology-infection, plastic surgery, psychology-psychiatry, and burn nursing program.

## NIH Visiting Scientists Program Participants

5/21—Dr. Jacques Frot-Coutaz, France, Experimental Pathology Branch. Sponsor: Dr. Luigi DeLuca, NCI, Bg. 37, Rm. 2B26.

5/21—Dr. Holger Kirchner, Germany, Metabolism Branch. Sponsor: Dr. R. Michael Blaese, NCI, Bg. 10, Rm. 4N108.

5/21—Dr. Karl Tryggvason, Iceland, Laboratory of Developmental Biology and Anomalies. Sponsor: Dr. George Martin, NIDR, Bg. 30, Rm. 414.

5/22—Dr. Eliezer Zomer, Israel, Laboratory of Physical Biology. Sponsor: Dr. Leo Levenbook, NIAMD, Bg. 6, Rm. 137.

5/25—Dr. Tadashi Yanagisawa,

## Dr. Hasenclever Retires; Noted NIAID Mycologist Studied Fungal Diseases

Dr. Herbert F. Hasenclever, noted mycologist at the Rocky Mountain Laboratory, National Institute of Allergy and Infectious Diseases, recently retired after 24 years of Government service.

During his career, he conducted research on fungal diseases of medical importance, chiefly histoplasmosis, candidiasis, and cryptococcosis.

A native of Iowa, Dr. Hasenclever, served in the U.S. Marine Corps for 3 years.

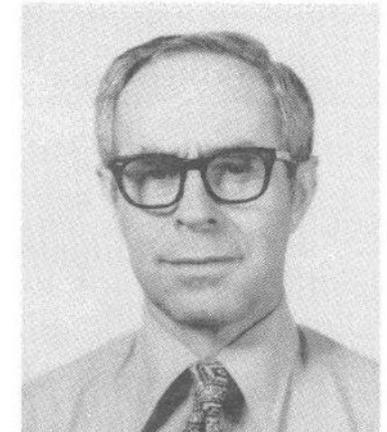
He received his undergraduate training at Iowa Wesleyan College and his masters and doctorate in microbiology from the University of Iowa. For 4 years after graduation, he was an instructor in bacteriology at the University of Iowa.

In 1957 his initial assignment at NIH was in the Laboratory of Infectious Diseases, NIAID. During 1965 and 1966, he was stationed at the Middle American Research Unit in the Panama Canal Zone.

### Returns to Bethesda

He then returned to Bethesda as head of the Institute's Medical Mycology Section, Laboratory of Microbiology, and served in that capacity until 1974, when he joined the RML staff.

Dr. Hasenclever and his wife, Joan, plan to move to a new home near Corvallis, Mont.



An active member of the American Society for Microbiology, Dr. Hasenclever served in several capacities, including as chairman of the Medical Mycology Section and as chairman of the Standards and Examination Committee, Public Health and Medical Mycology, American Board of Microbiology.

Japan, Laboratory of Biochemical Genetics. Sponsor: Dr. Alan Peterkofsky, NHLBI, Bg. 36, Rm. 4C11.

5/26—Dr. Keigo Fujiwara, Japan, Laboratory of Neuropathology and Neuroanatomical Sciences. Sponsor: Dr. Igor Klatzo, NINCDS, Bg. 36, Rm. 4B24.

## Dr. K. Kenneth Hisaoka Dies; Skillful Coordinator Of NINCDS's Programs



Dr. K. Kenneth Hisaoka

Dr. K. Kenneth Hisaoka, a scientist-administrator respected as a skillful and concerned manager, died May 26 of cancer. He was 53.

As Extramural Activities Program Director for the National Institute of Neurological and Communicative Disorders and Stroke, Dr. Hisaoka was the Institute's principal staff officer for extramural policy.

According to Dr. Hisaoka's colleagues and co-workers, his successful management was due in part to his open door policy. As one co-worker said, "He cared about the human aspect. He encouraged all of us to use our potential, and to get training whenever possible."

### Interested in Embryology

Dr. Hisaoka's scientific interest centered primarily on embryology. He had earned a B.Sc. degree from the University of Alberta in his home country, Canada, and an M.Sc. degree from the University of Western Ontario.

In 1953 he received a Ph.D. from Rutgers University, and accepted an appointment in the biology department of Loyola University, Chicago.

### Studied Teratology

At Loyola he became associate professor and developed an intense interest in teratology, the study of abnormal development and congenital malformations which occur during the embryonic stage.

Dr. Hisaoka's work with NINCDS was the culmination of a 14-year NIH career that began with his becoming an NIH Grants Associate in 1963, and appointment to the National Institute of Dental Research the following year.

While with NIDR, where he became deputy associate director for the Institute's Extramural Program, he received the PHS award for sustained high quality performance.

Dr. Hisaoka then was chosen to

## DES REPORT

(Continued from Page 1)

lar medical examinations considered appropriate for all women over 18.

These include monthly breast self-examination, an annual Pap test and pelvic examination with bimanual palpation, and a physical examination of the breasts by qualified medical personnel. Mammography should be considered only as recommended by NCI guidelines.

These recommendations are:

No mammography for women under 35; annual mammography for women between 35-39 only if they have a personal history of breast cancer, and for women 40-49 with a personal history of breast cancer or with a history of breast cancer in immediate relatives.

For women over 50 annual mammography may be considered without these specific qualifications.

Mothers exposed to DES-type drugs are advised to keep to a minimum their exposures to other preparations which include estrogens.

### Other Uses Noted

In addition to its use as a "morning after" pill, DES is used for lactation suppression. Other estrogens are used in oral contraceptives or sometimes prescribed for certain menopausal or postmenopausal conditions.

The Task Force recommended that additional studies with DES-exposed mothers be undertaken on a collaborative basis with central coordination and analysis.

In addition, the group recommended that increased emphasis should be placed on appropriate evaluation of the influence of other exogenous estrogen hormones on the risk of cancer, because it is not known whether any risk that might be associated with DES is specific for that drug or associated with estrogens as a class.

head the NINCDS's newly reorganized extramural program.

In addition to his scientific interest, Dr. Hisaoka was a Judo expert, whose fifth-degree Kodokan black belt earned him membership in the United States Judo Federation. He also was chairman of the Board of Examiners of the Capitol Black Belt Association.

### Wife Works for NINCDS

Dr. Hisaoka is survived by his wife Frances, who works with the NINCDS Fundamental Neurosciences Program; and by his children, Robert and Joan, from his marriage to the late Renko Kuzuhara (who died in 1971), his stepdaughters Robin and Harolyn, and stepson Michael, all of the home in Potomac.

The family suggests that expressions of sympathy be in the form of contributions to the American Cancer Society or to the Patient Emergency Fund.

## Savings Bond Campaign: June 30 Is New Deadline

The 1978 U.S. Savings Bond Campaign at NIH has been extended through June 30.

The extra time is being provided to help those who may have delayed completing a bond allotment form to submit during this year's campaign.

Also, it will help canvassers contact persons who have been on leave or who were undecided about starting a Savings Bond program.

If you haven't signed up, it is not too late to do yourself a favor. Sign up for a U.S. Savings Bond program today.

Future prospective randomized studies on breast cancer screening as well as studies of cancers of reproductive organs should compare populations of women exposed to estrogens and those not so exposed, the report stated.

The final report of the Task Force, which was appointed in March, will be submitted this summer and will concern the cancer risks and other problems of DES-exposed daughters, sons, and mothers.

### Recommend Added Followup

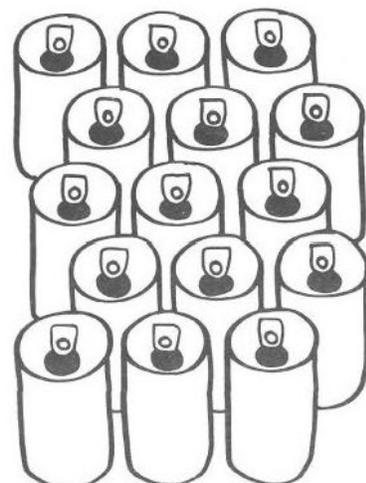
Additional research requirements will be indicated and action recommendations made for followup and notification of exposed individuals, health professionals, and the public.

Science, like art, music, and poetry, tries to reduce chaos to the clarity and order of pure beauty.—  
*Detlev W. Bronk*



Dr. Norman Kretchmer, Director of the National Institute of Child Health and Human Development, has been elected president of the American Pediatric Society. Active in international programs relating to child health, Dr. Kretchmer's research interests are developmental biochemistry and perinatal biology, especially as these areas relate to nutrition and the ability of the individual to adapt to the environment.

## Pitch In and Help PEF! Recycle Aluminum Cans



# CAN IT!

To help alleviate the national problem of litter and solid waste disposal, an all-aluminum beverage can and scrap aluminum recycling drive is being planned for the NIH community.

Everyone will have an opportunity to fight litter by reducing the amount of solid waste, conserve natural resources by recycling or re-using aluminum, and provide a means for further contributions to the NIH Patient Emergency Fund. All money collected from recycling cans will go to PEF.

Containers will be placed near soft drink machines for the disposal of the cans. The containers will be collected three times a week. The principle is similar to a paper drive, only this time it's aluminum cans being collected.

Members of the NIH community can help ecology and help patients as well. Everyone must "pitch in" to help make this a worthwhile project, as 17¢ per pound is received on collected containers.

Note: Only Coca-Cola cans and other all-aluminum cans are acceptable; e.g., Pepsi cans are not acceptable.

## Need Normal Volunteers For Studies on Poison Ivy

Normal volunteers are needed to participate in studies on poison ivy and other antigens.

In these investigations—conducted by the Dermatology Branch, National Cancer Institute—volunteers are being asked to give small blood donations and will be reimbursed for their assistance.

Call Dr. Alan Dattner, 496-1741, for more information on this research protocol.