

"Still
The Second
Best Thing
About Payday"

The NIH Record

Phased Occupancy Planned

Silvio O. Conte Building Completed On Time, Within Budget

By Rich McManus

The most modern research facility at NIH—the Silvio O. Conte Building—has just been completed on time and within budget by the Division of Engineering Services (DES). Dedicated to research on child health and neurosciences, the \$72 million facility honors the late Rep. Silvio Conte, who helped break ground on the project 4 years ago.

Conte, a Massachusetts Republican, was an ardent supporter of biomedical research in Congress for many years. He called the groundbreaking ceremony in 1988 the proudest day of his political career. The legislator died in 1991 at NIH, where he had been treated for cancer.

"This building meets all state-of-the-art standards," said John Pallas, chief of the Design and Construction Branch (DCB), DES. "It was a very difficult facility to design because it colocates office space, laboratories and animal space. All of these uses require different ventilation, cooling and heating needs. It's a very unusual mix."

Some 550 researchers and support staff from seven institutes are expected to take occupancy of the Conte Bldg. A year-long "coordinated occupancy phase" is scheduled to start moving users into the building late this year or in early (See **CONTE BLDG.**, Page 8)



The Silvio O. Conte Bldg. (Bldg. 49) will be dedicated Sept. 17 in honor of the Massachusetts congressman who was a strong advocate of biomedical research. Seven institutes will share space in the state-of-the-art facility devoted to child health and the neurosciences. Standing out front of the facility are Division of Engineering Services workers who spearheaded the construction effort: (from l) Frank Kutlak, John Pallas, Cyrena Simons, Ernest Lunsford and Stephen Hagan.

NIH Team To Repair Florida Primate Center Hit by Andrew

By Rich McManus

A seven-man team of volunteers from NIH's Division of Engineering Services left Sept. 2 on a 14-day mission to clean up the NIH Perrine Primate Center in Florida, damaged during Hurricane Andrew. "The center, owned by NIH but licensed to the University of Miami, is home to a valuable outdoor breeding colony of rhesus and cynomolgus macaque monkeys, none of which were infected or currently involved in research," said Dr. Jim Taylor, deputy director of NIH's Office of Animal Care and Use.

Three hundred-fifteen monkeys were housed in some 34 outdoor cages at the facility when the storm hit. While most of the colony weathered the gale, several monkeys died when their group housing modules collapsed, and others fled the premises once freed, Taylor reported. Fearing that the animals were infected, residents of the area shot several monkeys, he added. Coast Guard employees are helping local authorities round up escaped macaques.

The 14-acre center is part of a 58.5-acre tract purchased by NIH in 1982; other agencies lease land on the site, located south of Miami, near

(See **PERRINE**, Page 2)

NIAAA Research: From Cell to Society

By Ann M. Bradley

(Part 1 of a three-part series examining the three new institutes slated to join NIH on Oct. 1, when the NIH/ADAMHA merger takes effect.)

In 1791, the College of Physicians of Philadelphia petitioned the newly formed U.S. Congress to take action against alcoholism. Likening the disease to a plague, the physicians asked whether any government faced with alcohol-associated health and social problems could fail to take major action.

Major action in modern times centers in the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the lead federal agency for research on the causes, consequences, prevention, and treatment of alcohol abuse and alcoholism.

NIAAA joins the National Institutes of Health with a 1992 budget of \$172 million and almost 300 intramural and extramural program staff.

The extramural program administers approximately 700 grants in medical centers and universities across the country. Among the grantees are 14 diverse Alcohol Research Centers that focus on specific areas of alcohol study, including genetic determinants of alcohol abuse and alcoholism, pathological consequences of alcohol abuse, alcoholism treatment, and alcohol abuse prevention.

Created in 1970, at the urging of persons whose lives had been affected directly by alcohol problems, NIAAA first was charged with addressing the severe public health need for treatment of approximately 10 million persons with alcoholism. Only during the past decade has the institute's exclusive mandate been research, research training, and research dissemination.

NIAAA's first decade was devoted largely to developing a national treatment network and eliminating barriers to care. In addition, the institute conducted education and information campaigns on alcoholism as a disease rather than a criminal justice or mental health issue.

According to Dr. Enoch Gordis, director since 1985, NIAAA's evolution as a research institute is essential.

"Until we answer such basic questions as the central and elusive question about alcoholism—why a pathological appetite for alcohol exists at all—optimal prevention and treatment strategies also remain elusive," he said.

Gordis views the current reorganization as a culmination of NIAAA's research mandate. "Our move to NIH offers a clear opportunity to solidify the position of alcohol research in the

(See **NIAAA**, Page 4)

PERRINE*(Continued from Page 1)*

Homestead, Fla., the community hardest hit by the Aug. 23-24 hurricane. Three buildings and a trailer form the Primate Center's support space, and all sustained damage; the trailer was a total loss. All of the outdoor monkey cages were destroyed, but there were no injuries to humans, Taylor said.

"Perrine is just north of where the eye crossed Florida," he said. He added that new monkey homes were already being procured for installation by the DES volunteers.

"The volunteers will be involved in immediate post-disaster work—picking up debris, repairing fences, making it safe for people to walk around," Taylor continued. "They will be working under very difficult conditions since there is no power, food, water or accommodations. It's not a trip to Disneyland."

Leading the DES crew is Gerald W. Lawson, special technical assistant to the branch chief in the Design and Construction Branch. DES Director Jorge Urrutia put him in charge of assembling, on very short notice, a team of workers from a variety of trades and enough equipment to respond to the disaster. "They are tasked to take care only of the most urgent needs," Urrutia said. "They won't be rebuilding the entire center."

About 31 DES workers volunteered for duty, which heartened Urrutia and boosted morale throughout the shops area of Bldg. 13.

"That was very surprising to me, given the conditions they will be working under," he said. "It's not like going to the beach. It is very commendable for them to do this. They had a million things to put together before leaving and they did it in a couple of days."

Lawson claimed for his team two carpenters, a welder, an electrician and two equipment operators for the first 14-day shift. After 2 weeks, a second DES team may join him at

"It's not like going to the beach. It is very commendable for them to do this."

Perrine. Lawson will remain 3 to 4 weeks to supervise repairs. The workers will live aboard a 29 1/2-foot mobile home that DES rented for a month. Lawson also secured from the NIH motor pool a 22-foot moving van, a 7-ton dump truck, a utility trailer, and a front-end loader. The vehicle convoy will be escorted by police once it reaches Jacksonville, some 600 miles north of Perrine, Urrutia said. "That's because there's a danger of looters, particularly those in search of building supplies."

Formally known as the NIH Perrine Primate Center Hurricane Andrew Emergency Damage Repair Task Force, the group is taking with it virtually everything it will need for living.

"We've got generators, compressors, hand and



DES Director Jorge Urrutia (in suit) bids farewell to a team of volunteers from his division who are delivering disaster relief to the NIH Perrine Primate Center in Perrine, Fla. They are (from l) Pete Manuel, Elmer M. Lazarus, Roy Wright, team leader Gerald W. Lawson, Leo G. Palladini, Harry Hill, and Philip McGee. Behind them is the mobile home the team will live in during the repair operation and one of the trucks in the fleet going to Florida.

power tools, ladders, lights, gas, water, portable phones, faxes and computers, food, dishes, bedding and first-aid kits," enumerated Lawson. "They tell us we may find ticks, snakes, fire ants, and scorpions down there." He also had truckloads of roofing material, nails and other supplies needed to get Perrine back on its feet.

The volunteers will work every day of the week, most likely in high heat and humidity. Lawson received special permission to authorize overtime compensation for the duration, and to execute contracts should outside help be necessary.

"Normally, this is not my job," explained Lawson, who has never been to Perrine before. "I don't know what we'll find but we're preparing for the worst."

Veterinarian Taylor will visit the site in a few weeks to assess damage to the Perrine compound. An architectural firm will also visit to inspect the site and estimate the cost of full repair, said Urrutia.

"The facility did not meet AAALAC (American Association for the Accreditation of Laboratory Animal Care) standards prior to the storm. We'll have to see how much it would take to bring it up to AAALAC's guidelines." Initial estimates place this cost at approximately \$4.5 million, he said.

Urrutia thanked the first wave of volunteers just before they left campus and wished them well on their difficult mission. NIH director Dr. Bernadine Healy also expressed her concern for the welfare of the animals at Perrine and the need for a rapid restoration of the facilities by NIH.

"A lot of logistical work went into this project," marveled Urrutia. "It was very well coordinated. They will bring the relief that is necessary to restore this facility for the benefit of NIH." □

New String Quartet Season Opens

The fourth season of lunchtime concerts at NIH by the Manchester String Quartet begins on Sept. 25. Concerts are held from 12:30 to 1:30 p.m. in Masur Auditorium, Bldg. 10. Other dates for the 1992-1993 season are Nov. 23, Dec. 14, Jan. 25, Feb. 15, Mar. 15, Apr. 12 and May 17. □

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NIAID Honors Sheldon Wolff, Distinguished NIH Alumnus, at Research Festival

The NIH Research Festival provides an opportunity for NIH scientists to celebrate their most recent achievements and to explore the implications this work may have for the future.

A highlight of the festival is the NIH Alumni Symposium. NIAID, as the coordinating institute for this year's symposium, has entitled the program "Frontiers In Immunology and Infectious Diseases." The symposium will take place in Masur Auditorium on Monday, Sept. 21, from 8:45 a.m. until noon. It provides the setting for the presentation of the 1992 NIH Distinguished Alumni Award, which NIAID director Dr. Anthony S. Fauci will present to NIAID alumnus Dr. Sheldon M. Wolff.

The alumni of NIH form an elite corps of scientists and physicians. Wolff not only stands as a leader among that group, his accomplishments—both at NIAID and since—serve as a symbol of the achievements and the goals of the institute. As his contribution to the symposium, Wolff will discuss "Mechanisms of Host Defense: Recollections on the Development of an Intramural Program."

Wolff's intramural tenure at NIH began in



Dr. Sheldon M. Wolff

1960, when he joined NIAID's Laboratory of Clinical Investigation (LCI), directly after completing his medical residency. Within a short time, his strengths as an investigator, clinician, teacher, and administrator had infused the lab with a new vigor. He subsequently became NIAID clinical director and chief of LCI, which, under his leadership, grew to be

one of the most productive and respected clinical research facilities in the country.

His LCI initiatives in the study of fever have resulted in major contributions to our understanding of the mechanisms that cause fever, the effects of fever on the host, and the role of fever in infectious, inflammatory, and immunologic disorders.

Patients with fevers of unknown origin also attracted Wolff's interest at LCI. In addition to identifying the immunologic defects that caused many such illnesses, he also found dramatically effective, often lifesaving, treatments for these patients.

In addition, work that Wolff began with Dr. Charles Dinarello in LCI resulted in groundbreaking research on interleukin-1, a fundamental and very powerful component of the body's immune system.

Wolff is currently at Tufts University School of Medicine in Boston, where he is serving as Endicott professor and chairman of the department of medicine. He maintains close ties with NIAID, and continues to garner some of the scientific community's most prestigious awards. □

Julius Axelrod, Nobel Laureate, To Be Honored at Symposium, Sept. 18

Dr. Julius Axelrod, who won the 1970 Nobel Prize for physiology or medicine while working at the National Institute of Mental Health, will be honored at an upcoming scientific symposium for his contributions to the field of neuroscience. The symposium, held on the occasion of Axelrod's 80th birthday this year, will begin at 8:30 a.m., Sept. 18 in Masur Auditorium, Bldg. 10.

Axelrod began his career at the National Heart Institute in 1950—without a Ph.D. After earning his doctorate in pharmacology, he embarked on a career in neuroscience research at NIMH. He has made numerous scientific contributions including the discovery of drug-metabolizing enzymes and the enzymes responsible for the metabolism of biogenic amine neurotransmitters.

Axelrod won the Nobel Prize for his research involving the mechanisms by which nerve cells both remove and metabolize the neurotransmitter norepinephrine. His discovery of the reuptake process for certain neurotransmitters has led to the development of new antidepressant medications and other drugs to treat mental disorders.

His discoveries have also enabled him and other investigators to study the role of these neurotransmitters in behavior and in psychiatric illnesses such as depression and schizophrenia.

Sharing the 1970 Nobel Prize with Axelrod were Sir Bernard Katz, University College, London, and Dr. Ulf von Euler, Karolinska Institutet, Stockholm.

In addition to his pioneering research, Axelrod has mentored and trained more than



Dr. Julius Axelrod

70 scientists, many of whom have advanced to prestigious positions at highly acclaimed research institutions.

NIH director Dr. Bernadine Healy will be among the introductory speakers at the symposium lauding Axelrod, with NIMH director Dr. Frederick K. Goodwin giving the opening remarks.

The symposium will feature a number of Axelrod's former postdoctoral fellows who will speak on their current work, including Dr. Joseph Coyle, Harvard Medical School; Dr. Jacques Glowinski, College de France; Dr. Richard J. Wurtman, Massachusetts Institute of Technology; Dr. Roland D. Ciaranello, Stanford University School of Medicine; Dr. Chris Felder, NIMH; Dr. Solomon H. Snyder,

Johns Hopkins University; Dr. Ira B. Black, University of Medicine and Dentistry of New Jersey; Dr. Hans Thoenen, Max-Planck-Institute for Psychiatry; and Dr. Leslie Iversen, Merck Sharp & Dohme Research Laboratories. □

Response to DES Survey

The Division of Engineering Services' Grounds Maintenance and Landscaping Branch's Quality Circle would like to thank the many NIH employees who responded to their Mar. 3 customer survey. The survey was sent to 500 NIH employees requesting comments, suggestions, and ideas that could help GMLB to provide a more functional and aesthetically pleasing campus.

More than 100 responses were received on topics such as planting, sidewalks, grading and drainage, maintenance, picnic tables, and signage. Each suggestion and/or comment is currently being reviewed and an action plan will be developed based on the findings. The plan will then serve as a guide for making specific improvements on campus. □

Postmenopausal Volunteers Needed

Women, who experienced a normal menopause after age 45, and have had no menstrual cycle within 2 years are wanted for an NICHD study. The candidates should be in good health, on no regular medication, and able to come in for one outpatient visit to the Clinical Center. If interested call 496-4244. □

NIAAA

(Continued from Page 1)

mainstream of biomedical and behavioral research and, simultaneously, to expand our longstanding interest in linking the two."

The interrelationship of genetic and environmental factors in alcoholism etiology in part explains NIAAA's role in linking biomedical and psychosocial research. In addition, alcohol effects are manifest in almost every human organ system, and alcohol abuse affects every aspect of society.

Consequently, it has been neither possible nor desirable to study alcohol abuse and alcoholism from a single disciplinary perspective.

Two hundred years after the Philadelphia physicians identified a "plague" of alcohol problems in colonial America, an estimated 8.6 percent of adult Americans still meet standard diagnostic criteria for alcohol abuse or alcoholism. Approximately 25 percent of persons admitted to general hospital beds screen positively for alcohol-related conditions.

Alcohol-related medical effects include liver disease, pancreatitis, cardiovascular disorders, and brain damage that can range from mild neurobehavioral deficits to profound dementia.

Alcohol was responsible for approximately 107,800 deaths in 1988, of which almost 19,000 (such as alcoholic liver cirrhosis) were directly attributable to alcohol. Approximately 41,000 (due to diabetes and certain cancers) were indirectly attributable to alcohol, and more than 48,000 stemmed from injuries and other consequences (such as motor vehicle accidents, burns, and falls) indirectly attributable to alcohol.

The estimated economic cost of alcohol abuse and alcoholism in the United States ranges from \$86 billion to \$116 billion each year.

NIAAA confronts these human and economic costs through an integrated program of basic and clinical research to develop new knowledge for reducing the incidence and prevalence of alcohol abuse, alcoholism, and associated morbidity and mortality.

NIAAA's extramural research agenda includes studies of genetic predisposition to alcoholism, medical consequences, alcohol and pregnancy, pharmacological and psychological-behavioral interventions for alcoholism and its effects, alcoholism treatment outcome, and individual- and environment-oriented preventive interventions. Two large multisite, multidisciplinary collaborative studies of alcoholism genetics and of patient-treatment matching are special focuses of the extramural program.

The NIH campus-based Laboratory of Clinical Studies and other laboratories of the Division of Intramural Clinical and Biological Research have exemplified the institute's bench-to-bedside approach since 1983, when the institute opened an inpatient unit on the NIH campus, and the Clinical Center began to admit patients for alcoholism treatment and research.

The combination of well-equipped research

laboratories and a clinical unit offers scientists the opportunity to formulate hypotheses in laboratory and clinical settings and to test those hypotheses in readily available clinical populations.

"The reorganization will formalize our ongoing relationship with other NIH institutes and facilitate scientific exchange—both among NIAAA components and throughout the expanded NIH community," said Dr. Markku Linnola, scientific director of the Division of Intramural Clinical and Biological Research.

Senior investigators in the intramural program are internationally recognized scientists in basic and clinical electrophysiology, brain imaging, molecular genetics, developmental and behavioral pharmacology, intermediary metabolism, and cell membrane functioning.

Components of the intramural Laboratories of Membrane Biochemistry and Biophysics, Neurogenetics, Molecular and Cellular Neurobiology, and Metabolism and Molecular Biology are located both in Bldg. 10 and at the Washington Ave. "Flow" Bldg. in Rockville.

With the opening of Bldg. 49, the Laboratory of Molecular and Cellular Neurobiology will be moved from Rockville to the NIH campus.

The Parklawn Bldg. on Fishers Lane in Rockville houses the offices of scientific affairs, policy analysis, international and intergovernmental affairs, and planning and resource

management, as well as the extramural divisions of biometry and epidemiology, basic research, and clinical and prevention research.

With the Oct. 1 reorganization, the NIAAA director will have offices in both Bldg. 31 and the Parklawn Bldg.

NIAAA also serves as a national resource for the collection, analysis, and dissemination of alcohol research findings through scientific meetings, publications, and electronic media.

The institute publishes *Alcohol Health & Research World*, a quarterly scientific journal, and *Alcohol Alert*, a quarterly bulletin for clinicians, as well as monographs and other special reports.

ETOH, a bibliographic database of more than 75,000 records from scientific journals, monographs, and conference papers, and other sources, and the Quick Facts electronic bulletin board of epidemiologic information are available to investigators worldwide.

Future scientific emphases include studies of genetic vulnerability to both alcoholism and alcohol-related organ damage, fetal alcohol syndrome, medications development, and brain imaging in alcoholics to characterize the neurochemical bases of craving, impulsivity, and severe memory and cognitive impairment.

For additional information, contact the Office of Scientific Affairs, Scientific Communications Branch, (301) 443-3860. □

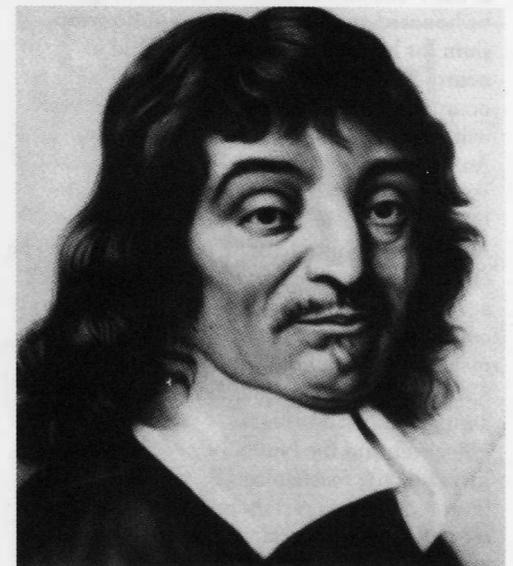
NLM To Present Exhibit on Mind and Body

"Mind and Body: René Descartes to William James," an exhibit commemorating the centennial of the founding of the American Psychological Association in 1892, will be on display in the lobby of the National Library of Medicine through Dec. 15. The exhibit was prepared by NLM's History of Medicine Division in collaboration with Dr. Robert H. Wozniak of Bryn Mawr College.

The exhibit considers both aspects of the mind/body question—the relationship of the mind to the brain and the relationship of the mind to the world around us. Much of the intellectual history of psychology as both a scientific and a clinical enterprise has involved the attempt to come to grips with these two problems of mind and body. The subject is traced from the first systematic account of the mind/body relationship in the work of René Descartes (1596-1650) to the culmination of various trends relating to the mind/body problem in the functionalism of William James (1842-1910).

Among the classic works on display in the exhibit will be René Descartes' *De homine* (1662), Jean-Martin Charcot's *Leçons sur les maladies du système nerveux* (1872-73), John Locke's *An Essay Concerning Humane [sic] Understanding* (1689), Wilhelm Max Wundt's *Grundzüge der physiologischen Psychologie* (1874), and William James' *The Principles of Psychology* (1890).

A booklet containing a historical essay and a



Although the great philosophical distinction between mind and body in western thought can be traced to the Greeks, the first systematic account of the mind/body relationship was given by René Descartes (1596-1650).

catalog of the books on display has been issued in conjunction with the exhibit. Single copies of this publication, which has the same title as the exhibit, may be obtained free by writing: Chief, History of Medicine Division, National Library of Medicine, Bldg. 38, Rm. 1E21B, 8600 Rockville Pike, Bethesda, MD 20894. □

STEP Unveils 30th Anniversary Program Offerings for 1992-1993

In celebration of its 30th year of providing training opportunities to the NIH extramural community, the Staff Training in Extramural Programs (STEP) committee recently announced its offerings for 1992-1993.

Continuing its tradition of addressing current issues and meeting training needs for extramural staff, STEP will offer a wide variety of modules and forums as well as the popular Science for All series. Modules treat topics in depth; forums provide a chance for discussion of current issues in a short format; and, the Science for All lectures provide health information on a level that can be understood by the nonscientist.

The programs are generally open to all extramural staff regardless of grade or function. Certain sessions are targeted to a specific audience. No advance registration is required for forums or the Science for All lectures but applications are necessary for participation in modules. Applications for the first three modules described below are due by Oct. 9. The deadline for applying for the other two modules is Dec. 11. Application Form 2245 (copies acceptable) should be completed and forwarded to the STEP office (Bldg. 1, Rm. 252) by the deadline. Be sure to read the instructions carefully as modules with limited space use the application to determine selection.

STEP falls within the auspices of the Office of Extramural Research under Drs. George Galasso, James O'Donnell, and Donald Murphy. The annual program is developed by an NIH-wide committee of approximately 25 experienced extramural staff in a variety of disciplines. In addition to developing the training sessions, members conduct them along with former committee members, senior NIH staff, and faculty drawn from leaders within and outside NIH.

David W. Snight, chief of the Research Contracts Branch, OD, has been appointed chairperson of the STEP committee this year. Dr. Lynn Amende of the NHLBI Review Branch is vice-chair. The program is directed by Arlene Bowles.

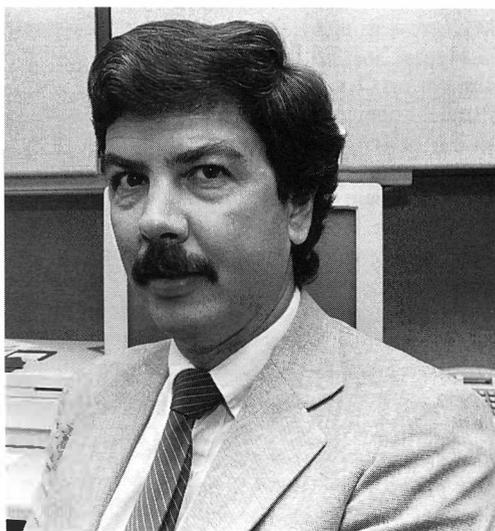
This year's program includes five modules, five forums, and four Science for All presentations covering a range of topics. They are designed to help staff stay current, sharpen skills, and interact to deal effectively with the changing world of science administration.

Module 1, "Bioethics: Hard Choices in a New Era" starts the anniversary year off on Dec. 9 and 10. Ethical issues affect NIH at every turn and decisions by individuals, scientists, health care providers, insurers, employers, and the government are becoming increasingly complex. Extramural staff interested in case studies as well as hearing from the experts in this area should apply.

Module 2, "What's Your Point?" will be offered on Jan. 14, 1993. If you have ever had

to make a presentation and struggled with visual aids, this course is for you. The module will offer guidance on developing an effective presentation using slides, overheads, graphics, charts, and other visual media.

Module 3, "The Health of the Universities - What's Up Doc?" is scheduled for Mar. 17 and 18. NIH's partners in research are facing many of the same challenges we are encountering in the 1990's as well as taking advantage of new opportunities. This module will provide a chance to hear what our academic colleagues have to say about changing funding sources, demographics, and priorities. Will the NIH-academia relationship of the past continue in the future? How does NIH affect these institutions? How are faculty and staff faring?



David W. Snight

These questions and more will be addressed by leaders of public and private research-oriented academic institutions, professional organizations, and senior NIH staff.

Module 4, "The NIH Maze: Your Fit in the Puzzle" continues STEP's commitment to meet the needs of extramural staff in grades 10 and below. Persons in technical, secretarial, clerical, program support and related extramural positions in those grades are encouraged to check this out. Senior NIH staff will provide an overview of NIH extramural functions and history. Personal views of extramural jobs and career opportunities will be explored with plenty of time for questions and comments from participants. This module will be held Apr. 14.

Module 5, "Changing Tomorrow Today: Rise and Shine" will be conducted on Apr. 28 and 29. The world and NIH are undergoing rapid and significant change. Middle and senior level NIH extramural managers are facing challenges never encountered by their predecessors. How are they doing? What can they do better? How can change be used to their advantage? A professional trainer will explore these and other issues with participants, using case studies and

role playing.

The popular Forum series, usually conducted in 2 or 3-hour afternoon sessions in Wilson Hall, offers several topics this year. One forum will explore the impact of changing technology on office dynamics; another the hiring challenges of the 1990's. A new STEP approach, the informal group discussion, will address rebuttal letters and codes that bar award. After a brief presentation on the subject by an expert, participants will form small discussion groups.

Finally, a forum in celebration of the 30th anniversary will be conducted on aging issues. Dates, times, faculty, and other details of the forums will be published here and promoted through flyers. No advance registration is needed.

This year's Science for All series, building on last year's programs on AIDS and hormone replacement therapy, will again address subjects of increased attention. Topics are Alzheimer's disease, tuberculosis, breast cancer, and prostate cancer.

The new STEP catalog is available in personnel offices, the STEP office (1/252), and the following locations: 31/1B44; 38A/604; EPN/505F; EPS/638; Federal/800A; Gateway/2N212; Solar/3A12; Westwood/648; and NIEHS/303A. □

Biostatistics Conference Planned

An NIH conference on the applications of statistics to biomedical research will be held in Lister Hill Auditorium, Bldg. 38A, on Jan. 25-26, 1993. The program will include a broad range of topics covering methodologic approaches to the diverse design and analysis issues encountered by NIH statisticians. Attendance will be limited by the capacity of the lecture hall (approximately 150). Preregistration is highly recommended. A banquet honoring those who introduced statistics to NIH will be held on the evening of the 25th. To receive further information and registration forms, contact: Biostatistics Conference, c/o CONWAL Inc., 520 N. Washington St., Suite 100, Falls Church, VA 22046, Attn: Dina Rice, (703) 536-3200. □

Female Volunteers Needed

The section on behavioral endocrinology, Biological Psychiatry Branch, NIMH, is currently seeking female volunteers between the ages of 18 and 45 to participate in a 5-month study investigating the effects of reproductive hormones on brain and behavior.

Volunteers must have regular menstrual cycles with no changes in mood in relationship to menses, be free of illnesses and not taking any hormones or medication on a regular basis. They will complete daily rating forms and will be asked to participate in one of several protocols. Payment will be in accordance with the duration of visit and protocol. For information call Dr. Peter Schmidt, 496-9675. □

Back to School: DCRT Computer Training for Fall

The new fall term of DCRT computer training gets under way this month with a packed schedule that promises to inform and enlighten course participants. All instructors are from DCRT unless otherwise noted.

Scientific Computing

Scientists and other members of the research community will find many of the classes useful for their research and for the computer applications in their laboratories. A series of SAS (statistical analysis system) classes is being offered starting with "Orientation to Running SAS on the Mainframe," on Sept. 16, and again on Oct. 26. Connectivity, interoperability, and distributed computing applied to flow cytometry will be the focus of a course led by Luther Barden on Oct. 8 and 9.

Classes on sequence analysis abound this term. On Oct. 14, Dr. Peter FitzGerald will discuss the potential impact to users of the introduction of a native Unix version of GCG, a sequence analysis package. Dr. Dale Graham will present a seminar for researchers who use the Macintosh for sequence analysis, "Using Computers to Find Possible Regulatory Elements," on Oct. 15. This seminar includes a demonstration and discussion of GCG programs on the Convex and personal computers. On Nov. 16-18, FitzGerald will present an introductory course, "GCG Sequence Analysis on the Convex."

On Oct. 22, Dr. Robert Pearlstein will present, "Introduction to Molecular Modeling," an overview of molecular modeling resources available at NIH. Although this seminar will not provide instruction in the use of specific software packages, it will describe and compare molecular modeling software for use on personal computers, Macintoshes, Unix workstations, and the Convex.

On Nov. 16, Jean Daugherty will provide an overview of the new Scientific Computing Resource Center (SCRC). A lecture describing the facility will be followed by a visit to the SCRC during which specialists will demonstrate some of the equipment available for NIH researchers to use.

On Nov. 19 and 20, Dr. Adrian Parsegian will lead a two-part seminar, "An Introduction to Practical Thermodynamics Useful to the Laboratory Biochemist." While the title may be daunting, Parsegian's informal approach to explaining the scientific principles underlying common laboratory reactions (e.g., solvation of proteins, allosterism, mechanisms of channel opening) is certain to make this useful to the majority of biochemists and many molecular biologists.

December brings a bonanza, with three new scientific seminars. For those who want to prepare schematic diagrams and other drawings to "polish up" output from graphing, statistics, sequence analysis, and other programs, Graham

will offer a seminar on Dec. 2. Dr. Ralph Nossal will present "Physical Models of Cell Locomotion" on Dec. 9. Richard Feldmann will show and discuss preliminary results of a new topological model of the relation between a protein and its solvent environment in his Dec. 11 seminar on prediction of protein folding, and Kenneth Kempner will present a seminar on IMACS (image management and communication systems) on Dec. 15. Laboratory analysis package (LAP) will be the subject of a seminar given by John Powell on Dec. 17.

Computer Technology

A number of new computer topics reflect recent trends in computing. For people who are interested in writing programs on the Macintosh using C, Pascal, Assembler, Fortran, or HyperCard, Ed Estes will be offering a seminar on Oct. 5. DCRT's Intel Highly Parallel Supercomputer will be featured in an all-day presentation, "Introduction to Parallel Computing," on Oct. 20 by Gary R. Withers and Stan Irwin of Intel Corporation and DCRT's Dr. Robert Martino.

For people who use personal computers for presentations, John White will give "Presentation Graphics Strategies Using Windows 3.1" on the morning of Oct. 27. That afternoon, Dr. John Fletcher and Richard Shrager will give a new seminar on mathematical modeling with MATLAB and MLAB.

Features of one local area network (LAN) mail system will be discussed in a new "Microsoft Mail" seminar by Susan Chaffee on Oct. 29.

In a Dec. 1 seminar, Tom Mason will describe the facility that allows NIH users to subscribe to LISTSERV mailing lists or to establish their own lists. LISTSERV mailing lists allow users to distribute information to subscribers across the country or around the world.

A number of other courses will be offered this fall:

- "ENTER MAIL" on Sept. 23 and Dec. 2,
- "BITNET" on Sept. 24 and Dec. 3,
- "Intermediate PC-DOS" on Oct. 1-2 and Dec. 10-11,
- "Introduction to ISPF/PDF" on Oct. 15,
- "Networks for the Scientific Community" on Nov. 2,
- "Using the Internet" on Nov. 3,
- "LAN Concepts" on Nov. 4,
- "Network Services" on Nov. 6,
- "NUnet, LAN, Mainframe Mail Connectivity" on Nov. 18,
- "Andrew File System" on Nov. 24, and
- "Technology for Connecting Networks at NIH-NIHnet" on Dec. 1.

Registration Information

The fall term includes more than 70 courses and seminars, and, as always, all classes in the

DCRT Computer Training Program are given without charge. To receive a published copy of the Computer Training Courses and Seminars catalog—with complete dates, times, and locations—visit the Technical Information Office in Bldg. 12A, Rm. 1015, or call 496-5431. For WYLBUR users, detailed class information is available online through WYLBUR's ENTER TRAINING command.

For assistance with registering, call the DCRT Training Program, 496-2339. To apply for any of the classes, complete the one-page nomination form at the back of the catalog and mail or fax it (402-0537) to the Technical Information Office. Forms may be duplicated, and those from earlier terms can still be used. For seminars, telephone registrations are also accepted; just call the DCRT Training Program.

Additional personal computing courses, offered by the NIH Training Center, are described in detail in the annual NIH Training Center Catalog and Calendar and in quarterly brochures published in August, December, March, and June. See your personnel or administrative office or call the NIH Training Center, 496-6211, for additional information. □

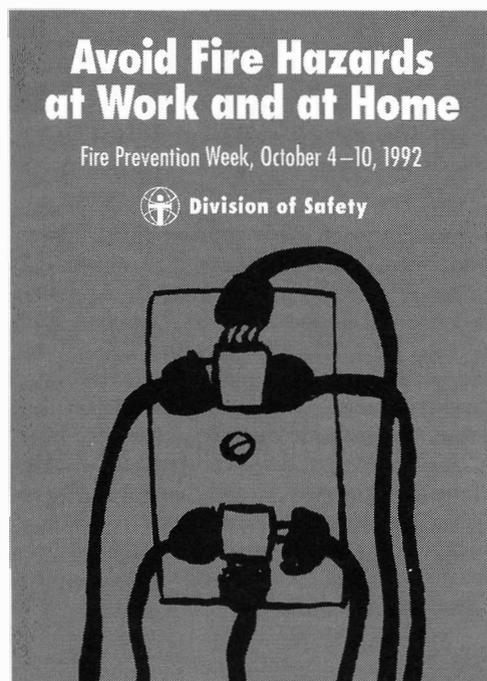


Christina Mangurian, a student working in NIDR's Laboratory of Developmental Biology, was selected to represent the state of Maryland in the U.S. Department of Energy Honors Program at Oak Ridge National Laboratory in Oak Ridge, Tenn. She spent 2 weeks this summer working with researchers in the Environmental Science Division at the Oak Ridge facility. Mangurian, a Westinghouse Talent Search semifinalist, received the honor for research she conducted with NIDR's Dr. Jeffrey Kopp on HIV-transgenic mice. The U.S. Navy recently honored her for the same work by choosing her as one of 25 students in the nation to visit laboratories at the naval base in San Diego. A 1992 graduate of Walt Whitman High School in Bethesda, she will attend Reed College in Portland, Ore., this fall.

Fire Prevention Week To Be Observed at NIH, Oct. 4-10

Fire Prevention Week, Oct. 4-10, commemorates the "Great Chicago Fire," which occurred in October 1871. In that tragic fire, more than 250 people lost their lives and property damage exceeded \$168 million. The technology and expertise of the firefighting profession has changed dramatically since that era; however, more than 5,000 Americans still die each year in fires, 80 percent of which occur in the home.

To observe Fire Prevention Week here at NIH, the Emergency Management Branch of the Division of Safety will provide information regarding fire safety at several locations around the reservation. Brochures relating to fire safety in the home, at work and when traveling will be available; video tapes will be shown; and various



types of fire protection equipment will be displayed. Knowledgeable staff will be present to answer any questions you may have. This is an excellent opportunity to learn more about the critical techniques and equipment which may save your life, the lives of your family and your coworkers and protect your valuable property from the ravages of fire.

Highlighted in the displays will be the presentation of a new video, "Evacuation-Your Safe Escape," which was produced this year by the Emergency Management Branch to enhance emergency evacuation techniques at NIH facilities. Proper procedures for assisting persons with disabilities are demonstrated in this film. A raffle will also be held on Friday afternoon in the ACRF Lobby with fire extinguishers, smoke detectors, and other home fire safety devices being given as prizes. Raffle tickets are available at the display each day. You do not have to be present at the drawing to win.

Displays will be at the following locations:

- Tuesday, Oct. 6, 10 a.m.-2 p.m.—Bldg. 35, Lobby;

- Wednesday, Oct. 7, 10 a.m.-2 p.m.—Bldg. 38A, Lobby;

- Thursday, Oct. 8, 10 a.m.-2 p.m.—Bldg. 31A, Lobby;

- Friday, Oct. 9, 10 a.m.-2 p.m.—Bldg. 10, ACRF Lobby; and 11 a.m.-1 p.m.—Bldg. 10, Outside the B1 Level Cafeteria (NIH Fire Department vehicles will be on display, weather permitting).

"Everyone should take advantage of the useful information and expertise available at these displays and meet the staff of the fire prevention and fire suppression components here on campus. The advice and guidance provided by the EMB staff can help make your home and workplace fire-safe," says Michael L. Spillane, deputy chief, EMB, and coordinator for this year's Fire Prevention Week activities. □

Brittle Bones Meeting, Sept. 23-25

Researchers from around the world will convene Sept. 23 through 25 at the Bethesda Marriott Hotel to discuss the research and treatment of osteogenesis imperfecta (OI), a genetic disorder in which affected individuals have brittle bones susceptible to fracture after even mild injuries.

The conference, called "Frontiers in Rehabilitation Medicine: Osteogenesis Imperfecta," will be held at 5151 Pooks Hill Rd. Sponsors of the conference are the National Center for Medical Rehabilitation Research of the National Institute of Child Health and Human Development (NICHD) and the National Institute of Arthritis and Musculoskeletal and Skin Diseases.

"The purpose of the meeting is to communicate the latest advances in basic research to clinicians and medical rehabilitation professionals and to stimulate new, interdisciplinary investigations that will lead to functional improvement of people with OI," said conference cochair Dr. Joan Marini, head of the section on connective tissue disorders of NICHD's Human Genetics Branch. The meeting will also be cochaired by Dr. Lynn Gerber, chief of the Department of Rehabilitation, NIH Clinical Center, and Dr. Peter Byers, professor of pathology at the University of Washington.

OI results from a defect in one of the genes that codes for type I collagen, the major structural protein of bone and skin. In addition to brittle, easily broken bones, OI patients may have growth deficiency, scoliosis (a curvature of the spine), bowed legs, heart abnormalities, hearing loss, and dislocated joints. OI patients may also bruise easily and sweat excessively. OI occurs in from 1 in 20,000 to 1 in 30,000 people.

Speakers will address such topics as the pathology and molecular biology of OI, its endocrinologic and neurologic complications, and its treatments.

Those wishing to attend should contact conference organizer Dr. Danuta Krotoski at 402-2242. □

Registration Deadline Nears for NIGMS Biomolecular Engineering Conference

As is the case in many fields of science, the division between biology and biochemical engineering is blurring, and at the intersection of these fields a new one is developing. The emerging field, known as biomolecular engineering, is characterized by the selection and study of model systems with obvious technological relevance, emphasis on molecular phenomena, synthesis of information from different disciplines, and quantitative analysis.

NIGMS will sponsor a meeting on Dec. 7 and 8 to highlight the scientific impact of biomolecular engineering, describe the research accomplishments and opportunities in this field, discuss its relevance to the NIH mission, and promote interaction between the biochemical engineering and biomedical research communities.

Entitled "Research Opportunities in Biomolecular Engineering: The Interface Between Chemical Engineering and Biology," the meeting is being held at the Omni Shoreham Hotel in Washington, D.C. Speakers will cover the following biological areas in which chemical engineers can make important contributions: the production of recombinant proteins, metabolic engineering, cell engineering, molecular bioseparations, and biocatalysis. The meeting will also feature approximately 40 invited poster presentations.

The conference is being cochaired by Dr. George Georgiou of the University of Texas, Austin, and Dr. Irene Glowinski of NIGMS. Session chairs include Drs. Jonathan King of MIT; James Swartz of Genentech, Inc.; Michael Shuler of Cornell University; Janet Westpheling of the University of Georgia; Douglas Lauffenburger of the University of Illinois; Patrick Aebischer of Brown University; Richard Wilson of the University of Houston; Richard Burgess of the University of Wisconsin; Robert M. Kelly of North Carolina State University; and George M. Whitesides of Harvard University.

To be placed on a mailing list to receive information about and registration materials for this meeting, call Nancy Gaskins of Social & Scientific Systems, (301) 986-4870, by Oct. 1. To learn more about the scientific content of the meeting, call Glowinski, (301) 496-7125. □

Chamber Players Concert, Sept. 24

The NIH Chamber Players will present guest artist Midge Carlton, flute, with Carl Banner, piano, in a program of flute and piano music on Thursday, Sept. 24, from 11:30 a.m. to 12:30 p.m. in the 14th floor assembly hall, Bldg. 10. The program will feature the new Petrotff grand piano recently acquired by the patient activities department, and will include sonatas of Bach, Poulenc, Faure, and Prokofiev. □

CONTE BLDG.
(Continued from Page 1)

1993, preceded by a dedication ceremony to take place Sept. 17 for the 8-story facility numbered Bldg. 49.

By late spring of 1993, employees from NICHD, NIMH, NINDS, NIAAA, NEI, NIDR and NIA will occupy the new building, hailing from space both on campus (primarily Bldgs. 6, 9, 10, 30, 36 and 37) and off (Park, Flow and DANAC Bldgs.)

Those workers, and NIH'ers who tour the facility during a month-long open house (Oct. 1-31, call 402-4061 to schedule a visit), will find an "intelligent" building that is essentially two buildings in one—an animal facility and a laboratory/office facility.

The building's intelligence, explains project officer Stephen Hagan, a DCB/DES architect, arises from the fact that it has been wired for virtually any combination of local area computer network (LAN) as well as telecommunications (phones, faxes and modems). Additional security measures (cardkey entrances, closed circuit television monitoring) add to an aura of high-technology.

A DCB/DES team whose key members included Hagan; Ernest Lunsford, assistant DCB chief; Cyrena Simons, science and design coordinator; and Frank Kutlak, architect, guided the structure to completion, incorporating elements they hope will lead to optimum science.

For instance, on the seven floors that include laboratory space (divisible into some 200 "modules"), there are two different kinds of corridors: the utility service and delivery corridors allow maintenance staff direct access to pipes and utilities and give researchers access to lab support rooms; there are also separate "people" corridors where scientists will pursue their labors unobstructed by freezers and file cabinets.

"There won't be any equipment in the people corridors, so veteran NIH scientists probably won't recognize it at first as lab space," jokes Kutlak. "This facility will be an upgrade in quality for everybody who occupies it."

The upper stories of the building are divided into zones, explains Hagan, who describes the facility in layers from front to back. At the front, facing south, are offices. The five upper floors include at their center a solarium/conference room offering views of south campus. Laboratories occupy the middle "slice" in the building. Centered in this lab section is a break room/interaction area with a kitchenette including refrigerator, microwave and vending machines.

The next zone features procedure rooms and the last zone is animal holding space.

Chief among the many unique features of the 250,000-square-foot facility is its adherence to standards set by the American Association for the Accreditation of Laboratory Animal Care (AAALAC).

The animal part of the building includes such

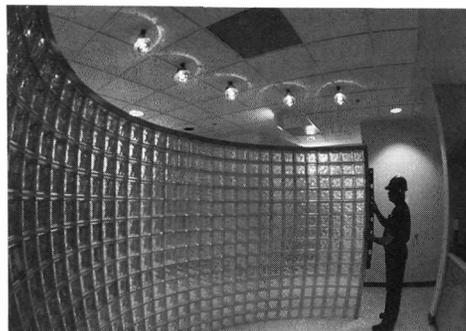


DES carpenter Bill Farrell works in one of the conference areasolaria that grace the front of Bldg. 49. Out the window is the excavation for Bldg. 29B, a construction crane, and Bldg. 36.

features as epoxy wall and floor coverings, for easy cleaning and maintenance, and a special ventilation system. Metal rails buffer walls and corners from collisions with cages and carts. Animal elevators are segregated according to whether they are clean or dirty. A large cagewashing facility in the basement can accommodate both large and small animal cages.

Other special features of the building are: a 4-story staircase atrium that building designers created as an "interaction" space as scientists walk from floor to floor; and conference space on the first floor that can be subdivided into two rooms seating some 100-120 people, with projection screens and TV monitors provided in each half. The building will also host a small-scale art program "similar to the program in the Clinical Center," Kutlak said. General art will be shown in the public parts of the building; the lab section will host chiefly science-related posters, he said. Also of interest are large, pendant lamps at the front of the building, a sign on the building's west side designating it

Photos: Bill Branson



Farrell puts a level to the edge of a glass partition that shields the break area from laboratory space. The semicircular enclosure allows a measure of privacy to workers using the kitchenette.

the Silvio O. Conte Building, and, perhaps in the future, a clock in the archway of the building's top-floor pediment.

A design and construction oversight committee consisting of representatives from the user institutes has worked closely with DES staff to determine occupancy schedules and amenities. Hagan attributes a good deal of the project's success to management guidance provided by Dr. Richard Wyatt (program manager) and Dr. Cherie Fisk (program project manager), who are members of that oversight committee. The oversight committee was originally chaired by the late Dr. Ernst Freese, NINDS, and is now chaired by Dr. Arthur Levine, NICHD



The solaria on the south side of Bldg. 49 offer refreshing views of south campus as well as meeting space for institute personnel.



DES workers Brad Brown (l) and Bill Strine walk in the 4-story staircase atrium, which offers views of Bldg. 10 and the north side of campus.

scientific director.

There is also a lab users' group, an animal users' group, an NICHD-led lab management group and an NEI-led central animal facility group to help manage the complex.

Hagan also said, "DES's maintenance staff has been pivotal in bringing the project online. Pete Sweeney, the Conte Bldg. engineer, Jim O'Shea and Art Bonnet provided support and guidance throughout the crucial commissioning phase of the project. From the Division of Procurement, Millicent Warford, John Carr and John Foley also made a tremendous effort in executing our contracts."

Kutlak says a large computer database contains all room, equipment and furniture

assignments throughout the building. Final interior construction of the Conte Bldg. was completed one floor at a time, and phased occupancy will follow the same schedule, said Hagan. "Generally, institutes are arranged by floor," Kutlak added. The top two floors house NICHD programs, NIAAA is on floor 4 and shares floor 3 with NINDS and NIA; NINDS and NEI share floor 2, and NIMH shares the first floor with NIDR; NIMH is sole occupant of the B1 level.

Parking needs for 49 will be answered by a sister project to the Conte Bldg.—multi-level parking facility 8, which will be located just south of 49 and should be complete by next summer.



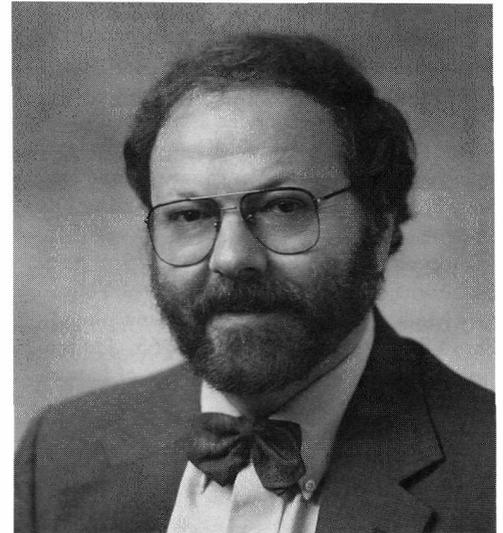
Brown and Strine of DES make sure the 49 maintenance corridors are properly fitted out. Pipes at right bring water and lab gases to each floor, and are easily maintained.

DCRT Lecture Explores Computer Emulation of Mental Functions

The Laboratory of Statistical and Mathematical Methodology, DCRT, will sponsor a lecture titled "The Promise of Neural Networks in Emulating Mental Function." Prof. Daniel S. Levine of the mathematics department at the University of Texas, Arlington, will speak in Wilson Hall, Bldg. 1, 2:30-4 p.m. on Friday, Sept. 18.

Artificial neural networks are used to compute results by training and adapting a computer system until it responds correctly to numerous examples. Different applications, such as pattern classification, robotic control, and knowledge representation, involve different types of networks, but all may use similar types of modular organization. The computer system architectures are loosely modeled on biological neural networks. A substantial part of current artificial neural network research is directed toward increased understanding of mental and neurological functions in animals and humans.

Reservations are not necessary to attend the lecture. For more information, call 496-6039. □



NIA acting director Dr. Gene D. Cohen has just won a National Association of Government Communicators Blue Pencil Award for his feature article, "The Famous Case from London, December, 1843—The Rest of the Story." It was published at Christmas in the St. Louis Post-Dispatch as "Depression Is a Dickens of a Problem," an apt title for a piece that makes the case for Scrooge as a depressed old person who undergoes some dreamwork and emerges happy again. Cohen is a geropsychiatrist who, in addition to NIA duties, has for 20 years volunteered his time each week as a primary care physician for patients at Regency House, a senior citizen residence in Washington, D.C. He is also editor-in-chief of a new journal, the American Journal of Geriatric Psychiatry, which debuts in December. His editorial for the inaugural issue will reportedly discuss the modern-day diagnosis of depression and the Famous Case from London, December 1843.

NCCR's Whitney Named Deputy Surgeon General

Surgeon General Antonia C. Novello has announced the appointment of Dr. Robert A. Whitney, Jr., as deputy surgeon general, effective Sept. 1. Whitney was the first director of the National Center for Research Resources, formed early in 1990 by a merger of the NIH Division of Research Resources (DRR) and Division of Research Services (DRS). He had directed DRS since 1984 and became acting director of DRR in late 1988.

During the same period, Whitney also served as director of the NIH Office of Animal Care and Use, established in 1987, and chaired the PHS interagency research animal committee, the focal point for federal agencies' discussion of issues involving animals needed for research and testing, especially their care, use, and conservation.

He is an assistant surgeon general in the PHS Commissioned Corps and served as the corps' chief veterinary officer 1984-1989.

Whitney transferred to the corps and NIH in 1971 from the U.S. Army Veterinary Corps, where he had directed its postdoctoral training program in laboratory animal medicine and served as a consultant to the Army Surgeon General on that specialty. He commanded a veterinary medical detachment in South Vietnam during 1970-71.

At NIH, after brief service as a special projects officer in the DRR Animal Resources Program, he became chief of the Veterinary Resources Branch, DRS, and served until becoming DRS director.

Whitney received his D.V.M. in 1959 from Oklahoma State University School of Veterinary Medicine and his M.S. (pharmacology) from Ohio State University in 1965. He is a diplomate of the American College of Labora-



Dr. Robert A. Whitney, Jr.

tory Animal Medicine and is currently its president.

He has also served as president of the American Association of Laboratory Animal Science, chairman of the board of directors of the Commissioned Officers Association, member of the House of Delegates of the American Veterinary Medical Association, and president of the District of Columbia Veterinary Medical Association.

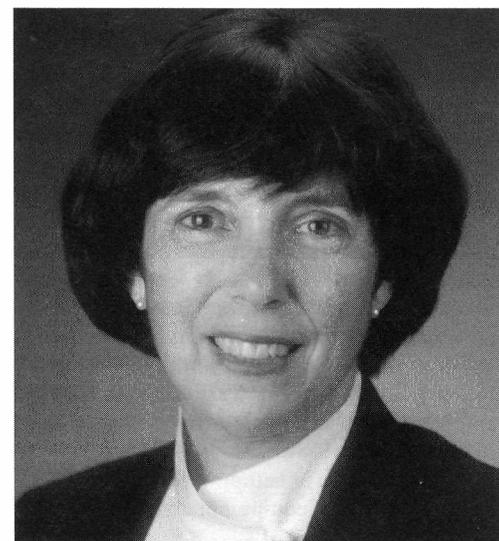
Whitney's many honors include the PHS Surgeon General's Exemplary Service Medal, the Department of the Army Legion of Merit, Distinguished Alumnus Awards from Oklahoma State University School of Veterinary Medicine and Ohio State University College of Veterinary Medicine, the Charles River Prize of the American Veterinary Medical Association, and the Karl F. Meyer Award of the American Veterinary Epidemiology Society. □

Mylander Named Public Affairs Chief

Maureen Mylander has been appointed public affairs officer and director of the Office of Science and Health Reports at the National Center for Research Resources. She will direct a comprehensive public affairs program designed to acquaint general and scientific audiences with the activities and accomplishments of NCCR.

Mylander formerly served as a writer-editor in the NIH Office of Communications. There she specialized in health communications planning, publication production, and communicating health information to consumers. Among other projects, she initiated *NIH Healthline*, a consumer health information service for mass circulation magazines and newspapers that reaches millions of readers nationwide.

Mylander has devoted her career to writing about health for the layperson. Prior to coming to NIH in 1978, she was ghostwriter for the late Dr. Michael Halberstam's health advice columns for the *New York Times* Special



Maureen Mylander

Features Syndicate. She has written scores of health articles for national magazines and is author of five books, including *The Healthy Male: A Comprehensive Health Guide for Men (And the Women Who Care About Them)* and *The Great American Stomach Book*.

Her latest book, coauthored with Dr. Patch Adams, who founded the *Gesundheit* Institute, is about a health care community designed as a model for healing the U.S. health care system. *Gesundheit!* is scheduled for publication this fall.

Mylander has won many awards for her writing, and in 1990 received the Toastmasters International Communication Achievement Award from the NIH Toastmasters Club. □

Judo Club Resumes Classes

The NIH Judo Club will hold its fall beginners classes on Tuesday and Thursday evenings from 6:15 to 7:30 starting Tuesday, Sept. 29 at the Malone Judo Center, Bldg. 31. The cost for 8 weeks is \$35. For further information, contact Stephanie Harrison, 496-9490. □



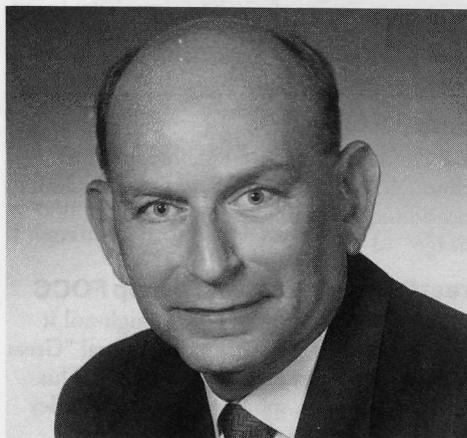
NIAID director Dr. Anthony S. Fauci (c) recently honored nine employees with NIH Merit Awards to recognize their leadership, competence and creativity. The recipients are (from l, seated) Peter Gilbert and Dr. Phillip Murphy. Standing are (front, from l) Genevieve Daggett and Lai Tan. At rear are (from l) Claire W. Hannahan, Rosemary McCabe-Hamil, Michael Crumly, Dr. Guido Poli and Dr. Susana Serrate-Sztejn.

Siegel Heads New NLM Office

Dr. Elliot R. Siegel has been named NLM associate director for health information programs development.

The newly created Office of Health Information Programs Development, located within the Office of the Director, contains three units: the Office of Outreach Development, the Office of Planning and Analysis, and the Office of International Programs. Siegel and his staff will bring together representatives of various Library programs—each of whom may be concerned with a different aspect of an information product, service, or emerging technology—so that all can work more effectively toward common NLM goals.

Examples of current activities falling under the scope of the new office include outreach programs targeted towards the needs of health professionals serving rural and inner city



Dr. Elliot R. Siegel

populations; long-range planning related to toxicological and environmental health information dissemination; and programs aimed at expanding the use of NLM services in other countries (as well as enlarging the extent to which international contributions are incorporated into the library's collections and databases).

Siegel received his B.A. in psychology in 1964 from Brooklyn College, CUNY; his M.A. in psychology from Michigan State University in 1966, and his Ph.D. in communication in 1969 (also from Michigan State). He began his career at NIH in 1976 as a research scientist with NLM's Lister Hill Center, where he coordinated the development of the hepatitis database, an early example of electronic knowledge-based information systems for physicians. In 1982 he was appointed special assistant for operations research, where he designed and implemented evaluation studies of new technologies and library systems. In 1987, Siegel became NLM assistant director for planning and evaluation, and managed the completion of NLM's first long-range plan. □

Class on Fundamentals of Extramural NIH Offered

The Office of Health Scientist Administrator Development Programs (HSADP) will be presenting an NIH orientation course titled "Fundamentals of NIH Extramural Activities" on Jan. 4-5, 1993, in Bldg. 1, Wilson Hall. The course starts at 8:30 a.m. Jan. 4 and concludes at 5 p.m. on Jan. 5, with registration at 8 a.m. each day.

The course will include an overview of the types of award mechanisms, the grant referral and review processes, program administration, and the fiscal management of grants.

The number of participants will be limited to approximately 60 people. Priority will be given to program and review staff at all grade levels who are new (6-12 months) to extramural NIH.

Course applicants (including those who are PHS Commissioned Officers) are to submit an HHS-350 form (Training, Nomination and Authorization) through appropriate ICD channels to the HSA Development Programs Office (Bldg. 31, Rm. 5B35). In item 10, please list your complete office address, not your home address; item 14 - "no cost"; item 18, Send Vendor's Copy to: HSA Development Programs Office, Bldg. 31, Rm. 5B35; item 20 A - "8", B - "8", C - "1", D - "N/A"; be specific in items 16 and 17 and indicate how long you have been in the NIH extramural area; item 21 - "N/A" and item 22 - "9998". All other instructions are on the back of HHS-350.e

To be considered, applications must be received in the HSADP office no later than close of business, Nov. 20. Submitting an application to personnel, no matter how early, does not assure its reaching the HSADP office. It is the applicant's responsibility to see that the

HSADP office receives the vendor's copy of the application by the deadline date. Applications received after the deadline will be returned without further consideration. Each applicant will be informed of the decision concerning his/her application. No one will be admitted to the course without the memo of selection signed by the codirectors.

Questions about this course may be directed to Susan O'Brien, 496-1736. □



Dr. Judah Folkman (r), chairman of DRG's pathology A study section and professor of anatomy and cellular biology at Harvard Medical School, receives the Christopher Columbus Discovery Award for Excellence in Biomedical Research from Dr. Louis W. Sullivan, HHS secretary. Folkman received five awards in 1992: the 3M Life Sciences Award, Federation of American Societies for Experimental Biology; the Wolf Foundation Prize in Medicine, Israel; the Distinguished Lifetime Achievement Award, World Congress on Cell and Tissue Culture; and the Mike Hogg Award, University of Texas, M.D. Anderson Cancer Center; and the Discovery Award.

Medicine for the Public Lecture Series Begins in October

Ovarian cancer, cystic fibrosis, and Gaucher disease are just a few of the issues that will be covered in the 1992 Medicine for the Public lecture series sponsored by the Clinical Center. The lectures, which are free and open to the public, are held on Tuesdays at 7 p.m. in Masur Auditorium.

The lecture series, now in its 16th year, opens on Oct. 13 with a look at "Ovarian Cancer: Current Treatment Options." Dr. Eddie Reed, head of the medical ovarian section of NCI's Medicine Branch, will discuss the incidence of this disease and its various stages, as well as how it is diagnosed and treated, including surgery and the new drug taxol.

On Oct. 20, Dr. Florence Haseltine, director of the Center for Population Research, NICHD, will review the latest research on "Menopause."

On Oct. 27, Dr. Basil Rifkind will discuss "Toward a Healthy Heart: A Cholesterol Update." Rifkind is chief of the Lipid Metabolism-Atherogenesis Branch, Division of Heart

and Vascular Diseases, NHLBI.

On Nov. 10, Dr. Sten Vermund, chief of NIAID's Vaccine Trials and Epidemiology Branch, talks about "Sexual Transmission of AIDS: Are You at Risk?" He will give an overview of the AIDS/HIV epidemic and the methods of transmission, including heterosexual contact.

On Nov. 17, Dr. Ronald Crystal will discuss the promising new areas of research in treating "Cystic Fibrosis," a fatal, inherited lung disease. Crystal, chief of NHLBI's Pulmonary Branch, led a team of researchers who investigated the use of a genetically engineered drug to control cystic fibrosis.

The 1992 series closes on Nov. 24 with Dr. Norman Barton, chief of the clinical investigations section, Developmental and Metabolic Neurology Branch, NINDS, discussing "Gaucher Disease: Restoring Health with Enzyme Replacement."

For more information on specific topics or speakers, call 496-2563.

NIAMS Employees Honored at Annual Awards Ceremony

Dr. Lawrence E. Shulman, NIAMS director, hosted the annual awards ceremony of the National Institute of Arthritis and Musculoskeletal and Skin Diseases recently. Among the employees honored were the following:

PHS Recognition Award

Dr. Stephen L. Gordon
Chief, Musculoskeletal Diseases Branch
For outstanding service on an ad hoc fluoride committee for the Public Health Service.

NIH Director's Award

Carolyn G. McHale
Chief, Scientific Information and Data Systems Branch
For extraordinary skill, leadership, and dedication in establishing comprehensive, high-quality data management systems for both the NIAMS and the NIH.

NIH Merit Award

Dr. Julia B. Freeman
Centers Program Director and Director for Research on Women's and Minorities' Health
For extraordinary resourcefulness and creativity in developing NIAMS initiatives for minorities and women.

Professor, Associate Dean, Attorney Join National Institute of Dental Research Advisory Council

Three new members have been named to the National Advisory Dental Research Council: Dr. Carl W. Fairhurst and Dr. Joseph L. Henry, both of whom joined the council last December, and Timothy W. Wright III, who began his term in June.

Fairhurst is the regents' professor and coordinator of dental materials at the Medical College of Georgia School of Dentistry. He joined the college in 1973, after 6 years in the dental industry and 17 years with Marquette University School of Dentistry.

Henry is an associate dean for government



Dr. Lawrence E. Shulman, NIAMS director, presents the Equal Opportunity Special Achievement Award to Nancy S. Middendorf.

Marsha G. Hennings
Administrative Officer, Intramural Research Program
For meritorious achievement in establishing the administrative infrastructure of the Intramural Research Program of the NIAMS.

Dr. Peter M. Steinert
Chief, Laboratory of Skin Biology
For establishing a highly productive research program in skin biology within the NIAMS.

Diane M. Watson
Grants Management Officer, Extramural Program
For exemplary leadership in representing the NIH and the NIAMS Grant Management Policies to the government and to the community at large.

Equal Employment Opportunity Special Achievement Award

Nancy S. Middendorf
Secretary to the Deputy Director
For her consistently high level of sensitivity to employees with special needs through counseling, careful instruction, guidance, and demonstration.

In addition to these awards, NIAMS employees were presented with quality step increases, individual and group cash awards, employee-of-the-month awards, and length-of-service awards. NIAMS keyworkers for the Combined Federal Campaign were also recognized, as were canvassers for the Savings Bond Campaign. □

and community affairs and chairman of the department of oral diagnosis and oral radiology, Harvard School of Dental Medicine. He has combined a career of dental research with a commitment to recruiting minorities to the dental profession. Before joining Harvard in 1975, he was dean of the Howard University College of Dentistry in Washington.

Wright is an attorney with Sachnoff & Weaver, Ltd., in Chicago, who specializes in major real estate development and corporate and governmental affairs. A subspecialty of his practice is the representation of several profes-

sional dental corporations. Before joining Sachnoff & Weaver, Wright was commissioner of economic development for the city of Chicago. □

'Great Pumpkin Chase' To Help FOCC

Get out your running shoes and high-tail it over to parking lot 41 for the first annual "Great Pumpkin Chase" on Saturday, Oct. 31. This 5K Halloween Run, sponsored by the Whitley Park Condominiums and Townhouses in Bethesda, will benefit the Friends of the Clinical Center (FOCC), a charitable organization that provides emergency financial aid to NIH patients and families.

The run will begin at 9 a.m. in parking lot 41 (behind NLM), extend through the NIH campus, and finish back at lot 41. Prizes will be awarded in several categories according to age and gender. Team categories have been set up for a four-man team and a four-woman team from each institute. For information on entering a team, call Dr. John Klippel, 496-3374, or Joan Mallin, 496-9490.

The preregistration entry fee is \$12 for individual runners and \$48 per team. Preregistered runners may pick up their race packets, including t-shirts and number bibs, in Bldg. 10, Rm. 1C119 between 9 a.m. and 2 p.m., Oct. 27-29. For those who register on site, the entry fee is \$15 for individual runners and \$60 for team. Registration will begin at 8 a.m. on Oct. 31. For more information on registration, call Joan Clower, 402-0193.

FOCC is also looking for volunteers to help with setup and cleanup, monitor participants, and serve refreshments. Anyone interested in volunteering should call Andrea Rander, 496-1807. □



New members of the National Advisory Dental Research Council pose with NIDR director Dr. Harald Loe (third from l). They are (from l) Dr. Carl W. Fairhurst, Dr. Joseph L. Henry, and Timothy W. Wright III.

Satellite Parking and Shuttles Offered During Construction

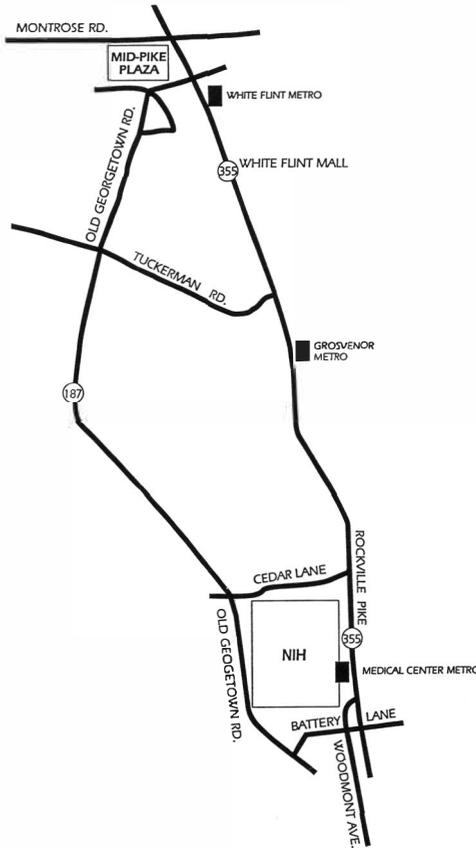
By Carla Garnett

Beginning Oct. 1, parking on campus will undergo a few dramatic changes due to construction of phase I of the Natcher Bldg. on the southeast corner of NIH's property. Phase I will include a 1,000-seat auditorium, a nine-room conference center, and 450 underground and 35 surface parking slots.

Parking lots 16D, E, F and G, adjacent to Stone House and the Metro station, are scheduled to be closed by the first of October. Lot 16C was closed last Tuesday to make ready for NIH's Open House. In total, an estimated 700 parking spaces will be eliminated by the construction scheduled to begin Oct. 1; a formal groundbreaking ceremony for the building was held last Friday, Sept. 11.

The NIH Employee Transportation Services Office in the Division of Security Operations has arranged for three satellite and overflow parking facilities to be available for the anticipated overflow. The two overflow lots—one north of campus at Mid-Pike Plaza (Montrose Rd. and Rockville Pk.) and one south in downtown Bethesda at Bethesda Ave. and Arlington Rd.—will provide about 650 spaces.

The third parking area, a satellite lot at Shady Grove Metro Station, will be operated in conjunction with the NIH TRANSHARE Program. TRANSHARE is a supplemented,



During campus construction, employees will have access to the Mid-Pike Plaza parking lot.

public transportation program for government employees; participants are required to exchange their NIH parking stickers and hangers for special Shady Grove parking permits.

For NIH'ers who use the overflow lots, two new, nonstop shuttle bus routes will be added for transportation between the lots and buildings 10, 31A and 38A on campus. The shuttle will run every 10-15 minutes during the a.m. and p.m. rush periods and every 20 minutes during nonrush hours. Service will be provided weekdays from 7:30 a.m. to 7 p.m.

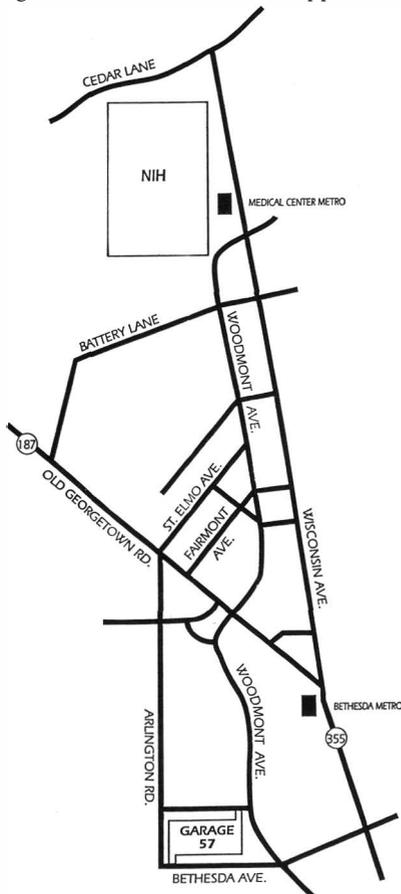
"Through the transportation management plan supported by the National Capital Planning Council and the Maryland National Capital Park and Planning Commission, NIH has agreed to maintain the half parking space per employee ratio," said O. W. Sweat, DSO director, explaining why, contrary to suggestions from many employees, NIH cannot designate any more on-campus parking.

"Actually," he continued, "Montgomery County officials would prefer 0.4 space per employee, but we have agreed not to exceed the 0.5 ratio."

Sweat also pointed out that NIH is much more fortunate than other government agencies, which have an average of one slot for every 18 workers. For example, he said, the Justice Department has a ratio of one parking space for every 45 employees.

"The answer in easing parking at NIH," Sweat concluded, "is for employees to utilize the Employee Transportation Services Office here, which has an extensive database for carpools, vanpools and public transportation in the metropolitan area."

For more information about TRANSHARE, the Ridefinders Network, or about the availability of satellite and overflow parking, call ETSO, 402-RIDE. For more information on Natcher Bldg. construction, call the Division of Engineering Services project officer, 496-2344. □



Garage 57, in downtown Bethesda, is one of two facilities that will provide overflow parking slots for NIH'ers during Natcher Bldg. Construction.



The National Institute of General Medical Sciences recently held its annual awards ceremony honoring NIGMS employees for their outstanding contributions to the institute throughout the year. Pictured (from l) are Thomas Boyce, Information Resources Management; Rossie Fitzgerald, Grants Operations; Martha Shanahan, Grants Management; and Dr. Ruth L. Kirschstein, NIGMS director. Boyce, Fitzgerald, and Shanahan received the NIH Award of Merit, the highest award given by an ICD director.

Training Center Delivers Diversity for 1993

The last *NIH Record* presented information about the diversity of training programs and services available to managers and their employees from the NIH Training Center. Highlights of offerings are described below.

Administrative Systems—Look for the new, hands-on “Introduction to NIH Property Management” course, designed to give NIH personnel engaged in property management functions good working knowledge of NIH property management policies and procedures.

A Foreign Travel course follows the model of Domestic Travel training and offers both lecture and hands-on instruction on entering foreign travel orders and vouchers through the administrative database.

Office Operations—Need to update your basic math skills? “Refreshing Basic Math Skills” is a new, 1-day course designed to make everyday math easy and practical. Employees will develop interpersonal skills by taking “Thriving in Place/Striving for More” (a former STEP module), which features on-the-job situations for working together in teams and networking.

Supervisory and Management Development—NIH supervisors and managers now have access to a full program of courses in managing employee performance, communicating effectively, and planning and managing resources. New courses include “Time and Attendance for Leave-Approving Officials,” “Performance Appraisal Workshop,” “Interviewing Skills for Supervisors,” “Establishing Meaningful Performance Standards,” and “Sexual Harassment in the Workplace.”

Consult the catalog for the new Middle Management Development Program overview, which describes an expanded core course (developed from an NIH Training Center study of key NIH managerial competencies) and other significant courses in this curriculum. Also outlined are consulting services including program development and the facilitation of ICD decisionmaking, team development, and total quality programs that can be conducted off-site or in the workplace.

Personal Computing and Networking—In FY 1993, the NIH Training Center, in cooperation with the Personal Computing Branch, DCRT, will offer upgraded versions of some of your favorite database, spreadsheet, and word processing application courses for PC and Macintosh computers. In addition, the Training Center will offer training on new software packages such as KaleidaGraph and Quark Express for the Mac and New Windows applications including WordPerfect, Excel, and Pagemaker. A course on PC/GENE, a software application package used by research scientists, is scheduled for February 1993. Look for details in the second quarter personal computing brochure.

An MS Mail networking course is currently

being developed. Look for flyers advertising this new course during the first quarter.

The NIH Training Center and the Personal Computing Branch are also collaborating to open a second User Resource Center located at Executive Plaza South. Look for the grand opening early in 1993.

Career Development—The popular series of five Career Planning Workshops, launched in FY 1992, will continue in the second and third quarters of FY 1993. Topics include: “Career Assessment and Planning,” “NIH Careers - Finding the Best One for You,” “NIH SF-171 and KSA’s Preparation,” “Networking and Interviewing Skills,” and “Projecting a Professional Image.”

The NIH STRIDE Program which prepares selected participants with on-the-job and academic training, will be announced in February 1993. Later on, in May, the Career Curricula program will be announced. The Training and Development Services Program, which assists NIH employees in nonprofessional series to prepare for advancement in their current positions, is an ongoing career development service.

Look for the NIH Management Intern and the OPM Presidential Management Intern Program announcements early in 1993. Both programs provide opportunities for outstanding individuals to begin careers leading to responsible management positions at NIH. Note: All of the Career Development Programs are described in detail in the FY 1993 catalog.

Scientific and Medical—Courses offered in this category include: “Using Animals in Intramural Research: Guidelines for Investigators,” “Hands-On Animal Workshop: Rodent Techniques,” “How to Write and Publish Scientific Papers,” “Scientific and Medical Editing,” the “Medical Terminology” series, and “Ethical Issues in Managing Research.”

Special Interest—The NIH Training Center is pleased to offer a variety of special interest courses including “Appropriation Law Seminar,” “American Sign Language,” “Break the Smoking Habit,” “For the Culturally Diverse Workforce: Speaking Effective English,” and “Mid-Career Financial Planning.” Employees who anticipate retiring in the next 3 years should enroll in the “Retirement Planning Seminar.”

Custom Tailoring—Keep in mind that custom-tailored training can readily be arranged to meet specific ICD needs. For example, the center can custom-design courses such as “Proofreading Techniques” and “Writing Fundamentals” for support staff, in addition to new and traditional topics in management, supervision, and personal computing.

For more information, consult the FY 1993 catalog and first quarter brochures or call the NIH Training Center, 496-6211. □

NIDR’s William Driscoll Retires

Dr. William Driscoll retired recently after 30 years in the Public Health Service—the last 21 of them at the National Institute of Dental Research. He most recently served as chief of the disease prevention section in the institute’s Epidemiology and Oral Disease Prevention Program.

During his PHS career, Driscoll became an international expert on the epidemiology of dental caries (tooth decay), the relationship between fluoride and caries prevention, and methods for delivering fluoride and measuring its efficacy. He wrote numerous articles and



Dr. William Driscoll

position papers that were instrumental in the development of policy for the use of dietary fluoride supplements.

Driscoll says he feels fortunate to have been involved in every aspect of research, from conception and design of study protocols to analysis of the results. From the mid-1960’s to the mid-1980’s, he directed a series of studies that looked at different approaches for delivering fluoride to young children in nonfluoridated communities—the group most vulnerable to tooth decay. He found that the combined use of fluoride mouth rinses and tablets in a classroom setting under teacher supervision was a highly effective preventive regimen.

Although Driscoll says he will miss the excitement of NIDR research, he plans to continue his involvement in oral health research through consulting work. He leaves the institute with a feeling of accomplishment, ready now to spend more time on his off-duty passion, driving high-performance sports cars.

Driscoll raced a Datsun 280Z from 1975 to 1984, winning several local and regional championships. He now owns a 1972 Pantera and a 1985 Corvette that he drives in high speed track events. And while some collectible-car owners rarely drive their cars, trying to keep them as close to showroom condition as possible, Driscoll says his idea of heaven is to hop into his yellow Pantera and cruise a country road on a summer day—an avocation he will pursue with relish.—Peggy Buckler □

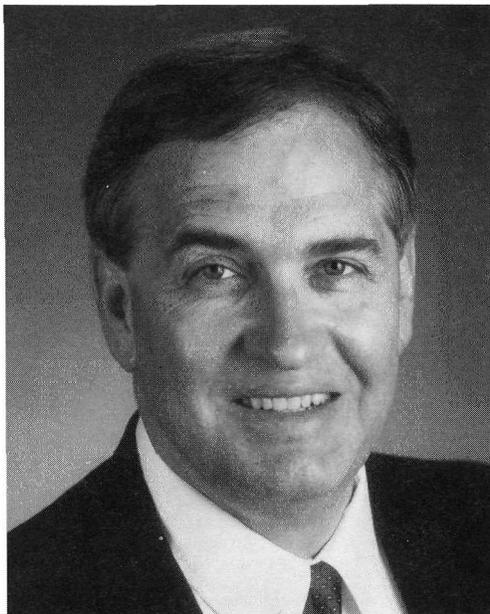
TRAINING TIPS

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

<i>Courses and Programs</i>	<i>Starting Dates</i>
<i>Management and Supervisory 4966371</i>	
Efficient Reading for Professionals	10/13
Using Animals in Intramural Research: Guidelines for Investigators	10/22
Voice for Success: Power Communication	10/26
Effective Presentation Skills	10/26
For the Culturally Diverse Workforce: Speaking Effective English (Basic)	10/27
For the Culturally Diverse Workforce: Speaking Effective English (Advanced)	10/27
Time / Attendance for Leave Approving Officials	10/28
How to Write and Publish Scientific Papers	10/29
Working With Personal Differences: MBTI: I for Managers	11/2
<i>Office Operations and Administrative Systems Training 496-6211</i>	
Basic Time and Attendance	10/22
Domestic Travel	10/26-10/29
Property Management Information System	10/30
Delegated Acquisition Training Program	10/2
Working With Personal Differences: MBTI: I for Technical and Support Staff	11/9
Federal Supply Schedule	11/18
<i>Special Courses 4966211</i>	
Medical Terminology I	11/2
Retirement Planning	12/7

Howard J. Hoffman To Direct NIDCD Branch

Howard J. Hoffman recently joined the NIDCD staff as chief of the Epidemiology, Statistics and Data System Branch. He received his bachelor of science in statistics from Stanford University in 1966. In 1968, he received his master's of arts in statistics from



Howard J. Hoffman

Princeton University. In 1970, Hoffman joined the Biometry Branch of the Epidemiology and Biometry Research Program, NICHD, as a

mathematical statistician. He became chief of the Biometry Branch in 1981 and in 1989 became special assistant for infant mortality research in the Division of Epidemiology, Statistics and Prevention Research.

Hoffman has received many honors and awards throughout his career, including the PHS Special Recognition Award. He also has published nearly 100 articles, chapters and books. His principal research interest has concerned disorders of childhood, particularly sudden infant death syndrome.

The Epidemiology, Statistics and Data System Branch was recently established within the Office of the Director, NIDCD, to conduct epidemiologic studies relating to deafness and other communication disorders, including hearing, balance, smell, taste, voice, speech and language. □

Nonsmoking Females Sought

The Uniformed Services University of the Health Sciences' department of medical psychology is seeking healthy, nonsmoking females ages 18-45 to participate in a women's health study. Participants will receive \$200 for completion of three or four laboratory sessions, scheduled 7 a.m. to noon, during which blood samples will be taken. If interested, call (301) 295-3263 for more information. □

Female Volunteers Needed

Women, ages 18 through 39, who have regular menstrual cycles and are on no medications are needed to participate in a control group for an NICHD research protocol. This will involve one clinic visit, phlebotomy and pelvic ultrasound. Those interested should call 496-4244. □

DCRT Computer Training Classes

<i>Classes</i>	<i>Dates</i>
Orientation to Running SAS on the Mainframe	9/16
SAS Fundamentals I for Programmers	9/17, 9/18
SAS Fundamentals I for Nonprogrammers	9/21, 9/22
PC Viruses	9/23
Macintosh Viruses	9/23
ENTER MAIL	9/23
BITNET	9/24
SAS Fundamentals II for Programmers	9/24, 9/25
SAS Fundamentals II for Nonprogrammers	9/29, 9/30
Managing Data Effectively	9/30
Intermediate PC-DOS	10/1-10/2
Developing In-House Applications on the Mac	10/5
Beyond Basic WYLBUR	10/5-10/9
Analysis of Ligand Binding Data Using LIGAND Program	10/6
OS/2 2.0 Overview	10/7
Topics in Flow Cytometry	10/8-10/9

Classes are offered by the DCRT Training Program without charge. Call 496-2339 for more information. □

NIAID's Joyce Woodford Honored by AGA

Joyce H. Woodford, deputy chief of the Financial Management and Information Systems Branch, NIAID, received the National Chapter Service Award from the Association of Government Accountants (AGA), a national professional group for government financial managers.

The AGA recognized Woodford for her influential work toward improving and developing the Montgomery-Prince George's chapter of the organization. The association's 90 chapters submit nominations for this award, which they presented at their recent annual training conference.

"It's a real honor to have been selected," said Woodford. "When your chapter nominates you, you do feel like you must have made a significant difference in expanding the organization's scope."

A member of AGA since 1979 and a former chapter president, Woodford has a long record of contributions toward the association. Her ideas have helped promote education, as she reconstructed and reactivated the AGA's scholarship program and initiated the Future Accountants Program. She also was the only chapter president to offer her members three annual educational workshops.



Joyce H. Woodford

Woodford has brought this concern for education to NIH by organizing *Minorities and Biomedical Research*, an NIAID publication that identifies the institute's programs helping minorities within the United States.

She continues to serve as budget officer for NIAID and as vice-chair of the emerging issues committee of AGA. □

NIDDK Researcher Ad Bax Is World's Most Cited Chemist

By Mark T. Sampson

Dr. Ad Bax of NIDDK's Laboratory of Chemical Physics has been declared the world's most cited chemist.

The newsletter *Science Watch* analyzed publication and citation data for articles published in 339 chemistry journals between 1984 and 1990. Only articles that drew 15 or more citations on average were included in the survey. With an average of 47 citations per paper, Bax placed first among the 50 chemists listed.

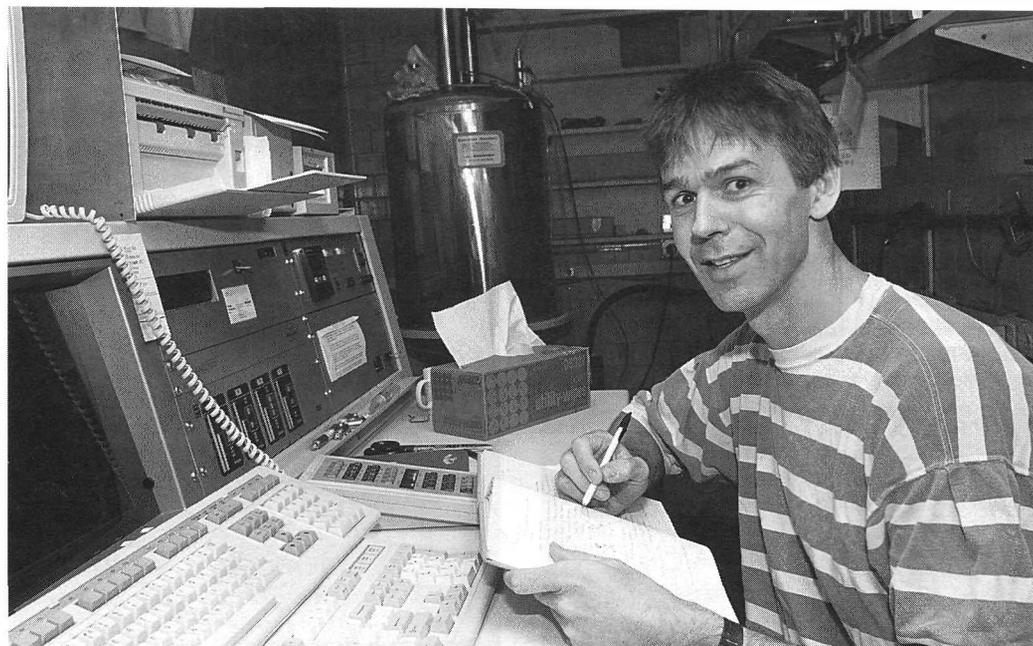
His total citations for the period surveyed exceeded 3,000, placing him above the citation ranks of four Nobel laureates, according to *Science Watch*, which analyzes trends and performance in science.

But Bax smiles at the significance of his rank. "It's very nice to know that people read our papers," he says. "But the citation record is just a matter of the practical usefulness to others of some of the methodology we have developed."

The reason why his papers are so hot, he explains, is the growth in size and popularity of the field of nuclear magnetic resonance (NMR). Available since the 1940's, NMR is an analytical tool of chemistry that uses magnetism to study the structure and composition of molecules.

NMR has grown tremendously within the past decade due to improvements in methodology and equipment, says Bax, chief of NIDDK's section on biophysical NMR spectroscopy. Improving NMR methodology is the focus of his research and the subject of his papers.

NMR is used for a variety of purposes, from characterizing small organic molecules to studying large molecules such as proteins and



Dr. Ad Bax, chief of NIDDK's section on biophysical nuclear magnetic resonance spectroscopy, works at his lab bench in the basement of Bldg. 2. At rear is one of the magnets he uses to study molecular structure.

nucleic acids. Currently one of the most widely used tools in chemistry, NMR has allowed chemists to study molecules with increasing accuracy. And for greater accuracy, chemists turn to Bax.

Bax also believes that his citation rank has to do with the fact that he usually describes in detail how to conduct various experiments, which allows other scientists to adapt these methods to their own needs.

Still, the 64 papers produced by Bax's lab during the 6-year period surveyed drew a much higher number of citations than the papers of

other scientists who produced many more papers during the same time.

Bax does not feel that the list indicates his papers are more significant or superior to others on the list. "I find it a great honor to be on the same list as four Nobel laureates," he says. "But that does not mean that I would like to compare our work, for example, to the original development of two-dimensional NMR by Richard Ernst," work for which the chemist, ranked tenth on the citation list, received the 1991 Nobel prize. □

Physician Volunteers Needed

The Spanish Catholic Clinic is in urgent need of physicians who are willing to serve an immigrant Hispanic population in Montgomery County. Knowledge of Spanish is preferred, but translators are available. Physicians may volunteer 2 hours weekly, biweekly, or monthly.

The clinic is located in Langley Park and is open Monday through Friday from 8:30 a.m. to 5 p.m. If evening hours are preferred, they are negotiable. Contact Sister Martha, (301) 434-3999. □

CC Nursing Department Sponsors Seventh Annual Conference, Oct. 26

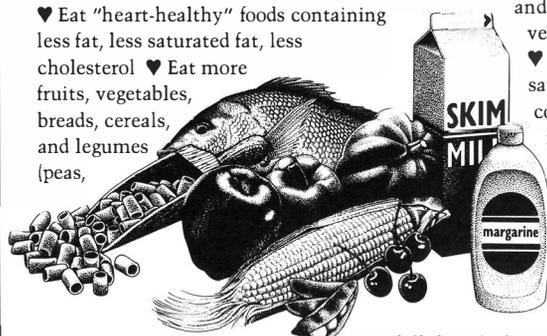
The Seventh Annual Oncology Nursing Conference, "Toward the Year 2000...Challenges in Oncology Nursing," sponsored by the Clinical Center Nursing Department, will be held Monday, Oct. 26, from 8 a.m. to 4 p.m., in Masur Auditorium, Bldg. 10. For registration information, contact the department's Marketing and Communications Division, 496-5661. □

Don't eat your heart out.

Eating right can reduce your blood cholesterol level and your risk of heart disease. Here are a few pointers:

♥ Eat "heart-healthy" foods containing less fat, less saturated fat, less cholesterol ♥ Eat more fruits, vegetables, breads, cereals, and legumes (peas,

beans, etc.) ♥ Eat more low-fat dairy foods ♥ Eat moderate amounts of trimmed, lean red meat; skinless poultry; and fish ♥ Limit how many egg yolks you eat ♥ Use unsaturated oils, margarines and shortenings ♥ Choose breads and other baked goods made with unsaturated vegetable oils, and little or no egg yolk ♥ Choose "convenience" foods by how much saturated fat, total fat and cholesterol they contain—not just cost ♥ Cut down how much fat you cook with



**IT'S YOUR HEART.
IT'S YOUR LIFE.
IT'S YOUR MOVE.**

National Cholesterol Education Program
National Heart, Lung, and Blood Institute, National Institutes of Health, Public Health Service, U.S. Department of Health and Human Services