

the



# Record

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

November 16, 1976  
Vol. XXVIII, No. 23

NATIONAL INSTITUTES OF HEALTH

## Dr. Newell Designated Acting Director of NCI

Dr. Guy R. Newell, deputy director, National Cancer Institute, has been designated Acting Director of the Institute by NIH Director Dr. Donald S. Fredrickson.



Dr. Newell

Dr. Newell will serve until a permanent Director is appointed by the President. The vacancy was created when Dr. Frank J. Rauscher, Jr., resigned to accept a position as Senior Vice President for Research with the American Cancer Society.

Dr. Newell has been deputy director of NCI since 1973. He came here from Tulane University, where he was head of the Section of Chronic Diseases in the department of epidemiology and biostatistics, School of Public Health and Tropical Medicine.

He held positions at NCI twice before: from 1963 to 1965 as a research planning associate in the Office of the Director, and from 1968 to 1970, as assistant for Program, Viral Oncology, in what is now the Institute's Division of Cancer Cause and Prevention.

He holds B.S. and M.D. degrees from Tulane, and an M.S. degree in Hygiene (Epidemiology) from Harvard.

## Dr. Berg Gives NIH Lecture On SV40 Genes Tomorrow

Dr. Paul Berg is presenting the NIH Lecture, entitled Dissections and Reconstruction of the SV40 Genome, tomorrow (Wednesday, Nov. 17) at 8:15 p.m. in the Masur Auditorium.

Dr. Berg is Wilson Professor of Biochemistry at the Stanford University School of Medicine.

He will describe studies undertaken to identify the viral regulatory and structural genes and to map their location on the DNA molecule.

Dr. Ruth Kirschstein, Director of NIGMS, is the host for this lecture. The Institute has funded many of Dr. Berg's studies.

## Immunizations for Flu Scheduled for NIH'ers On and Off Campus

Influenza immunizations are being made available to employees as a convenience through the Occupational Medical Service's Health Units from vaccines furnished by the Montgomery County Health Department.

Since Nov. 1, the bivalent vaccine, A/New Jersey and A/Victoria, has been offered by the OMS. This vaccine is recommended for employees over 65 years of age and all employees with such chronic health problems as heart disease, bronchopulmonary disease, renal disease, and diabetes and other chronic metabolic disorders.

All other NIH employees may obtain the monovalent vaccine, A/New Jersey, by reporting to the health unit that customarily services their building on the schedule listed below, based on the first letter of their last name.

Both vaccines will remain available in the health units following the special scheduled programs.

### Places, Dates Listed

*Bldg. 31 Health Unit, Room B2-B57, week of Nov. 15-19.* Shots for employees A-E, started yesterday, Nov. 15; F-K, Tuesday, Nov. 16; L-R, Wednesday, Nov. 17; S-Z, Thursday, Nov. 18; and Friday, Nov. 19, will be make-up day.

*Westwood Bldg. Health Unit, Room 28, A-K, Monday, Nov. 22; and L-Z, Tuesday, Nov. 23.*

*Federal Bldg., Room 5C-12, Wednesday, Nov. 24, A-K, 8:30 a.m. to noon; and L-Z, noon to 5 p.m.*

*Bldg. 13 Health Unit, Room G901, A-E, Monday, Nov. 29; F-K, Tuesday, Nov. 30; L-R, Wednesday, Dec. 1; S-Z, Thursday, Dec. 2; and Friday, Dec. 3, will be make-up day.*

Employees at the Clinical Center received their influenza shots last week.

Employees with known allergies to eggs or egg products should not receive this vaccine. Also, any NIH'ers who have received vaccination with live measles virus vaccine within 14 days should not receive the vaccine.

Other immunizations, such as diphtheria, pertussis, and tetanus, will not be given at the same time.

## Rock Climbers Stalk Alaskan Kittiwakes In Study of Avian Influenza Virus Shifts



On a recent field trip to Alaska, Dr. Webb of NIAID (c) with Dr. Easterday and his assistant netted wild, free-flying birds for viral sampling. After blood, tracheal, and cloacal samples were taken, the birds were marked and released.

Dr. Alfred M. Webb, chief of NIAID's Office of Program Planning and Projection, found that his experience as a rock climber came in handy while virus-hunting in Alaska last summer.

During a 3-week field trip scheduled from late July to mid-August, Dr. Webb ventured to the rugged, volcanic Pribilof Islands off the southwestern coast, accompanying Dr. Bernard C. Easterday, an expert in animal influenza from the University of Wisconsin and long-time associate with NIAID's influenza program.

They sought avian influenza viruses and antibodies to the viruses in the migratory waterfowl that abound in those regions.

The Alaskan coast and its islands are favorite nesting grounds for species of wild, migratory birds suspected of being important links in the transmission of influenza to other species. At Point Barrow and St. Paul, one of the islands in the Pribilof chain, the team extracted blood, tracheal, and cloacal samples from flocks of free-flying birds.

### Collecting Samples Risky

Stalking and netting the highly mobile birds was risky business, as most reside in the overhanging ledges below steep cliff-tops. At times, collecting samples necessitated descending onto the face of cliffs, requiring mountaineering expertise and equipment.

Dr. Webb assisted Dr. Easterday in safe techniques for belaying and rappelling (descending on a free-

hanging rope)—skills he has perfected in numerous years of rock climbing and vertical caving.

Often, the dangerous and tedious job of collecting was impeded by inclement weather and unreliable

(See VIRUS STUDY, Page 4)

## Bronze Bust of Shannon To Be Unveiled Nov. 23

A bronze bust honoring Dr. James A. Shannon, Director of NIH from 1955 to 1968, will be unveiled on Tuesday, Nov. 23, at 4 p.m., in Bldg. 1, Wilson Hall.

At the base of the bust, mounted on a walnut pedestal, are the words, "presented by his friends." For the present, it will be displayed in the foyer of Bldg. 1.

The life-size sculpture was done by Edith Pear Cohen of Woods Hole, Mass., and Stony Brook, Long Island, N.Y.

Invitations have been sent to former members of Dr. Shannon's staff as well as current NIH staff members. Former associates of Dr. Shannon who wish to attend the unveiling ceremony may contact the Office of Special Projects, Bldg. 1, Room 313, Ext. 64713, for an invitation.

**the**  **Record**

Published biweekly at Bethesda, Md., by the Editorial Operations Branch, Division of Public Information, for the information of employees of the National Institutes of Health, Department of Health, Education, and Welfare, and circulated by request to interested writers and to investigators in the field of biomedical and related research. The content is reprintable without permission. Pictures are available on request.

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

NIH Record Office ..... Bldg. 31, Rm. 2B-03. Phone 49-62125

Editor ..... Frances W. Davis

Associate Editor ..... Fay Leviero

Associate Editor ..... Heather Banks

**Staff Correspondents**

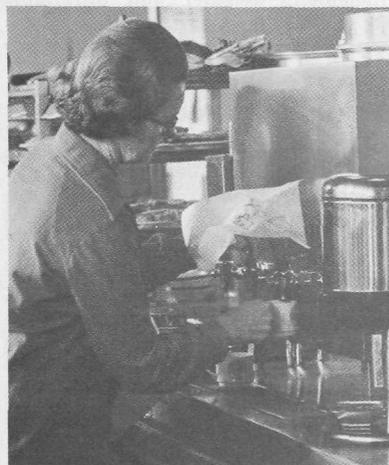
ADA, Judy Fouche; CC, Susan Gerhold; DCRT, Frances Sarles; DRG, Sue Meadows; DRR, Jerry Gordon; DRS, Arthur F. Moore; FIC; George Presson; NCI, Dr. Robert M. Hadsell; NEI, Julian Morris; NHLBI, Bill Sanders; NIA, Ann Shalowitz; NIAID, Margaret McElwain; NIAMDD, Pat Sheridan; NICHD, Doreen Mead; NIDR, Sue Hannon; NIEHS, Elizabeth Y. James; NIGMS, Wanda Warddell; NIMH, Betty Zubovic; NINCDS, Carolyn Holstein; NLM, Frann Patrick.

**The Impact of Drug Promotion Topic of Next AMWA Meeting**

Dr. J. Richard Crout will discuss *The Impact of Pharmaceutical Company Promotion Activities on the Practice of Medicine* at the next meeting of the Mid-Atlantic chapter of the American Medical Writers' Association on Thursday, Nov. 18, at 7 p.m., at Bish Thompson's.

Dr. Crout is Director of the Bureau of Drugs, Food and Drug Administration.

For reservations for the dinner meeting at 7935 Wisconsin Avenue, Bethesda, telephone Mary Matzen, 654-0564.



More than 6,300 NIH'ers—including Kay Daniels of DRG—enjoyed free doughnuts and coffee (as well as the souvenir cups!) when the Credit Union celebrated another anniversary Oct. 21. Some of the 21,000 shareholders, whose savings deposits now total \$56.5 million, also partook of three decorated cakes weighing 75 lbs.

**Dr. Sheldon Wolff Wins Squibb Award for Work in Infectious Diseases**

Dr. Sheldon M. Wolff, clinical director of the National Institute of Allergy and Infectious Diseases, received the 1976 Squibb award at the 14th annual meeting of the Infectious Diseases Society of America held in Chicago, Oct. 25-26.

For the past 9 years, E.B. Squibb & Sons, Inc., has funded the award, which the IDSA grants to a medical investigator, 46 years of age or younger, for "outstanding accomplishments in the field of infectious diseases."

At the awards ceremony, Dr. John R. Seal, NIAID's deputy director and member of IDSA, presented Dr. Wolff with the \$1,000 award, a medal, and scroll.

Dr. Seal acknowledged Dr. Wolff's development of a "strong NIAID clinical investigative program." He also referred to the 46-year-old physician's contributions to understanding the mechanisms of fever and host responses to infection.

**Come to NIAID in 1960**

Since 1966, Dr. Wolff has served as chief of NIAID's Laboratory of Clinical Investigation. He is currently a clinical professor of medicine at Georgetown University and the author of more than 160 scientific papers.

Last August, Dr. Wolff received an honorary doctorate from the Federal University of Rio de Janeiro, where he helped develop a clinical training program in immunology.

**Local High School Co-op Students Trained at DCRT**



Gathered around equipment in the NIH Central Computer Facility are (l to r): Les Farmer and Mike Rosenthal of DCRT; Norman Miller, data processing coordinator, Montgomery Blair High School; Ms. Nobileo; Dr. Mary B. Curry, assistant principal; and (rear) students Duncan Henderson, Llewellyn Forbes, Vincent Belt, Michele Joyner, Juan Marsans, and Elaine Bowen.

The Computer Center Branch of the Division of Computer Research and Technology has recently recruited six Montgomery Blair High School seniors to be trained as computer operators under the Cooperative Education Program, which provides for periods of study interspersed with study-related employment.

The students are enrolled in the Data Processing II Operation and Programming class at their school under the supervision of Norman L. Miller, coordinator of Data Processing.

**Students Receive Credit**

According to Stella A. Nobileo, personnel management specialist, DCRT, who is the liaison person for this program, the selected students will receive high school graduation credits for their work at DCRT. The students must maintain an acceptable level of academic standing in all other classes and have a vocational interest in the field of data processing.

**Leave Status Change for Gov't Employees When Witnesses**

By Public Law 93-310, June 15, 1976, the provisions of section 6322 of title 5, United States Code, were amended effective Oct. 1, 1976, to grant court leave to Federal employees who appear as witnesses in a nonofficial capacity on behalf of a private party in connection with any judicial proceeding to which the U.S., the District of Columbia, or a State or local government is a party.

Any fees paid to the Federal witness on court leave must be turned in to the agency.

The changes do not affect employees appearing as nonofficial witnesses in proceedings when only private individuals, not any Government unit, are involved. In those cases the employee must continue to take either annual leave or leave without pay, but may keep any fees paid for witness service.

**HEW Fellows Can Gain Unique Gov't Experience**

Applications for appointments to the HEW Fellows Program are being invited from men and women now employed primarily outside government.

Now in its 7th year, the Program offers 20 qualified individuals the opportunity to serve for 12 months, beginning September 1977, in key roles with major HEW officials.

It enables those appointed to gain unique experience in governmental policymaking and management.

The Program is designed to identify outstanding talent and to assist in developing potential leadership, but Fellows are expected to maintain ties with their agencies or institutions by leaves of absence, or other arrangements, so that employment may be assured following the year with HEW.

To be considered, qualifications required include that candidates must be U.S. citizens, have a record of demonstrated interest in community service and the Nation's social problems, and qualify in the G.S. range of 11-15 as determined by the Civil Service Commission.

**Details Given**

For the 1977-78 program, applications must be postmarked by Jan. 1, 1977. In January, review panels will select the 200 most highly qualified applicants, and in February, 50 finalists will be invited to Washington at government expense for interviews in the selection of the final group of 20 Fellows.

To learn more about qualifications and how to apply, write Jasper Trigg, director of the program, Room 324D, Trans Point, 2100-2nd Street, S.W., Washington, D.C. 20024, or call (202) 245-6087.

We never repent of having eaten too little.—Thomas Jefferson.

## Reminder—Nov. 30 Is Deadline for Enrollment, Health Benefits Change

Employees must contact their registration assistants by Nov. 30 if they want to enroll or change their present enrollment under the Federal Employees Health Benefits Program.

Official bulletin boards contain lists of names and locations of "Open Season" registration assistants.

The Division of Personnel Management suggests that employees considering retirement read the section in the Open Season instruction booklet dealing with continuing health benefits.

Also, employees should review the inside of the back cover of each 1977 plan brochure for information on how each plan changes next year.

### OMS Offers Film on 'How To Save a Choking Victim'

The Occupational Medical Service is presenting a film this week for NIH employees on "How to Save a Choking Victim—the Heimlich Maneuver."

The 30-minute color movie which teaches this life-saving technique is especially appropriate before Thanksgiving.

The film may be viewed at Bldg. 1, Wilson Hall, tomorrow (Wednesday, Nov. 17) at 11:30 a.m. and 12:30 p.m., and at the Westwood Bldg., Conference Room D, on Friday, Nov. 19, at the same times.

### Marathoners, Fitness Buffs, Health's Angels Offer Booklets

The Health's Angels NIH Jogging Club entered a team of eight among the 1100 runners in the Marine Corps Reserve Marathon held Nov. 7. The 26-mile 385-yard run started at the Iwo Jima Marine Memorial after the Marine Band played the National Anthem.

The course was laid out along both sides of the Potomac River, to Haines Point, and south of Washington National Airport, returning to the Iwo Jima statue.

All who completed the course received certificates, emblems, and T-shirts. Ian Hill was the first NIH'er to finish, in 2 hours, 58 minutes.

Only a few of the more than 60 Health's Angels are marathon runners; the majority are physical fitness enthusiasts who encourage co-workers to develop an exercise program to fit their own needs.

Currently, the group is offering to interested persons two illustrated pamphlets: *Fit for Life*, and *An Introduction to Physical Fitness*. Call Dr. David Young, Ext. 65433, for free individual copies.

## DAS Honors Employees for Outstanding Performance, Suggestions, Special Acts



Mr. Hawkes

Mr. Kenney

Ms. Ruby

For outstanding performance, beneficial suggestions, special acts, and length of service, 180 employees were recognized at the Third Annual Honor Awards Ceremony of the Division of Administrative Services held Nov. 10 in the Masur Auditorium.

Following a welcome by Otis Ducker, DAS Director, Dr. Thomas E. Malone, NIH Associate Director for Extramural Research and Training, and Mattie K. Wright, Director of the PHS Office of Equal Employment Opportunity, addressed the employees.

Raymond Jackson, Director of the NIH Division of Equal Opportunity, introduced Ms. Wright and assisted in the presentation of awards.

During the ceremony, special recognition was accorded to Joseph E. Dorsey, DAS Employee of the Year; James G. Hawkes, recipient of the NIH Director's Award; Daniel F. Kenney, recipient of a Presidential Letter of Commendation; and Laura M. Ruby in appreciation for her efforts in fostering Equal Employment Opportunity for DAS employees.

Mr. Dorsey was selected as DAS Employee of the Year from nominations submitted by all DAS programs. An employee of the Distribution Unit, Shipping and Receiving Section of Materiel Management, his commendation points out that "Joe gives of himself all that is required of his job plus a little more..."

Mr. Hawkes, chief of the DAS Space Management Branch, was honored with the NIH Director's Award for "developing a highly-effective Space Management Program" for NIH.

Mr. Kenney was presented the Presidential Letter of Commendation by HEW Secretary David Matthews in April 1976 in recognition of his "vital contributions toward the critical fight to control recession and inflation, resulting in a saving of \$166,000."

Ms. Ruby was honored for continually demonstrating a high degree of commitment to EEO over a prolonged period, and for introducing into DAS a number of upward mobility opportunities which had previously been unavailable to a significant segment of the DAS population.



Mr. Dorsey was selected as the DAS employee most representative of the outstanding qualities and characteristics which have most significantly contributed to successful program accomplishments and which most typically reflected the DAS service concept in FY 1976.

### Tennis Election Tomorrow

The NIH Tennis Club will hold a general meeting tomorrow, Wednesday, Nov. 17, at noon in Bldg. 31, Room B2-C06.

Items of business include electing officers and planning tennis trips. Men and women tennis players are eligible for membership in the R&W-sponsored club. For further information, call Marianne Oskarsson, Ext. 66738.

### History of Med. Topics Include Surgery, Mummies Nov. 18

The Washington Society for the History of Medicine will meet Thursday, Nov. 18, at 8 p.m. in the Billings Auditorium, National Library of Medicine.

The Compleat Surgeon: The Contributions of W. W. Babcock will be the topic of Dr. Karl C. Jonas of the department of surgery, Washington Hospital Center.

Dr. Luigi Giacometti, director of the Cataract and Corneal Diseases Program, Extramural and Collaborative Programs, National Eye

## Dr. R. Gerloff Retires; Had Notable Career At Rocky Mtn. Lab

After 30 years of outstanding Government service, Dr. Robert K. Gerloff of NIAID's Rocky Mountain Laboratory will now be able to devote more time to his favorite hobby, photography.

Dr. Gerloff's research at RML dealt primarily with the immunology and serology of viral and rickettsial diseases.

He developed an extremely sensitive test for detecting antibodies to polio virus, which was subsequently modified for the detection of antibodies to psittacosis viruses and Q fever rickettsiae.

In recognition of his distinguished achievements in research and his outstanding service in the RML Safety Program—where he served as chairman for the past 10 years—he was recently awarded the PHS Commendation Medal.

A native of Nebraska, he earned both a Bachelor of Science degree in chemistry and a master's degree in microbiology from the University of Nebraska.

Later, from 1943 until 1946, Dr. Gerloff served in the U.S. Navy.

### Joined RML in 1948

His RML career began in 1948 in the Serology Unit, with Dr. Gerloff taking time out from his work to earn a Ph.D. degree in microbiology from the University of Minnesota in 1962.

Dr. Gerloff and his wife, Rachel—also an avid photographer—will continue to reside in Hamilton but look forward to future travel.



Dr. Gerloff received the PHS Commendation Medal this past June for his distinguished research achievements and outstanding service in the RML Safety Program.

Institute, will discuss Histological Studies on the Skin of Egyptian Mummies.

Visitors are welcome. For further information, call Ext. 65961.

## Associate Applications Now Being Accepted

Clinical, Research, and Staff Associateships are 2-year appointments at NIH offering training and experience in clinical and laboratory investigation. Young physicians and dentists from most of the health specialties and basic biomedical sciences are eligible.

Candidates may apply during their third or fourth year of medical school or while in intern or residency training. Associates usually begin their tour of duty after completing 2 years of postdoctoral training.

Most appointments will begin July 1979; however, a few positions are available for July 1978.

The deadline for receipt of applications is Feb. 15, 1977. Interviews will be conducted April 18-29, 1977. Final selections will be made in May by a matching process similar to that of the National Intern and Resident Matching Program.

Application packets may be obtained by writing to: NIH Associate Program, NIH, Bldg. 10, Room 1N-238A, Bethesda, Md. 20014 or call collect: (301) 496-2427/2167.

## Renal Function and Diet Are Topics of NIAMDD Panelists

At the 59th Annual Meeting of the American Dietetic Association, held Oct. 13 in Boston, Dr. Benjamin T. Burton, NIAMDD associate director for Program and chief of the Institute's Artificial Kidney-Chronic Uremia Program, moderated a panel discussion on Nutritional Implications of Renal Disease.

Joining him were Warren E. Grupe, chief of Nephrology, Children's Hospital Medical Center,

## Four New Section Heads Are Appointed to Recently Reorganized NHLBI Extramural Review Branch



Dr. Schwartz (second from left) meets with new section heads (l to r): Dr. Merrick, Dr. Heydrick, Dr. Turbyfill, and Mrs. Brown.

Four new section heads have been appointed to the reorganized Review Branch—headed by Dr. Samuel Schwartz, associate director for Review, Division of Extramural Affairs—in the National Heart, Lung, and Blood Institute.

### Provides Initial Review

While the Division of Research Grants reviews regular research grant applications, the Review Branch provides initial scientific review of more specialized proposals—large grant programs, special research grant and training programs, and research and development contracts.

Boston, and Dr. Marian E. Swendseid, School of Public Health, UCLA—both research contractors in NIAMDD's Artificial Kidney Program—and Dr. Robert J. Wine-man, associate chief of that program, who presented The Dietitian's Role in Quantitative Studies of Dialysis Therapy.

There are four NHLBI standing review committees and *ad hoc* review groups as needed.

The Review Branch also functions as an information, coordination, and referral center, maintaining uniform policies on technical review within the NHLBI.

Ann Brown, chief of the Review Processing Section, has been with the Review Branch and its predecessors since 1962. She will be responsible for the receipt and processing of all grant applications and contract proposals pending NHLBI review, and arrange for project site visits and review meetings.

Dr. Arthur Merrick, chief of the Program Projects Review Section, spent several years teaching physiology before joining NHLBI in 1972.

### Duties Explained

He will coordinate initial scientific merit review of all program project applications for the Institute, as well as for the two major research review committees, A and B.

Dr. Charles Turbyfill, chief of the Centers and Special Projects Review Section, conducted several years of research in radiobiology. He spent 1972 to 1975 as a health scientist administrator at NHLBI, and, subsequently, a year as head of Institutional Training with the National Cancer Institute.

He is primarily responsible for scientific review of center applications and for conference and training grants.

Dr. Fred Heydrick is chief of the Research Contracts Review Section. Before joining the Review Branch in 1971, he spent 10 years in microbiology research at the U.S. Army Biological Laboratories.

He will coordinate scientific merit review of all contract proposals for the Institute and manage the Clinical Trials Review Committee.

## VIRUS STUDY

(Continued from Page 1)

ground and air transportation. Despite these obstacles, more than 530 individual birds of 18 species—with exotic names such as the thick-billed murre, the black- or red-legged kittiwake, and the red-faced cormorant—were bled, swabbed, marked, and released.

Serum was separated from the blood and frozen for future testing at the University of Wisconsin. There, samples will be screened for the presence of antibodies to all 16 known hemagglutinins and to all 10 known neuraminidases, as well as for the viral agents themselves.

Hemagglutinin and neuraminidase are the two major antigens in all influenza viruses.

Investigations of avian influenza viruses, as well as other animal flu viruses, might provide some important clues to the mysteries surrounding human influenza epidemics. Avian influenza viruses are especially useful for viral research as they possess a rich assortment of flu antigens.

### Antigens May Recombine

Frequent opportunity for recombination of these antigens among animal species might account for the major antigenic shifts characteristic of new human influenza outbreaks.

In addition, avian influenza poses an economic problem for poultry farmers in the Midwest. Some strains of the virus have been suspected of causing major outbreaks among 23 million turkeys in Minnesota which have contact with free-flying birds.

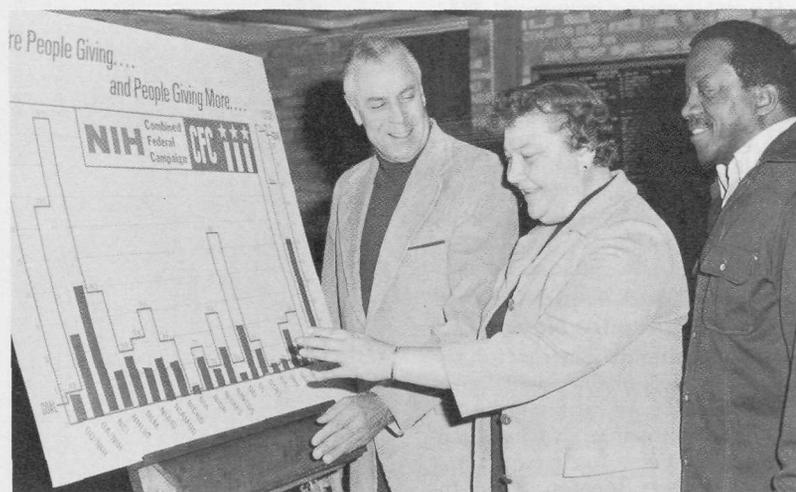
Results from the Alaskan field and laboratory studies are still inconclusive, but the researchers hope that the results will yield more information on the complex nature of influenza viruses.

### Sponsors Named

The trip was largely funded by a grant from the National Science Foundation. The Naval Biosciences Laboratory, a marine mammal research center on St. Paul Island, and the Naval Arctic Research Laboratory at Point Barrow provided laboratory facilities and served as home-base for the researchers.

Dr. Easterday is an NIAID subcontractor studying the surveillance and ecology of animal influenza. He and Dr. Webb, who joined NIAID in 1960, have been professional colleagues for more than 20 years. In 1954 they worked together on a field laboratory project studying animal diseases in Africa.

Providence requires three things of us before it will help us—a stout heart, a strong arm, and a stiff upper lip.—Sam Slick.



Three keypersons for the NIH Combined Federal Campaign—Jim Bozek, FIC; Carol Matheny and Framous Edwards, NIA—are happy when they check the CFC chart and see how well their units are doing. They hope that by the time the campaign ends on Nov. 12 many others will have attained their goal. The Nov. 8 tally reports NIH contributions of \$184,179.21, 79 percent of our goal, averaging \$36.49 per person, with 50 percent participation. Eight components have reached over 100 percent of their goal: DRG, DRR, FIC, NIA, NIDR, NIGMS, NLM, and OD.

## High Blood Pressure In Workers Examined At 1-Day Conference

A national conference of business and industry leaders to identify and examine the implications of high blood pressure control in the work setting was called by HEW Secretary David Mathews on Oct. 14 at the Washington Hilton Hotel.

The 1-day conference—sponsored by the National High Blood Pressure Education Program of the National Heart, Lung, and Blood Institute—considered the identification, treatment, and prevention of high blood pressure in America's work force.

Assistant Secretary for Health Dr. Theodore Cooper, the keynote speaker, discussed several discoveries made since the Program began in 1972.

He said that today there are far fewer hypertensives unaware of their illness, and that hypertensive women are twice as likely to be aware of their disease and seek adequate treatment as males.

Dr. Cooper suggested that we have to find better ways to reach the male population and see to it that they receive and maintain adequate treatment.

He noted that workers lose an estimated \$9 billion in wages every year because of high blood pressure, and industry loses 52 million



Graham Ward (l), program coordinator for the NHBPEP, chats with Dr. James A. Schoenberger, chairman, department of preventive medicine, Rush-Presbyterian-St. Luke's Medical Center, during a conference break.

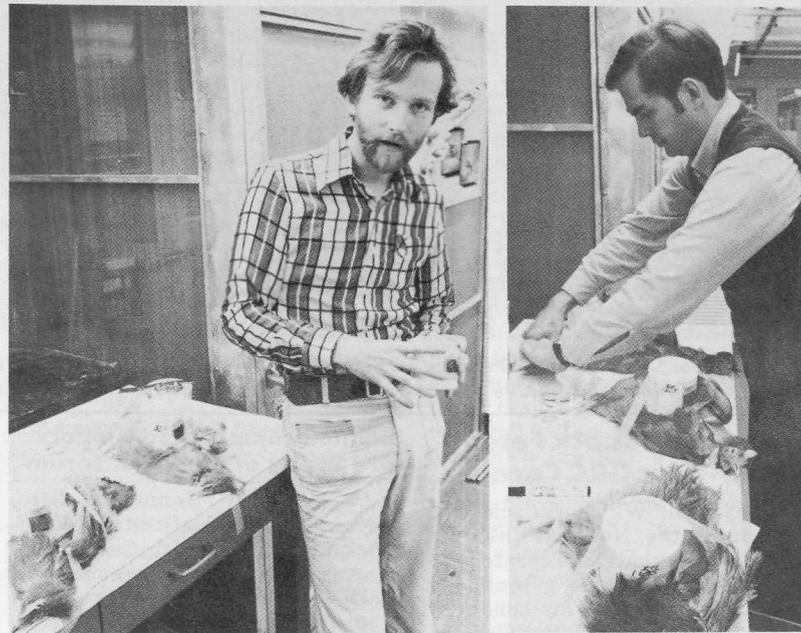
man-days of production, management, and work skills.

He concluded that the workplace offered an ideal arena in which to expand the battle against high blood pressure since about half of all adults and two-thirds of all men can be reached on a regular basis at their place of employment.

The original Conference Planning Committee will reconvene in November to discuss actions recommended by the conferees.

Conference proceedings will be published in December, and will be available through the High Blood Pressure Information Center, 120/80, NIH, Bethesda, Md. 20014.

## Immunized Hosts Block Malaria Parasites In Mosquitoes, NIAID Researchers Find



Drs. Carter (l) and Gwadz conduct their studies with Long Island Red chickens and infectious mosquitoes contained in the white cups with a fine screen top. The cups are taped in place with screen side down, allowing the mosquitoes to feed but not to escape.

NIAID scientists have taken a new approach to controlling the spread of malaria—vaccination against the sexual forms of the parasite that infect the mosquito. By inducing this immunity in chickens on which mosquitoes feed, they have blocked the parasite's development in the mosquito, thus preventing it from transmitting the disease to its next victim.

Attempts by other investigators to produce an anti-malarial vaccine have been directed against the parasite's asexual forms when they are outside the infected host's cells and probably most vulnerable to defense mechanisms such as antibodies.

The new vaccine is also aimed at free parasites, but at the sexual forms (gametes) that are released from infested red blood cells in the mosquito's gut.

As reported in the Sept. 17, 1976 issue of *Science*, Dr. Robert Gwadz of NIAID's Laboratory of Parasitic Diseases immunized chickens weekly for various lengths of time with red blood cells containing the avian malaria parasite, *Plasmodium gallinaceum*. These parasites had been previously inactivated by X-rays or chemical treatment.

A short time after the last inoculation, Dr. Gwadz infected the chickens with malaria. Although the vaccine had little effect on malaria infections in the chickens, the parasitic infection in mosquitoes fed on immunized chickens was significantly altered.

These mosquitoes had 95-98 percent fewer oocysts—the form of the parasite that develops in the wall of the mosquito's gut following gamete fertilization—than mosquitoes fed on non-vaccinated chickens.

Using a different immunizing agent, Drs. Richard Carter and David Chen, also of the Laboratory of Parasitic Diseases, reduced oocyst formation even further—99.9 to 100 percent. According to their paper in the Sept. 2, 1976 issue of *Nature*, they immunized chickens with X-irradiated partially purified free gametes.

All the chickens—except those vaccinated with the fewest number of gametes—remained totally uninfected to mosquitoes throughout the time when the parasites were present in the red blood cells.

### Further Findings Described

Further experiments by Drs. Gwadz, Carter, and Chen indicate that the protection of the mosquitoes is due to the action of antibodies that were produced in the chicken.

When the mosquito ingests these antibodies along with parasites in a blood meal, the antibodies immobilize the male gametes in the mosquito's gut, preventing the fertilization of the females and the establishment of infection.

The researchers feel that the translation of a gamete-based vaccine into a realistic measure for combating human malaria faces many problems. Not only must the effectiveness of the gamete vaccine for human malaria be demonstrated, but the means must be

## Enthusiastic Participants Attend 1st Diabetes Day

Designed to encourage audience participation, Diabetes Day—held Oct. 16 in the Masur Auditorium—provided a forum for the much-needed transfer of scientific information from the research laboratory to the bedside.

Approximately 400 persons attended the 1-day symposium on the skillful management of the diabetic patient. Lecture and panel sessions drew physicians and allied health professionals from Bethesda and areas as distant as California.

Diabetes Day, a concept originated by Dr. Joseph E. Rall, scientific director of the National Institute of Arthritis, Metabolism, and Digestive Diseases, and Dr. Jesse Roth, chief of the NIAMDD Diabetes Branch, is a new venture by NIH in professional education, reflecting an expanded commitment to the continuing education of community-level health practitioners.

The program, featuring international authorities in diabetology, centered on the office management of the obese diabetic, reactive hypoglycemia, ketoacidosis, insulin receptors and human disease, as well as diabetic neuropathy and retinopathy.

The discussions concerning dietary management of the diabetic patient, and the understanding and treatment of ketoacidosis drew keen interest as evidenced by the ensuing question and answer sessions.

### Dr. Henry Is Chairman

Chaired by Dr. W. Lester Henry, Howard University School of Medicine, and Dr. Lillian Recant of Georgetown University and the D.C. VA Hospital, the symposium featured the following guest speakers: Dr. K. G. Alberti, University of Southampton, Great Britain; Dr. John K. Davidson, Emory University School of Medicine.

Also, Dr. Max Ellenberg, Mt. Sinai Hospital and School of Medicine, N.Y.; Dr. C. Ronald Kahn, NIAMDD Diabetes Branch; Dr. Carl Kupfer, Director of the National Eye Institute; and Dr. Leonard L. Madison, University of Texas Southwestern Medical Center, Dallas.

found for producing large quantities of suitable immunizing materials.

If these and other scientific problems can be overcome, gamete vaccination may have considerable significance not only for the control of malaria, but possibly for other vector-borne diseases—such as trypanosomiasis and filariasis—in which the disease organisms undergo marked transformations after entry into the vector.

## NIEHS Collects Teratology Data, References; Plans Later Indexes, Exchanges

An Environmental Teratology Information Center is being established by Dr. Robert E. Staples, of the National Institute of Environmental Health Sciences, at the Oak Ridge National Laboratory of the Energy Research and Development Administration.

At present, teratology data on environmental components are difficult to locate because such data on chemicals and other agents are often included in publications on general toxicity and are not often listed in titles.

Additionally, no central file currently exists that specifies what chemicals or agents have been tested, to what extent, or in what species.

This information is necessary for those who must assign priorities for study, for evaluating the teratogenic potential of individual agents, and for preventing unplanned duplication of research effort.

### Gathers Publications

The Center collects reprints, enters bibliographic information on magnetic tapes, and prepares extracts of publications containing data pertinent to determining the teratogenic potential of environmental agents or conditions to which man is exposed.

It will also prepare lists of investigators with studies in progress on given agents.

Information collected will be made available through the National Library of Medicine's TOX-LINE and Toxicology Data Bank. Because ETIC is still in the early stages of development, its staff cannot solicit requests for references and extracts at this time.

An advisory committee is guiding development of the Center. Initial efforts concentrate on gathering data on both positive and negative results from studies conducted on warm-blooded animals.

### Includes Other Aspects

After this information is entered into the system, information will be entered on other aspects of teratology, including methodology, embryology, human syndrome identification, placental transfer, pharmacokinetics, and metabolism.

Information is indexed by agent, ETIC access number, Chemical Abstract Services Registry number, Wisswesser Linear Code, test animal, and investigator. Ultimately, plans are to extract 18 information fields from each reference. A chemical dictionary lists all synonyms of agents studied and information pertinent to teratologists for conducting tests.

Center staff are locating current



The Preschool Developmental Program in Bldg. 35 was briefly populated with Indians, Cinderella, Batman, ghosts, goblins, witches—and even Charlie Brown—when the children celebrated Halloween on Oct. 29.

## Dr. Nathan Shock Feted For 35-Year GRC Career

Dr. Nathan W. Shock, scientific director of the National Institute on Aging, recently celebrated 35 years of leadership in gerontology at a banquet held in his honor.

Often called the "father" of aging research both in America and abroad, Dr. Shock has headed the NIA Gerontology Research Center since 1941 and built up the center from a two-man staff to its present complement of more than 150 investigators and supporting personnel.

To praise Dr. Shock's career in gerontology, 134 friends and colleagues gathered. An alumnus of the NIA center, Maryland State Secretary of Health Dr. Neil Solomon presented a proclamation citing Dr. Shock's long service to the State Commission on Aging, while a representative of the Baltimore mayor's office gave him a citation for his services to the city.

NIA clinical director Dr. Reubin Andres traced Dr. Shock's research career. Another alumnus, Dr. Myron Weisfeldt, now Director of the Cardiac Division, Johns Hopkins University, cited Dr. Shock's encouragement of young scientists who trained at the Baltimore Center.

Arthur Norris, chief of the Human Performance Section, Clinical Physiology Branch, GRC, presented a rare set of German postage stamps to the avid philatelist. Dr. Shock thanked his many friends at-

ending the banquet, saying that the success of the GRC "... can be attributed to my good luck in the people who came to work at the center over the years."

studies by personally contacting teratologists, by manually screening about 30 journals, and by scanning available computer tapes from large multidisciplinary data bases. They are locating reprints through use of teratology files made available by individuals and organizations. Communication with such individuals is now simplified because the names and addresses of members of the American, European, and Japanese Teratology Societies have been entered into the information system.

## Immunocompetence, Tumors Are Topics of 4th Wed. Forum

Dr. Michael G. Hanna, Jr., director of Basic Research at the Frederick Cancer Research Center, will discuss How Immunocompetent Cells Destroy Tumors at NCI's Fourth Wednesday Forum on Nov. 24. The meeting, open to all NIH staff, will be held in Wilson Hall, Bldg. 1, from noon to 1 p.m.

Dr. Hanna, who is engaged in animal research in the field of immunology and cancer, will discuss stimulation of the animals' immune system against cancer, and will show a movie of cancer cells being killed by immunocompetent cells. The movie is interspersed with electron microscopy slides which reveal the actual biological process taking place.

After his talk, Dr. Hanna will respond to questions.

tending the banquet, saying that the success of the GRC "... can be attributed to my good luck in the people who came to work at the center over the years."

## Eminent Surgeons Discuss Status and Future Trends Of Vascular Grafts

An international meeting of outstanding cardiovascular surgeons was held at NIH on Nov. 5 and 6 to discuss Vascular Grafts: Current Status and Future Trends.

At the symposium, sponsored by the National Heart, Lung, and Blood Institute, presentations covered problems of the vascular arterial tree, perspectives in vascular grafting, a brief history of the development of vascular grafts, and trends on recent major technological and scientific developments.

A wide range of topics was covered, from the nature of the vascular interface with blood to some of the technological features of new graft materials.

Also, many eminent cardiovascular surgeons discussed developments in relevant surgical techniques over the past decade, and their experience with new prostheses.



The recent agreement between the American Federation of Government Employees, Local 3657 and the Gerontology Research Center, National Institute on Aging, Baltimore, approved by NIH Director Dr. Donald S. Fredrickson on Sept. 17, covers two GRC units—professional and nonprofessional permanent employees. Members of the negotiating team seated l to r: Charles Mintess, AFGE national representative; Francel Smith, president, Local 3657; Dr. Nathan Shock, chief, GRC and member for management; William Van Rooy, chief negotiator for management. Standing, l to r: Gertrude Kokkonen and Annette Watts, members for the union; Gloria T. Riley, from Labor Management Branch, DPM; Dr. Reubin Andres, Michael Rosenthal, and Alan French, members for management, and Shirley White, NIA Personnel Office. Not present were Ona Lescure and Barbara Thomas.

## NIH Visiting Scientists Program Participants

10/18—Dr. David J. Crutchley, United Kingdom, Pharmacokinetics Section. Sponsor: Dr. Thomas Eling, NIEHS, Research Triangle Park, N.C.

10/26—Dr. Pamela Bridgen, United Kingdom, Laboratory of Chemical Biology. Sponsor: Dr. Christian Anfinsen, NIAMDD, Bg. 10, Rm. 9N307.

10/26—Dr. Wen-Chang Chang, China, Endocrine Section. Sponsor: Dr. Robert I. Gregerman, NIA, Gerontology Research Center, Baltimore, Md.

10/26—Dr. Domenico Frezza, Italy, Microbial Genetics Section. Sponsor: Dr. Errol Zeiger, NIEHS, Research Triangle Park, N.C.

10/26—Dr. Joanna Lubicz-Woyciechowska, Poland, Infectious Diseases Branch. Sponsor: Dr. David L. Madden, NINCCS, Bg. 36, Rm. 5C22.

10/26—Dr. Olivera Saljinska Markovic, Yugoslavia, Clinical Hematology Branch. Sponsor: Dr. N. R. Shulman, NIAMDD, Bg. 10, Rm. 9N250.

10/28—Dr. James Gordon Johnson, Canada, Laboratory of Parasitic Diseases. Sponsor: Dr. Louis H. Miller, NIAID, Bg. 8, Rm. 326.

10/29—Dr. Karol Kociolek, Poland, Laboratory of Molecular Aging. Sponsor: Dr. Josef Pitha, NIA, Gerontology Research Center, Baltimore, Md.

11/1—Dr. Gerhard Baumann, Switzerland, Metabolism Branch. Sponsor: Dr. S. Peter Nissley, NCI, Bg. 10, Rm. 4N115.

11/1—Dr. Nikolay A. Dorfman, U.S.S.R., Division of Cancer Biology and Diagnosis. Sponsor: Dr. William D. Terry, NCI, Bg. 10, Rm. 4B17.

11/1—Dr. Lars E. Ericson, Sweden, Cell Organization Section. Sponsor: Dr. Seymour Wollman, NCI, Bg. 10, Rm. 4B47.

11/1—Dr. Nelson Santos, Brazil, Laboratory of Neurochemistry. Sponsor: Dr. Seymour Kaufman, NIMH, Bg. 36, Rm. 3D30.

11/1—Dr. Hiro-Aki Yamamoto, Japan, Nucleic Acids Section. Sponsor: Dr. Tsuyoshi Kakefuda, NCI, Bg. 37, Rm. 3C11.

11/7—Dr. Makoto Takai, Japan, Drug Design and Chemistry Section. Sponsor: Dr. John A. Beisler, NCI, Bg. 37, Rm. 6D18.

## Rabbi M. Kleinberg Retires; Lauds Role of CC Patients

Rabbi Maurice Kleinberg, who has been a chaplain at the Clinical Center for the past 9 years, recently retired from the Spiritual Ministry Department after 34 years of Federal and military service.

He and his wife plan to settle near Beverly Hills, Calif., close to Santa Monica where Rabbi Klein-

## Conferees Will Examine Aspects of Guinea Pig For Study of Malignancies

The National Cancer Institute and Microbiological Associates, Inc., will sponsor a conference on guinea pig L<sub>2</sub>C leukemia on Nov. 17 and 18 from 9 a.m. until 5 p.m. at the Bethesda Holiday Inn.

Dr. Ira Green, Laboratory of Immunology, NIAID, and Dr. J.S. Rhim, Microbiological Associates, Inc., will co-chair the meeting which will examine the immunological, virological, and clinical aspects of this valuable animal model for the study of malignancies.

### Topics Listed

Among the topics to be discussed are: the correlations between the L<sub>2</sub>C leukemia's immunologic properties and Ia antigens (antigens associated with the immune response genes); immunization and chemo-immunotherapy against L<sub>2</sub>C leukemia; the morphology of guinea pig leukemia associated viruses; and biochemical characterization of an agent associated with L<sub>2</sub>C leukemia.

The meeting is open to all interested persons. Programs can be obtained by contacting Dr. Rhim at 654-3400.



Ernest Lee Souder has been appointed contracting officer for the National Institute of Arthritis, Metabolism, and Digestive Diseases, succeeding William Carr, who retired last year. Mr. Souder, who came to NIH in 1968 as a negotiator in the central research contracts office, joined NIAMDD in 1971. A graduate of the University of Maryland, he has received Government-sponsored specialized training from the USDA Graduate School, the DHEW training program in Manassas, Va., and the Civil Service Commission.

berg had been stationed during his military career.

Reflecting on his years here, Rabbi Kleinberg said, "... I have received so much from the patients. Our patients do a great service by participating in NIH research and they play an important role in the contribution to science."

## NLM's Lister Hill Center Demonstrates New Library, Computer Technologies

Libraries have not, in general, been quick to employ computer technology for reasons including initial cost, lack of technically oriented staff and management, and lack of cost-effective models to emulate. In addition, there is the hesitancy to change shared by all large service-oriented organizations.

To help break down this reluctance, the Lister Hill Center's Computer Technology Branch is developing and demonstrating models of technology that can be applied to library functions in its new Learning Resource Laboratory.

Examples of these demonstration models include an input processing system for selection and acquisitions (using a minicomputer), an on-line interface to the public catalog which provides a catalog card output format and can be used without a knowledge of ELHILL 3, and a MARC to MEDLARS translation system.

The Laboratory will also spur solutions to information processing problems that affect the health community with major effort devoted to educational technology. The Laboratory serves as a "window to the world" of the myriad innovations possible with modern computer and data communications technology.

The Laboratory, on the Library's A-level, has been carefully laid out to make maximum use of its 20 x 24-foot space. It contains equipment that supports research and development using minicomputer, microprocessor, intelligent terminal, and graphics capabilities.

One emphasis of the Laboratory is Computer Based Educational Materials. Several CBEM systems developed by health science education institutions are available for

## New Book Compiles Data About Gluconeogenesis

A recently published book, *Gluconeogenesis: Its Regulation in Mammalian Species*, was edited by Drs. Myron A. Mehlman and Richard W. Hanson.

Dr. Mehlman is interagency liaison officer in the Office of the Director, NIH, and Dr. Hanson is with the Fels Research Institute and Temple University Medical School.

The two editors have sought to compile the most significant information gleaned from 25 years' research on gluconeogenesis. Subjects range from the biochemistry of specific gluconeogenic enzymes to the regulation of glucose synthesis in humans.

Differences in gluconeogenic control mechanisms among various species are considered in this volume. Understanding these differences has led to the development of new models for designing experimental approaches to human studies.

demonstration in the Laboratory, including those from the universities of Illinois (PLATO), Kansas, Wisconsin, and California (San Francisco), Ohio State University, and the Massachusetts General Hospital.

While each of the systems is unique, their availability in the Laboratory provides a centralized facility where they may all be examined and compared. The addition of more systems for demonstration is anticipated in the near future.

For further information, contact: Charles M. Goldstein, Chief, Computer Technology Branch, Lister Hill Center, National Library of Medicine, Bethesda, Md. 20014.

## Dr. B. Witkop Is Guest Lecturer At University of Manitoba

Dr. Bernhard Witkop, chief of the National Institute of Arthritis, Metabolism, and Digestive Diseases Laboratory of Chemistry, was the fifth annual guest lecturer of the Armes Memorial Lecture last month at the University of Manitoba, Winnipeg, Canada.

In addition, he gave a half-hour interview to the Canadian Broadcasting Corporation on the Role of Chemistry in Modern Medicine.

Dr. Witkop is known for his work on oxidation mechanisms, novel natural products, toxins, venoms and intermediary metabolites, and has received a number of international awards and honors.

Most recent among these is Japan's Order of the Sacred Treasure in 1975.



Phyllis Dawkins, clerk-typist in NHLBI's Clinical Trials Branch of the Division of Heart and Vascular Diseases, recently became second place winner in Greyhound's bicentennial contest in this area for her essay on *What America Means to Me*.

## Dr. Mary Jane Jesse Joins NHLBI Division As Associate Director

Dr. Mary Jane Jesse, Berenson Professor of pediatric cardiology at the University of Miami Medical School, has assumed the position of associate director for Program Coordination, Division of Heart and Vascular Diseases, National Heart, Lung, and Blood Institute.

Dr. Jesse, a national leader in pediatric cardiology, will advise the division director regarding the Division's programs and activities in the fields of arteriosclerosis, hypertension, cardiology; and prevention, control, and education.

Her activities at the NHLBI will be carried out under the Intergovernmental Personnel Act.

Previously, Dr. Jesse served on many of NHLBI's review committees and task forces, including the High Blood Pressure Education Program's Task Force on Pediatric Hypertension, the Workshop on Genetic Factors in Atherosclerotic Diseases, the Review Committee for Specialized Centers of Research in Atherosclerosis, and the Epide-



Dr. Jesse, the Women's Medical Association of New York Distinguished Scholastic Record Award winner, received the Caritas Medal of the Spalding-Nazareth Alumni Ass'n.

miology and Disease Control Study Section.

At the University of Miami Medical School, her research activities include the clinical implications of atherosclerosis in childhood, pulmonary mechanics in congenital heart disease, regulation of ventilation in the newborn; and she was principal investigator for the study of atherosclerosis in childhood under a Specialized Center of Research grant.

She was also active on the Women's Commission at the University as well as the Women's Advisory Committee on Academic Affairs.

Dr. Jesse received her A.B. from Nazareth College in Louisville, Ky., and her M.D. degree from the Columbia College of Physicians and Surgeons.

## Patient Emergency Fund Asks Donations Or Critical Assistance May Be Curtailed

\*\*\*\*\*

\* the patient emergency fund and the davis plan \*

\* MAKE A CLINICAL CENTER PATIENT'S LIFE HAPPIER DURING THE HOLIDAY SEASON, AND ALL THROUGH THE YEAR \* \*

\* GIFTS ARE TAX DEDUCTIBLE \* \*

\* ENCLOSED IS A GIFT OF \$ \_\_\_\_\_ (Make checks payable to the NIH PATIENT EMERGENCY FUND) \*

\* Send to NIH PEF; B/I/D Administrative Officer; the CC Social Work Department, Bldg. 10, Rm. 7D51, or to the R&W Office, Bldg. 31, Rm. 1A18, or take to any R&W Gift Store \*

\* Donor's Name \_\_\_\_\_, Inst./Div. Bldg. Rm. \_\_\_\_\_ \*

\*\*\*\*\*

This year the Patient Emergency Fund itself faces an emergency. Simultaneous inflation of prices and decreased contributions threaten to curtail much needed assistance of Clinical Center patients, according to Barbara A. Murphy, CC Social Work chief and administrator of the Fund.

Although CC patients have no medical or hospital charges at NIH, many need assistance that cannot be paid for out of Government funds.

Last year the PEF spent nearly \$58,500, but this year only about \$30,000 was available.

The most important and costly need is to provide room and board—on the recommendation of an NIH physician—for relatives so that they can stay with patients during critical periods of illness.

The Fund also pays for such practical needs as haircuts, clothing, and bus fares.

### Need Morale Boosters

Morale boosters are needed, too, by patients. For instance, the PEF has paid the bus fare so that a patient could visit his newborn baby.

Contributions are the only source of income for the Fund, and NIH employees have been major contributors.

Many NIH'ers donate to the Fund through the Davis Plan, a holiday tradition. Instead of exchanging gifts or sending greeting cards among fellow workers, they give the money to the PEF.

This year contributions are needed more than ever before. Send donations to the Patient Emergency Fund or to the Davis Plan, Bldg. 31, Room 1A-18 (or any of the R&W stores), or use the coupon.

### Use or Lose Annual Leave Schedule Needed by Nov. 21

Employees should schedule by Nov. 21, in writing, "use or lose" annual leave for use during the remainder of the leave year ending Jan. 1, 1977.

When scheduling this leave, be sure to take into consideration that Friday, Dec. 24, and Friday, Dec. 31, will be official Government holidays.

## Dr. Harry Saroff Named Chief of NIAMDD's Lab Of Biophysical Chemistry



In addition to other administrative duties, Dr. Saroff will be setting up collaborative projects with other laboratories and institutions.

Dr. Harry A. Saroff has been appointed chief of NIAMDD's Laboratory of Biophysical Chemistry, succeeding Dr. Koloman Laki, who has asked to be relieved as laboratory chief to devote full time to research. Dr. Laki will remain as chief of the Section on Physical Biochemistry.

Dr. Saroff received his B.S. and M.S. degrees in chemistry and his Ph.D. in organic chemistry from the Rensselaer Polytechnic Institute. He also received special training in the physical chemistry of proteins from Harvard Medical School, where he was a research fellow.

He entered the services of the Naval Medical Research Institute in 1947 as a research executive in chemistry, and in 1949 he joined the NIAMDD staff. In 1964, he was appointed chief of the Section on

## Blue Cross Will Explore Cancer Screening Costs For Insurance Programs

A major project to explore ways in which the costs of cancer screening and diagnosis can be reimbursed by health insurance programs is being funded by the National Cancer Institute.

The Division of Cancer Control and Rehabilitation has awarded a 3-year contract to the Blue Cross Association to design a cost-effective cancer screening program.

The Blue Cross Association—the coordinating agency for the 69 Blue Cross Plans in the U.S.—will first evaluate the success of a number of detection tests in discovering cancers at an early stage, and the cost effectiveness of these tests.

Economic data will be gathered to determine whether the costs of screening specific type of cancer and treatment of cancer detected at an early stage can be lower than the costs now incurred by third-party payers to treat cancers detected at a later stage after symptoms have become apparent.

Comparative costs of administering the two types of coverage will also be considered.

Current screening programs financed by the Federal Government, industry, labor unions, and prepaid health plans will be analyzed.

Criteria will be developed for selection of the cancer sites, high-risk target populations, and kinds of tests offering the greatest potential for detection when the cancer is localized or the tumor still in a premalignant state.

When Blue Cross has created a model screening program, it will produce guidelines on how to operate such a program; for example, standards will be written for different types of medical settings.

## Lab Safety Course to Be Held For Research Staff Dec. 7-8

A course on laboratory safety and contamination control for research personnel will be held Dec. 7-8, from 8:30 a.m. to 5 p.m., in Bldg. 1, Wilson Hall.

The 2-day course, entitled Principles of Biohazard and Injury Control in the Biomedical Laboratory, is sponsored by the Office of Research Safety, National Cancer Institute.

There is no charge for attendance, which will be limited to 60 participants. Those interested should complete HEW Training Form 350 and send it through their B/I/D personnel offices.

For further information, call Ext. 61862.

Macromolecules, which investigated macromolecular structure of biological importance.