Protection and Security at NIH: Present and Planned

Corps. Raven Glenn (r) and Capt. Howard S. Davenport respond to calls and monitor the screens and other equipment in the Communications Room of the NIH Police Department.

Staff, patients and visitors may not be aware of the range of services and expertise offered by the NIH Protection and Security Management Branch (PSMB), Division of Safety. The following articles, highlighting PSMB personnel and services, may help employees understand this branch's range of operations.

Each day approximately 32,000 cars and trucks and 434 buses enter the 11 entrances of NIH and travel across the 8.6-mile campus letting passengers on and off, or pulling into one of the 8,300 campus parking spaces. When a patient, visitor or employee arrives on campus, the presence of the NIH Police directing traffic helps ensure an orderly and safe arrival.

Dr. Abner L. Notkins, Authority on Viral Immunology, Named Director of NIDR's Intramural Research Program

Dr. Abner Louis Notkins, an international authority on viral immunology, has been named director of the Intramural Research Program, National Institute of Dental Research. He succeeds Dr. Marie Nylen, now associate director for the NIDR Extramural Program. He will retain his position as chief of the Laboratory of Oral Medicine.

The major thrust of Dr. Notkins' work has been to elucidate mechanisms involved in the pathogenesis of viral and endocrine diseases. In his early work, he concentrated on persistent infections and showed how the immune response to viruses caused tissue injury. He demonstrated that viruses could produce a life-long viremia (presence of virus in bloodstream) and exist in the circulation in the form of infectious virus-antibody complexes, paving the way for studies on immune complex disease. He also pioneered work on the effects of viral infections on the functional capacity of the immune system. He is coeditor of the book Concepts in Viral Pathogenesis.

Over the last decade, Dr. Notkins focused on the role of viruses and autoimmunity in endocrine diseases, especially insulin-dependent diabetes mellitus (IDDM). He is recognized worldwide for his contributions to diabetes research.

He showed that viruses could produce diabetes in experimental animals by destroying insulin-producing beta cells. That susceptibility was genetically controlled, and that the disease could be prevented by a vaccine.

Dr. Notkins and his colleagues then extended this work to humans showing that occasional cases of IDDM could be triggered by viruses.

Recently, he has been tracking other factors such as autoantibodies that might be involved in endocrine diseases. Ordinarily the immune

PHS Tightens Policy On Laboratory Animals

The Public Health Service has revised its policy on the humane care and use of laboratory animals, NIH has announced.

The policy expands requirements and reduces the number of recommendations.

"This change in policy gives us added assurance that PHS-supported institutions will provide proper care and use of laboratory animals," Dr. James B. Wyngaarden, Director of NIH, said.

Although the policy does not become effective until November, Dr. Wyngaarden encouraged institutions conducting animal research to implement its new provisions "as soon as it is feasible."

Since almost half of NIH research projects supported through grants and contracts involve the use of live animals—mostly rodents—the revised policy will have a broad impact in the biomedical research community.

Copies of the new policy will be widely distributed later this month in a special issue of the NIH Guide for Grants and Contracts.

There are five major changes in the revised policy:

- Institutions are required to designate clear lines of authority and responsibility for those involved in the use and care of animals in PHS-supported projects. Each institution must name an official as ultimately responsible for the institution's animal program and a veterinarian.
Four Science Fiction Writers Will Conduct STEP Forum

The STEP Forum series will present an NIH-wide forum on Science and Science Fiction, Tuesday, May 28 from 1:30 to 4 p.m. in the Little Hall, Bldg. 1.

Four popular science fiction authors will participate in an afternoon roundtable. They will consider where science fact and science fiction have converged and where they have differed, discussing whether science fiction and science fact tend to leapfrog one another, or whether one tends to lead the other.

Panel members will focus on what they do as science fiction writers and how they do it, emphasizing what they do and how they make them come together as effective, bestselling stories. There will be ample opportunity for audience participation.

The following writers will make up the panel:

- **A.C. Crispin**, author of several episodes of the television series V, and a number of successful books including Yesterday's Son and Starquest.
- **Jack Chalker**, who specializes in adventure novels featuring aliens such as Midnight at the Well of Souls and The Identity Matrix.
- **Sherriann Lewitt**, who focuses on Indian magic and matters of mind such as First and Final Rites and Chaute.
- **Som Tow Sucharitkul**, best described as a whimsical and highly entertaining speaker as well as author of such books as Utopia Hunters, Vampire Junction, and Darking Wind.

The forum is open to all NIH professional and support staff. No advance registration is required. For additional information, contact the STEP Program Office, Bldg. 31, Room 1863, 496-1493.

FIC Conference on Immunology, Contraception, Fertility June 5-7

The Scholars-in-Residence Branch, Fogarty International Center, will sponsor a conference on "Immunological Approaches to Contraception and Promotion of Fertility," June 5-7, in the Little Hall Auditorium, Bldg. 38A, starting at 8:30 a.m. The program has been organized by Dr. G.P. Talwar, director, National Institute of Immunology, New Delhi, India who arrived May 13 to begin his final term as a Fogarty Scholar-in-Residence.

Subjects to be discussed include:

- Current status of vaccines against gonadotropins for female contraception
- Antithrombin antibodies for control of male fertility
- Cloning and expression of the subunits of h-CG and other gonadotropins
- Progress on sperm antigen
- The zona pellucida antigens
- Rational vaccine design: opportunities offered in molecular genetics
- Immunoprophylaxis of fertility


New Computer Program Draws DNA Sequences

The Division of Computer Research and Technology has a new computer program, DNADRAW, available to NIH researchers for drawing DNA sequences for publication. The program provides high-quality drawings in a short period of time, and at low cost.

Some features of the program are: (1) a simple way of highlighting parts of a sequence with underlining, boxes, italics, and arrows; (2) automatic control of the size and spacing of characters; (3) automatic formatting of files of sequence information so that they line up properly; and (4) options for adding annotation and titles. The DNADRAW output looks like this:

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GCGTATTGCGCGGGGCGGC
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Circus Comes to the Clinical Center to Stay: A Glasswork Created by Friar Jerry Hovanec

The circus has come to town and made its home at the NIH Clinical Center. This particular circus is the work of local glassblower, Friar Jerry Hovanec, and was donated to the Clinical Center by a group of art patrons.

The presentation was made by the artist and a reception was held for the artist and the contributors in the 13th floor clinic where the circus will reside, on Friday, April 26.

The work is 6 feet wide and 3 feet tall and displays 10 inch high whimsical glass figures of color and motion representing a host of zany characters including a ring master, clowns, a juggler, a human cannonball, and acrobats.

"It wasn't meant to be sophisticated," said Hovanec. "It was designed to look like something a kid would draw after spending an afternoon at the circus.

Hovanec is a member of the Capuchin Order, a branch of the Franciscan religious order within the Roman Catholic Church. He has established Washington's only glassblowing studio at the St. Francis Frary. His glass and ceramic creations have helped support the Capuchin community since 1967 when he joined the order.

Hovanec was trained at the Penland School of Crafts, Penland, N.C.; the Pratt Art Center, Seattle, Wash.; and the Greenwood Gallery, Washington, D.C. His work has been shown in the Jackie Chalkley and Plum galleries in Washington, D.C., the Heller Gallery in New York City, and the Chrysler Museum in Norfolk, Va.

The circus is a collaborative effort by Hovanec and Ralph Harvey, associate professor of art at the Georgia Southwestern College in Americus, Georgia. The idea was conceived at a Glass Arts Society conference in New York which both were attending.

"We came up with the idea of a circus from some harlequin pieces I had done," said Hovanec.

Harvey devised a workshop at Georgia Southwestern College and the school invited Hovanec under the auspices of a visiting artists program in October 1982.

During the week-long workshop Hovanec and Harvey made the pieces with the help of art students. Harvey then built the wooden rings and canvas tints to complete the circus. It was displayed at the college and then in Hovanec's yearly Christmas show at the Capuchin gallery.

The following April, it was accepted at the Heller Gallery in New York City as the main work for a show on glasswork. That same month it was featured in a Washington art show sponsored by Brandeis University. It's been back in Hovanec's studio for the past 2 years.

"I knew that we'd done something very good and would eventually find a good home for it," Hovanec said. "We were in no rush to sell it.

Last fall, Helen Orem of the Medical Arts and Photography Branch, DRS, read an article in the NIH Post describing Hovanec's work as well as his treatment as a patient at the Clinical Center. She called him and asked if he would be interested in participating in the CC's art program, which displays original art by local artists throughout the hospital.

"The purpose is to make patients feel that they are in a special and unique place," Ms. Orem explained.

"She came to my studio to see my work and fell in love with the circus," said Hovanec. "I told her that if she could get the work accepted by the hospital, I thought I could get a consortium of people together to buy it and donate it to the Clinical Center.

"He did just that. The group consists of local art patrons and others from as far as New York and North Carolina. They include: Carol McGuiness, Ronald Abramsen, Maureen Littleton, Mr. and Mrs. Sam Rosenfield, Juliann Aaron, Elizabeth Mance, Dr. Robert Louefler, Dr. and Mrs. Paul Parkman, Mr. and Mrs. Whayne Haffler, Sherley Koteen, Mr. and Mrs. William Druhan, Mr. and Mrs. John Michael, John Auer, and Dr. and Mrs. Peter Lombard, all from the Washington, D.C., area. Other contributors are Marie Kalish, New York; Ann Hovanec and Paul Stankard, New Jersey; Dorothy Wilkins, Virginia; Mr. and Mrs. Harvey Littleton, North Carolina; and Mr. and Mrs. John Hovanec, Pennsylvania.

Hovanec has been an NIH patient for 2 years, but his association with the Clinical Center goes back much farther. He has been a blood and platelet donor at the CC for 10 years. His blood has been matched with that of an aplastic anemia patient and Hovanec has donated for him about 200 times.

Hovanec grew up in Pennsylvania where he attended St. Fidelis Seminary College and received a B.A. in philosophy. During his senior year, he took some pottery courses at nearby Slippery Rock State College. He worked as a potter for the next 10 years. In 1979, he attended the Penland School of Crafts in North Carolina where he learned to blow glass. He's been working with glass ever since.

Now that they've sold the circus, Hovanec and Harvey are considering their next piece. What will it be?

"We've considered an orthodontist's office," he said. "You know, a patient on the floor with a crowbar in his mouth. A muscular nurse with a tattoo robbing the patient's wife, a kid in the waiting room with braces that have sprung away. A tooth fairy circling overhead..."

Open Enrollment For Life Insurance June 1-July 1

The Office of Personnel Management has announced an "Open Enrollment Period" June 1-July 1, 1985 under the Federal Employees' Group Life Insurance Program. During that period, eligible employees will be permitted to enroll in the program, to elect coverage or to increase their current level of coverage under the Option A-Standard, Option B-Additional, and/or Option C-Family. An 8-page informational brochure, "FEGLI-85" will be distributed to each eligible employee.

Additional details on the FEGLI "Open Enrollment Period" will be published in the NIH Record of June 4.
Dr. Jeffrey Schلوم, NCI Lab Chief, Will Receive 9th Annual Richard and Hinda Rosenthal Award

Dr. Jeffrey Schلوم, chief of NCI's Laboratory of Tumor Immunology and Biology, will receive the 9th Annual Richard and Hinda Rosenthal Award at the 76th annual meeting of the American Association of Cancer Research, May 22-25, in Houston, Tex. The award is given each year for "innovative work, leading to significantly improved clinical care in the field of cancer."

Dr. Schلوم will review "monoclonal antibodies of tumor antigens and oncogene products in the management of human carcinomas (cancers)."

With the development of hybridoma technology, monoclonal antibodies became a primary research tool for the characterizing and managing cancer. (Monoclonal antibodies are produced from hybrid cells (hybridomas) made by fusing an immortal cancer cell with a normal antibody-producing cell. Each hybridoma produces large amounts of identical antibody directed against a specific antigen (a foreign substance in the body, like a cancer cell.)

Dr. Schلوم and his colleagues are using monoclonal antibodies to characterize cancer cells and develop novel diagnostic and potentially therapeutic procedures for breast, colon, lung, and ovarian cancers.

In collaboration with researchers from other medical centers, they have developed a way to detect metastases (migrated cancer cells) in body fluids such as pleural fluid around the lungs, fluid withdrawn by needle. Using the monoclonal antibody, MAb B72-3, they have so far identified cancer cells in body fluids of approximately 80 patients with lung, breast, colon, or ovarian cancer.

In collaboration with Dr. Steven Larson, chief of the Nuclear Medicine Department in the Clinical Center, Dr. Paul Sugarbaker, chief of the Colorectal Cancer Section in the NCI Surgery Branch, the Laboratory of Pathology and Drs. David Colcher and Jose Esteban from his own lab, Dr. Schلوم is currently using monoclonal antibodies in clinical trials of patients with metastatic colon cancer.

Before surgery, patients are injected with MAb B72-3 that has been radiolabeled with $^{131}$I. Patients are then scanned with a gamma camera to define the location of the cancer. After surgery, researchers measure the amount of radiolabeled antibody that has attached to the surgical specimens to evaluate the specificity of the monoclonal antibody for the cancer of that particular patient.

In his studies, Dr. Schلوم has also shown that human cancer cells have the ability to modulate (vary the structure or activity of) the tumor-associated antigens expressed on their cell surface; for that reason, not all cells of a tumor mass may be expressing a given tumor antigen at the same time.

Dr. John Greiner and other researchers in Dr. Schلوم's laboratory have recently shown that recombinant interferon has the ability to enhance tumor antigen expression on cancer cells but not normal cells. The use of interferon in combination with monoclonal antibodies thus results in more efficient attachment of the monoclonal antibody to the cancer cells.

Dr. Schلوم said that interferon may also be useful in the development of more efficient monoclonal antibody therapy.

Dr. Schلوم and colleagues, Drs. Ann Thor and Pat Horan Hand from his laboratory, have also used monoclonal antibodies directed against a product of the human ras oncogene (a transforming or cancer-triggering gene) called ras p21, to study the expression of this oncogene product in individual cells and to accurately define its expression in clinical material, such as colon and breast cancers. In both colon and breast cancers, metastases that were far from the initial cancer did not have increased ras genes.

The presence or activation of the ras oncogene may be one step in the multistep spread of cancer, Dr. Schلوم said. More research in this area may yield sharper diagnostic methods for characterizing colon cancers and may lead to a better understanding of the role that these oncogenes play within "premalignant" and cancer cells.

Dr. Schلوم began his career at NCI in 1973 after completing his B.S. at Ohio State University, earning an M.S. from Adelphi University and a Ph.D. from Rutgers University, and working at the College of Physicians and Surgeons of Columbia University.

He has received numerous honors including the NIH Director's Award in 1977, and in 1985 was the Distinguished Lecturer for the Canadian Cancer Society.

He has published over 150 papers on tumor immunology, tumor cell biology, and viral carcinogenesis and serves on several editorial boards including the Journal of the National Cancer Institute, Cancer Research, and Breast Cancer Research and Treatment.

ACRF Cafeteria Opens June 3

The ACRF cafeteria, located on the 2nd floor, Bldg. 10C, will open on Monday, June 3. It will offer food service to the NIH staff, patients, and visitors.

A limited menu will be available consisting of continental breakfast and soups, sandwiches, salads, desserts, and beverages for lunch, with snack foods available in mid-morning and mid-afternoon. Full service—hot entrees and sandwichs, grill service—will be provided by late summer.

Hours of operation, Monday through Friday, excluding weekends and holidays, will be as follows:

- Continental Breakfast 7 a.m. to 9:30 a.m.
- A.M. Snack 9:30 a.m. to 11 a.m.
- Lunch 11 a.m. to 1:30 p.m.
- P.M. Snack 1:30 p.m. to 3 p.m.
- Continental Breakfast 7 a.m. to 9:30 a.m.

Besides this new ACRF food facility, the existing cafeteria on the B1 level of Bldg. 10 will continue to offer 24-hour service to the NIH community.

Catering services will be provided. Requests for catered functions should be directed to Kathleen Courie, 496-3172.

Animal Care Training

A new training course Guidelines for the Care and Use of Animals in Intramural Research, for Investigators and Technicians, will be presented Wednesday, June 12, 9 a.m. to 12 noon in the Bldg. 21 classroom.

The course is presented cooperatively by the NIH Animal Research Committee and the NIH Training Center. This first presentation of what will be a regularly scheduled course is designed to help the Institutes obtain training for staff as specified in recent NIH policies and guidelines.

Topics covered will include:
- Public interest and humane treatment of animals
- Principles and policies for animal use at NIH
- Responsibilities of the animal user
- Training opportunities and technical assistance for NIH animal users
- Panel discussion of audience questions.

The June class can accommodate 50 persons. Application forms are available from Institute personnel offices and chairpersons of Institute Animal Research Committees. Registration closes May 24.

For more information, call Dr. James Harwell at 496-1076.

NIDR Pain Clinic Seeks Volunteers for Two Studies

The NIDR Pain Clinic seeks patients ages 18 to 60 to participate in a study of chronic tension headache.

Subjects must be willing to make frequent visits and must have a partner available to participate with them.

The Pain Clinic is also seeking patients over 18 years of age to participate in a drug study.

Subjects must have chronic facial pain due to spasm of the facial muscles surrounding the temporomandibular joint (TMJ).

For further information on the two studies, call Dr. Singer, 496-5483.

R&W's Family Picnic, June 2

R&W's Old-Fashioned Family Picnic is being held Sunday, June 2, at Pinecliff County Park, just over the Montgomery County line in Frederick, Md. The cost per ticket is $2 for a family member. Guests will be charged $5 each.

The day's events will include apple bobbing, bubble gum blowing, egg toss, pie-eating contests, tug-of-war and more. R&W will offer hot dogs, pretzels, potato chips, beer and soft drinks.

Tickets may be purchased at any R&W Gift Shop or the R&W Activities Desk, Bldg. 31.

Page 4
For Research Into Why and How Cancers Spread

Dr. Lance Liotta, chief of NCI's Laboratory of Pathology, will receive the 6th annual Rhoads Memorial Award at an annual meeting of the American Association for Cancer Research in Houston, May 22 to 25. The AACR gives this award each year for "meritorious achievement in cancer research."

"We need to understand metastasis, the process by which cancer spreads through the body, because failure to control it is usually what kills the cancer patient," says Dr. Liotta. "By focusing on key substances that cancer cells use to spread through the body, researchers can develop new diagnostic and therapeutic methods using monoclonal antibodies or other strategies to predict which cancers will spread and then prevent their spread.

Identifying Metastatic Cells

Dr. Liotta and his colleagues are developing ways to identify and block cells that separate from the initial cancer and migrate through the bloodstream or lymphatic system to other parts of the body. Certain cancer cells have characteristics that allow them to penetrate the extracellular connective tissue matrix that surrounds the cancer, enter the bloodstream or lymphatic system, cross the extracellular matrix again, and then grow in another part of the body.

The extracellular matrix is a dense meshwork of fibers that separates the body into tissue compartments and acts as a scaffolding for cell attachment. The basement membrane—an integral part of the extracellular matrix—is the continuous tissue layer that surrounds organs and lines blood vessels and lymph nodes.

Scientists can predict which cancers will spread more easily by looking at the basement membrane around the tumor. Researchers in Dr. Liotta's lab have found that benign tumors have continuous basement membranes but invasive cancers often have a defective or absent basement membrane. This could be due to a decreased or faulty production of the basement membrane components or to dissolution of the basement membrane by enzymes that can dissolve it.

In the first step of metastasis, cancer cells attach themselves to this continuous matrix and dissolve it to begin their migration to other parts of the body.

Dr. Liotta's group found that the laminin molecule, a natural protein in the basement membrane, acts as a bridge between cancer cells and the basement membrane. Laminin has a cross-shaped structure with three short arms and one long arm. The intersection of the three short arms of the molecule attach to the laminin receptor on the cancer cell while the ends of the arms attach to type IV collagen, a structural protein in the basement membrane.

In Dr. Liotta's studies, an engineered fragment of laminin, made of only the intersection region of the three short arms, stopped the metastatic spread of melanoma skin cancer in mice because it blocked the laminin receptor and lacked the collagen attachment site.

As more of the same engineered laminin fragments were injected, fewer cancer cells were able to attach to the basement membrane, dissolve it, and spread.

Researchers in Dr. Liotta's laboratory have identified, isolated, and purified a laminin receptor on cancer cells. In the laboratory, monoclonal antibodies directed against the laminin receptor have been able to stop the attachment of breast cancer cells to human amnion basement membrane by covering up the laminin receptors on the breast cancer cells. These scientists are also using monoclonal antibodies to learn more about the exact location of the laminin receptor on the cancer cell, the function of each part of the receptor, if it is present on other cells in the body, and the gene responsible for its production.

Current researchers at NCI are correlating the number of laminin receptors present in a malignant tumor with the capacity of the cancer to spread. So far, they have found that the cells from some breast cancer patients have more laminin receptors and, therefore, an increased capacity to attach to a basement membrane, invade, and metastasize (spread). After a cancer cell attaches itself to the basement membrane via laminin, it produces an enzyme, called type IV collagenase, that dissolves type IV collagen. Now the researchers are trying to find the exact breakdown of the collagen and to develop monoclonal antibodies to block the enzyme.

Dr. Liotta and his colleagues are using the technique of DNA transfection to analyze the genetic structure of metastatic cancer cells. They add DNA fragments from human cancer cells to NIH/3T3 mouse cells. Each DNA fragment holds specific genes. Dr. Liotta said that if the mouse cells containing the new DNA begin to produce tumor types and metastasize, they can be selected and studied for the metastatic behavior, are able to spread to new sites and the genes responsible for this transformation can be determined.

Researchers in his lab are also studying the metastatic mouse cells for other biochemical characteristics that may reveal why these cells can invade and metastasize.

Dr. Liotta began his career at NCI in 1976 in the Laboratory of Pathology after receiving Ph.D. and M.D. degrees from Case Western Reserve University. He has worked in the field of cancer metastasis for over 10 years and holds many U.S. patents. He won the Arthur S. Flemming Award in 1983 and the Warner-Lambert Parke-Davis Award in December 1984 for his contributions to cancer research.

Dr. Liotta recently helped organize an international symposium on "Biochemistry and Molecular Genetics of Cancer Metastasis," held at NIH last March. This symposium brought together scientists from the U.S., Canada, and Europe to review and discuss their metastasis research.

Theatre Group To Benefit PEF

The R&W Theatre Group will give a performance of Kaufman & Hart's comedy, The Man Who Came to Dinner to benefit the Patient Emergency Fund on May 30, 31, June 1, 7, 8, 14, and 15 at 8 p.m. and a matinee on June 2 at 3 p.m. in Masur Auditorium, Birg 10.

Tickets are available in advance from R&W.

NIH Staff Fellow Wins Fulbright Grant

Dr. Peter F. van der Ven, clinical dental staff fellow of the National Institute of Dental Research, has been awarded a Fulbright Scholarship for the academic year 1985-86. Beginning Oct. 1, he will work at the Institute for Experimental Gerontology in Rijswijk, the Netherlands.

His research will focus on how aging affects calcium movements in Kupffer cells which are found in the liver and are an important part of the body's defense system. He will work in the laboratory of Dr. Dick L. Knook, a world-known expert on Kupffer cell function.

Dr. van der Ven has been with NIH since 1982, when he was one of two candidates selected that year to be an NIH clinical dental staff fellow. The 3-year program provides training in research, oral medicine, and care of the medically compromised patient for dentists interested in pursuing teaching and research careers.

Under the direction of Dr. Bruce Baum, NIH clinical director, Dr. van der Ven has been working in the Clinical Investigations Section, studying how receptors on salivary gland cells differ in saliva obtained from within these cells and regulate secretory events in the salivary gland.

His research interests include salivary gland physiology and dysfunction, the effects of radiation on normal tissues, and the effects of aging on the physiology of oral tissues.

Of the Fulbright award, Dr. van der Ven said, "This next year at the Institute for Experimental Gerontology will be a very good research experience because it is directly related to my interest in aging. It will be an excellent opportunity to gain a broader perspective in seeing how other researchers look at age-related phenomena.

He added that he plans to make the most of his year in Holland by learning the language and seeking out relatives who live there. "We're extremely proud that one of our first clinical dental staff fellows has been chosen for such a prestigious award," said Dr. Baum.

"There is a real need for people like Dr. van der Ven in dental education, and the opportunities afforded by a Fulbright Scholarship should pay great dividends to Peter as well as the dental profession."

Dr. van der Ven received his undergraduate degree from Bowdoin College in 1974 and a D.M.D. from Harvard School of Dental Medicine in 1981. Prior to coming to the NIDR, he completed a residency in hospital dentistry at the University of Oregon Health Sciences Center. As a Fulbright scholar in the Netherlands is finished, he would like to teach oral medicine at a U.S. dental school.

NIH Singers Present Concerts

The NIH/R&W Singers, under the direction of Philip Cardallis, will present their annual spring concert, "The Clinical Center's Masur Auditorium, Wednesday, May 22, at noon, and Thursday, May 23, at 8 p.m. These free concerts feature works of Romantic composers, in addition to selections by Gilbert and Sullivan and a medley by the Barbershop Quartet. The Singers would like to recruit more basses and tenors. Those interested should call the director at 496-1756.
Dr. Stephen L. Bacharach
Physicist (Nuclear Medicine)
Nuclear Medicine Department
Clinical Center
"For initiative, high scientific standards, creativity, productivity and consistent demonstrations of insight into research issues as a Physicist on the Clinical Center Staff."

Dr. Anne P. Ball
Chief, Blood Diseases Branch
Division of Blood Diseases and Resources
National Heart, Lung, and Blood Institute
"For exceptional service and leadership in developing and administering federal and international programs in thrombosis and hemostasis and red cell disorders."

Dr. Gilbert W. Beebe
Statistician (Health)
Clinical Epidemiology Branch, DCE
National Cancer Institute
"For applying extraordinary knowledge of dosimetry and human effects of ionizing radiation in devising radiobiological tables."

Dr. John E. Coligan
Head, Membrane Antigen Structure Section, UIV
National Institute of Allergy and Infectious Diseases
"For elucidation of the primary protein structure of major transplantation antigens and definition of functionally relevant variations in these highly polymorphic molecules."

Dr. Andreas C. Chrambach
Head, Section on Macromolecular Analysis, Laboratory of Theoretical and Physical Biology
National Institute of Child Health and Human Development
"For pioneering the development of methods in gel electrophoresis and their application to the characterization and purification of hormones, enzymes, and receptors."

Dr. Joan Cornoni-Huntley
Deputy Associate Director for Epidemiology, Demography, and Biometry Program
National Institute on Aging
"In recognition of sustained excellence in the development of major epidemiologic research activities on health and illness of the elderly within the National Institute on Aging."

Outstanding accomplishments of various staff members will be recognized by Dr. James B. Wyngaarden, Director, NIH, at the 15th Annual NIH Honor Awards Ceremony to be held on Monday, June 17, 1985. All employees are invited to attend the ceremony which begins at 1:45 p.m. in the Jack Masur Auditorium.

The NIH Director's Award recognizes exceptional work performance by employees who have made substantial or exceptional contributions to the benefit of the programs of the people of the NIH. This honor award is approved by Director, NIH, and 36 staff members will receive this recognition.

The Outstanding Service Medal will be presented to six commissioned officers. This award recognizes officers who have either demonstrated outstanding continuous leadership in carrying out the mission of the PHS, or have performed an accomplishment which has had a major effect on the health of the nation, or have performed a heroic act resulting in the preservation of health or property.

The PHS Outstanding Unit Citation will be presented to four commissioned officers as
staff members of the Pharmaceutical Development Service Section, Pharmacy Department, Clinical Center. This award is made to officers who exhibit superior service toward achieving the goals and objectives of the Public Health Service. The award requires the performance of exceptional service of national or international significance. The award recipients are: John A. Ellermann, Jr., Raymond F. Greene, Jr., George J. Grimes, Jr., and James W. Wilson Jr.

The NIH-EEO Award of the Year will be presented to Nola J. Whiffield, program analyst, Division of Extramural Activities, NCI.

The Harvey J. Bullock, Jr. Award for Equal Opportunity Achievement will be presented to Fannie Alexander, technical information specialist, Office of Planning and Analysis, NINCDS.

At the ceremony, Presentation of Colors will be made by the Joint Armed Forces Color Guard and music will be provided by the Montgomery College Small Jazz Ensemble under the direction of Dr. James Badolato.

Janice M. Feldman, R.N.
Chief, Allergy, Arthritis and Child Health Nursing Service
Nursing Department
Clinical Center
"For superior performance in the administration of the Cancer Nursing Service, contributions as an innovative administrator, and for demonstrating exceptional leadership skills in initiating significant nursing management improvements."

William T. Fitzsimmons
Executive Officer
National Institute of General Medical Sciences
"For exceptional performance as Executive Officer of the National Institute of General Medical Sciences, as evidenced by significant contributions to the NIGMS and the entire National Institutes of Health."

Yvonne DuBuy
Budget Officer
National Institute of Allergy and Infectious Diseases
"For excellent management of the NIAID budget, and exceptional financial management skill and creativity exercised with respect to Acquired Immunodeficiency Syndrome research funding."

Norma M. Hendrix
Supervisory Staffing Specialist
Systems and Actions Branch, DPM
Office of the Director
"For dedication, expert technical knowledge, consistent superior work performance and leadership as head, Personnel Actions and Records Section, Systems and Actions Branch, Division of Personnel Management."
Dr. Kissman
Dr. Lai

Dr. Henry M. Kissman
Associate Director for Specialized Information Services
National Library of Medicine
"For foresight and leadership in developing and improving the availability of critical toxicological information for the biomedical community."

Dr. Ching-Juh Lai
Head, Molecular Virology Section, NID
National Institute of Allergy and Infectious Diseases
"For significant contributions to basic understanding of the manner in which influenza A virus transcribes and translates its genetic information."

Dr. Pitlick
Ms. Quinlan

Dr. Frances A. Pitlick
Associate Director for Scientific Programs Division of Blood Diseases and Resources National Heart, Lung, and Blood Institute
"For effective and exceptional service to the Blood Diseases and Resources Division, NHLBI, by providing strong leadership, unbounded energy and creative outputs for the Division.

Margaret C. Quinlan
Secretary to the Director, NIH Office of the Director
"For diligence, resourcefulness and conscientiousness in meeting the many demands encountered in providing a wide range of administrative and secretarial support to the Director, NIH."

Dr. Showacre

Dr. Showacre

Dr. Edward G. Lakatta
Chief, Cardiovascular Section Clinical Physiology Branch National Institute on Aging
"For creative leadership and exceptional achievement in the development of a comprehensive research program on aging and the cardiovascular system."

Jeanne Malcolm
Chief, Project Control Unit Referral and Review Branch Division of Research Grants
"For productively creative leadership and work performance as Chief, Project Control Unit, Referral and Review Branch, Division of Research Grants."

Lucille Reaves
Supervisory Communications Specialist Office of Administrative Management National Institute of Environmental Health Sciences
"In recognition of leadership and dedication in providing high quality, responsive office service and communication support to the National Institute of Environmental Health Sciences."

Deborah S. Ris
Secretary (Typing) Health Education Branch National Heart, Lung, and Blood Institute
"In recognition of consistently superior performance and exceptional contributions to the National High Blood Pressure Education Program and the Health Education Branch."

Joseph A. Skelton
Chief, Cage Washing Unit Media and Glassware Services Branch Office of Research Services
"For managerial ability, dedication to quality and work output which have upgraded the cage washing service to a state of excellence resulting in improved service to the NIH community."

Marianne S. Wagner
Personnel Officer Office of Administrative Management National Cancer Institute
"In recognition of contributions to computerizing personnel functions and for demonstrated leadership in the field of personnel management."

Dr. Sharon M. Wahl
Chief, Cellular Immunology Section Laboratory of Microbiology and Immunology National Institute of Dental Research
"For superior leadership as Chief of the Cellular Immunology Section and sustained achievements in exploring the role of cell-mediated immunity in the regulation of chronic inflammation."

May 21, 1985
Edmund J. Wendel, Jr.
Biol ogist
Laboratory of Viral Carcinogenesis, DCE National Cancer Institute
"For major contributions to the establishment and characterization of genetic variants for promotion of neoplastic transformation or mitogenic response, valuable tools in cancer research."

Dr. Billy G. White
Supervisory Mathematical Statistician
Convulsive, Development and Neuromuscular Disorders Program
National Institute of Neurological and Communicative Disorders and Stroke
"For superior performance as Chief, Technical Information Section and Acting Chief, Epilepsy Branch, Convulsive, Developmental and Neuromuscular Disorders Program."

John A. Eltermann, Jr.
Raymond F. Greene, Jr.
George J. Grimes, Jr.
James W. Wilson Ill
Pharmaceutical Development Service Section
Pharmacy Department
Clinical Center
"For special performance of duties as members of the Pharmaceutical Development Service Section, Pharmacy Department, and for meeting the expanding investigational drug service needs of the Clinical Center."

Walter P. Schneiderwind
Chief, Physical Therapy Department
Clinical Center
"In recognition of a heroic act in which he voluntarily risked loss of his own life and during which he sustained personal injury in order to rescue an injured person from heavy seas on Virgin Gorda, British Virgin Islands, on January 17, 1985. (Award is with a Bronze V device.)

Nola J. Whitfield
Program Analyst
Division of Extramural Activities
National Cancer Institute
"For outstanding contributions to advancing the goals and objectives of the NIH EEO programs and for sustained superior accomplishments in support of minority education."

Harvey J. Bullock, Jr. Award for Equal Opportunity Achievement

Fannie Alexander
Technical Information Specialist
Office of Planning and Analysis
National Institute of Neurological and Communicative Disorders and Stroke
"For outstanding efforts to develop an effective NINCDS Advisory Committee and All Employees’ Meeting and for promoting sensitivity to EEO concerns throughout the Institute."
Security
(Continued from Page 1)

Elizabeth Gibson, the first and only female locksmith in the Key Control Unit, checks for lock security and proper key fit.

- Enhancement of the professional expertise of PSMB. Thomas Kramer, a noted hospital, community and business security expert, has joined the staff to act as a management and technical consultant;
- Service to the NIH community will be highlighted and augmented.

In order that NIH employees gain a better understanding of the services and expertise available, a profile of training and services is being reviewed.

According to Dr. Emmett Barkley, director of the Division of Safety, and acting branch chief, PSMB, “Protection and security programs at NIH can be greatly enhanced by fostering a closer relationship between protection and security professionals and the NIH community.

The value of protection and security programs which emphasize service to the community they serve has long been recognized.”

Signs of Security

Brief rundowns on several aspects of security at NIH follow:

NIH Police

For the past 5 years, NIH police officers have received training at the Federal Law Enforcement Training Center in Glynco, Ga. During the 8-weeks of basic training, officers are taught law, evidence, court procedures, communications, human relations, and investigative techniques, use of firearms and driving and physical protection.

The Communications Room of PSMB receives and transmits approximately 300 messages a day. These include policy, fire and rescue calls, intrusion alarms from the Credit Unions on campus, and after-hour maintenance engineering emergencies. Additional resources located in the Communications Room include 38 monitored VCRs tied to 38 remote cameras capable of recording incidents throughout the campus.

Key Control

Whether an employee works in a lab, hospital or office, he is encouraged to use the services provided by the Key Control Unit of PSMB. Locksmiths provide a manually operated and unlocking system for all exterior doors and control locks and keys for the 23,000-plus interior doors for all NIH buildings on and off campus.

A security-minded employee can use a variety of options to ensure security of equipment such as typewriters, balances and computers. Services are obtained through the Key Control Unit, 496-3507.

Cardkey System

A computerized security system called Cardkey electronically locks and unlocks exterior doors at a predetermined time. This system, installed in many NIH buildings, now operates between 6 p.m. and 6 a.m. weekdays, and for 24 hours on Saturdays, Sundays and holidays.

Call NIH security specialists Floyd Rush or Debbie Thomson on 496-9818 if you have any questions.

Escort Service

Although assaults are very few on the NIH campus, employees who leave their offices, laboratories or the Clinical Center after hours or when it is dark probably experience some anxiety about their safety. Several services offered by PSMB and the Transportation Branch can make the walk from workplace to transportation easier. Escorts are available by calling 496-5685. NIH Shuttle Service information can be obtained by calling 496-5326.

Sexual Assault Workshops

A workshop series on sexual assault will be presented on the NIH campus in cooperation with the Montgomery County and NIH Police Departments. This topic, as well as others, will emphasize crime prevention initiatives on campus and in the community outside of NIH.

Interested employees are encouraged to attend the workshops to gain a better understanding of how and when sexual assaults occur to dispel misconceptions about such assaults, and to get acquainted with the services provided by the two police departments.

The following schedule has been arranged to accommodate both daytime and evening employees:

Tuesday, June 4  6 to 7 p.m. CC Amphitheatre
Thursday, June 6  1 to 2 p.m. CC Amphitheatre
Tuesday, June 11  1 to 2 p.m. Wilson Hall, Bldg. 1

For further information, call Jim Koerber at NIH Police, 496-6893.

Emergency Telephone Numbers

Bldg. 10, Clinical Center, ACRF numbers:

<table>
<thead>
<tr>
<th>Services</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police</td>
<td>496-8872</td>
</tr>
<tr>
<td>Security Surveys and Administrative</td>
<td>496-4799</td>
</tr>
<tr>
<td>Campus, All Buildings:</td>
<td></td>
</tr>
<tr>
<td>Emergency Police</td>
<td>115</td>
</tr>
<tr>
<td>Security Evaluation (except Bldg. 10)</td>
<td>496-9818</td>
</tr>
<tr>
<td>Investigations</td>
<td>496-3211</td>
</tr>
<tr>
<td>Key, Locksmith Security Devices</td>
<td>496-3507</td>
</tr>
<tr>
<td>Parking Services</td>
<td>496-6651</td>
</tr>
<tr>
<td>Ridesharing Services</td>
<td>496-5050</td>
</tr>
<tr>
<td>Escort</td>
<td>496-5685</td>
</tr>
<tr>
<td>NIH Shuttle Services</td>
<td>496-5326</td>
</tr>
<tr>
<td>On-Off Campus</td>
<td></td>
</tr>
<tr>
<td>Metrorail, Metrobus, Ride-On Bus</td>
<td>496-5050</td>
</tr>
<tr>
<td>Information</td>
<td></td>
</tr>
<tr>
<td>Government Drivers License</td>
<td>496-4276</td>
</tr>
<tr>
<td>Police, nonemergency</td>
<td>496-5685</td>
</tr>
<tr>
<td>Rental Buildings</td>
<td></td>
</tr>
<tr>
<td>Emergency Police (Mont. Co.)</td>
<td>911</td>
</tr>
<tr>
<td>Nonemergency police/security</td>
<td></td>
</tr>
<tr>
<td>Blair</td>
<td>427-8609</td>
</tr>
<tr>
<td>Landow</td>
<td>496-2766</td>
</tr>
<tr>
<td>Westwood</td>
<td>496-7250</td>
</tr>
<tr>
<td>Federal</td>
<td>496-1120</td>
</tr>
<tr>
<td>NLM</td>
<td>496-6610</td>
</tr>
<tr>
<td>NIH Animal Center, Poolesville</td>
<td>496-9553</td>
</tr>
</tbody>
</table>

Ofr. John Ferguson (l) issues parking permit for outpatients and visitors on the P-3 level of the ACRF parking garage.
Canines and Security

NIH staff might jump to conclusions when asked the purpose of dogs on campus. Because NIH is a research community, care and concern of the canine population is probably associated more with research protocols, animal handlers, and animal care committees than security.

But Maverick, a German shepherd trained by Montgomery County Police, is now a member of the NIH Police Department charged with a special mission: assisting the police on patrol and in narcotics searches.

Maverick was selected after approximately 50 other dogs were reviewed.

Dr. James F. Harwell, an NIH veterinarian, did medical reviews to determine which dogs were medically fit. The dogs then were tested to determine their level of aggressiveness and how well they responded to a handler.

Cpl. Gerald Watson, a 14-year veteran of the NIH Police Department, and Maverick attended training together to learn to work as a team.

Watson and Maverick work together on foot patrol from 8 p.m. to 4 a.m., spending much of their time around the Clinical Center, particularly at nursing shift changes.

But their activity and route are not limited to the Clinical Center. They also patrol the wooded areas around campus, areas with heavy foot traffic, and the Metro station.

Maverick is also trained in search techniques. He is able to identify the scent of a lost child or criminal. His style is systematic. He circles an entire area, then breaks it into different sections so he is able to distinguish between the scent of shrubbery, etc., or the scent of a human and an article previously touched by a human. He is happy to demonstrate his search skills.

Maverick will be joined by another canine colleague, D.J., in the near future. Peter Kekenes, a 1-year veteran with PSMB, and D.J. are currently attending training at the Baltimore County training program.

Ridesharing: How and Where to Arrange It

The NIH Parking Office offers information and assistance to employees interested in ridesharing.

NIH Commuter Club applications are available from the Parking Office. Completed applications are forwarded to the Montgomery County Division of Transit Planning where, with the assistance of the Council of Governments, the applications are compiled into a listing of NIH Commuter Club participants. The listing is available in the Parking Office for NIH employees to review.

The Parking Office also has information on all types of ridesharing, including vanpooling and carpooling, and Ride-On, Metrorail and Metrorail carpooling. There is also a parking locator by the Parking Office, Bldg. 31, B1B corridor, which provides a means for prospective carpool members to locate other interested carpoolers by the use of a grid map and carpool locator cards (NII Form 26-10).

The NIH Commuter Club applications and carpool locator cards are included in each new NIH employees' orientation package.

Other organizations available to assist NIH employees in establishing or joining van and carpoolers are:

- Ridesharing Information Sources
  - Montgomery County Ridesharing Unit: Instant Matching
    - Hotline: 251-2782
    - 9 a.m. to 11 p.m.
      - 770-POOL
      - 24 hours
  - Share-A-Ride of Montgomery County: Serving Bethesda, Serving Silver Spring, Serving Germantown
    - 656-5804
    - 9 a.m. to 5 p.m.
      - Weekdays
  - Maryland Vanpool Association
    - 622-4888
    - 8 a.m. to 5 p.m.
      - Weekdays
  - Maryland Transportation Authority
    - 659-3099
    - 8 a.m. to 5 p.m.
      - Weekdays
  - For information on Ride-On bus service, Metrorail, or Metrorail, contact the Parking Office, or:
    - Transit Information Center
      - Ride-On Bus
    - WMATA
      - Metrorail and Metrorail
      - 637-2437

Parking Tickets: How To Handle

NIH Police issue tickets to achieve a sense of order on campus, and tickets issued by NIH Police are real.

The Protection and Security Management Branch offers these helpful hints for handling parking tickets:

- Your risk of receiving a ticket with a general permit is greatly increased if your car is found parked in a carpool space.
- After receiving a ticket, you have 7 days to pay or to schedule a court date to contest it.
- A special courtroom has been established in the Landow Bldg. on a twice-monthly basis to eliminate traveling to Baltimore City. The court, which hears NIH parking grievances as well as other misdemeanors, is part of the U.S. District Court.
- Two members of PSMB act as U.S. Special Deputy Marshals to litigate non felony cases and have the authority to dismiss cases.
- If a ticket is not paid within 7 days nor a court date established, the fine is tripled within approximately 30 days. If the fine is ignored, a warrant is issued. Six hundred such warrants were issued at NIH last year.
- The price and convenience of parking at NIH can't be beaten. Ask your friends at Parklawn or HHS. For further information, call Tim Pickett, PSMB, 496-3211.

Security at Clinical Center

Full-time security staff in the Clinical Center (Bldg. 10) was established in October 1984. This contingent is under direction of Lt. Andrew L. Fortune.

The positive effect of increasing the full-time security staff in Bldg. 10 for each of the three security shifts is evident when reviewing theft reports and when speaking to Bldg. 10 administrators. Between October 1984 and April 1986, thefts in Bldg. 10 decreased from 35 to 10 per month, the number of dollars lost plummeted from $24,608 in October to $2,990 in June.

Walter Moten, director of Bldg. 10 Housekeeping Services for 31 years, said, "The security specialists currently located in Bldg. 10 are friendly, the housekeepers know them, and they are highly visible. As a result, my staff finds it easier to communicate with them and they feel more secure."

Susanne Stoiber, CC executive officer, says "the Clinical Center has welcomed the assignment of a dedicated officer corps. The officers have been oriented to Clinical Center operations, and staff and patients feel much more secure than in the past. Reported thefts are down significantly."

Mike Hemmer, the full-time security specialist in Bldg. 10, welcomes comments and suggestions about security issues. His office is located in Rm. 1N205, call 496-4799.

The Mathilde Solowey Award

The Mathilde Solowey Award was established in 1973 by the Foundation for Advanced Education in the Sciences, not 1983 as was stated in the May 7 issue of The NIH Record. FAES awards the prize each year to an outstanding scientist specializing in research in neurology or diseases of the central nervous system.

The NIH Record
response defends the individual against foreign invaders (for example, bacteria). Under some circumstances, however, the immune response can turn against and react with the individual's own tissue, a phenomenon known as autoimmunity.

Autoantibodies that react with beta cells, for example, have been found in many newly diagnosed IDDM patients. Studies by Dr. Notkins and others have shown that the appearance of these antibodies may precede the symptoms of diabetes in some persons by months or even years.

These autoantibodies now serve as a marker for identifying individuals at high risk of developing IDDM.

Investigating what triggers an autoimmune response, Dr. Notkins and colleagues have shown that viruses can sometimes initiate the production of autoantibodies through processes such as molecular mimicry and the transformation of antibody-producing lymphocytes. They also have succeeded in making both mouse and human monoclonal autoantibodies, some of which have the capacity to react with factors in multiple organs.

With large quantities of these autoantibodies now available, scientists have an opportunity to isolate and characterize some of the factors involved in human autoimmune diseases—information that will be invaluable in learning not only how these diseases are switched on, but perhaps how they can be turned off.

In related research with major clinical potential, Dr. Notkins, in collaboration with investigators from the National Institute of Allergy and Infectious Diseases, has recently developed a recombinant vaccine that blends smallpox vaccine with genes derived from herpes simplex virus type 1, the cause of cold sores. In animal studies, the investigators have shown that mice inoculated with the new vaccine are protected against infection when exposed to herpesvirus.

The vaccine also prevents the virus from taking refuge in the nervous system—the source of recurrences that plague sufferers of cold sores and genital herpes. An added bonus was the finding from these studies that the new vaccine also confers substantial immunity to genital herpesvirus.

Dr. Notkins cautions, however, that more extensive testing will be required before such a vaccine could become commercially available.

During his 25 years as a PHS officer at the NIDR, he has published and lectured extensively throughout the world in the fields of viral immunology and immunopathology, as well as on the role of autoimmunity in diabetes mellitus and related disorders.

Dr. Notkins received the David Rumbogh Scientific Award of the Juvenile Diabetes Foundation in 1980 for investigative excellence in diabetes, and was presented the DHEW Meritorious Service Medal in 1973 and the DHHS Distinguished Service Medal in 1981.

He was also the first recipient of the Paul E. Lacy Research Award. He has received numerous other commendations over the course of his research career and has delivered a number of honorary lectures in the United States, Europe and Asia. He was elected to the Association of American Physicians in 1982.

## ANIMALS

(Continued from Page 1)

qualified in laboratory animal medicine who will participate in the program.

- The role and responsibilities of animal care and use committees of local institutions and their involvement in all aspects of the institution's PHS-supported animal research program are upgraded. The policy also requires that the "use committee" include an individual unaffiliated with the institution, a veterinarian with training or experience in the care and use of laboratory animals, a practicing scientist experienced in animal-related research, and a member whose primary concerns are nonscientific.

- Each institution is required to provide detailed information on the institution's program for the care and use of research animals in PHS-supported activities. This additional information will help in assessing each institution's commitment to animal welfare and its ability to comply with the policy.

- Institutional animal care and use committees must review and approve those sections of research applications for PHS funding that relate to the care and use of animals. PHS will not award funds for research involving animals until this approval is documented.

- Any institution that is not accredited by the American Association for Accreditation of Laboratory Animal Care—the recognized nongovernmental accrediting organization in the field—will have to conduct a self-assessment of its animal research program based on the NIH Guide for the Care and Use of Laboratory Animals. Deficiencies in an institution's program or facilities must be reported to NIH and the institution must correct these deficiencies within an approved time period.

An updated version of this Guide—prepared by the Institute for Laboratory Animal Resources within the National Academy of Sciences—will be released shortly.

The revised policy follows a 2-year NIH review of the policy in effect since 1979. This review included an assessment of NIH's system for approving proposals to conduct PHS-supported research with live animals as well as site visits to 15 awardee institutions to evaluate the adequacy of NIH's animal welfare assurance system.

One major recommendation of the site visits was to expand and strengthen the 1979 policy. A proposed revision was circulated for comment in April 1984; it drew 340 written and oral comments. Each comment was considered by PHS officials who developed the new recently announced policy.

The first workshop to implement the revised policy was held by the Office of Protection from Research Risks on the University of Southern California campus on May 2-3. Some 150 participants from 12 states attended.

OPRR plans a series of similar workshops in other regions of the country in 1986.