

# THE NIH RECORD

Still The Second Best Thing About Payday

## Stetten Museum's Genetics Exhibit Opens in Bldg. 10

The DeWitt Stetten Jr., Museum of Medical Research sponsored a symposium Sept. 9 to mark the opening of its newest exhibit, "Revolution in Progress: Human Genetics and Medical Research."

Dr. Francis Collins, NHGRI director, was the featured speaker at the event, which was cosponsored by the NIH Genetics Interest Group. He gave a half-hour lecture emphasizing that genetic researchers need to concentrate on identifying genes that play a role in causing certain common diseases such as heart disease and cancer, when combined with environmental factors. New strides in technology such as DNA on a chip, which means placing DNA samples on a silicon chip so that differences can be detected and read on the computer, should help scientists in their quest to discover these genes.

Collins also said we "must deal with the ethical, social, and legal aspects of genetic testing," and that "the potential for employment and insurance discrimination must be addressed."

SEE GENETICS EXHIBIT, PAGE 2

## CFC Kickoff Set, Oct. 16

The 1997 NIH Combined Federal Campaign kickoff has been nudged forward by this year's Research Festival to Thursday, Oct. 16 at 11:45 a.m. in front of Bldg. 1, with Wilson Hall the location in case of rain. This year's theme is a karmic one: "It all comes back to you." Hosting the event, which will feature music by the Federal Focus Jazz Band and lots of great raffle prizes, will be the Clinical Center. Lunches will also be available for purchase. For more details, check next payday's *NIH Record*.

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

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Lung Transplant Costly

## Lancasters Hope for Community Help, Plan Fundraiser in Masur

By Rich McManus

If someone tells you he is from Peoria, Ill., the natural inclination is to assign all-American qualities—wholesome, upright, Godfearing and hardworking. And Peorian Henry Lancaster is all of these, in spades. He looks a shade like actor Kevin Bacon, only without the hard eyes. A third-year clinical fellow in the National Institute of Dental Research, he is soft-spoken, calm, open and seems utterly guileless. The kind of guy mothers probably want to see their daughters tow home.

The only departure from this portrait of winning normality is a cough that interrupts his speech. And his voice has a whispery tone, as if he were jealous of his own breath; at the end of his sentences he seems to gulp slightly for air. This is because Lancaster has cystic fibrosis (CF), an inher-



*Drs. Henry and Joanne Lancaster are hoping that he will soon get a successful lung transplant, and that they will be able to afford it.*

SEE LUNG TRANSPLANT, PAGE 4

A Real October-fest

## Research Festival Ready to Debut In New Month, Site

By Gregory Roa

Like a lot of other things around campus these days, the NIH Research Festival has undergone quite a few changes. The annual event has migrated to a new month, running the week of Oct. 6 to 10 instead of in mid-September. The festival's circus-size tents have moved as well, to a new site near the front of the Natcher Bldg. And for the first time, the program includes not one but two evening picnics, plus a new and improved job fair for NIH postdocs. As always, however, Research Festival retains the same great schedule of symposia, workshops and posters, all of

SEE RESEARCH FESTIVAL, PAGE 7

### Director's Seminar Set, Sept. 26

The NIH Director's Seminar Series begins its 1997-1998 season of Friday noontime lectures in Bldg. 1's Wilson Hall on Sept. 26 with Dr. John T. Schiller of NCI's Laboratory of Cellular Oncology. His topic is "Developing a Vaccine to Prevent Cervical Cancer." Continuing medical education credit is available.

### GENETICS EXHIBIT, CONTINUED FROM PAGE 1

The exhibit is divided into several sections, including one that explains how dominant and recessive traits work, one showing how the genetic code can go wrong, and one that discusses potential treatments for genetic diseases. The last section deals with the ethical dilemmas raised by genetic testing and asks viewers how they would respond if they were at heightened risk for certain diseases.

The exhibit also features a board game showing the highly complex path to effective gene therapy, and a cartoon strip stretched along the bottom that explains genetics to children ("a gene is a recipe for making protein").

"We felt that it was very important to include a cartoon strip geared towards children, because most of the exhibits in the Clinical Center are viewed by



On hand at the ribbon-cutting for the Stetten Museum's genetics exhibit are (from l) NIAID director Dr. Anthony Fauci, NIDDK scientist Dr. Alan Schechter, Jane Stetten, museum director, NIH historian Dr. Victoria Harden, NHGRI director Dr. Francis Collins and NHLBI scientist Dr. Ed Korn.

children and they have a natural curiosity about how the body works," said Michele Lyons, curator of the exhibit.

The exhibit is located in the CC on the balcony overlooking the Visitor Information Center. It is open 7 days a week and lighted for viewing from 7 a.m. to 7 p.m. The exhibit was produced by the Stetten Museum in collaboration with the National Human Genome Research Institute, the National Heart, Lung, and Blood Institute, the National Cancer Institute, the National Institute of Allergy and Infectious Diseases, and the National Institute of General Medical Sciences. ■

### Research Conference on Heroin

The National Institute on Drug Abuse is sponsoring a conference, "Heroin Use and Addiction: A National Conference on Prevention, Treatment, and Research," Sept. 29-30 at the Sheraton Washington Hotel in Washington, D.C. HHS Secretary Donna Shalala and the director of the White House Office of National Drug Control Policy, Gen. Barry McCaffrey, will be keynote speakers.

A series of panels will address the changing trends and patterns of abuse, including the varying consequences of snorting, smoking, and shooting heroin; the biological and behavioral bases of addiction; the health and social consequences of heroin addiction, including its effect on the fetus and implications for HIV/AIDS and hepatitis C; and effective, science-based prevention and treatment approaches. Each panel presentation will be followed by a 30-minute question-and-answer session.

Preregistration is required. There is a \$125 registration fee. For more information and to register, call Sally Marshall or Robyn Bowie at (301) 468-6001. ■

### Seminar on 'Women, Poverty, AIDS'

The Office of AIDS Research is sponsoring a seminar entitled "Women, Poverty and AIDS," on Tuesday, Sept. 30, from 1 to 2 p.m. in Lipsett Amphitheater, Bldg. 10. The speaker is Dr. Janie Simmons of the Institute for Health and Social Justice, Partners in Health, Cambridge, Mass. For more information contact Dr. Fulvia Veronese, 496-3677. ■

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## MARC Program a Boon to NCI Studies

By Francis X. Mahaney, Jr.

Lorna Damo, a bright, energetic biology major from Mount St. Mary's College in Los Angeles, spent the summer of 1997 in NCI's Laboratory of Cellular Carcinogenesis and Tumor Promotion in an effort to determine whether the anticancer drug cisplatin or the anti-AIDS drug AZT may ultimately play a role in human cell death.

For Damo, who hopes to become a physician-scientist caring for patients and doing oncology research, her 4-month stint at NCI enabled her to learn new laboratory techniques and improve her



Lorna Damo

proficiency as a science student.

She was a participant in the Minority Access to Research Careers (MARC) Program.

NCI, through a cofunding arrangement with the MARC program of the National Institute of General Medical Sciences,

provides support for research training to minority students and institutions, as well as conference grant support. The NCI-MARC Summer Training Program is an extension of the cofunding process.

Its prime objective is to increase research training opportunities at NCI for underrepresented minority scholars like Damo, and increase the number of minority scholars entering into cancer-related research careers through the influence of short-term laboratory training at NCI.

"As an Asian-American and a woman, I truly believe that [this] is a great program," said the 20-year-old student from San Francisco. "Since the age of 13, I have been interested in cancer," she explained. During her senior year of high school, Damo volunteered at Ronald McDonald House, working with children who had cancer.

During the past summer, Damo extracted DNA, prepared tissue samples, counted cells under the microscope and stained slides with antibodies to observe specific biological processes of drugs under study. And while her research seemed small compared to the myriad scientific achievements in a laboratory of 70 scientists, it may play a role in understanding how to make cancer treatments more effective.

"There is no substitute for hands-on experience," said Dr. Miriam C. Poirier, senior investigative

scientist and head of the section where Damo worked. "The skills and scientific techniques that Lorna learned this summer will be invaluable throughout her whole life."

"What makes science so fascinating is that one often starts to explore a scientific issue with a question which in turn leads to an answer which presents more questions," Damo said.

Yari Marin, a 19-year-old microbiology student at the University of Puerto Rico in Mayaguez, also participated in this year's program. Working in the Laboratory of Biochemistry under the mentorship of Dr. Michael Mage, she spent the summer studying immunology.

Her experiments on T cell stimulation could eventually lead to new treatments that strengthen the human immune system.

"It opened new doors to my understanding of molecular research and accelerated my understanding of scientific theory while allowing me to jump in and learn scientific techniques that otherwise would have taken me years to develop," Marin said. "The MARC program gave me opportunities that I never would have received anywhere else."

Marin obtained skills and scientific knowledge that will prepare her to face the challenges of working in a genetics lab at the University of Puerto Rico, where she will set out to prove with her professors the "evolutionary clock theory."

This year, students enrolled in the NCI/MARC program conducted research in eight laboratories. The students included: Hasani Carter of Virginia Union University, Aleshia Hall of Jackson State University, Turkessa Walker of Clark Atlanta University, and Carlethia Cherry of Alabama State University.

To learn more about the NCI/MARC Program, call 496-7344. ■

### Glucose/Insulin Study Recruits

NHLBI's Hypertension-Endocrine Branch seeks volunteers ages 18-55 with obesity, hypertension or diabetes for a 2-day study. Participants will be required to discontinue medication for 1 week with consent of private physician and will be compensated \$300 upon completion of study. Call Joan Folio at 496-3244. ■

### Biomedical Calendar Available

The 1997-1998 Calendar of Biomedical Meetings and Events, which includes meetings sponsored by NIH as well as those of major medical societies and biomedical research associations, is available from the Office of Communications, OD. To obtain a copy, call Betty Riley, 496-8855.



Yari Marin

## LUNG TRANSPLANT, CONTINUED FROM PAGE 1

ited disease with a variety of symptoms including impairments to digestion and secretions that clog airways, leaving lung tissue scarred and fibrotic.

The disease, manageable up to now with enzyme pills that aid in digestion, daily respiratory therapy that shakes loose the congestion in his lungs, and antibiotics to control lung infections, has worsened dramatically in recent months. Last spring, his lung function tested so poorly that he became a candidate for a double-lung transplant at the University of Pennsylvania hospital; he is now also a candidate at the University of Maryland medical center in Baltimore. His wife, Joanne, an immunologist in NICHD's Cell Biology and Metabolism Branch, carries a beeper on her hip; they could get the call at any moment, although the typical waiting period is about a year.

Though they enjoy good medical insurance coverage, the Lancasters anticipate a gap of about \$25,000 that they will need to cover cost of relocation (the postoperative therapy at Penn would last a minimum of 3 months), lost wages, rent on their apartment in Silver Spring, and drug costs not covered by insurance. To cover these expenses, they have launched a panorama of fundraising activities among friends, family, church congregation and, now, NIH'ers. On Saturday, Oct. 25 in Masur

Auditorium, Bldg. 10, R&W has helped arrange a gala fundraiser that will feature Irish dancing and music, national Scottish fiddling champion Elke Baker (whose dad is an NIH'er), and a series of performers who will recreate, Joanne hopes, some of the excitement of the *Riverdance* phenomenon sweeping the nation. Herself an Irish stepdancer, despite her origins in Glasgow, Scotland, Joanne will perform too, literally dancing for her husband's life. "We're hopin' to pack the house," she declares in a Scots burr.

Though slight, with a dancer's build, she seems as steely as any dockside Glaswegian. She met Henry at Washington University in St. Louis when the security guard at her dormitory introduced them; Henry was in dental school and she was doing research for a year in the lab of, ironically, a transplant surgeon; the following year she entered the immunology Ph.D. program at Washington U. Since then, life has been anything but secure, given Henry's decline.

He was diagnosed at age 7 with CF. "Back then, they didn't know much about the disease and weren't very good at diagnosing it," he recalls. "I had lots of pulmonary infections as a kid. I seemed to always have colds and pneumonias, but didn't know why. I was also malnourished because I wasn't digesting my food. I had a lot of intestinal pain, and I got really thin. I missed a lot of school when I was growing up because I was home with colds, flu, and what they thought was bronchitis."

Lancaster says he "could never do much in the way of sports. I didn't have the breathing capacity to do a whole lot of activities. But it didn't get really bad until about 10 years ago," when a series of chronic respiratory infections landed him in the hospital for the first time. Physicians then detected that his lung function had decreased. In the intervening years, despite the rigors of thrice-weekly volleyball games, completing a biology major at the University of Illinois and earning a D.M.D. at Washington University, Lancaster was hospitalized more frequently, sometimes for 2-3 weeks at a time. At NIH since the summer of 1995, he is now a Clinical Center patient of Dr. Milica Chernick. No sooner did he emerge in early September from a 3-week inpatient course of antibiotics and respiratory therapy at the CC than he went back to seeing patients of his own in the dental clinic. Ironically, his bench research is in gene transfer, "although not in CF genes, but in salivary gland genes."

Lancaster was 8 when he decided to become a dentist. "My friends all made fun of me when I was a kid, comparing me to the elf who wanted to be a dentist in the Rudolph the Red-Nosed Reindeer TV show," he remembers. "I think the fact that my mom was a nurse had a lot to do with my decision. I just really liked the health field. And I was always

### Calm Amid the Storm

Though he was reared from age 5 in Peoria, Ill., Henry Lancaster was born in Fayetteville, N.C., where his dad was stationed at Ft. Bragg. He retains much of the soldier's stoicism regarding his battle against cystic fibrosis. Not a trace of complaint or self-pity characterizes him. Indeed, he looks like he just stepped off a university quadrangle in his jeans, golf shirt and sneakers. Far from an embittered battler, he looks like a companionable fraternity brother.

His daily regimen to cope with CF, however, is anything but a fairway stroll. He must take antibiotics to prevent lung infections, usually in pill form but, when he is hospitalized, by intravenous drip. He takes enzyme pills before each meal to help digest food. "I have to eat lots of high-calorie foods to compensate for what I'm losing [due to CF]," he said. "But the pills basically take care of the digestive problem." His wife, Joanne, notes that he has gained 30 pounds since

joining an NIH protocol 2 years ago. "He used to be thin as a rail," she observes. The NIH study includes higher-potency enzymes than he had formerly taken.

An area of therapeutic improvement is in what he calls "postural drainage." CF patients undergo respiratory therapy regularly to pat loose the thick secretions that accumulate in the lungs. Three times a day, for an hour at a time, Henry dons a TheraVest, which he describes as "basically a life jacket hooked to an air compressor." Substituting for the manipulations of a respiratory therapist, the jacket "just shakes you, taking the place of hands-on therapy. It helps me cough up obstructions. I also have to breathe nebulized bronchodilator medication while I'm in the vest."

All of this seems unremarkable to Henry. Such implacability certainly plays in Bethesda, if not in Peoria.

really good with my hands. I like artwork, and have always been able to draw.”

His mother dissuaded him from pursuing an M.D. because of the long hours typically logged by physicians. “She kind of steered me toward dentistry.”

No allowances due to CF were made for Lancaster during his medical training, though his educators were very supportive of his health requirements, he says, adding, “my coworkers at NIH have been very helpful and supportive with respect to my illness, and occasional missed work.” The only exemption he receives at NIH is from treating patients with multi-drug resistant tuberculosis, because they are infectious and he could acquire the untreatable illness. Also, the mask he would be required to wear while treating such a patient is too thick to allow him to breathe.

Lancaster became an NIH patient only after looking for a CF clinic once he arrived 2 years ago. “I called around for a CF center when I got here, and someone recommended calling Dr. Chernick for her advice. She said, ‘Why not become one of our patients?’ It has worked out very well.”

Lancaster says—almost true to some abstract Peorian ideal—that CF never deterred him from his ambitions. “There was a school nurse in high school who told me I shouldn’t try dental school,” he remembers. “She was the only person who said don’t do it. Cystic fibrosis did make things a little more difficult for me (see sidebar), but I never felt I wouldn’t be able to [become a dentist at an academic medical center]. Until recently.

“In the past year, my health has gotten gradually worse to the point that I’m now on the lung transplant list,” he said.

“He went downhill very quickly,” nods Joanne.

“Now, I’m not sure I’m going to be able to work like I used to,” Henry says.

Notes Joanne, “We brought home oxygen this time [following his most recent hospitalization]—we never did that before. He just never came back to the level we hoped he would.”

During a critical test of lung function at Penn last March, he underwent a measurement called FEV1—forced expiratory volume in 1 second—a major gauge of CF’s ravages. Anything below 30 percent of normal qualifies you for a lung transplant. Lancaster blew a 19.

“It was up in the thirties and forties when we met 8 years ago,” recalls Joanne. “It’s been below 30 for several years, but we never considered a transplant back then. We went through denial,” she declares ruefully. “We did not want to go through major surgery, and problems with rejection and drug therapy. We really didn’t want to have it unless it was the last option. But then we realized that it can completely change your quality of life, to the point

where you have normal lungs. Henry will be able to lead a regular lifestyle.”

Explains Henry, “My biggest reason for not doing it earlier is that transplant was considered a last-ditch effort. I could just forget being able to work, and I’d be tied to the hospital for the rest of my life. But they’ve gotten so much better at it [recently] that you can count on a much better life [after transplantation] than you have now.”

There is no danger of CF recurring in the new lungs; the big worry is rejection. If he gets a transplant, Henry will remain on medication for the rest of his life to prevent this outcome.

Donor organs come chiefly from people who die from head trauma, gunshots and suicide, he explained. Victims of car accidents typically sustain too much damage to

internal organs to contribute viable lungs.

Lungs must be transplanted soon after the donor’s death; matches are made strictly on the basis of body size and blood type—there is no time for tissue-typing.

“You just hope it’s a good match,” he said.

The Lancasters were advised to mount their own fundraising campaign at the suggestion of social work staff at Penn, whose long experience taught them that insurance is never enough in transplant situations. Social workers put them in touch with the National Transplant Assistance Fund, a non-profit agency that serves as trustee for funds raised, to assure they are used solely for expenses directly related to the transplant. Lancaster’s fund is dubbed “The Silver Spring Lung Transplant Fund.”

As inventive at raising money as they are at their research careers, the Lancasters have cast a broad net: last June, Joanne drafted a heartfelt letter outlining her husband’s plight and circulated it to everyone they knew from family, neighborhoods, schools, and workplaces. Their church, First Baptist Church of Rockville, subsequently established a fund for Henry and the youth of the church have held car washes to raise money. Henry’s uncle in Baltimore has hosted poolside barbecues, raffles and golf outings to raise funds; a friend in St. Louis who runs marathons on behalf of charities has taken on Henry’s case for a race next month. In December, Henry’s sister will host a fundraising dinner. Thus far, the fund stands at about \$8,000, said Joanne.

She is particularly excited about the Masur event on Oct. 25 (further details of which will appear in upcoming editions of the *NIH Record*). “I thought with the whole *Riverdance* thing being very popular, people would come see an Irish dancing program,”

**“In the past year, my health has gotten gradually worse to the point that I’m now on the lung transplant list. I’m not sure I’m going to be able to work like I used to.”**

CONTINUED FROM PAGE 5

she said. Since she dances at many festivals, including ones at Glen Echo Park and the Maryland Renaissance Festival, she has many contacts in that world. "We'll have Tir Na nOg (Gaelic for Land of the Forever Young), a group from Baltimore that offers a theatrical presentation. It's about a 45-minute act and features incredible dancing, including step, set and ceili." Her dance instructor, Sean Culkin, will present performances by his young students and his adult dancers. Vendors contributing goods include Fresh Fields, Bruegger's Bagels, and Sutton Place Gourmet. Raffle tickets will be sold for such treats as football games, airline flights and dinner at La Madeleine. A variety of homebaked goods and apple cider will be available at intermission. "R&W, also, has been really helping out with sodas and ticket sales," she added. Tickets will be \$10 and their availability will be announced soon.

Already, the Lancasters are imagining LAT—life after transplant. "I hope to run, bike and jog—all the things I used to enjoy, or have never been able to do before," says Henry. "Just being able to climb stairs easily will be great."

Sighs Joanne, "I want to go to Hawaii and just sit on the beach."

"I'll surf," answers Henry.

An ocean of goodwill at NIH on Oct. 25 will do much to make these dreams a reality. Stay tuned for more details. ■



At the annual NIGMS awards ceremony recently, institute director Dr. Marvin Cassman (c) recognized four employees with the NIH Award of Merit. The recipients were (from l): James Gibson, office automation assistant, Division of Extramural Activities; Patricia Pluchino, lead secretary, Division of Pharmacology, Physiology, and Biological Chemistry; Alisa Zapp Machalek, science writer, Public Information Office; and Caroline Julian, program assistant, Office of Program Analysis and Evaluation. The award is the highest honor that can be granted by an ICD director.

### Moods in Preteens, Teens

You and your 11-14 year old are invited to take part in a research study at the National Institute of Mental Health. The study is about how young people experience emotions, and how bad moods can cause problems. Payment will be provided. For details, call Barbara Usher, 496-1301. ■

### NIH Marks Fire Prevention Week

On Tuesday, Oct. 7, NIH will commemorate Fire Prevention Week with a number of displays and demonstrations held on the Bldg. 31A patio from 10 a.m. to 2 p.m., sponsored by the Emergency Management Branch, Division of Public Safety, Office of Research Services. Fire Prevention Week this year is Oct. 5-11. Some 6,000 people perish in fires and 100,000 more are injured annually. Property losses from these fires are estimated at more than \$10 billion each year. Education and awareness are the best defenses against this peril.

This year's theme is "Know where to go: React fast to fire." Fire safety is important because the risks of fire are real, both in the home and at work. Everyone needs to be vigilant to identify potential fire hazards and correct them immediately. The good news is that most fires can be prevented.

NIH fire suppression and fire prevention staff will display an array of fire detection and suppression devices; provide demonstrations of fire, rescue and hazardous materials response vehicles and the equipment and protective clothing used on campus; and provide a variety of fire-safety and severe weather brochures and other emergency preparedness handouts. Demonstrations and training on fire extinguisher use will be presented by EMB personnel. Additionally, a robot used for handling extremely hazardous materials and explosive devices; two specially trained dogs—one used for arson detection and one for search and rescue efforts—will demonstrate their skills; and a fire safety house, designed to train children how to react in fire emergencies, will be featured.

A number of prizes including fire extinguishers, smoke detectors, carbon monoxide detectors, home fire escape ladders, gift certificates and tickets to local sporting events will be awarded to persons attending the activities. Sparky the fire dog will be present to greet all visitors. Also, the winner of the 1998 Fire Prevention Week slogan contest will be announced. The winning slogan and the winner's name will be featured on next year's Fire Prevention Week posters, which will be prominently displayed throughout campus.

George Starke's Head Hog Barbeque will provide food from 11 a.m. to 1 p.m. Pulled pork and chicken BBQ and pit beef sandwiches with side orders and soft drinks will be featured. All proceeds from food sales will be donated to NIH charities. By participating in this event, you can learn about ways to protect yourself, your family and your coworkers from fire and, at the same time, demonstrate support for the men and women who risk their lives to protect the NIH community. In case of inclement weather, the rain date will be Thursday, Oct. 9. Contact the Emergency Management Branch, 496-1985, for more information. ■

### Bicycle Commuter Club To Meet

The NIH R&W Bicycle Commuter Club will be sponsoring a meeting open to all past, present and future NIH bicycle commuters on Wednesday, Oct. 8 at noon in the Bunim Rm., Bldg. 10 (9th fl., near the main elevators). Topics to be discussed will include bike thefts and racks. If you have suggestions for placement or number of racks or lockers or any other items related to bicycle commuting at NIH, come and present them.

If you can't come but have comments or suggestions or would like to know what was discussed, contact Jay Miller, [jhmill@helix.nih.gov](mailto:jhmill@helix.nih.gov).

## RESEARCH FESTIVAL, CONTINUED FROM PAGE 1

which will be held inside the Natcher Conference Center.

The week kicks off on Monday, Oct. 6, from 8:30-11 a.m. with the Immunology Interest Group symposium "Activation of T Lymphocytes During Host Defense and Disease: The Cell Biology and Biochemistry of Antigen Presentation." Afterwards, a poster session runs in the Natcher lobby from 11 a.m. to 1 p.m., the first in a series of four sessions totaling more than 300 presentations. The posters are followed that afternoon by 10 workshops running concurrently from 1:30-4:30 p.m., followed by a second poster session from 4:30-6:30.

As the opening day of the festival winds down, NIH'ers are invited to attend an evening picnic, also held in the Natcher Bldg., courtesy of the Technical Sales Association (TSA). This year's menu features barbecue-style fare that is sure to be an improvement over the old lunch-box meal. So that enough food may be ordered, picnic-goers are asked to purchase tickets in advance at R&W stores at a cost of \$1 per person. Another picnic will be held on Tuesday evening; separate tickets must be bought for each event. Proceeds benefit the Children's Inn and other NIH charities.

The festival circuit begins anew on Tuesday, Oct. 7 with a morning symposium sponsored by the Structural Biology Interest Group, "Structural Biology and Viral Disease," leading to a second day of posters, workshops and an evening picnic. Throughout the schedule on both days, refreshments will be served courtesy of TSA.

Wednesday, Oct. 8 opens with a final workshop as well as a second edition of the job fair for NIH postdoctoral fellows, cosponsored by the National Foundation for Biomedical Research and the Office of Education. The fair takes place in the Natcher Bldg. lobby from 9 a.m.-1 p.m. and includes information booths staffed by representatives from nearly 20 outside organizations seeking to hire postdocs. Some representatives may choose to arrange afternoon interviews on the spot. All NIH postdocs are welcome; no preregistration is necessary. Interested candidates should bring copies of a curriculum vitae and resumes. For more information about the job fair, contact Shirley Forehand, sf1t@nih.gov.

The lecture portion of the festival concludes on Wednesday afternoon with a special feature, the DeWitt Stetten Jr., Museum of Medical Research 10th Anniversary Symposium—"The NIH Intramural Research Program: Sixty Years in Bethesda." Distinguished present and former NIH intramural scientists will take part in a celebration of the on-campus research effort, said Dr. Allen Spiegel, NIDDK scientific director and chairman of this year's Research Festival. Scheduled to speak are Drs. Robert Berliner, Philip Leder, Martin Rodbell, John Daly, David Davies, Alan Rabson, Stephen

Epstein, Elizabeth Neufeld, Anthony Fauci, Michael Gottesman, Harold Varmus and Victoria Harden, director of the Stetten Museum and cochair of the symposium. This symposium runs from 1:30-5:30 p.m. in the Natcher main auditorium.

On Thursday and Friday, the festival moves outside to new tents erected near the Natcher entrance on Center Drive. There the relocated TSA Exhibit Show will once again hold hundreds of booths with equipment demonstrations, product samples, and plenty of free refreshments, adding a proper grand finale to another NIH Research Festival week.

Program booklets with all the details are being distributed desk-to-desk throughout NIH. An online, interactive version on the World Wide Web can be accessed from the "News and Events" section of the NIH home page. For more information, contact Gregory Roa, 496-1776, email gr25v@nih.gov. ■

### Madrigal Singers Recruit

The NIH Madrigal Singers are recruiting members in all voices to sing a *cappella* music, much of it written before 1650, but with frequent excursions into more recent works. The Madrigal Singers meet on Sundays from 7 to 9 p.m. in Lipsett Amphitheater, Bldg. 10. There are no formal auditions, but some sight-reading is very helpful. For information, call Richard Shrager, 496-1135, during working hours, or just show up and see if you like it. New members should call to check if the rehearsal is on for that week. ■

### DCRT Courses and Programs

All courses are on the NIH campus and are given without charge. For more information call 594-3278.

Parachute Startup for Windows 95	9/23
LAN Services and Email from Parachute	9/23
BRMUG Macintosh Users' Group	9/23
PC Troubleshooting	9/24
PC Troubleshooting	9/25
Fundamentals of Unix	9/30-10/1
NIH Data Warehouse: Property Management	10/1
Electronic Forms Users Group	10/1
Introduction to HTML	10/2
Introduction to Information Systems Security	10/2
Using Photoshop for Acquiring Scientific Images	10/2
Overview of SAS Release 6.12	10/3
Windows 95 Start Up	10/6
Good Web Page Practices	10/7
Windows NT Server Overview	10/7-8
SAS Fundamentals I	10/8-9
Relational Database and Client/Server Access Overview	10/9
Windows NT Startup	10/10



*Polymer drug delivery systems will be the topic of a lecture by Dr. Robert Langer, professor of chemical and biomedical engineering at MIT, on Tuesday, Sept. 30, at 4 p.m., in Masur Auditorium, Bldg. 10. Langer has pioneered the field of controlled release systems for peptides, proteins and other macromolecules. He has received more than 50 major awards, holds hundreds of patents, has published widely, and is the only active member of all three U.S. national academies: the Institute of Medicine, the National Academy of Engineering, and the National Academy of Sciences. The lecture is part of a series entitled "Chemistry: A Life Science," sponsored by the American Chemical Society together with several institutes.*

## Popular Lecture Series for Public Begins

The ever-popular Medicine for the Public lecture series, sponsored by the Clinical Center, kicks off its 21st season on Sept. 23. The lectures, which are free and open to the public, are held at 7 p.m. on Tuesdays in Masur Auditorium, Bldg. 10.

The series features physician-scientists working at the forefront of medical research at NIH. Lectures aim to help laypeople understand the latest developments in medicine, new therapies, diagnostic procedures and research.

As part of the 50th anniversary celebration of the National Heart, Lung, and Blood Institute and 50 years of public support for NIH programs in cardiovascular, pulmonary, and blood research, three of this season's MFP lectures will focus on NHLBI-related research advances.

Here's what's on tap:

**Sept. 23, "Multiple Sclerosis: A New Understanding"**—Dr. Henry F. McFarland, chief of the Neuroimmunology Branch of the National Institute of Neurological Disorders and Stroke, will review factors influencing multiple sclerosis and the signs and symptoms of the disease. He'll lay out the diagnostic tests available, who is most vulnerable, treatments, and recent research findings.

**Oct. 7, "Vision and Aging"**—Today, there are more than 32 million Americans age 65 or older, and this number is growing. With aging, however, comes an increased risk of eye problems that can seriously affect the lifestyle and independence of the older individual. Dr. Robert Nussenblatt, scientific director of the National Eye Institute, will outline the four major eye disorders that can affect vision

later in life. These are glaucoma, cataracts, age-related macular degeneration, and diabetic retinopathy.

**Oct. 14, "Genetics of Lung Disease: Insights into Asthma, Emphysema, and Cystic Fibrosis"**—About 12 million Americans have asthma. Nearly 2 million suffer from emphysema. About 1,000 new cases of cystic fibrosis—the most common fatal genetic disease in the United States—are diagnosed each year. By identifying the genes associated with these serious lung diseases, researchers can pinpoint susceptibility and, ultimately, develop new treatments and cures. Dr. Joel Moss, chief of the Pulmonary-Critical Care Medicine Branch, NHLBI, will talk about recent advances in these areas.

**Oct. 21, "Hormones and Heart Disease After Menopause"**—Heart disease is a leading killer of women over 60, yet until recently it was considered a man's disease. Dr. Richard Cannon, deputy chief for clinical services in the Cardiology Branch, NHLBI, will address the roles hormones play in heart disease and what lifestyle factors are involved in maintaining a healthy heart. He will also discuss the dark side of hormone replacement therapy as well as current research efforts.

**Oct. 28, "New Perspectives for Bone Marrow Transplants"**—Dr. John Barrett, chief of NHLBI's bone marrow transplant unit, will explain what bone marrow transplants are, how they cure diseases, and what lies on the horizon for this life-saving treatment.

There is no lecture on Sept. 30. For more information on topics or speakers, call 496-2563. ■

### Wednesday Afternoon Lectures

The Wednesday Afternoon Lecture series—held on its namesake day at 3 p.m. in Masur Auditorium, Bldg. 10—will feature Dr. Peter Walter on Oct. 1. He is professor and vice chairman, department of biochemistry and biophysics, and HHMI investigator at the University of California, San Francisco. His topic is "Intracellular Signaling from the Endoplasmic Reticulum to the Nucleus."

There will be no lecture on Oct. 8 due to Research Festival 1997.

For more information or for reasonable accommodation, call Hilda Madine, 4-5595.



The lawn behind the Stone House became the biggest drive-in (well, walk-in) movie theater in the county Aug. 16-22 when the R&W, in collaboration with WGAY 99.5 FM, presented the Starlight, Star Bright Film Festival, a fundraiser for several NIH-related charities. "It was more for the fun of it than for the big dollars," said R&W General Manager Randy Schools, who reported that *Twister* was the top draw among the eight films. The free series drew some 12,000 people and raised about \$4,500 from sales of food and beverages, and through donations.