

THE NIH RECORD

Still The Second Best Thing About Payday

Importance of 'Scientific Biography' NIH To Mark 2nd History Day, Sept. 21 in Lipsett

On Tuesday, Sept. 21, NIH will celebrate the second NIH History Day. The highlight of the day will be a lecture by Dr. Thomas Söderqvist, professor of the history of medicine and director of the Medical Museion at the University of Copenhagen.

His most recent book, *Science as Autobiography: The Troubled Life of Niels Jerne*, is a personal and scientific portrait of the Nobel laureate.



Dr. Thomas Söderqvist

The lecture, "The Seven Virtues of Biography, or What's the Use of Biographies of Life Scientists?" will be held at 3 p.m. in Lipsett Amphitheater, Bldg. 10.

This year's theme is "Scientific Biography," and the goal is to point out how advances in biomedical research depend on individual curiosity, perseverance and creativity, augmented occasionally by serendipity.

Two short biographical sketches illustrate the theme. Dr. Charles Armstrong was the first intramural scientist elected to the National Academy of Sciences, and Dr. Margaret Pittman was the first woman to be named chief of an NIH laboratory.

Armstrong (1886-1967), best known for his work on polio, studied many contagious diseases in his years with NIH. He received his Public Health Service commission in 1916 and made a name for himself conducting several successful studies of

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HIGHLIGHTS

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U.S. Department of Health and Human Services National Institutes of Health

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Parking Relief Arrives Ahead of Schedule

New Garage Set to Open Aug. 31

By Carla Garnett

The new 1,250-space multi-level parking garage located at the northeast sector of campus will open on Tuesday, Aug. 31, several weeks ahead of schedule. A general email/flyer/poster campaign notifying employees began this week, 2 weeks before the grand opening.

"I know that the parking crunch of the past year has been a major inconvenience for many on the NIH campus and I really appreciate the way NIH'ers helped us get through this—by parking off campus, sharing rides, biking, walking and taking public transit," said Dr. Michael Gottesman, NIH deputy director for intramural research and head of a 23-member ad hoc parking advisory committee formed last summer. "Of course it would be great if those solutions worked so well that they become healthy permanent changes for our staff. That would be as much a cause for celebration as this new parking garage."

In the last year or so, the usual parking squeeze has been particularly tight as construction of Bldg. 33, the Safra Family Lodge, Bldg. 6 renovations, northeast stormwater management facility and Bldg. 10 utility vault/northwest garage have each

SEE NEW GARAGE, PAGE 8

'Vital Visionaries'

Program Improves Medical Students' Attitudes Toward Elderly

Creating art with older "teammates" made first-year medical students more sensitive to older people, according to results of the Vital Visionaries (VV) collaboration, a pilot program developed by the National Institute on Aging in conjunction with Johns Hopkins School of Medicine and the American Visionary Art Museum (AVAM) in Baltimore.

"Medical students who participated in the program had a more positive attitude towards older people and the older participants had a chance to explore their creative

SEE VITAL VISIONARIES, PAGE 4



Sol Goodman, 80, quipped of his 23-year-old partner, Nivee Amin, that he has "always liked older women." They discovered they lived in the same condominium but had never met.

HISTORY DAY, CONTINUED FROM PAGE 1

disease outbreaks. His first triumph came in 1920, when he correctly traced the cause of an outbreak of botulism among party-goers in Ohio to tainted olives. This discovery led to a half-million dollar upheaval of the olive canning industry in California.

Assigned to the Hygienic Laboratory (the predecessor for NIH) in 1921, Armstrong traveled to several locations to study epidemics including Haiti and a Navajo reservation. Attuned to the practical side of public health practice, Armstrong was able to solve several health mysteries. One important example is the case of usually fatal post-vaccination tetanus in children who had been given smallpox vaccinations. The culprit turned out to be the dressings, often celluloid shields, which harbored the tetanus spores.

His work in the new field of virology led to discoveries of new diseases and strains of diseases, and also led him to contract at least six of the diseases he studied, including

psittacosis, encephalitis and Q fever. Armstrong served as chief of the Division of Infectious Diseases from 1940-1950.

Another fascinating scientific biography is that of Pittman (1901-1995), best known for her pioneering work in the production, testing and standardization of vaccines to prevent typhoid, cholera and pertussis. In a career that included 35 years with the Division of Biologics Standards, Pittman traveled to the far reaches of the world in her quest to develop and encourage the use of safe vaccines.

She began her research career at the Rockefeller Institute, where she studied the microbiology and immunology of infections caused by *H. influenzae*. Her discovery—that there were six varieties of the organism of which only one type caused serious disease in children—eventually led to the development of the flu vaccine for preschoolers in 1985.

Research on pertussis led Pittman to develop a usable mouse model for the disease in 1944. She then used the information gleaned from the

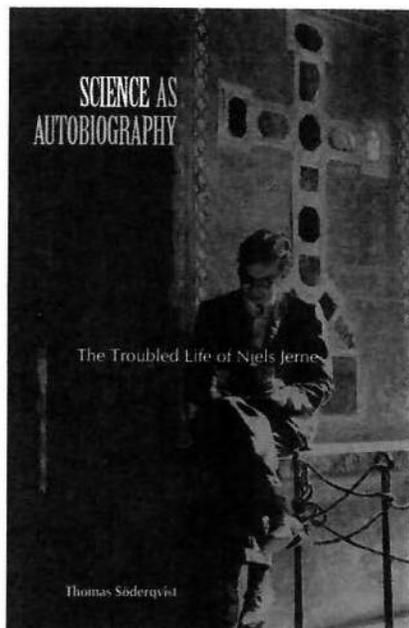
mouse studies to develop a vaccine potency standard. These studies led to the international potency requirement issued by the World Health Organization in the 1950s. Pittman was also involved in finding and standardizing vaccines for other diseases, and was at the forefront of research in eliminating toxins from vaccines.

She began taking on more administrative duties when she was named chief of the Laboratory of Bacterial Products in 1958, but continued to work in the field. A leader in the field of biologics standards in the mid-20th century, Pittman died in 1995.

Bios like those of Armstrong and Pittman are crucial to history, and the Office of NIH History encourages senior NIH scientists to send digital or paper copies of their CVs along with photos, both candid and posed, to be added to the office's biographical reference files. On History Day, collection stations will be staffed in the lobbies of Bldgs. 10, 50 and 37 for those who want to donate in person. For more information about the event or special accommodation, contact Dr. Sarah Leavitt, leavitts@od.nih.gov or (301) 496-8856 or consult <http://history.nih.gov>. ■

Attractiveness and Health Study

What is attractive and healthy to you? The Uniformed Services University of the Health Sciences is conducting a study examining definitions of attractiveness and health among African American and Caucasian women between ages 18-60. Participation includes completing questionnaires and attending a one-time interview in Bethesda. Volunteers will be paid for their participation. If interested, call Dawnavan Davis at (301) 295-3672. ■



On Tuesday, Sept. 21, NIH will celebrate the second NIH History Day with a focus on scientific biography. The guest speaker for the event will be Dr. Thomas Söderqvist of the Medical Museion at the University of Copenhagen, whose most recent book, *Science as Autobiography: The Troubled Life of Niels Jerne*, is a personal and scientific portrait of the Nobel laureate. Copies of the book are available for purchase in the FAES bookstore in Bldg. 10, Rm. B1L101.



N I H R E C O R D

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Dr. Steven M. Holland has been named chief of NIAID's new Laboratory of Clinical Infectious Diseases. The lab conducts clinical and basic studies of human infections and immunologic diseases, with a focus on viral, fungal, mycobacterial and bacterial infections, and acquired and congenital immune disorders that

may enhance their virulence and chronicity. Holland received his B.A. from Saint John's College in Annapolis and his M.D. from Johns Hopkins University School of Medicine. He trained in internal medicine and infectious diseases at Johns Hopkins Hospital. His NIH career began as National Research Council fellow guest researcher in the Laboratory of Molecular Microbiology, NIAID, in 1989. In 1991, he moved to the Laboratory of Host Defenses as an NIAID investigator. He was named senior clinical investigator and head of the immunopathogenesis unit, clinical pathophysiology section of the Laboratory of Host Defenses in 2000. In 2003, he began serving as chief of the Laboratory of Host Defenses immunopathogenesis section.



George Tucker recently joined the National Center for Complementary and Alternative Medicine as chief of the grants management office. He will oversee the fiscal and administrative management of NCCAM's grants program. Tucker joined NIH in 1982 as a dental assistant in the Dental Clinic at the National

Institute on Dental Research. He performed various surgical procedures during dental treatments of patients and conducted clinical studies. While there, he completed training in diagnostic radiology at the University of Maryland and became certified as a diagnostic radiologic technologist. In 1988, he was selected for the NIH STRIDE Program and moved to a position as a grants management specialist at the National Institute of Neurological Disorders and Stroke. He has held similar grants management positions at the National Institute of Standards and Technology, NIDCR and the National Institute of Diabetes and Digestive and Kidney Diseases. Before joining NCCAM, Tucker was deputy chief grants management officer at NIDDK. He has been an active member of several NIH committees including the grants guidance committee and the grants management advisory committee. Tucker has a bachelor of science degree in business management from Potomac College in Rockville, and a master's degree in business administration from Southeastern University in Washington, D.C.



Dave Hunter (second from l), a program manager with CIT's Division of Customer Support, recently received a 2004 HHS Secretary's Award for Distinguished Service. The award recognized Hunter's leadership of the NIH Information Systems Designated Procurement Program (iSDP). iSDP is intended to save time and money by eliminating the need to search for the best information systems deals. It acquires and delivers brand-name software, hardware and services to HHS personnel. Hunter is credited with the success of iSDP, which has grown from 28,000 desktops in fiscal year 1999 to more than 60,000 desktops across HHS in FY 2004. The program takes advantage of large volume purchasing agreements to provide significantly discounted prices to its customers. The award citation also notes that Hunter negotiated sizable savings from more than 40 information technology manufacturers and service providers, including Adobe Systems, Microsoft, T-Mobile and AT&T Wireless. In addition, the HHS Office of the Secretary recently transitioned management of department-wide Oracle and SAS agreements to iSDP. Shown presenting the award to Hunter are (from l) HHS Deputy Secretary Claude A. Allen, HHS Secretary Tommy G. Thompson and NIH director Dr. Elias Zerhouni.

Symposium on Antiviral Drug Resistance

The fifth HIV DRP Symposium on Antiviral Drug Resistance, sponsored by the National Cancer Institute's HIV Drug Resistance Program and cosponsored by the University of Pittsburgh, will be held Nov. 14-17 at the Westfields Conference Center in Chantilly, Va.

The symposium series brings together researchers in a variety of virus systems to exchange new information on viral targets for therapy, on antiviral drugs and on resistance to these drugs. Each session focuses on a different class of molecular targets for antiviral therapy, with emphasis on normal structure and function, interactions with antiviral drugs and the evolutionary basis and specific mechanisms of viral resistance.

The program will include invited speakers as well as oral and poster presentations. Scheduled speakers include Ronald Desrosiers, Kai Simons, Joseph Sodroski and others. For more information, including online registration and submission of abstracts, visit <http://web.ncicrf.gov/campus/symposium/>. 

NIAID Study Recruits

HIV+ volunteers with CD4 T cells greater than 500 cells/mm³ and viral loads less than 50 copies/mL are needed for a treatment-interruption study. Participants may be eligible for this study if they have never received IL-2, have never had a CD4+ count under 200 cells/mm³, do not have any significant medical problems, and are willing to stop their antiretroviral medications with close supervision. Travel assistance may be provided. Call Rosanne Burke, (301) 435-7937.

VITAL VISIONARIES, CONTINUED FROM PAGE 1

sides. It's wonderful when serious learning can be achieved amid a great deal of laughter and good will," said Dr. Judith Salerno, NIA deputy director. "Too often, medical students only interact with ill and frail older people. The first step towards improving care for older people is to improve how medical students view them."

Launched in March 2004 as a pilot project, the VV program paired 15 first-year medical students from Johns Hopkins with 15 older people from the Baltimore area. The two-person teams met and

learned from older visionary artists, took a contour drawing class and worked on various art projects at AVAM in conjunction with its year-long exhibition, "Golden Blessings of Old Age/Out of the Mouths of Babes." "Visionary" art is produced by self-taught individuals, usually without formal training, whose works arise from an innate personal

vision that revels foremost in the creative act itself, according to AVAM.

Compared to non-participating students, the VV medical students showed a statistically significant improvement in their attitudes towards aging and older people in most areas tested by the Aging Semantic Differential scale. After participating in the 4-part art program, 11 of the 15 participating students said they would like to have greater numbers of older patients in their future practices compared to only 2 medical students who did not participate in the program.

All of the Vital Visionary medical students disagreed with the statements that working with older patients would be less interesting than working with younger patients and that older people are difficult to talk to.

Among the non-participating medical students, 60 percent disagreed with the statement that older patients would be less interesting to work with and 80 percent disagreed that older patients are difficult to talk to. The number of VV students who were interested in obtaining specialized training in geriatrics doubled compared to their interest prior to participating in the program.

"We have been looking for ways to improve the way medical students are educated about the world around them and to better connect with people who are coming to them for help. The Vital Visionaries has been a great way to forge those connections," said Dr. Jean Ogborn, who coordinates the Physician



Jessica Long (l), 23, and her partner Beatrice Nortberg, 73, have maintained their post-Vital Visionaries friendship, hiking almost every weekend.

in Society class at Johns Hopkins. "We hope to keep the Vital Visionaries going in some fashion."

The numbers of physicians who specialize in medical problems associated with aging are declining just as the need for their services is increasing, according to a 2004 study contracted by the Association of Directors of Geriatric Academic Programs. Currently, there are about 7,500 geriatricians in the U.S. The group estimates 36,000 geriatricians will be needed by 2030 to treat the growing numbers of older people.

"Can anyone imagine the good that would come from museums across the country celebrating the creativity and vibrancy of their community's oldest citizens? By enlightening a new generation of physicians with first-hand knowledge that 'old' can mean the best, the wisest and the most fun that one can be, our Vital Visionaries experience surpassed all our expectations and made great use of the museum



Maggie Kramer, 68, and Nicholas Donoghoe, 23, are kindred spirits but might never have met if the fates had not intervened in the form of the Vital Visionaries collaboration. "Maggie described herself as a radical old liberal socialist and I think that's super cool. That's the way I want to describe myself someday," Donoghoe said.



Marc Callender (l) and Gail Brooks (second from l) discovered a shared interest in the trumpet. Joining them are (from l) Minnie Kaufman, medical student Jonathan Lissauer, Sister Mary Alice and Rebecca Hoffberger, founder and director of the American Visionary Art Museum.



Minnie Kaufman, 85, said that her partner Hannah Alphas would be a good doctor because of her listening skills. "I know this because she's been listening to me non-stop for several weeks."

as an agent of positive change," said Rebecca Hoffberger, AVAM founder and director.

NIA plans to make information available to others interested in starting a similar program. The Vital Visionaries program was based on a study conducted by Dr. Marie A. Bernard and investigators at the University of Oklahoma's Reynolds department of geriatric medicine. Their work, published in the *Journal of the American Geriatrics Society* (March 2003), observed that "health care professionals tend to believe that most older individuals are frail and dependent and that those who are not are atypical," despite data showing that most elders are in good health and live in the community. ■

NIH Training Center Classes

The Training Center supports the development of NIH human resources through consultation and provides training, career development programs and other services designed to enhance organizational performance. For more information call (301) 496-6211 or visit <http://LearningSource.od.nih.gov>.

NIH Foreign Travel (NBS Travel System)	8/19-20
Delegated Acquisition Training Program	8/23-26
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Consolidated Purchasing Through Contracts	9/8
Buying from Businesses on the Open Market	9/9
Introduction to NIH Property Management	9/14-15
Travel for NIH Travelers	9/16

Healthy Volunteers Needed

NIAID is seeking healthy male and female volunteers ages 18-40 years for a research study to determine whether lopinavir/ritonavir (anti-viral medication) has direct effects on how the lining of the arteries function before and after receiving 4 weeks of therapy. To participate, you must be a non-smoker in good health, not be HIV-infected and not be taking any chronic medications. Participants will be compensated. Call Jocelyn Voell, (301) 435-7913. ■

NINDS's Marvene Horwitz Retires

Marvene Horwitz, NINDS deputy executive officer, recently retired with nearly 30 years of federal service—15 with NIH, 5½ with NINDS.

"I think it is time," said Horwitz. "I believe everyone comes to a point where they say it is time to do something new. I fell into this work; I never planned it. It has worked out extremely well for me. But I think it is time to see if there is something new to fall into."

Before coming to NIH, Horwitz served in staff and supervisory positions as a personnel management specialist in the Office of Thrift Supervision, the Federal Highway Administration, the Fish and Wildlife Service, and the Office of Personnel Management—where she began her federal career at what was then called the U.S. Civil Service Commission.

Since coming to NIH in 1989 as chief of the Recruitment and Employee Benefits Branch, she has also held various supervisory and managerial positions in the Office of Human Resource Management, Office of the Director. In 1996, she was named deputy director of human resources. She joined NINDS in 1999 as deputy executive officer. In addition to her NINDS responsibilities, she served as chair of the NIH quality of worklife committee, and as vice-chair of the NIH Diversity Council.

"NIH was the first organization where I really could identify with the mission and I have thoroughly enjoyed being associated with the biomedical research enterprise," said Horwitz. "I always used to say that personnel wasn't brain surgery. When I got here, I realized it was brain surgery or at least it helped support people doing brain surgery. That is doubly true for me being in NINDS now and knowing that my work helps support brain surgeons, neurologists and neuroscientists working on diseases and disorders that affect so many people."

Horwitz earned her bachelor's degree in Spanish from the University of Rochester, a master's degree in Spanish from the University of Pittsburgh, and a second master's degree in governmental administration from Georgia State University.

"What has been most satisfying to me is the ability to mentor terrific, bright, thoughtful employees in formal intern programs and informally as well," she said. "They are the future of NIH and I leave it in their capable hands."

In retirement she plans to do the "usual" traveling and volunteer work. She is also considering taking tap dance lessons, joining a Spanish book club, learning to bake bread and learning to read from the *Torah* (book of Jewish law). In the end, she said, "doing what I want, whenever I want to do it."—

Shannon E. Garnett ■



Marvene Horwitz, NINDS deputy executive officer, recently retired with nearly 30 years of federal service.

NEW GARAGE, CONTINUED FROM PAGE 1

consumed hundreds of spaces within a short period throughout campus.

“Good construction project management” allowed the garage to be ready before its fall target date, according to Stella Serras-Fiotes, who heads the Division of Facilities Planning in the Office of Research Facilities.

About the Garage

Dubbed MLP-10, the 8-level facility will be employee-only parking with 50 spaces for workers with handicapped permits, 75 slots for red hang tags, 50 reserved spaces, 30 carpool slots and nearly 1,050 spaces designated for general employee parking. Motorcycle parking also will be offered in several of the garage’s corners. The categories and designations reflect pre-construction totals from the employee parking lots formerly located around Bldg. 31. Three elevators will shuttle employees between floors.

The garage represents the first new parking area to open on the north half of campus since that part of the NIH property underwent major construction activities, which led to the loss of about 1,200 spaces from February to September last year. [Another garage, MLP-9, is under construction on former parking lots 10C and 10D, near the Clinical Center’s Blood Bank.]

“MLP-10 is designed to meet security requirements such as a sufficient lighting system with energy-saving features during off hours, surveillance cameras at each emergency phone location, strategically located emergency phones throughout the garage based on recommendations by NIH security and police, and emergency exit signs, etc.,” noted Kyung Kim, an engineer in ORF’s Division of

New traffic flow: When MLP-10 opens, employees driving south on Rockville Pike will have access to the new garage, entering the campus at a newly established security check-point closer to the intersection at Cedar Ln. Also shown on the diagram below is the location of the new temporary road and walkways around Bldg. 31B.



A temporary road that is being built on the Cedar Ln. side of MLP-10, beside the mock lab structure, will be used to enter and exit the new garage.

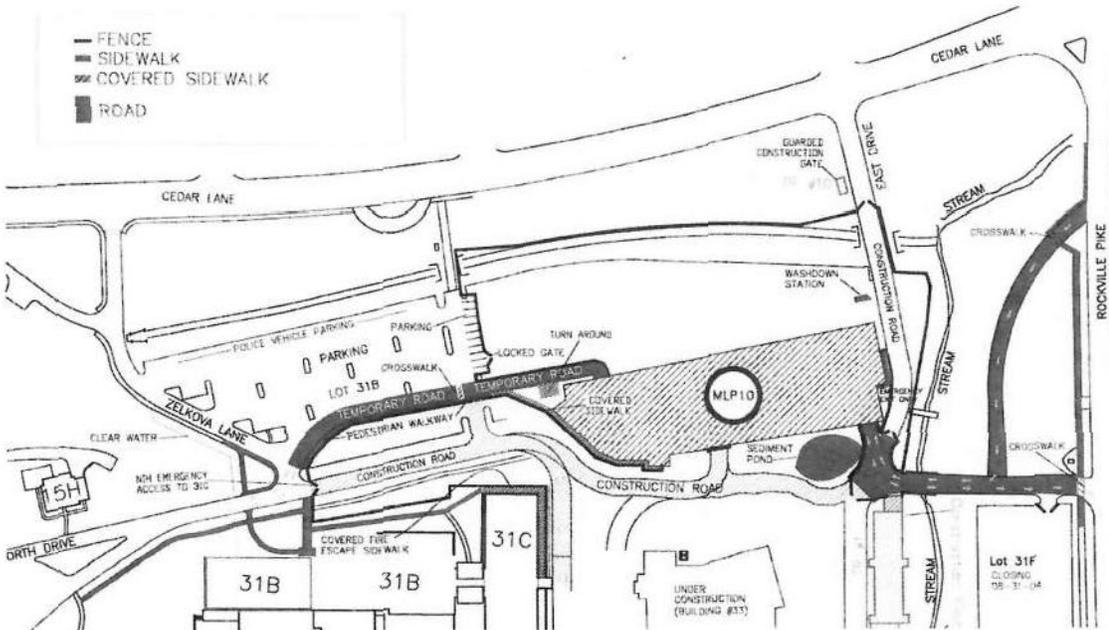
Capital Projects Management who is project officer for the Bldg. 33 complex. The garage, along with the Bldg. 33 lab facility, a recently completed underground stormwater management system and a plaza/courtyard comprise the complex.

MLP-10 also has been fitted with community-friendly “green screens” designed to shield the Cedar Ln. neighborhood and Bldg. 31 from effects of the 24-hour lighting system in the garage.

What Will Change

Opening the new garage—located amid the active construction site of Bldg. 33—will change operating procedures in several ways, according to Tom

Hayden, director of the Division of Travel and Transportation Services, Office of Research Services, which is leading design of the new on-campus traffic routes. The biggest change will be short-term: A temporary road leading to and from the new facility will be constructed through the existing parking lot 31B. This road is necessary because Bldg. 33 construction will require its own dedicated roadway. A temporary pedestrian walkway will be built



alongside the temporary road, and—for safety reasons—will be the only access for employees walking to and from Bldg. 31 to the new garage. Employees will enter Bldg. 31 at the B wing.

The temporary road will lead to a temporary garage entrance/exit located at the rear of the facility facing Cedar Ln. These short-term access ways—already in early stages of construction—will be completed during weekends, in order to lessen disruption to weekday on-campus traffic.

Planners also recognize that the temporary walkway will seem to some employees as a long, indirect journey to their work sites, particularly to those who work in Bldg. 31C.

“Please emphasize that this is a temporary circulation pattern because we have to deal with Bldg. 33 construction,” Serras-Fiotes said, anticipating employees’ first impressions. “For safety’s sake we need to fence in the construction road.”

Another change is access to the new garage from Rockville Pike. Currently there is no access to the 31B and 31C parking areas from the Pike. When MLP-10 opens, employees driving south on Rockville Pike will have access to the new garage, entering the campus at a newly established security checkpoint closer to the intersection at Cedar Ln. Northbound Rockville Pike drivers may turn left at Center Dr., South Dr. or Wilson Dr., and will access the new garage via Center Dr.

The last two remaining parking lots along Rockville Pike, lots 31F and 31H, will be closed. The two lots will form the site of the new commercial vehicle inspection (CVI) checkpoint, where all delivery vehicles will be processed before entering campus. The closing of these lots represents the end of parking at NIH outside the security fence.

The new traffic pattern reopens one of the two bridges that employees previously used to access parking areas near Bldg. 31. Eventually, following completion of Bldg. 33 construction, East Dr. between Wilson and North Drives will also reopen, offering another accessway to the garage.

There will be no stacked parking in the new garage; however, the facility is designed for stacking if the need arises in the future. Parking attendants from surface lot 31B will be removed as well; a portion of this lot will remain open for handicapped parking, NIH Police vehicles, and other NIH permit holders.

“We will be in a better position than we were before construction began,” noted Serras-Fiotes, describing the net gain of approximately 500 parking spaces. “For our population we should be okay without having to stack, which is a fairly expensive contract cost that we’d like to avoid.”

What Stays the Same

Currently, employees arriving via Rockville Pike can make either a left or right turn from the Pike

into the security checkpoint at Wilson Dr. Such access will continue, allowing employees traveling north on Rockville Pike to make a left turn onto Wilson Dr., display NIH ID card and parking hanger and proceed to the main portion of campus via Wilson Dr. to Center Dr. Access to the new garage from Wilson Dr. will be available through the campus past Bldg. 31A via Center Dr., as always.

No vehicle access to the garage is planned for Cedar Ln. Employees may still enter campus on foot or bicycle from Cedar Ln. via the pedestrian gateway at the former Garden Ln., where an arc-shaped drop-off lane has been carved into the perimeter of campus.

Temporary gravel lots located in various areas around campus will also be around for a while longer—the campus parking crunch won’t end with the opening of the new garage, but should ease. Attendant-assisted stacking at such lots will continue under contract, as will authorized double-parking at Bldg. 41 lots and visitor pay-for-parking areas.

Finally, employees will have round-the-clock access to the parking garage, just as they had to the surface parking areas that it replaces. ■

CIT Computer Classes

All courses are given without charge. For more information call (301) 594-6248 or consult the training program’s home page at <http://training.cit.nih.gov>.

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Tae Kwon Do Beginner’s Class

The NIH Tae Kwon Do School is offering a beginner’s class for adults and mature teens starting Sept. 15. The curriculum combines traditional striking arts, forms and sparring with emphasis on self-defense. No experience is necessary. Class will meet in the Malone Center (Bldg. 31C, B4 level, next to the NIH Fitness Center) from 6 to 8 p.m. on Mondays and Wednesdays, and will continue for about 2 months until participants can be integrated into the regular school training. Dues are \$40 per quarter and a uniform costs \$30. Interested persons are welcome to watch regular training sessions. For information call Andrew Schwartz, (301) 402-5197 or visit <http://www.recgov.org/r&w/nihtaekwondo.html>.

*'Adventure in Science'***Science Education Program Marks 12th Year, Recruits Teachers**

Many scientists can recall a single teacher, or a special course, or a dramatic experience that awakened their curiosity in science. If you would like a chance to inspire a child with the fun of experimentation, Adventure in Science (AIS) is for you. This program, beginning its 12th year at NIH this fall, gives local children ages 8-11 hands-on experiences in a variety of projects with volunteers from NIH guiding the way. Meeting on Saturday mornings in Bldg. 10, you can lead AIS children in activities like exploring the inside of a frog, launching a model rocket, constructing electronic circuits or isolating DNA from a strawberry. Or, you might devise your own creative experience to engage a child's scientific curiosity.

Volunteers can present sessions related to their research specialty, or can choose activities that they found exciting when they were young. Especially popular are sessions in which kids play an active role and get to take home a product of their experiments. Team or solo teaching is possible. Instructors can teach a single class one Saturday, or may volunteer as often as they like.

If you are interested in volunteering to teach in the program, contact Peter Kellman (301) 496-2513, kellmanp@nhlbi.nih.gov or Ed Max (301) 827-1806, max@cber.fda.gov.

If you are interested in enrolling your child, you can request forms from the 4H office at Montgomery County Cooperative Extension office, (301) 590-9638. To keep classes small, the number of children in the program is limited; children are accepted in the order that they apply, so fill out and return application forms promptly.

Sruti Uppuluri (l) and Katie Quinn identify anatomical landmarks of a sheep brain.



AIS adventurers explore the sublimation of solid carbon dioxide (dry ice).



AIS students (from l) Teja Nagaradona, John King and Srinidhi Muppalla use a Geiger counter to locate radioactivity in a smoke detector.

Female Volunteers Needed

The Behavioral Endocrinology Branch, NIMH, is seeking female volunteers ages 18-55 to participate in studies of the effects of menstrual cycle hormones on brain and behavior. Volunteers must have regular menstrual cycles with no changes in mood in relationship to menses, be free of medical illnesses and not taking any hormones or medication on a regular basis. They will complete daily rating forms and be offered participation in one or more protocols. Payment will be in accordance with the duration of each visit and the type of protocol. For more information, call Linda Simpson-St. Clair, (301) 496-9576. **R**