

# The NIH Record

## NIAID Researchers Isolate, Clone Malaria Gene

A team of researchers led by Drs. David C. Kaslow and Louis H. Miller, chief, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, have isolated and cloned the gene that encodes an important malaria protein. This protein is found on the surface of the sexual stage of the malaria parasite *Plasmodium falciparum*, the cause of the most severe type of human malaria. Production of this protein could enable researchers to develop a vaccine effective against the sexual stage of *P. falciparum*. If successful, this type of vaccine would reduce transmission of malaria.

Health officials estimate that 200 million people worldwide have malaria, a very serious mosquito-borne parasitic disease that causes chills, fever, headache, coma, and can cause death. Malaria, mostly found in tropical regions, is believed responsible for one-quarter of the deaths of small children in African villages. Mosquito resistance to insecticides and drug resistant strains of malaria parasites have complicated control efforts. Thus, many scientists believe that a promising route to control of malaria is development of an effective vaccine or combination of vaccines to prevent infection and spread of disease.

To understand the intended effect of malaria vaccines, some knowledge about the parasite and its life cycle is necessary. Malaria is transmitted from person to person most often by mosquitoes, though transfusions of infected blood can also spread the disease. The parasite undergoes a complex life cycle of asexual and sexual stages. A mosquito bite transmits the sporozoite form, which travels to the person's liver where it develops into an asexual form that infects red blood cells. Sexual stage gametocytes (similar to eggs and sperm) develop in red blood cells and are picked up by mosquitoes when they feed. In the mosquito midgut the gametocytes join and form zygotes (fertilized eggs) and develop into ookinetes (a wormlike, mobile form). The next stage is the sporozoite form. Sporozoites migrate to the salivary glands of the mosquito, and are transmitted to a person when the mosquito takes its next blood meal.

Malaria vaccines currently being developed are focused at interruption of various stages of the parasite's life cycle. One type of vaccine—termed a sporozoite vaccine—is designed to prevent malaria infection of liver cells or to prevent development of parasites inside the liver cells. Sporozoite vaccines would prevent the vaccinated person from becoming infected

(See **MALARIA**, Page 4)

## Bax Named Outstanding Young Scientist

Dr. Adriaan Bax, a visiting scientist in NIDDK's Laboratory of Chemical Physics, has been named Maryland's Outstanding Young Scientist for 1987 by the Maryland Academy of Sciences.

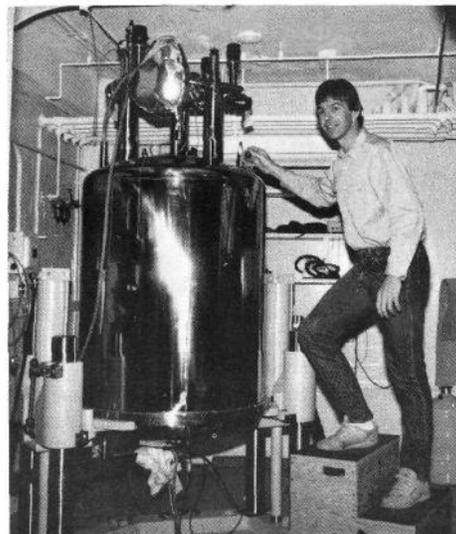
The 31-year-old physicist, who hails from The Netherlands, was cited "for innovations in nuclear magnetic resonance (NMR) including the conception and development of new methods for studying molecular structure."

Bax received the academy's Allan C. Davis Medal and a check for \$1,000 at an awards dinner on May 26.

"My main interest is the development of improved NMR methods for determining the three-dimensional structure of proteins and nucleic acids," he said. Outside interests include competitive rowing and bicycle racing; he has twice placed first in the Oxford, Md., Triathlon.

Until he arrived on campus in the summer of 1983, Bax said, he had not fully realized the extent and quality of basic intramural NIH research. Two things brought him here—Dr. Edwin D. Becker, an interna-

(See **BAX**, Page 2)



Bax uses a 600-MHz magnet built by Britain's Oxford Instruments to take the spectra of biologically interesting proteins. The "big can," as he calls it, costs about \$650,000, only a fraction of its "emotional value" to the physicist.

## Romance in the Convent

### Two Scholars Meet, Fall in Love Via Research

By Anne Barber

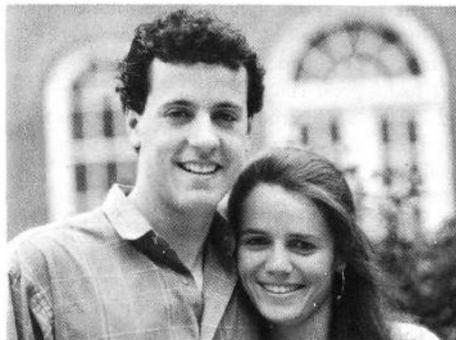
The month of June is traditionally called "Bride's Month" and in keeping with the tradition, two Howard Hughes Medical Institute research scholars will say their vows in the chapel of the now-renovated convent.

Laurie Beitz and Andy Scharenberg met in July of last year, became engaged 6 months later, and on June 19 will become man and wife. Not an ordinary courtship, but then romance is never ordinary.

Neither is it an ordinary chapel in which they will be saying their vows. The chapel is part of the former Convent of the Sisters of the Visitation of Washington that was built in 1923 to house the cloistered order of nuns. NIH purchased the land and buildings in 1983 for \$4.5 million and it was later renovated by HHMI to house research scholars.

Laurie comes from Charlotte, N.C., and attended the University of North Carolina School of Medicine for 2 years before joining HHMI. She received her undergraduate degree from Dartmouth College in New Hampshire.

Andy is from Lafayette, Ind., and received his undergraduate degree from Indiana Univer-



Laurie Beitz and Andy Scharenberg share a moment in one of the gardens at the cloister. The garden will also be the scene for their wedding reception on June 19.

sity; he attended the University of Michigan School of Medicine for 2 years prior to joining HHMI.

Laurie arrived at the institute first and was working for Dr. Simeon I. Taylor, chief, biochemistry and molecular pathophysiology

(See **LOVE**, Page 5)

**BAX***(Continued from Page 1)*

tionally recognized NMR authority, and the potential for good rowing.

"Becker attracted me to this place," he said. "And I wanted to get back into rowing. The science at NIH has been great, with many opportunities for interaction with other scientists." Especially for the NMR of proteins, an up-and-coming field, he sees a lot of potential at NIH.

Bax entered the field of NMR spectroscopy in 1977, while he was a student in the physics department at the Delft University of Technology in The Netherlands.

"I got interested more or less by chance," he shrugged. "They were designing a spectrometer, one of those quite complicated pieces of electronics, and I got involved."

The Delft group created the "world's most flexible" spectrometer, an instrument that was to be used for development of two-dimensional NMR spectroscopy.

"I was lucky, my advisor at Delft met Ray Freeman from Oxford University, who is one of the world's authorities in this field," recalls Bax. "So I spent a few years at Oxford learning the tricks of the trade. I had the good fortune, basically, to be involved with a very dynamic group."

Born and raised below sea level, Bax decided he wanted to see the Rocky Mountains and accepted a job at Colorado State University in Fort Collins.

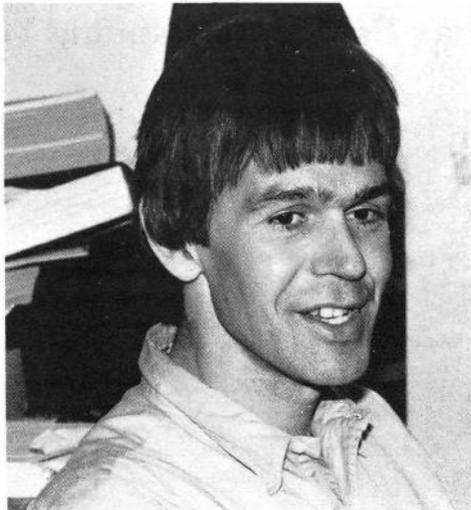
"I wanted to do solid state NMR, not liquid," he said, and Colorado offered not only that but also "the best bicycle racing in the United States outside of California."

"I had a great couple of years there," he said. "The NMR group there was very stimulating and the skiing and bike riding were excellent."

Bax says he was still a physicist in those days. Upon arriving at NIH he turned his attention to chemistry and biochemistry. One of his current projects, for example, concerns elucidating the structure of magainins, infection-fighting peptides recently discovered at NIH by Dr. Michael Zasloff, lately of NICHD.

"Magainins are very nice model compounds for our sort of work," Bax said. "Michael Zasloff wanted to know what the conformation of this thing was. So far, we know that under certain conditions it can adopt an alpha helical structure, but we have not yet completed the detailed conformation of all the side chains."

Bax has no formal training in medicine or biology, but has learned what he needs to know about those fields from his colleagues, who meet Mondays in a journal club. Armed



Dr. Adriaan Bax

with the most powerful commercial magnet in the United States, a 600 MHz instrument, Bax is far more adept at developing new methods for taking the spectra of interesting proteins.

"Some proteins are a lot better behaved than others," he notes, jovially. "They don't all want their NMR spectrum taken."

The scientist/athlete's current schedule finds him sculling with a partner on the Potomac River near Key Bridge at 6 most mornings, followed by 10-hour days (half-days on week-ends) at NIH, almost evenly divided between lab bench and office. He competes for the Potomac Boat Club in both single and double-scull races, but has temporarily put the kickstand under his bike racing career.

Bax and his colleagues publish most of their papers in the *Journal of Magnetic Resonance* and the *Journal of the American Chemical Society*. He intends to remain at NIH—"Now that I have my green card, I can stay as long as I want"—but is much in demand at academic centers around the world.

"I've had at least a dozen job offers the last few years," he said, "but I really like it here."

Bax spoke briefly at the Maryland Academy of Sciences award dinner on May 26 in Baltimore. □

**Mothers Sought for Study**

The Section on Child and Family Research, NICHD, seeks mothers with first-born, healthy infants, 5 months of age or younger, as volunteers for a study of how mothers and babies choose to spend time together. Participation involves one 2-hour visit in your home. Biological, adoptive, employed, and homemaker mothers are needed. For further information, please call Ann Fox, 496-6832. □

**GM Award Winners at NIH June 15**

The 1988 General Motors Cancer Research Foundation Award winners will lecture on their prize-winning research Wednesday, June 15, from 1:30 to 3 p.m. in Masur Auditorium, Bldg. 10.

The three awards recognize basic and clinical scientists throughout the world who have been selected by their peers for achievements in research directed at the discovery of the cause, prevention, and treatment of cancer. Each prize consists of a gold medal and \$100,000.

The three awards are the Charles F. Kettering Prize for outstanding contributions to the diagnosis and treatment of cancer; the Charles S. Mott Prize for outstanding contributions to the causes and ultimate prevention of human cancer; the Alfred P. Sloan, Jr. Prize for outstanding basic science contributions to cancer research. It has been a tradition since 1981 to announce these awards at NIH.

NIH has certified this conference as meeting the criteria for 2 credit hours in category I of the Physician's Recognition Award of the American Medical Association. Requestors of CME credit should be sure to sign the attendance sheet and complete and return the evaluation form located inside the main entrance to Masur Auditorium. □

# The NIH Record

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## Fauci Delivers Kober Lecture

Dr. Anthony S. Fauci, director of NIAID and chief of the NIAID Laboratory of Immunoregulation, delivered the honorary Kober Lecture recently at the joint plenary session of the Association of American Physicians, American Society for Clinical Investigation, and the American Federation for Clinical Research meeting in Washington, D.C.

Fauci described some of the latest research results from his laboratory as well as gave an overview of what is currently known about the mechanisms by which the human immunodeficiency virus (HIV), the cause of AIDS, infects cells and incapacitates the immune system.

He noted that, during the past 20 years, immunologists have discovered a great deal about the regulation of the human immune response. In 1968, for example, interactions between different components of the immune system were virtually unknown. Today, scientists have evidence of extremely complex interactions involving every part of the immune system. The resulting increase in understanding of immunology has enabled researchers to begin to elucidate—in the very short time since the virus was identified—the immunopathogenesis (destruction of the immune response) induced by HIV.

HIV incapacitates the immune system by selectively infecting and destroying one of its most important components, the T4 cells. T4 cells orchestrate the immune response; without functional T4 cells, the immune response collapses. As a result, the immune system cannot defend the body from infectious microorganisms or from certain cancers.

Researchers in the Laboratory of Immunoregulation and other laboratories are examining the role of monocyte/macrophages in HIV infection. Monocyte/macrophages have numerous functions including secretion of chemical messengers, called cytokines, to other cells. Monocyte/macrophages can be infected by HIV, but although HIV kills T4 cells, the virus does not readily kill macrophages. HIV produced by T4 cells can rupture the cell membrane in the process of leaving the cell. Progeny HIV remain inside macrophages, however, which may explain why these cells survive HIV infection.

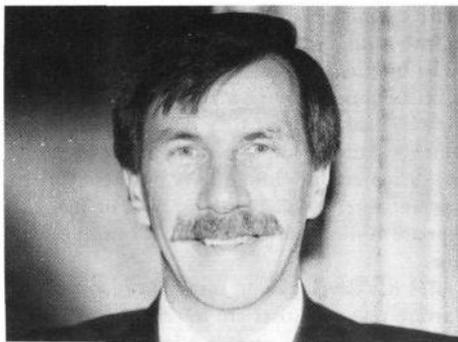
Dr. Thomas M. Folks, a senior investigator in LIR, and others have shown that HIV can infect certain bone marrow cells. These infectible cells have characteristics of immature monocytes—immune system cells that can develop into macrophages. The research team found that HIV can propagate and remain within these bone marrow cells. Thus, these cells in addition to mature macrophages may be reservoirs of HIV.

Fauci and his colleagues are also characteriz-

ing factors that may convert a latent infection to a productive infection. One of the most important AIDS-related questions is "what stimulates latent HIV infection to active infection?" The Centers for Disease Control estimate that 1.5 to 2 million Americans are currently infected with HIV. Most of these people have no clinical symptoms.

Most recently, Folks, Fauci and others have demonstrated how certain cytokines (cellular hormones) stimulate latent HIV to produce progeny HIV. Their experiments indicate that cytokines act on the switch-like long terminal repeat (LTR) region of HIV's genetic material. When the LTR is switched off, no progeny (offspring) viral particles are made. The researchers demonstrated in laboratory tests with human HIV-infected T4 cells that cytokines can switch on the LTR. High levels of some cytokines are present in persons who are infected with microorganisms such as viruses and parasites. Activation of HIV by cytokines may explain in part why concurrent infection with other viruses seems to stimulate progressive HIV infection. Much has been learned about HIV and its detrimental effect on the human immune system, as well as about normal function of the immune response. Fauci and his colleagues are continuing to elucidate the many ways in which HIV affects the immune system. These studies are critical for development of prevention and treatment strategies for infection.

Fauci's lecture was in honor of Dr. George M. Kober, who was a leading clinical researcher at Georgetown University in the early 1900's, and a former secretary of the AAP. It is given once every 3 years by an outstanding clinical researcher at the peak of his or her career. —Sandy Hecker □



*Norman Osinski has been selected for the position of director, Acquisitions Management, OD. His DHHS procurement experience includes 10 years in the NIH Division of Contracts and Grants, and most recently, 6 years in the office of the assistant secretary for health. He will be responsible for supervising the divisions of procurement and logistics.*



*Dr. Martin L. Morin has been appointed deputy director of the Office of Animal Care and Use (OACU), Office of Intramural Research. He succeeds Dr. Thomas L. Wolfle, who has become executive director of the Institute of Laboratory Animal Resources, National Research Council. Morin was formerly associate director for assurance, OACU. The office was established in 1987 to ensure that all intramural programs using animals comply with the relevant federal laws and regulations, PHS policy, and NIH guidelines.*

## Colloquium on Scientific Authorship

On Tuesday, May 31, from 1:30 to 5 p.m., the Foundation for Advanced Education in the Sciences and the NIH Assemblies of Scientists will sponsor a "Colloquium on Scientific Authorship: Rights and Responsibilities," in the Lipsett Auditorium, Clinical Center.

Dr. James B. Wyngaarden, NIH director, will present introductory remarks and then a panel will offer comments on ethical aspects of scientific authorship. Panelists include Dr. DeWitt Stetten, Jr., senior scientific consultant emeritus at NIH; John Maddox, editor of *Nature*; Drs. Arnold S. Relman and Marcia Angell, editor and senior deputy editor of the *New England Journal of Medicine* and Walter Stewart, research physicist with NIDDK.

After presentations by the panel, a period of 90 minutes will be left for open discussion with the audience and, subsequently, a reception for informal discussion. Dr. Alan N. Schechter, president of FAES, will moderate the colloquium.

It is expected that the colloquium will allow free discussion of topics such as pressures to publish, data selection, abuses of authorship, factors predisposing to errors and fraud, and policies for investigation of errors while maintaining due process. All members of the NIH scientific staff are invited to participate. □

## MALARIA

(Continued from Page 1)

A second type of vaccine targets the asexual erythrocytic (red blood cell) parasites, and is intended to prevent or reduce the severity of disease. A third strategy, including the work described here, interferes with the sexual—zygote and ookinete—stage of the parasite. A vaccine against the sexual stage is considered an altruistic vaccine because it does not prevent infection of the vaccinated individual, but prevents spread of the disease to others.

Researchers have already shown that antibodies (protective proteins produced by the immune system) against special surface proteins found on *P. falciparum* zygotes and ookinetes can block transmission of *P. falciparum*. These results indicated that the proteins might be vaccine candidates since they would be expected to stimulate antibody production in the vaccinated person. A vaccinated person infected with malaria would have malaria gametocytes and antibodies against a surface protein on the zygote. Although the antibodies would not have an antimalaria effect in the person, the antibodies could prevent the zygote or ookinete from developing into the sporozoite form in the mosquito. Thus, no sporozoites would be transmitted when the mosquito took its next human blood meal.

To test proteins as vaccine candidates, scientists need to know detailed information about them as well as to obtain large quantities of them. Kaslow and his colleagues isolated enough of the surface protein called Pfs25 (named for its origin and weight) to determine its amino acid (protein subunit) sequence using newly available microsequencing technology. This rapidly evolving technology is enabling scientists to sequence smaller and smaller fragments or quantities of proteins. Much as letters combine in a sequence to make meaningful words and sentences, sequences of certain chemicals create specific genetic information and proteins.

Once the researchers knew the protein's sequence, they devised a way to look for the Pfs25 gene in the parasite's genetic material. They used an innovative series of highly technical steps to piece together the gene's genetic information, or sequence. Other experiments confirmed that they had the whole gene for Pfs25.

Genentech, a biotechnology company in San Francisco, is now making Pfs25 from copies of the gene, and will provide the protein free of charge for use in NIAID vaccine development studies.

If successful, this vaccine would break the transmission cycle of malaria and prevent development of all malaria parasites, including mutants undeterred by more specific vaccines

directed to other stages of the parasite's life cycle. Such a vaccine would prolong the usefulness of combination malaria vaccines that could prevent infection, particularly in areas of the world where incidence of malaria is high. In areas of the world where incidence of malaria is low, a vaccine against the sexual stage of malaria could possibly control or eradicate the disease.

A detailed description of this research appears in the May 5, 1988 *Nature*, and is entitled "A Vaccine Candidate from the Sexual Stage of Human Malaria That Contains EGF-like Domains." The authors are David C. Kaslow, Isabella A. Quakyi, Chiang Syin, Michael G. Raum, David B. Keister, John E. Coligan, Thomas F. McCutchan and Louis H. Miller. □

## Briefings on NIH Patent Policy

Two briefings on NIH patent policy are scheduled next month for interested scientists and administrators.

On June 16 at 9:30 a.m. and the following day at 1 p.m., sessions will be held in Bldg. 10, Masur Auditorium.

The 2-hour briefings will focus on the Federal Technology Transfer Act of 1986, a law designed to encourage government scientists and laboratories to establish cooperative research and development agreements with industry and to share in any royalties on commercial applications that may result. The talks will be tailored specifically for the NIH scientific community.

The law allows NIH scientists to receive a significant share (up to \$100,000 a year) of royalties and license fees derived from patented inventions. Portions of royalty income can also be used to cover administrative expenses incurred during the licensing process, to supplement laboratory appropriations and to reward employees in the lab who helped make the invention a reality.

The briefings are important because NIH scientists must know how to protect the value of intellectual property they develop. Also, scientists must be aware of the impact that publication and disclosure have on their ability to patent intellectual property; poor or inappropriate timing can eliminate all commercial value.

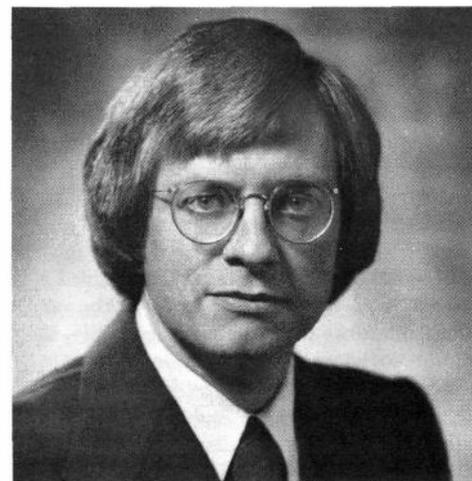
NIH has developed an internal organization to assure that scientists are informed and that mechanisms exist to protect scientists and foster new collaborative efforts. The two June briefings will make these details explicit. Participants will receive a briefing notebook containing NIH patent policy and a description of the patent process.

For more information or to register for the briefings, contact the NIH Training Center, 496-6371. □

## Dr. Daniel Nebert Chosen Ernest E. Sommer Lecturer

Dr. Daniel Nebert, chief of NICHD's Laboratory of Developmental Pharmacology, was selected last month as an Ernest A. Sommer lecturer by his alma mater, the Oregon Health Sciences University in Portland. The university began the lecture series in 1941 to acquaint doctors of the Pacific Northwest with "sound scientific and clinical facts" with "practicability to the profession."

In Portland, Nebert lectured about the molecular biology and clinical applications of genes that encode enzymes in the body that



Dr. Daniel Nebert

break down drugs and other foreign substances. Nebert and his colleagues recently described the genetic events that explain why some people suffer bad side effects from certain drugs. The researchers discovered a genetically based variability in the level of these drug-metabolizing enzymes. The findings may lead to clinical tests that identify who is unable to process certain drugs and may also help to predict which individuals are prone to develop cancer after chronic exposure to specific chemicals.

Past Sommer lecturers have included Drs. Charles A. Janeway, Alfred Blalock, Michael DeBaKey, MacFarlane Burnet, and Leroy Hood. □

## Root for the Birds

Join R&W on Friday, June 3, to see the Orioles play the New York Yankees; and on Friday, June 17, when they take on the Boston Red Sox, at Memorial Stadium in Baltimore.

Cost for each of the trips is \$16 per person, and includes transportation and admission to the game. Buses will leave NIH Bldg. 31C at 5:30 p.m. □

## LOVE

*(Continued from Page 1)*

section, Diabetes Branch, NIDDK, when she spotted Andy unloading his car on July 10 (she remembers the exact date). Laurie walked up to him and started talking.

"That was our first meeting but it was about a month later that we really got to talk more," says Laurie.

According to Andy that was because he was busy looking for a lab to work in and Laurie already had a job. Andy decided on the neural systems section headed by Dr. Daniel L. Alkon in the Laboratory of Molecular and Cellular Neurobiology, NINCDS.

"Neither of us was looking for a relationship because we both knew we would be going back to school after our year here," Andy said.

The HHMI accepts approximately 45 medical students a year, usually after their second year of medical school, and exposes them to research training.

Laurie says, "We never really had a date, we just kind of talked and then Andy went away to Woods Hole, Mass., for a week." According to Andy, Laurie requested that he send her a postcard. "And that got me to thinking, maybe she does kind of like me," he said.

After that Laurie went to Boston to visit an old boyfriend, but after meeting Andy, "he didn't stand a chance," she said.

They began talking about the future 3 months before Andy presented her with an engagement ring on Feb. 9. Andy had already learned her ring size and her preference of diamond cut; he had intended to pop the question on Valentine's Day but changed his mind.

On Feb. 9, both had plans but each was going in a separate direction. Andy was going out with the fellows from work and Laurie was headed to a cocktail party with her coworkers. Laurie went back to change her dress, was picked up by her boss, Taylor, and the two proceeded to Bldg. 10 to pick up the other workers.

Upon arriving at the building, there was a limousine parked outside the front entrance. Laurie recognized some of her friends standing outside the limo taking pictures and also one of the guys getting out of the car. About 15 seconds later, out steps Andy with flowers in hand. He whisked over to Laurie and said, "You are coming with me."

Andy had glasses and champagne waiting in the car. The driver also gave them a bottle of champagne so they wouldn't wind up dry during the drive. They went to dinner at a restaurant in Georgetown and it was over din-

ner that Andy presented her with the ring.

"This whole scheme took me about 2 days to think up and work out the details because about 10 people were involved, including three from her lab," said Andy. "After dinner, we came back and called our parents."

Laurie, one of five girls in her family, is the third one to get married this year. "The others had been dating their eventual husbands for a long time, but I just—boom—and get engaged in 6 months," she says.

After a honeymoon to Bermuda, the couple will come back to finish up their last month at the institute.

Andy has transferred to the School of Medicine at UNC-Chapel Hill, where he and Laurie each have 2 more years of study to complete.

"This wedding will probably be the first and last one to be held in the chapel," says Ann Brannigan-Kelly of the HHMI Cloister Program. "These students received approval from the Convent Use Committee to get married in the chapel because this is their residence.

"Also, it should be noted," she continued, "that no matter what our ages, the committee still believes in romance." □

## Sports Medicine Symposium

"Physical Fitness and Sports Medicine" is the topic of a symposium in the Lister Hill Center auditorium on Thursday, June 9. The symposium is jointly sponsored by the National Library of Medicine, the National Institute of Arthritis and Musculoskeletal and Skin Diseases, and the National Fitness Foundation.

Among those on the program are George Allen, former coach of the Washington Redskins, Dave Butz of the Redskins, tennis professional Tracy Austin, Donna De Varona of ABC Sports, Dr. James A. Nicholas, team physician for the New York Jets, Ken Beatrice of WMAL radio, three BID directors—Dr. Donald A.B. Lindberg, NLM; Dr. Lawrence Shulman, NIAMS; and Dr. T. Franklin Williams, NIA.

The symposium will begin at 9 a.m. and end at 5 p.m. There is no charge to attend the symposium, but those who wish to attend the luncheon must register in advance and pay \$10.

An agenda may be requested from the NLM public information office by calling 496-6308. □



*The National Heart, Lung, and Blood Institute's Office of Prevention, Education and Control running team, the "Arrhythmics," participated in the local Fritzsche's 10K road race recently, representing NHLBI and raising money for the Patient Emergency Fund. Pictured are (from l to r) team members Allison Proctor, Colleen Genovese, Linda Cummings, Sue Rogus and Annette Northcut.*

## Angels Defeat Federal Field

The NIH Health's Angels running team defended its title in the annual Co-Ed Federal Interagency Open held on May 13. The two-mile race was cosponsored by the Agriculture Department's R&W service and the President's Council on Physical Fitness and Sports on the Mall near the Lincoln Memorial.

This year the NIH team saw returning runners Rick Davey (CC), and Tom Roach (OD) with first time members Rick Weindruch (NIA), Maribeth Duffy (NCI), Debbie Katz (NCI), and AnneMarie Jutel (NCI) defeat 49 teams representing most federal agencies.

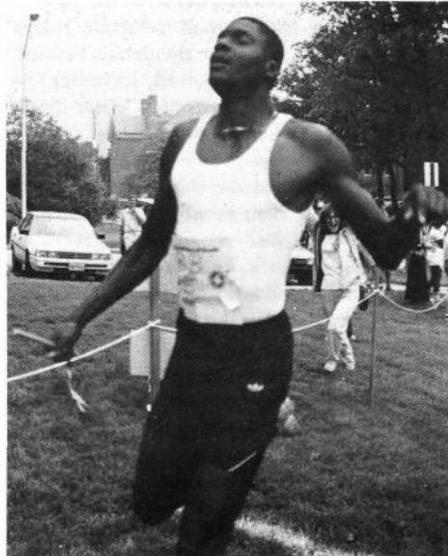
Each team of three men and three women ran the two-mile course with the unique requirement of finishing together as a team. Team depth is important in this type of competition since the team is only as good as its slowest runner.

The Health's Angels strategy was to run the course at each runner's own pace and then wait for the team to assemble just before the finish line. The rest of the field was shocked to see our own AnneMarie Jutel as the overall leader throughout the race. AnneMarie is one of the top female road racers in the Washington D.C. area. The other five Angels fared just as well by finishing among the top 15 runners. Unlike last year's photo-finish victory, the 1988 win by the NIH team came by a wide margin.

The Perpetual Challenge Trophy awarded to the winning team will be kept by NIH for 1 year. Past champions have included the U.S. Army, Department of Transportation, U.S. Navy, and the Veterans Administration. □



NIH director Dr. James Wyngaarden (l) starts the relay by addressing runners through a megaphone. Dr. Peter Pentchev, a race coordinator for Health's Angels, sets his stopwatch to time the first heat.



Tony Brown crosses the finish line, ending the fastest single time in the relay race.

## Heavy Skies Can't Thwart At 11th Annual Institute

Under threatening but nevertheless manageable weather conditions, the NIH Health's Angels held their 11th annual NIH Institute Challenge Relays. A total of 53 teams and 265 runners participated in this year's event.

At noon, NIH director Dr. James Wyngaarden, acting as honorary starter for the first heat, sent the all-female teams and some of the mixed teams on their way around the 1/2-mile course that circled Bldg. 1.

Sheer Energy of NIAID with Janet Dale, Sharilyn Stanley, Chris Grady, Alison Wichman and Gail Gharr won in convincing fashion the all-female division in 15:43.

At 12:30 p.m., Sgt. Reginald Glenn of the NIH Police gave the verbal commands that sent the runners in the second heat on their merry way. The Contralaterals of NIMH with

### 1988 11th ANNUAL NIH INSTITUTE CHALLENGE RELAYS

TIME	TEAM NAME	INST.
13:25	Mixed Masters	NIH
13:49	Vectors	NIH
14:58	Pavement Epithelium	NEI
15:11	Chariots of Fire	NIH
15:44	Biohazards	NCI
15:47	Second Messengers	NINCDS
15:53	Lab Biochemistry	NCI
15:57	Wallerian Degenerates	NINCDS
15:57	Lab Genetics	NCI
15:59	Wild Nine West	NICHD
16:01	5 Easy Aces	NINCDS
16:05	Retarded Gels	NIDDK
16:06	Dyeing Front	NIDDK
16:12	Epitaphs	NCI
16:19	Debits	DFM
16:22	Scatchard Plodders	NIDDK
16:31	Rat Runners	NIMH
16:37	Seedy Bees	NIDDK
16:38	NIH Turkeys	NIH
16:48	Green's Gazelles	NIH
16:53	Cherie's Nickles	DCRT
17:05	Slow Denominators	NIH
17:06	Spirit Seven	NIAID
17:12	PDS Fleet Feets	CC
17:15	Freedman's Flyers	NIH
17:15	10 Feet on Fire	NIMH
17:15	NIH Judo Club	NIH
18:04	Five Rads	NCI
18:06	RHO Runners	NCI
18:32	Burney's Best	NIH
18:56	Kidney Kickers	NIDDK



The all-male division champs were (from l) Todd Hardin, Mark Duncan, Mark Stipetic, Tony Brown (kneeling) and Lloyd Mitchell.

## 't Thwart Light Spirits Institute Challenge Relays

Mark Stipetic, Todd Hardin, Tony Brown, Lloyd Mitchell and Mark Duncan were forced to run a very fast time of 12:05 to win the all-male division.

The Mixed Masters of NIH with Jack Shawver, Judy Bolt, Jeanne De Bolt, Jerry Moore and Lou Mocca won the mixed runner division with a good time of 13:25. The winning team members will have their names inscribed on the Allen Lewis Memorial Trophy.

Special thanks and appreciation is extended to Dick Henneberry, Bill Padgett, Jay Miller, Meryl Pentchev, Tony Brown and the many other volunteers who have helped make the relay race one of NIH's most popular recreational events.—Peter Pentchev □



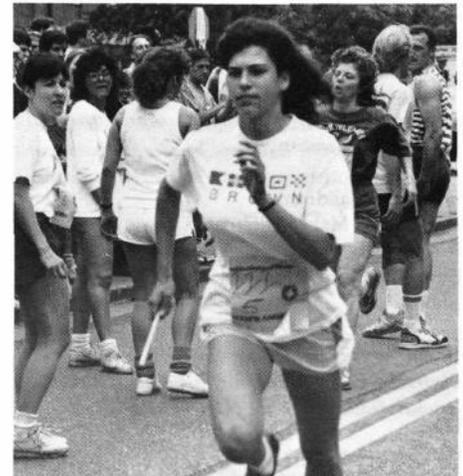
Winning the all-female division were (from l) Alison Wichman, Gail Gharr, Sharilyn Stanley, Christine Grady and Janet Dale.

ALL-MALE TEAMS		
12:05	Contralaterals	NIMH
12:23	Safe Six-1	NIDR
12:55	Blood Brothers	CC
13:29	Easy Runners	NCI
14:04	Tooth Fairies	NIDR
14:23	Enamolies	NIDR
14:24	Til Now	NCI
14:35	ATPacers	NHLBI
15:10	Wurtz Possible Runners	NEI
15:12	Moses Most	NIH
15:16	Service Fleet	DRS
15:29	PDS Packers	CC
15:38	Running Gels	NIAID
15:54	Urine Goodhands	NHLBI
18:53	Numerical Odds	DCRT
19:42	Run R <sub>x</sub>	CC

ALL-FEMALE TEAMS		
15:43	Sheer Energy	NIAID
15:56	Missile Toes	NIDR
16:16	Til Later	NCI
17:27	Arrhythmics	NHLBI
18:01	Mobile Phase	NIMH
19:46	Wolves	DRS



Nail biting and other stress-related behaviors were observed on the part of anxious runners as their teammates completed the half-mile run.



A fresh runner makes her start.



Exhaustion makes an appearance in one runner's face as she passes the baton to a well-rested colleague.



Winners in the mixed runners division were (from l) Jerry Moore, Jody Bolt, Jack Shawver, Jeanne DeBolt and Lou Mocca.

## NIH Honor Awards Ceremony To Be Held June 6

Outstanding accomplishments of various staff members will be recognized by Dr. James B. Wyngaarden, director, NIH, at the Eighteenth Annual NIH Honor Awards Ceremony to be held on Monday, June 6. All employees are invited to attend the ceremony, which begins at 1:45 p.m. in the Masur Auditorium, Clinical Center.

### NIH DIRECTOR'S AWARD

#### Division of Research Grants

Ileen E. Stewart

Health Scientist Administrator

Clinical Sciences Review Section, RRB

*"For exemplary service to the orthopedic, bioengineering and biomedical communications extramural research programs of the NIH."*

#### Division of Research Services

Patricia A. Barnes

Librarian

Library Branch

*"In recognition of sustained exceptional performance, dedicated service and friendly, professional manner in providing research materials for the NIH scientists."*

Edwin A. Landrum

Instrument Maker Foreman

Research Instrumentation Section

Biomedical Engineering and Instrumentation Branch

*"For leadership by example of the Biomedical Engineering and Instrumentation Branch Electronics Fabrication Unit, along with a total personal dedication to the NIH mission."*

Dr. Robert J. Lutz

Chemical Engineer, Chemical Engineering Section

Biomedical Engineering and Instrumentation Branch

*"For the creative application of experimental fluid mechanics to the solution of problems in biomedical research."*

### National Cancer Institute

Dr. Colette S. Freeman

Chief, Cancer Biology Branch

Division of Cancer Biology and Diagnosis

*"For sustained creative leadership and scientific management of the Tumor Biology Program in support of the mission of the National Cancer Institute."*

Ila Janet Maltbie

Supervisory Personnel Management Specialist, PMB

Office of Administrative Management, OD

*"In recognition of contributions to the field of personnel management, in particular in the computerization of personnel functions."*

Dr. Jeffrey Schlom

Chief, Laboratory of Tumor Immunology and Biology

Division of Cancer Biology and Diagnosis

*"For development and utilization of monoclonal antibodies for the diagnosis of cancer."*

Dr. Harold L. Stewart

Emeritus Chief, Laboratory of Pathology and Director, Experimental Animal Tumor Registry

*"For distinguished achievement and outstanding contributions to experimental pathology at the NIH over many years."*

Dorothy Tisevich

Deputy Administrative Officer

Division of Cancer Treatment

*"In recognition of personal dedication and contribution to the administration of the Division of Cancer Treatment."*

### National Heart, Lung, and Blood Institute

Dr. John W. Kusek

Health Scientist Administrator

Prevention, Education, and Research Training Branch, DLD

*"In recognition of superior leadership in the development of research programs in epidemiology and prevention of lung disease."*

Irma Laurice Mebane

Statistician (Health)

Lipid Metabolism-Atherogenesis Branch, DHVD

*"For providing skillful and innovative leadership in development of multi-Institute study of estrogen/progestin combination therapy in post-menopausal women."*

Dr. Kenneth R. Spring

Research Physiologist

Laboratory of Kidney and Electrolyte Metabolism, DIR

*"For outstanding contributions in devising new instrumentation for quantitative light microscopy and video imaging and his experimental approaches for the study of cell volume."*

### National Institute of Allergy and Infectious Diseases

Dr. Thomas M. Folks

Expert

Laboratory of Immunoregulation, IRP

*"For major contributions to the understanding of the pathogenesis of infection with the human immunodeficiency virus and the fostering of collaborative research between Institutes."*

Dr. Claude F. Garon

Chief, Laboratory of Pathobiology, IRP

*"For significant administrative and research accomplishments related to studies on viral and microbial pathogenicity."*

Dr. David L. Klein

Bacterial Vaccines Program Officer

Development and Applications Branch

*"In recognition of exceptional leadership, initiative and judgment in the development and coordination of clinical trials for evaluation of acellular vaccines for Bordetella pertussis."*

### National Institute of Arthritis and Musculoskeletal and Skin Diseases

Dr. Steven J. Hausman

Deputy Director for Extramural Programs

*"In recognition of extraordinary leadership, management abilities and conceptual skills in managing and developing the NIAMS Extramural Programs as Deputy Director."*

### National Institute of Child Health and Human Development

Dr. Gordon Guroff

Deputy Scientific Director

and Chief, Section on Growth Factors, OSD

*"For major contributions to the cell and molecular biology of nerve growth factor, while serving with great distinction in an important administrative role."*

Dr. Kuo-Ping Huang

Head, Section and Metabolic Regulation Endocrinology and Reproduction Research Branch

*"For major research advances in the elucidation of cellular mechanisms of signal transduction and metabolic regulation."*

### National Institute of Dental Research

Frances B. Cannon

Biological Laboratory Technician (Microbiology)

Laboratory of Developmental Biology and Anomalies

*"For exceptional initiative, effort and competence in applying technical skills to a research problem and for skill and enthusiasm in training new postdoctoral fellows and students."*

John P. Patterson

Formerly Executive Officer

*"In recognition of an outstanding career in administrative management and for exceptional commitment and significant contributions to the programs of the NIDR, the NIH and the PHS."*

## National Institute of Diabetes and Digestive and Kidney Diseases

Dr. Judith E. Fradkin  
Chief, Endocrinology and Metabolic Diseases Programs Branch, DDEM

*"In recognition of exceptional contributions to preserving public health by protecting the Nation's blood supply from contamination with the infectious agent of Creutzfeldt-Jakob Disease."*

## National Institute of Environmental Health Sciences

Sandra V. Lange  
Staff Assistant to the Director

*"For extraordinary accomplishments in the overall coordination, development and monitoring of the important new research and training authorities of the Superfund Amendments and Reauthorization Act of 1986 (SARA)."*

## National Institute of General Medical Sciences

Martha Q. Pine  
Deputy Executive Officer

*"For superior performance as Deputy Executive Officer of the NIGMS, and, in particular, the outstanding leadership displayed during her six months as the Institute's Acting Executive Officer."*

## National Institute of Neurological and Communicative Disorders and Stroke

Dr. John R. Marler  
Medical Officer  
Division of Stroke and Trauma

*"For sustained superior performance in administering extremely important clinical trials in the field of cerebral vascular disease."*

Dr. William M. Pitlick  
Deputy Director, Division of Convulsive, Developmental, and Neuromuscular Disorders

*"For the development of new approaches to funding clinical trials."*

Special Efforts in the Recruitment and Employment of the Physically Handicapped Employees in NINCDS, NIH, Group

*"In recognition of special and highest efforts in support of NIH programs through the recruitment and employment of the physically handicapped."*

Janet E. Claggett  
Dr. Richard C. Henneberry  
Wallace C. Holland  
Dr. Barbara J. Potts (formerly with NINCDS and now on staff of NIAID)  
Clifford Schein

## Office of the Director

Anahid Ayrandjian  
Management Analyst  
Office of Intramural Affairs

*"For service of high quality and dedication without stint in executing under great pressure the work of the Office of Intramural Affairs."*

Dr. Cherie L. Fisk  
Special Assistant to the Associate Director for Research Services, Office of Research Services  
*"For leadership and dedication to the establishment of the In Vivo Nuclear Magnetic Resonance (NMR) Research Center as a resource for the entire NIH intramural community."*

Jean S. Gilbert  
Secretary to the Deputy Director, NIH  
*"For sustained superior performance in providing secretarial support and administrative assistance to the Deputy Director, NIH, and other NIH senior staff."*

Geoffrey E. Grant  
Grants Policy Officer  
Office of Extramural Research  
*"For leadership, innovation, and effective communication of grants policy to the NIH extramural staff and the biomedical research community."*

George A. Mendez  
Chief, Printing and Reproduction Branch  
Division of Technical Services  
*"For professional and managerial skills demonstrated by keeping NIH in the forefront of printing and copier technology while improving staff productivity and reducing cost."*

Diane Rose  
Head, Commissioned Officers Staff  
Division of Personnel Management  
*"For achievements in mastering the Commissioned Corps personnel system and making that system serve the best interests of the National Institutes of Health."*

Penelope H. Strong  
Assistant Director for Finance, DFM, OA  
*"In recognition of superior leadership and expertise in managing and executing the NIH finance and accounting program."*

Odus W. Sweat, Jr.  
Chief, Security Branch, ORS, DS  
*"For outstanding contributions to the NIH through his management of the Security Branch, Division of Safety."*

NIH Centennial Observance Activities Group  
*"For superior performance and significant contributions to the NIH during its Centennial Observance."*  
Thomas H. Flavin, OC, OD  
Bonnie R. Kalberer, OSPL, OD

NIH Employees Recognition Day Group  
*"For significant contributions to the NIH Community through the planning and implementation of NIH Employee Recognition Day."*  
Margaret A. Douglas, LAS, DCRT  
Ann G. Mahony, ORS, OD  
Errol L. Patterson, DCT, NCI  
Randolph R. Schools, NIH Recreation and Welfare Association, Inc.  
Fu Sing Wu Temple, OD, NIGMS

Mass Media Activities at III International Conference on AIDS Group  
*"For superior performance in the successful operation of all mass media activities at the III International Conference on AIDS."*  
Geraldine W. Blumberg, DPI, OD  
James A. Bryant, OD, FIC  
Maureen R. Mylander, DPI, OD  
Donald M. Ralbovsky, DPI, OD  
Marc L. Stern, DPI, OD

Administrative and Secretarial Support to the Office of the Associate Director for Administration, NIH, Group  
*"For dedication, professionalism, and resourcefulness in efficiently providing a wide range of administrative and secretarial support to the Office of the Associate Director for Administration, NIH."*  
Rebecca L. Brown, ADA, OD  
Bonnie J. McKenzie, ADA, OD

## OUTSTANDING SERVICE MEDAL

National Cancer Institute  
Thomas P. Cameron  
Veterinary Officer  
Special Assistant for Environmental Cancer  
Division of Cancer Etiology, OD  
*"For continuous outstanding contributions to investigations of chemical carcinogenesis and for development of collaborative agreements with various Federal agencies."*

J. Paul Davignon  
Pharmacist Director  
Chief, Pharmaceutical Resources Branch, DTP  
Division of Cancer Treatment  
*"For sustained performance as a manager of a comprehensive pharmaceutical program supplying high quality antitumor agents for clinical tumors."*

Richard J. Hodes  
Medical Director  
Chief, Immunotherapy Section and Deputy Branch Chief, Immunology Branch  
Division of Cancer Biology  
*"For elucidation of mechanisms of cellular interactions in the immune response."*

## AWARDS

(Continued from Page 9)

Elaine S. Jaffe  
Medical Director  
Deputy Chief, Laboratory of Pathology and Chief, Hematopathology Section  
Division of Cancer Biology and Diagnosis  
*"For outstanding research discoveries in the field of human lymphoma diagnosis and classification."*

Kurt W. Kohn  
Medical Director  
Chief, Laboratory of Molecular Pharmacology, DTP  
Division of Cancer Treatment  
*"For meritorious investigations of the molecular pharmacology of antitumor agents and important discoveries relating to mechanisms of their interaction with DNA."*

David L. Nelson  
Medical Director  
Head, Immunophysiology Section, Metabolism Branch  
Division of Cancer Biology and Diagnosis  
*"For discovery of serum form of interleukin-2 receptors and development of practical receptor assays of value in care of patients with cancer or organ allografts."*

Joost J. Oppenheim  
Medical Director  
Chief, Laboratory of Molecular Immunoregulation  
Frederick Cancer Research Facility  
*"For investigations in immunobiology and molecular immunology leading to significant advances in our knowledge of immunity, oncology and the role of cytokines in host defense."*

Andrew R. Tartler  
Health Services Officer  
Assistant Administrative Officer, COP  
Division of Cancer Treatment  
*"In recognition of exemplary administrative support to the mission of the National Cancer Institute, and the understanding of the treatment of cancer."*

Timothy J. Triche  
Medical Director  
Chief, Ultrastructural Pathology Section, LP  
Division of Cancer Biology and Diagnosis  
*"For outstanding research contributions to the pathobiology of childhood tumors leading to improved diagnosis and treatment."*

John N. Weinstein  
Medical Director  
Chief, Theoretical Immunology Section, LMB  
Division of Cancer Biology and Diagnosis  
*"For highly significant contributions to theoretical and experimental studies of targeted agents leading toward development of advanced therapies for cancer and AIDS."*

David A. Zopf  
Medical Director  
Chief, Biochemical Pathology Section  
Division of Cancer Biology and Diagnosis  
*"For outstanding research in carbohydrate chemistry leading to new understanding of the structure and biosynthesis of tumor carbohydrate antigens."*

National Heart, Lung, and Blood Institute  
Ronald C. Crystal  
Medical Director  
Chief, Pulmonary Branch, IR  
*"For outstanding contributions in understanding the chronic inflammatory and immune processes in the human lower respiratory tract and leadership in basic and clinical pulmonary research."*

National Institute of Allergy and Infectious Diseases  
Allen W. Cheever  
Medical Director  
Assistant Chief, Laboratory of Parasitic Diseases  
*"For a sustained record of key research contributions in pathology and pathogenesis of schistosomiasis, and for collaborative and administrative support of trainees in parasitology research."*

Lewis J. Markoff  
Medical Director  
Medical Officer, Laboratory of Infectious Diseases  
*"For conceiving and implementing antigenic analysis of the dengue virus envelope glycoprotein using synthetic peptides to identify linear epitopes."*

Brian R. Murphy  
Medical Director  
Head, Respiratory Viruses Section, LID  
*"For conceiving, developing and successfully evaluating a new genetic approach to attenuation of influenza A viruses for the purpose of immunoprophylaxis."*

Thomas C. Quinn  
Senior Surgeon  
Senior Investigator, Laboratory of Immunoregulation  
*"For outstanding contributions in the study of the epidemiology and natural history of HIV infections in the international community."*

National Institute of Child Health and Human Development  
Antonia C. Novello  
Medical Director  
Deputy Director  
*"For outstanding initiative and leadership in increasing public awareness of AIDS in pediatric populations, and for promoting outreach to minorities and health care professionals."*

National Institute of Dental Research  
Anthony A. Rizzo  
Dental Director  
Chief, Periodontal and Soft Tissue Diseases Branch  
*"In recognition of many years of outstanding service, first as deputy director and subsequently as program chief, to extramural program of the National Institute of Dental Research."*

National Institute of Diabetes and Digestive and Kidney Diseases  
Allen M. Spiegel  
Medical Director  
Chief, Molecular Pathophysiology Section, MDB  
*"For important contributions to understanding the roles of signal-transducing guanine nucleotide binding proteins including pioneering studies of their biological activities, their purification, their distribution, their synthesis, and their involvement in diseases."*

National Institute of Neurological and Communicative Disorders and Stroke  
Mark Hallett  
Medical Director  
Associate Director for Branches and Clinical Director  
*"For taking a leadership role in the organization of the Clinical Neurosciences Program and for dedication to high quality patient care and teaching within the Program."*

Carl M. Leventhal  
Medical Director  
Director, Division of Demyelinating, Atrophic, and Dementing Disorders  
*"For outstanding service displaying unique scientific and administrative skills in directing a multidisciplinary research program in Demyelinating, Atrophic, and Dementing Disorders."*

National Library of Medicine  
Daniel R. Masys  
Medical Director  
Director, Lister Hill National Center for Biomedical Communications  
*"For continued leadership and skill in planning and implementing a diversified research program which applies information technologies to the pressing communications needs of scientists, educators, and practicing professionals."*

## Office of the Director

Thomas L. Wolfe  
Veterinary Officer  
Deputy Director, Office of Animal Care and Use

*"For leadership in the development of U.S. Government coordination and guidance in the utilization and care of animals used in testing, research, and training."*

## NIH EEO Achievement Award of the Year

Dr. Hynda K. Kleinman  
Research Chemist  
Laboratory of Developmental Biology and Anomalies  
National Institute of Dental Research

*"For sustained contributions of time and effort to the equal employment opportunity principles of the NIDR and the NIH."*

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

Gerald A. Fells  
Biologist  
Pulmonary Branch, DIR  
National Heart, Lung, and Blood Institute

*"In recognition of contributions to the advancement of the principles and practices of equal employment opportunity and affirmative action."* □

## Training Center Sponsors Management Tactics Clinic II

The NIH Training Center will hold Management Tactics Clinic II on June 9. This 1-day session of seminars is designed to help NIH employees deal with pervasive issues in their work environment, especially in a time when the workload is up yet resources are down.

The feedback from last year's participants was so positive that the 1988 clinic has been expanded. Talented and respected leaders in various management fields will present concepts, models, and techniques that employees will be able to utilize immediately in confronting resource management challenges. Along with providing a broad array of presentations, the Training Center is also offering a state-of-the-art "Film Festival." Best yet, the clinic is offered again free of charge.

The following practical and informative sessions will be provided:

### MANAGERIAL USES OF COMPUTER TECHNOLOGY—Patricia DiVecchio

An approach will be offered to create an understanding of the office information flow, the computer hardware, software and employee interactions with the automated process in today's computerized office.  
10:30–12:00  
2:30– 4:00

### BEHAVIOR MANAGEMENT—Dr. Al S. Fedoravich

A model will be offered that encourages behavior adjustment and also demonstrates how this can be consistent with high levels of productivity.  
8:45–10:15  
2:30– 4:00

### BEING CREATIVE ON THE JOB ... YES, YOU CAN!!!—David Oldfield

You can try your hand at samples of underutilized, creative techniques—and learn some of their practical benefits to job performance.  
8:45–10:15  
12:45– 2:15

### NETWORKING—Dr. Jackie Sheridan-Barnett

Practical strategies will be provided for constructive approaches to the politics in our work environment.  
10:30–12:00  
2:30– 4:00

### IT TAKES ALL KINDS—Winanne Kreger

Here is an opportunity to be introduced to the Myers-Briggs Type Indicator. Better known as "MBTI", this systematic model of the personal differences we find in the workplace is an enjoyable way to discover that differences are okay.  
2:30– 4:00

### THE JOY OF WRITING—Myra Shulman

Techniques that will sharpen your skills and make writing a more enjoyable experience will be provided in this seminar.  
10:30–12:00  
12:45– 2:15

### POSITIVE POWER AND NEGOTIATION—Dr.

William LeClere

This session will include both research on characteristics of successful negotiators and techniques for using negotiation effectively on an informal basis.  
8:45–10:15  
2:30– 4:00

### HANDLING JOB CONFLICTS—LARGE OR SMALL—Ralph Bates

You will explore root conditions that contribute to interpersonal conflict and the potential for creating win-win outcomes when appropriate.  
8:45–10:15

### COACHING: THE MISSING "SOMETHING" IN ORGANIZATIONS—Dr. Charles Smith and Ann Adams

A videotaped discussion among George Allen, Red Auerbach, John Wooden and Tim Galloway will spark your own job applications of that "something special" coaching can bring to performance.  
10:30–12:00  
12:45– 2:15

### MANAGING STRESS—Dr. Lorraine Boykin

You will be provided with practical strategies for handling stress both on and off the job—understanding it, recognizing how it affects our bodies, how to control it, live with it, and actually make it work for you.  
8:45–10:15  
12:45– 2:15

### STRAIGHT TALK FOR PERFORMANCE IMPROVEMENT—Dr. Richard Brandon

A skill will be provided which will show you how to prevent most performance problems by conducting clear, commitment-oriented agreement discussions.  
10:30–12:00  
12:45– 2:15

### PUBLISH OR PERISH—Dr. Lester Hoffman

Unique and creative techniques will be presented on how to make it easier to turn initial data and research reports into papers for publication—the dilemma of every biomedical researcher!  
2:30– 4:00

### WALK A MILE IN MY SHOES INTERCULTURAL RELATIONS—Dr. Margaret Newman

Strategies will be provided for handling cross-cultural language barriers and an emphasis will be placed on the value of recognizing and dealing with non-verbal communications.  
10:30–12:00

All seminars are to be conducted within the NIH Training Center conference room area, Bldg. 31, B2C wing level. Exact location of individual seminars will be posted at the registration desk—Bldg. 31, B2C on June 9.

For further information, or assistance with your training needs, call 496-6371. □

## TRAINING TIPS

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

<i>Courses and Programs</i>	<i>Dates</i>
<i>Management and Supervisory</i> 496-6371	
Networking: Silent Politics	6/7
Practical Management Approaches	6/16
Attitudes: How They Affect Productivity	6/15
Practical Management Approaches	6/16
Pragmatic Problem Solving	6/30
Effective Listening	6/27
The Management Tactics Clinic	6/9

*Office Skills* 496-6211  
Time and Stress Management for Support Staff 6/13

*Office Automation* 496-6211

Intro to Lotus 1-2-3 Macros 8/3

*Adult Education* 496-6211

*Training and Development Services* 496-6211

Personal Computer training is available through User Resource Center (URC) self study courses. There is no cost to NIH employees for these hands-on sessions. The URC hours are:

Monday–Thursday	8:30–9:00 p.m.
Friday	8:30–4:30 p.m.
Saturday	9:00–3:00 p.m.

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## Annual Picnic Held June 12

The R&W annual family picnic is being held on Sunday, June 12, from noon until 6 p.m. at the Bethesda Naval Hospital Picnic Area. Ticket prices are \$2 for R&W members; \$4, R&W member and spouse; \$5, R&W member and immediate family; and \$5 for guests. □

## Fire's Aftermath Gravest for County Fireman

A Montgomery County fireman from the Bethesda Fire Department on Cedar Lane was seriously injured battling the May 11 blaze in the NIH Visitor Information Center, located in Bldg. 10.

Terry Hill was among the first firefighters on the scene after the fire broke out at about 6 a.m. in a 15-year-old exhibit on animals in research.

"He was in the second-floor cafeteria searching for the source of the thick smoke caused by the fire," said Tom Flavin, NIH special projects officer. "He crawled over a wall and must have thought there was a floor on the other side. He fell about 17 feet into a lounge area and injured his back and hip."

Hill was wearing a 60-pound air bottle on his back and was helmeted at the time of the mishap. He suffered a broken back and hip, a bruised heart and also has neck problems.

The fire is believed to have resulted from an electrical malfunction with a transformer that supplied power to a timer built into the animal research exhibit. Power to the exhibit was on at all times, said J.P. McCabe, chief of the Division of Safety's fire prevention section.

"The timer was not part of the original exhibit," Flavin noted. "But it is the oldest exhibit we have and is much-traveled. Sometime during the last 3 to 6 years, a timer was installed."

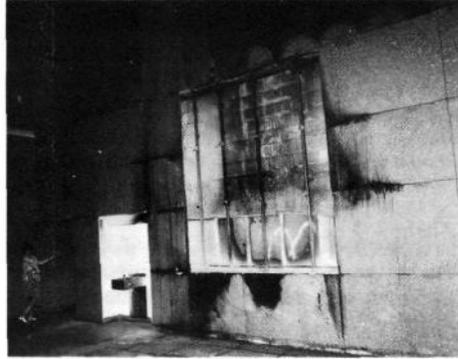
It appears that the overheated timer sparked a blaze that engulfed the exhibit's plexiglas exterior. Flames jumped dozens of feet into the air and thick smoke filled the VIC. "The material contributed greatly to the production of the thick, black smoke," McCabe said. Adjacent exhibits were also damaged, including several brand new ones that were to be the centerpieces of a newly renovated VIC that was to have opened late this month.

"That's the irony of this thing," said a haggard Flavin. "We had pushed and pushed to get the VIC renovated and had just added five new exhibits the night before the fire."

Although flames caused the most dramatic damage, smoke, ash and water also harmed the VIC.

"All of our offices were ankle-deep in water after the fire," said Bill Fedyna, a VIC public affairs specialist. "Initially, everyone on the staff was discouraged—I can only wonder how people feel whose houses burn. But after the shock wears off you feel a resolve to pitch in, make repairs and carry on."

Initial repairs will include building a temporary wall to cover a hole in the granite facade against which the animal exhibit stood; the stone facing will be permanently replaced sometime during the summer. The ceiling over the VIC was damaged by smoke and



*Fire resistant gypsum board located behind VIC's granite facade helped contain fire. Heat from the fire melted part of the water fountain at left. Firefighters from both the NIH Fire Department and the county responded to the May 11 fire.*

water and must be repaired; glass windows in the roof must also be cleaned.

Each of the eight employees on the VIC staff must cope with disruptions wrought on files, papers and rugs by ash clouds and water. And by the odor of air fresheners used to combat the stench of smoke.

"The first few days after the fire, a lot of the cleanup work was done by the staff here," said Fedyna. "We've also witnessed a steady flow of fire officials and architecture-engineer experts through the VIC. They might be using it as a sort of classroom example."

Flavin pointed out one thing he learned from the fire marshals—panels of fire-resistant gypsum board behind the VIC granite.

"The gypsum did its job stopping the fire," he said. "If it hadn't been there, the fire might have spread into the adjacent storage room and then into the hospital."

He is intent on making certain that the "new VIC" will be as fireproof as possible. Displays will be required to be constructed of fire retardant material and approved by the NIH Fire Prevention Section prior to being installed. Power to the displays will be required to shut off during the night.

A formal investigation of the fire is being conducted by the Fire Prevention Section and NIH Fire Department from the Emergency Management Branch, DS. The FPS recommends that the VIC atrium be equipped with an early warning smoke detection system. Four sprinkler heads located 35 feet above the fire were activated on the day the blaze.

"Smoke conditions were noted on 12 floors of the hospital as a result of smoke doors being propped open with non-approved door chocks," McCabe said. □

## Conference on Dental Implants Scheduled

The NIDR, in conjunction with the NIH Office of Medical Applications of Research and the Food and Drug Administration, is sponsoring a Consensus Development Conference on Dental Implants. Scheduled for June 13-15 in Masur Auditorium, the conference will explore the benefits and risks of dental implants and future directions for research.

A dental implant is a device placed on or within the bone to replace missing teeth. Implants are becoming an important component of modern dentistry as alternatives to removable full and partial dentures and traditional fixed bridges. The use of these devices is expected to increase dramatically in the future. Although there are several different types of implants now available, it is not clear whether there is an implant device appropriate for every patient situation, nor are the long-term efficacy and safety of the most widely used implants clearly established.

There is also a need to explore the health risks of dental implants, as well as the indications and contraindications for the various types of devices. In addition, conference participants will examine the requirements for surgical, restorative and periodontal management of patients with implants. Other key issues include future directions for research on materials and designs of dental implants, and on clinical management.

The conference will bring together a variety of specialists in the dental field, as well as other experts in orthopedics, bone biology, statistics, biomaterials science, bioengineering and representatives of the public. Following 2 days of presentations by dental and medical experts and discussion by the audience, a consensus panel will weigh the scientific evidence and formulate a draft statement. The consensus statement will be read on the final day of the meeting, and there will be an opportunity for comments and questions at that time.

The 2½ day conference is open to the public and registration is free. Sessions will run from 8:30 a.m. to 5 p.m. Monday; 8:30 a.m. to 1 p.m. Tuesday; and 8:30 to 10:30 a.m. Wednesday, followed by the reading of the consensus statement and press conference at noon.

To register or to obtain additional information, contact Kathleen Edmunds, 468-6555. □