

# The NIH Record

## Nurses Play Key Role

### AIDS Clinic Staff Faces Heavy Workload

By Blair Gately

The Clinical Center's 11th floor outpatient clinic is in the forefront of clinical AIDS research and, as its workload has increased with the scope of the epidemic, the teamwork of its staff has helped to ease the burden.

The clinic, which recently celebrated its second anniversary, is operating at full speed with both its support staff and an integrated computer system in place.

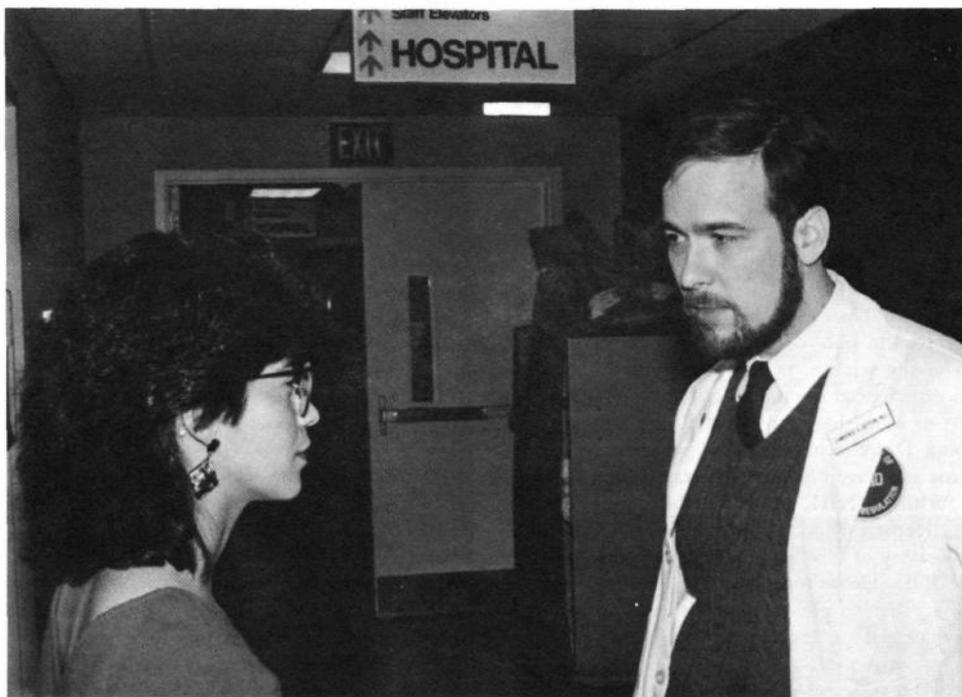
"The clinic is a truly collegial operation and there is a lot more autonomy than in other places," says Nancy Sears, a primary care nurse who has worked for the clinic since its inception in November 1985.

"We have established a state of the art system for drug trials, primary care nursing, evaluation of people with HIV and data collection," said Dr. H. Clifford Lane, senior investigator, Laboratory of Immunoregulation, NIAID, and deputy clinical director, NIAID.

Lane says one of the key features of the clinic is its computer system, which facilitates information sharing between the research lab, the clinical lab and the clinic.

During the last few years, the Laboratory of Immunoregulation has conducted clinical trials

**(See CLINIC, Page 4)**



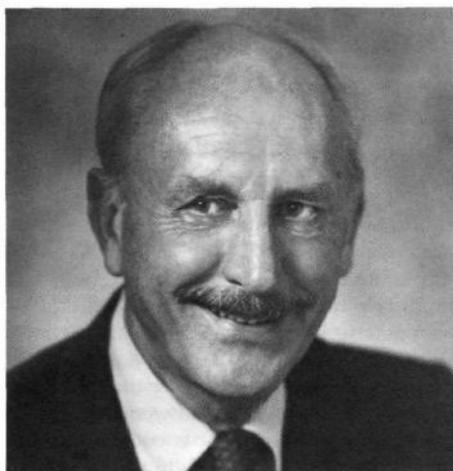
Dr. Lawrence Deyton (r) discusses one of his patients with nurse Laura Govoni. Deyton, a staff fellow assigned to NIAID's AIDS clinic for one year, serves as primary physician to patients participating in drug trials. The clinic recently celebrated its second anniversary.

### NIH Executives Receive Presidential Recognition

At a White House ceremony on Jan. 5, President Reagan recognized four NIH staff members by presenting the Distinguished Executive Rank to them. The award, \$20,000, recognizes sustained extraordinary accomplishments by Senior Executive Service employees in the federal government. The recipients and their citations:

**Dr. David R. Davies**  
Chief, Section of Molecular Structure,  
NIDDK

"He is an internationally recognized protein crystallographer and his research in structural biology has contributed greatly to the understanding of how the body's immune system operates. Because of his work, scientists now know the exact shape and configuration of antibodies and their intricate structural pattern that enables the antibody to recognize an infectious agent and inactivate it. He was recently elected to the National Academy of Sciences."



Dr. David Davies

**Dr. Gary Felsenfeld**  
Chief, Section on Physical Chemistry,  
NIDDK

"He has made major contributions to the advancement of the basic mechanisms of life through his research on deoxyribonucleic acid (DNA), the carrier of genetic information. One of the mysteries of biology has been the question of why all cells have the same DNA and thus, the same genetic information, and yet are as different as brain, liver, and skin cells. He discovered that each cell uses only part of the DNA and that the part used determines what kind of cell it becomes. This knowledge is vital to the understanding and eventual control of diseases such as cancer."

**Dr. William F. Raub**  
Deputy Director, NIH

"He has assumed increasing responsibility for the policy direction of the largest publicly funded bio-

**(See HONORS, Page 6)**

## Two New Fogarty Scholars Arrive at NIH for Study

Two noted scientists arrived at NIH this month to begin their Fogarty Scholars-in-Residence appointments.

They are Dr. Bernard D. Davis, professor of bacterial physiology (emeritus) at Harvard Medical School, and Dr. Elwood V. Jensen, professor of biochemistry at the University of Chicago.

Davis is best known for his development of the penicillin method of obtaining bacterial mutants. This work has made it possible for any biochemical laboratory to use bacterial mutants as tools for the study of biochemical processes.

In recent years, he has been actively involved in public discussion of current issues involving science, public policy and ethics. As an experienced microbiologist, he has spoken out to warn that many of the fears expressed about DNA recombination have no scientific basis and have been greatly exaggerated.

While at NIH, Davis will collaborate with Dr. Herbert Tabor and his colleagues in the laboratory of biochemical pharmacology at NIDDK. He will also continue writing a book for a general audience on the promise and risks of genetic engineering.

Jensen is well known for his pioneering work on steroid hormone action. He and his colleagues at the University of Chicago developed estrogen receptor assays, which are used today routinely as a guide to prognosis and therapy in breast cancer.

Since 1983, Jensen has also been medical director of the Ludwig Institute for Cancer Research in Zurich, Switzerland. While at NIH, he will be associated with the Endocrinology and Reproduction Research Branch in NICHD.

Both scholars-in-residence have offices in Stone House. □

## NINCDS Seeks Volunteers

NINCDS is seeking healthy men, ages 18 to 45, to participate in medical research studies.

Participants must be unmedicated and free of medical and neurologic illness. Financial compensation will be provided.

For further information, contact Dr. Orrin Devinsky, 496-5121. □



*Federal long-distance telephone service isn't free; your agency pays for each call. If you use your work phone to make personal calls, you add to your agency's bill. Currently, personal long-distance calls made on office phones cost the government an estimated \$90 million yearly. So play fair and don't misuse your office phone. It's a personal responsibility.*

## Volunteers Needed

Do you remember back when you were in high school and there was that special teacher, neighbor, or friend of the family that helped you learn about something that really interested you? NIH in conjunction with the R&W and the Explorer Program of the Boy Scouts of America can help high school age youth in our community learn about various careers available at NIH.

If you are interested in volunteering your time to help begin this worthwhile project, drop a note to R&W, Bldg. 31A, Rm. B1W30, % Randy Schools. We are looking for individuals who want to share their experiences and help young men and women of the Washington area learn about science and its support services. Help us to help you develop a more positive environment for our next generation of leaders. □

## CRISP Training Dates Set

This Spring, one-day training courses in the Division of Research Grants' CRISP (Computer Retrieval of Information on Scientific Projects) System will be offered on Mar. 17, Apr. 21, and May 19 (all Thursdays). This course is titled "Introduction to the CRISP System," and has been designed as a comprehensive overview of the extramural and intramural project coverage of CRISP, the scientific indexing of research projects, and the system's search capabilities. A hands-on problem solving session is included.

A request to attend "Introduction to the CRISP System" should be directed, in writing, to the Chief, Research Documentation Section, Division of Research Grants, Westwood Bldg. Rm. 148, and must be received at least 10 days before the course date of interest. Please include name, address, and telephone number, as well as preferred session date. It is not necessary to submit Form HHS-350 if accepted. Interested persons may call 496-7543 for additional information, or consult the SHARE TRAINING facility on WYLBUR for course details. □

## The NIH Record

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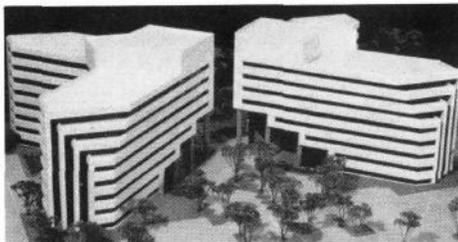
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## Landow, Blair Offices Scheduled To Move

The NIH offices currently located in the Landow and Blair Buildings are scheduled to move to new Rockville locations this year.

The General Services Administration signed a lease with Executive Plaza Associates last September for the entire Executive Plaza North Building, located at 6130 Executive Blvd., and a portion of the Executive Plaza South Building, 6120 Executive Blvd. A model of the two buildings is on display in the B2B lobby, Bldg. 31.



*The North and South Buildings of Executive Plaza in Rockville will soon be occupied by members of NIH institutes. Located off Old Georgetown Rd., the rental buildings will allow NIH to vacate the Blair Bldg. in Silver Spring and the Landow Bldg. in Bethesda.*

The Executive Plaza North, an eight-story, two-wing complex, will be occupied by the National Institute of Child Health and

Human Development and the National Cancer Institute.

The first floor East Wing will offer full conference room service to the building tenants and other institutes when needed. The conference services section, TASB, will handle all requests for reserving the conference rooms.

The first floor West Wing will house a duplicating room, health unit, mailroom, and the NCI computer room. Also in the West Wing will be the Blind Industries of the State of Maryland concession stand, a vending area and the Magistrate's Court. All services may not be in operation upon initial occupancy; however, they are expected to be in operation shortly thereafter.

The Executive Plaza South, a nine-story building, will be a shared occupancy with NCI and private companies. The NCI will occupy the terrace level, second and sixth floors.

The move from the Landow Bldg. is tentatively scheduled to begin late this month and will progress as the floors are completed and accepted for occupancy.

The move from the Blair Bldg. is tentatively scheduled for late spring.

NCI staff currently housed in the Westwood Bldg. will relocate to the Executive Plaza South Building, thus consolidating the extramural NCI programs. □



*John Maboney, (top r) NIH associate director for administration, congratulates Pamela Rabbit-McKusick on winning first prize in the CFC Raffle—a cruise for two to the Caribbean donated by Norwegian Cruise Lines. McKusick is a computer specialist at NLM. Below, Mary Burton of the NICHD grants office is congratulated by Maboney for winning the CFC Keyworkers' Raffle. A state-of-the-art Xerox personal computer was donated by CompuCom Systems for the first prize.*



## Businessman's Gift Bolsters NIH Training Program

The University of Texas Southwestern Medical Center at Dallas recently received \$20 million from the Perot Foundation to train medical scientists in an NIH-sponsored program and to augment programs in biomedical research during the next 10 years.

The support, which will be in addition to funds received from other public and private sources, falls into four areas: additional support of Nobel laureates Michael Brown and Joseph Goldstein, who are studying cholesterol metabolism and genetics; support to augment research involving genetic approaches to other major medical problems; and support to train outstanding predoctoral and postdoctoral researchers.

H. Ross Perot, Dallas businessman and education advocate, said, "This is an investment in people and in intellect that will bring enormous rewards in the years to come. These funds will help train young scientists who might well make the important medical

breakthroughs of the future."

The Perot gift will allow UT Southwestern's Medical Scientist Training Program, which now has 26 students and an entry rate of five a year, to expand to a total of 90 or more students, with an entry rate of 15 a year.

The Medical Scientist Training Program is supported by the National Institute of General Medical Sciences and is designed for highly motivated students who have outstanding potential for careers in research and academia. It provides integrated scientific and medical training leading to the combined M.D.—Ph.D. degree in 6 years. Its goal is to prepare graduates to conduct both basic research and clinical investigation.

MSTP grants are made to universities and their medical schools, which operate the program and select the trainees. About 120 positions for new students are available nationwide each year. Currently, the MSTP program

operates at 28 participating institutions and supports about 700 trainees.

NIH Director James B. Wyngaarden, in a letter of congratulations to Dr. Kern Wildenthal, president of the University of Texas Southwestern Medical Center, stated, "The Medical Scientist Training Program has been one of the most successful activities with which the NIH has been associated in terms of building capability for clinical research. We have had an abiding interest in the work of Drs. Brown and Goldstein, and are delighted that additional support will be provided their work as well as other research involving molecular genetics."

In addition to the funds committed to the MSTP and postdoctoral programs, the Perot Foundation will provide about \$1.3 million annually to support research projects. □

## CLINIC

(Continued from Page 1)

with anti-retroviral agents including suramin, HPA-23, foscarnet, and AZT; biologic response modifiers including alpha interferon, interleukin-2 and gamma interferon; and has evaluated the role of bone marrow transplantation in HIV infection.

The clinic's staff members currently are evaluating the progress of more than 150 patients participating in several research protocols. Among the trials are those testing AZT, interferon, or a combination of the two in the treatment of early stage AIDS patients with the AIDS-related cancer, Kaposi's sarcoma, and a test of a candidate AIDS vaccine called gp160.

Dr. Lawrence R. Deyton, a staff fellow assigned to the clinic for one year, serves as a "primary physician provider."

Deyton, who came to NIH from a residency in internal medicine and a specialty in AIDS research at the University of Southern California, monitors all of the patients who are taking part in the drug trials.

As part of his role at the clinic, Deyton also consults with physicians all over the country who refer their patients to NIH for AIDS treatment.

"The clinic is an exciting place to work because of the level of commitment by the staff," Deyton said.

Once a week, the clinic staff meets to discuss developments in AIDS research, patient progress, and administrative and staffing concerns.

At one recent session, members of the medical team discussed the physical and mental well-being of each of their charges. They discussed case histories and details of patients experiencing, among other things, suicidal thoughts, depression, fatigue, lethargy, dementia, headaches, weight loss, financial anxiety, and appetite problems. Patients' reactions to medication and their progress are also discussed. Protocol-related decisions are made in this weekly setting.

A specialized cadre of research nurses screens patients for inclusion in the various trials. For each of the protocols the criteria for patient inclusion are very specific.

For example, those who participate in a study of interferon in asymptomatic HIV infection must be antibody positive and virus culture positive, but be otherwise healthy. For 6 months prior to entry into the study any systemic corticosteroid, antineoplastic, or antiviral therapy would exclude them from participation. Other exclusions include any prior interferon therapy or exposure to an



Nurses Nancy Sears (l) and Yukiko Rosenthal are on the staff of the 11th floor clinic. Nurses at the clinic say they are given more responsibility and autonomy than nurses in other areas.

investigational drug within one month prior to entry.

Patients come from all over the country, and visit the clinic on a weekly, biweekly or monthly basis.

Margaret Megill, a nurse and research coordinator, came to NIH from a public health agency in Orange County, Fla.

In her duties at the clinic she interviews volunteers to see if they are eligible to participate in one of the research protocols and counsels them if they are accepted. Megill is one of three nurses working for Lane who is a nurse researcher. Patient care is done by primary nurse coordinators.

The nurses at the clinic, according to the physicians and the nurses themselves, play a paramount role in the operation of the facility.

"This is a nurse-centered clinic," Deyton said. The nurses are in constant contact not only with the patients, but also with their physicians and others monitoring their care.

"When a patient has a problem or a question, he sees the nurses first. We give them primary care responsibility," Deyton said. "They are on the front line."

Nancy Sears, one of six primary care nurses who works with the patients, sees her role as a case manager and the patient's main contact at NIH. She is currently following the progress of 20 patients.

"I make their appointments with doctors

and dietitians and give them advice," she said. "They are concerned if their disease is progressing, what will happen to them at the end of the study, the effects of the medication, and their tolerance for the drugs.

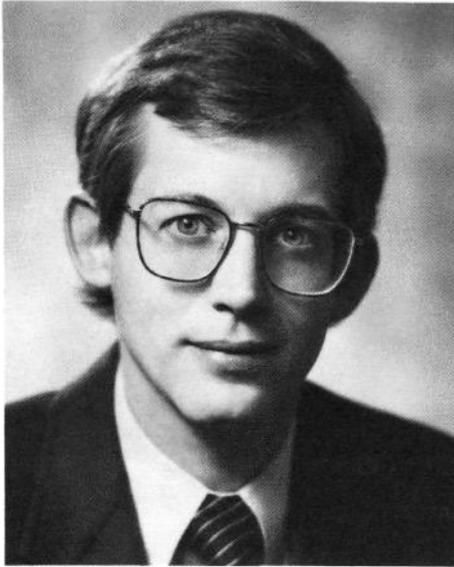
"I've worked here for two years and it is getting to the point now where some patients are declining in health and that's hard to deal with," she said. "But we have some success stories, too."

Barbara Baird, a nurse clinician and research study coordinator for the Clinical Center, was the first AIDS research nurse hired at NIH. She began working with AIDS patients in 1982 and with Dr. Henry Masur, the Clinical Center's deputy chief of critical care medicine, in 1983. Prior to coming to NIH in 1980, Baird worked at Northern Virginia Doctors Hospital.

She manages Masur's studies, which focus on respiratory problems in AIDS patients with pneumocystis carinii pneumonia, screens patients for eligibility in clinical trials, and instructs patients on what their HIV infection will mean to their health and how they can prevent transmission of the virus.

"There is a new role for the clinic nurse" on the 11th floor, Baird noted. "The nurse acts as a bridge between patients and doctors and monitors research activity."

Says Megill, "We have really good teamwork at the clinic. It really strikes you when

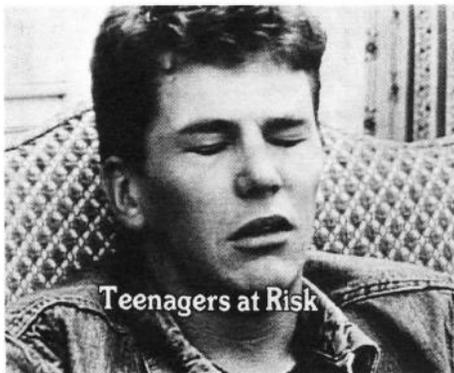


Dr. H. Clifford Lane

you're not here and something needs to be done. The team has been carefully developed by Drs. Lane and Masur. They respect our judgement and give us a lot of responsibility and autonomy."

Lane agrees with the assessments of the unique role of the nurse at NIAID's clinic.

"The nurses at the clinic have a very different role. They have more responsibility for supervising the day to day patient care and they have more direct involvement in the research activities. The clinic takes advantage of the multiple skills that a nurse has to offer." □



The Lister Hill Center, in collaboration with the National Institute of Mental Health, has completed a videodisc-based television program on teenage suicide. The program, currently being field-tested in 19 medical schools in the U.S., is designed to teach medical students and others how to recognize and cope with the often subtle signs of suicidal depression.

To learn more about this program contact Dr. James Woods at the National Library of Medicine, 496-9300.

## Wallace P. Rowe Symposium on Animal Virology

The fourth annual Wallace P. Rowe Symposium on Animal Virology will be held Feb. 1-2, in Lister Hill Auditorium.

Sponsored by the National Institute of Allergy and Infectious Diseases, the symposium honors the late Dr. Wallace Rowe, who was an internationally recognized authority on animal virology. Rowe was chief of the Laboratory of Viral Diseases at NIAID from 1968 until his death in 1983. The topic of this year's symposium is "Viral Pathogenesis," an area of special interest to Rowe.

A feature of the symposium is the presentation of the annual Wallace P. Rowe Award for Excellence in Virologic Research to an outstanding young virologist.

The speakers on the first day of the symposium will be Drs. Palmer Beasley, University of Texas Health Science Center at Houston; Stephen Harrison, Howard Hughes

Institute at Harvard University; William Haseltine, Harvard Medical School; William Mason, Fox Chase Cancer Center; Robert Purcell and Stephen Straus, NIAID; John Skehel, National Institute for Medical Research, London; and Eckard Wimmer, State University of New York at Stony Brook.

The second day's speakers include Drs. William Castleman, University of Wisconsin at Madison; Peter Collins, NIAID; Theodore Diener, U.S. Department of Agriculture Research Center; Norman Letvin, Harvard University; Steven McDougal, Centers for Disease Control; Albert Sabin, Fogarty International Center; and Alan Townsend, Oxford University.

The program will begin at 8:45 a.m. on Monday, Feb. 1. Pre-registration is not necessary. For further information, call 496-3006. □

## Conference on Control of Atherosclerotic Disease

A conference on strategies to control atherosclerotic disease through genetics will be held Feb. 1-3, in the conference room in the Stone House, Bldg. 16. Preregistration is required, and may be accomplished by calling Nancy Shapiro, 496-2517.

It has been known for more than 50 years that genetic factors can be of importance in the etiology of atherosclerosis. For a long time it was generally believed, however, that the impact of genetic factors is limited to relatively rare disorders such as autosomal dominant hypercholesterolemia.

More recently it has become clear that genetic factors play an important role in many cases, particularly of premature coronary heart disease. There may be an interaction between genetic factors and life style factors in a significant proportion of coronary heart disease cases. It seems likely that life style factors preferentially cause early atherosclerosis in those who have a genetic predisposition.

The ability to study genetic variation has increased significantly with the advent of DNA technology. Base changes and deletions in genes can be readily examined by use of restriction enzymes and suitable DNA probes. The apolipoprotein genes that are high on the list of candidate genes have been cloned and variations at the DNA level have been detected.

Associations have been reported between DNA variants at apolipoprotein loci on one hand, and overt atherosclerotic disease or risk factor level (such as cholesterol level) on the other. Although confounding factors exist and several observations require confirmation, it is

expected that the DNA technology will make it possible to identify genes or haplotypes that contribute to a person's susceptibility or resistance to atherosclerotic disease.

Whereas the scientific importance of DNA studies of candidate genes is widely acknowledged, there is a great need to assess the present or potential usefulness of new genetic knowledge in the attempts to control atherosclerotic disease. Presumably, precise predictive testing could make it possible to institute effective preventive measures early in life in those who need it most, thus adding a "high risk strategy" to existing "total population strategies" to the preventive efforts. The February conference will address these issues. □

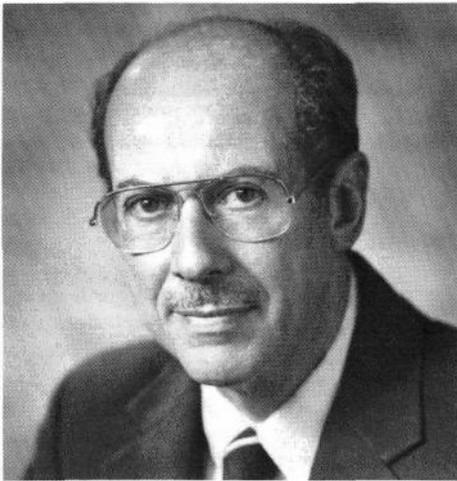


Helen Orem of Clinical Center Communications admires a new sculpture in the clinic elevator area. Created by Azriel Auret, the work is entitled "Healing Waters." Orem is in charge of acquiring art for the hospital's galleries and hallways.

## HONORS

(Continued from Page 1)

*medical research enterprise in the world. His influence shaped many aspects of the NIH's research programs, including the containment of research costs by improving methods for forecasting the number and cost of research awards and by simplifying the administration of research grants. He was in the forefront of dealing with the ethical methodological questions relating to the use of animals in research by implementing a process for dealing with evidence of misconduct. He implemented two recent congressional initiatives which enhanced participation of minority institutions in biomedical research."*



Dr. Gary Felsenfeld

**Dr. Maxine F. Singer**  
Chief, Laboratory of Biochemistry, DCBD, NIH

*"Her research has earned her an outstanding international reputation. Results of her earlier research on the enzymology of nucleic acid metabolism made it possible to rigorously test ideas of molecular biology. Her later research on the problems of deoxyribonucleic acid (DNA) replication in animal viruses represented a true breakthrough in the understanding of the interaction of tumor viruses with mammalian cells. More recently, she has concentrated her research on repeated sequences of DNA and has produced evidence that these sequences may indeed have functions in cells which could lead to new understandings of genetics and malignancy."*

At the ceremony, President Reagan also announced the recipients of the Meritorious Executive Rank, \$10,000. This presidential recognition acknowledges sustained accomplishments by SES employees in the federal government. Five NIH staff members will receive this award in a ceremony at the State Department to be held in the spring. The recipients of this award:

**Dr. Philip S. Chen, Jr.**  
Associate Director for Intramural Affairs, OD

*"For sustained accomplishments as Associate Director for Intramural Affairs toward creating and maintaining the optimum milieu at the NIH for excellence in biomedical research."*

**Dr. John W. Diggs**  
Director, Extramural Activities Program, NIAID

*"For sustained accomplishments in the management of extramural programs at the NIH, including important recent grants and contracts for research on Acquired Immunodeficiency Syndrome."*

**Dr. Edward D. Korn**  
Chief, Laboratory of Cell Biology, NHLBI

*"For providing major advances in our understanding of the structural organization of the cell at the molecular level and in our understanding of the molecular basis of the motile activities of cells."*



Dr. Maxine Singer



Dr. William Raub

**Dr. Claude M. Lenfant**  
Director, NHLBI

*"For his outstanding leadership in initiating, strengthening and broadening the clinical impact of NHLBI programs through dynamic, imaginative and innovative stimulation of fundamental and clinical research within the purview of the institute, and for his role in fostering effective national and international cooperation to these ends."*

**Dr. George R. Martin**  
Chief, Laboratory of Developmental Biology and Anomalies, NIDR

*"For sustained leadership, initiative and innovation in research in connective tissue biology, and for industry and personal integrity as a mentor and science administrator. □"*

## Self Defense, Karate Instruction

The NIH R&W Taekwondo Club is offering instruction in self defense and introductory karate Monday evenings, 7:30-9 p.m. starting Feb. 29 and running for approximately 3 months. The course is offered for adults and teenagers, women and men. The course is planned as both a complete introduction to self defense-karate and, for those who wish to continue training with the Taekwondo Club, as preparation for the gold belt examination.

Application forms and further information are available from Pamela Settle, Westwood Bldg. Rm. 1A11, 496-7826. Participants are to be NIH R&W members (but not necessarily NIH employees). Course fee is \$40 (make checks payable to the NIH Taekwondo Club). The introductory class will be limited to 20 people. □

## TRAINING TIPS

The NIH Training Center of the Division of Personnel Management offers the following:

<i>Courses and Programs</i>	<i>Dates</i>
<i>Management and Supervisory 496-6371</i>	
Introduction to Supervision	3/7-11
Federal Budget Process	2/24-26
Effective Communications	3/29
Reviewing Other People's Writing	3/1-3
Interpersonal Relationships in the Work Environment	2/9-10
Positive Influence and Negotiation	3/7-9
Pragmatic Problem Solving	3/10
Working With Difficult Employees	3/15
Developing Motivational Strategies	3/22
Successful Middle Management	3/29-31
Using Animals in Intramural Research	2/4
Hands-on-Animal Techniques	2/24
<i>Office Skills 496-6211</i>	
The New Professional Secretary	2/12
Professional Effectiveness for the Experienced Secretary	3/17-18
<i>Adult Education 496-6211</i>	
<i>Training and Development Services Program 496-6211</i>	
<i>Career Curricula Program Opens</i>	1/11-2/19
<i>Management Intern Program Opens</i>	1/6-2/19

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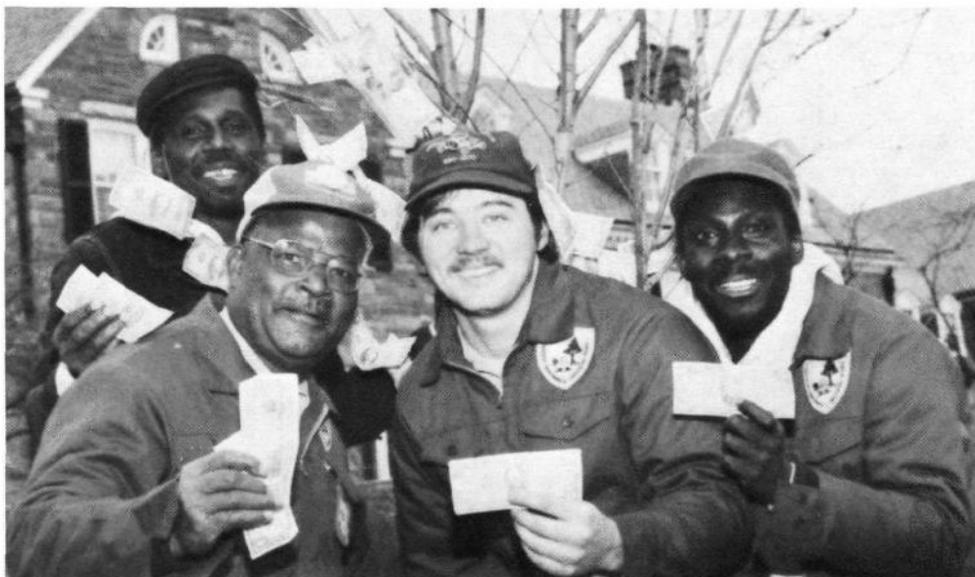
### NICHD Seeks 4-year-olds

NICHD is seeking 4-year-old, first-born girls and boys for a study of intellectual and social development. Children must be attending preschool.

For more information, call Ann Fox, 496-6832, and ask for information on the "preschool study."

### Judo Beginners Class

The NIH Judo Club is starting a beginners class on Tuesday, Feb. 2, from 6:15 to 8 p.m. in the Old Gym at Stone Ridge School on the corner of Cedar Lane and Rockville Pike. The cost is \$35 for 10 weeks. For more information please contact Stephanie Harrison, 496-9490, or Eric Spears, 949-8571.



"MONEY DOES GROW ON TREES." Ask members of the Grounds Maintenance and Landscaping Branch pictured (l to r): Mike Hart (back row), Wilbur Gray, Harry Hill and Donald Lampkins. These very special "green leaves" will be the first prize in the R&W membership drive campaign that ends Friday, Jan. 29. Not only will you be eligible to win the grand prize if you join early, but your membership fee will be only \$3.50 (membership fee will be \$5 effective Feb. 1). So, join now at any R&W gift shop, activities desk, or through your BID representative. YOU could be the winner of this winter's windfall.

### Fogarty Scholars Enrich Campus

The Fogarty International Center has announced the arrival of the following scholars:

Dr. Robert W. Zwanzig, distinguished professor of physical science at the University of Maryland, began his Fogarty scholarship-in-residence last fall. Zwanzig attended the Polytechnic Institute of Brooklyn, from which he graduated in 1948. He received his M.A. from the University of Southern California and his Ph.D. from the California Institute of Technology.

He is well known for his pioneering work in the area of non-equilibrium statistical mechanics. A major contribution to the theory of irreversible processes was his invention of a powerful technique that allows development of rigorous kinetic equations that describe non-equilibrium phenomena. This achievement was a significant advance in our understanding of the origin of irreversibility in systems obeying time-reversible laws. His work laid the foundation for all modern molecular treatments of dissipation and relaxation.

Zwanzig has made many contributions including a description of the density dependence of transport coefficients in gases, a molecular theory of dielectric relaxation and the use of thermodynamic perturbation theory to treat the liquid state.

He will be in residence until June 20 and his office is located in the Stone House, Rm.

208, telephone, 496-8733. He may also be reached in Bldg. 2 where he will be associated with the Laboratory of Chemical Physics, NIDDK.

Dr. Ragnar Ekholm, professor of anatomy, University of Goteborg, Goteborg, Sweden, joined the scholars program last November and will be in residence through February 1988. Ekholm attended the University of Uppsala where he received his M.D. degree in 1949 followed by a Ph.D. in 1951. Since 1952, he has been on the faculty of the University of Goteborg, becoming professor of anatomy in 1967 and head of the anatomy department in 1976.

Ekholm is well known for his work on the ultrastructure of cells. In collaboration with Dr. F. S. Sjostrand, he pioneered the development of apparatus to make possible thin-sectioning of tissues. For the last 20 years he has studied the mechanism of synthesis and secretion of thyroid hormone showing the location of the iodination of thyroglobulin in the cell as well as elucidating the sequence of events leading to secretion. In addition to his contributions to thyroidology, he published some of the first ultrastructural studies of the human and rodent pancreas.

His office is located in the Stone House, Rm. 214, telephone, 496-8733. Ekholm will be working with Dr. Seymour Wollman in NCI's Molecular Biology Laboratory.

*NIH and NBS Share Award*

The National Institutes of Health and the National Bureau of Standards will be joint recipients this year of an IR-100 Award for collaborative development of "digital compositional mapping for elemental microanalysis." *Research and Development Magazine* gives the award annually for the "100 most significant new technical products of the year" (the initials IR represent "industrial research").

The Biomedical Engineering and Instrumentation Branch, DRS, teamed with the Computer Systems Laboratory, DCRT, to create the new technology, which combines a digital computer with an analytical electron microscope. The result: an automated system that produces full-color maps of the distributions of atomic elements within specimens. Applications include probing the elemental composition of biological tissues.

A new facility to open soon is expected to offer a ten-fold improvement in resolution over the current system. This spring, the NIH and NBS will inaugurate the "NIH-NBS Nanometer Resolution Analysis Facility," to be located within BEIB, DRS.

In 1984, the NIH received an IR-100 Award for BEIB's development of the toposcopic catheter. □

**King of Spain Honors NIH, Wyngaarden**



*Dr. James Wyngaarden (top l), NIH director, is greeted by King Juan Carlos of Spain at a ceremony last month in Madrid commemorating the NIH centennial. The king presented Wyngaarden, as a representative of NIH, with the Grand Cross of the Civil Order of Health. In photo at bottom, the king reads from an inscription on a medal presented to Wyngaarden in the company of dignitaries including (third from r) Mrs. William McCormick Blair Jr. of the Albert and Mary Lasker Foundation and former deputy director of NCI Dr. Jane Henney (fourth from r). The Spanish Council of Ministers approved the royal decree honoring Wyngaarden and NIH.*

**Free Interns Available**

NIH scientists desiring technical assistants for the summer or during the year can now take advantage of a unique PHS and NIH approved program that is sponsored by the United South and Eastern Tribes' Science/Health Care Internship Project, located in Washington, D.C.

A select number of American Indian and Alaskan Native undergraduate and graduate students who meet rigid scholastic standards and have demonstrated a firm commitment to pursue a career in the sciences or medical field are brought to NIH from throughout the United States. These student interns are then available for research and health care projects at no cost to the gaining institution.

If you are interested in participating in this project, contact Gary Armstrong, 496-6199, Bldg. 29A, Rm. 2B08, or the USET Science/Health Care Internship Project, (202) 371-8100. Project coordinators are Cathy Weil and Ken McPeck. □

