

The NIH Record

One Match in 20,000

Bone Marrow Recipient, NIH Donor Meet

By Carla Garnett

After beating 1 in 20,000 odds, bone marrow recipient Celine LaRochelle was euphoric, energized and most importantly, healthy.

With such high stakes odds, finding a match for successful bone marrow transplantation (BMT) can easily be compared to picking the winning combination in the lottery. As might any other chance-of-a-lifetime winner, LaRochelle wished she could meet the man who "sold her the ticket"—the donor of her now-healthy bone marrow. Recently, her wish was granted.

The story behind this page in NIH bone marrow history began just 2 years ago.

In July 1988, LaRochelle, a 28-year-old native of Canada, was diagnosed with aplastic anemia, a critical disorder in which the bone marrow stops producing certain necessary blood elements. She was told that she had only a 10 percent chance of living through Christmas and that her long-time survival depended on replacing the diseased marrow with new, healthy marrow—BMT, a relatively new treatment that was first used successfully in 1968.

For BMT to work, the healthy replacement marrow must match, or at least be compatible with, the diseased marrow. Chances of

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RAC Approves First Human Gene Transfer Therapy

By Rich McManus

Approval for the first experiments involving transfer of human genes for therapeutic purposes was granted July 31 by the NIH recombinant DNA advisory committee (RAC) to a team of investigators led by Drs. W. French Anderson, R. Michael Blaese and Steven A. Rosenberg.

"This is a truly historic occasion," said RAC chairman Dr. Gerard J. McGarrity, president of the Coriell Institute for Medical Research. "Review of these protocols has been a long and arduous process, both for the committee and the investigators. No one can say where this field of medicine is going in the future, but we've reached the end of the first chapter."

"We have certainly been put through the wringer," said Anderson. "The public can be very comfortable with the intense review process that has taken place."

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Dr. Anthony S. Fauci, NIAID director, chats with D.C. public school students during lunch at the recent Asthma Awareness Day for Family and Friends. More than 500 parents, teachers and children attended the 3-hour program. See story and additional photos on page 3.

Diggs Named Deputy Director For Extramural Research

Dr. John W. Diggs has been appointed NIH deputy director for extramural research, a position formerly held by Dr. Katherine Bick, who left NIH for private industry last March.

Diggs had been director of the Division of Extramural Activities at NIAID since 1982.

In his new position, Diggs will direct the development and implementation of NIH policies and procedures for awarding funds for biomedical research and provide policy guidance for NIH components that make grants and contracts. The responsibilities of the Office of Extramural Research also include human subjects protection, animal welfare, research training policies, institutional liaison, invention reporting and coordination of research funding for small businesses.

Diggs received his doctoral degree in physiology in 1972 from Howard University. His postdoctoral work included serving as a senior research physiologist at the Walter Reed Army Institute of Research. In 1974, Diggs transferred to NIH as a health scientist administrator in the office of the associate director of the National Institute of Neurological Diseases and Stroke and remained there until 1982.

His numerous awards include Presidential Meritorious Executive Rank Award (1987),

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NINDS Grantees Locate Gene For Neurofibromatosis 1

By Stephanie Clipper

Grantees of the National Institute of Neurological Disorders and Stroke have identified the gene for neurofibromatosis 1, or Von Recklinghausen neurofibromatosis, the most common nervous system disease caused by a single gene defect.

Led by Dr. Francis S. Collins, a team of scientists at the University of Michigan found the gene for the disorder on chromosome 17 near two translocation mutations, rare occurrences where a chromosome breaks and exchanges bits of information with another chromosome. Discovery of the gene may lead to a diagnostic test, which will allow earlier detection and treatment, although it will not help to predict severity.

"It is particularly gratifying to have this development come out this year as we begin the Decade of the Brain," Collins said at a press conference coinciding with the study's July 13 publication in *Science*. Simultaneous publication in *Cell* of the gene's discovery by the University of Utah's Dr. Raymond White confirmed Collins' results.

Neurofibromatosis 1 (NF1) is often characterized by central nervous system tumors and learning defects. As many as 100,000 Americans have the disorder, which affects about 1 in every 4,000 newborns. The disease is often undetected until after age 4 or 5. Neurofibromatosis previously gained wide public attention over the tragic circumstances of the Elephant Man, but health experts have since concluded that Joseph Merrick had another disfiguring disorder, Proteus syndrome.

According to Collins and his colleagues, the NF1 gene is expressed in all body tissues, and it possesses an unusual structure. It is comprised of a large gene, running in the direction of right to left, which has three smaller genes embedded within, running in the opposite direction. The investigators believe the gene to be approximately 300,000 base pairs long.

The scientists hope to complete sequencing within a few months, and then to learn more about the gene's mechanism. There is some evidence that the gene may act to suppress tumor growth, and investigators want to learn how the damaged gene causes NF1 and if it plays a role in some common malignancies. Ultimately, the gene discovery may result in more effective treatments such as new drugs or a replacement for a genetically altered protein.

Additional studies may allow investigators to discover why the NF1 gene has such a high spontaneous mutation rate—one which is

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GENE THERAPY

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The first of the approved experiments will treat severe combined immunodeficiency (SCID) due to a deficiency of adenosine deaminase (ADA) with a patient's own white cells into which the human ADA gene has been inserted. Ten children with ADA, a single-gene disorder, will form the initial study group.

The second gene therapy trial given the nod by the RAC is Rosenberg's attempt to treat patients with advanced cancer with their own TIL (tumor infiltrating lymphocytes) cells that have been transduced with the gene coding for tumor necrosis factor (TNF).

Both trials may begin at NIH as early as the fall.

Before the RAC gave its approval on July 31, a special panel that it convened—the human gene therapy subcommittee—voted on July 30 to allow the work to commence. Experts from across the country debated possible side effects and worst-case scenarios but emerged convinced that the NIH investigators were prepared for most any outcome.

The two landmark studies were preceded on May 22, 1989, by the first approved experiment that involved transfer of cells containing foreign genes into humans. That work, also accomplished by collaborators Anderson of NHLBI and NCI's Blaese and Rosenberg, was intended only to track the progress of TILs in the body; the gene transfer itself conferred no therapeutic benefit. By contrast, the new work involves genes that are engineered to perform a specific, curative mission.

"Medicine has waited a thousand years for this historic moment," McGarrity observed. He said the RAC had met its responsibility to "make gene therapy as safe as humanly possible."

RAC approval is not in itself official permission to conduct the trials. As an advisory panel to the NIH director, the RAC merely makes recommendations. But its go-ahead is normally enough to pave the way to new work and is considered, along with FDA approval, among the last of the formal hurdles for innovative experiments involving recombinant DNA. □

Research Subjects Needed

Earn up to \$260 for learning to discriminate the effects of one drug from another. Minimum time required during a 7-week period. Involves only commonly prescribed drugs and minimal effort. You must be between 21 and 50 years old and in good health. For further information call 295-0972, Uniformed Services University. □

FAES Offering Stipends

FAES is administering special funds known as Wellcome Stipends to augment the stipends of postdoctoral level guest workers at NIH. Depending on the total funds that are available and the number of eligible applicants, a maximum of \$3,600/year (\$300/month) may be granted to each approved individual as an income supplement to a maximum total family income of \$15,000/year plus \$1,000 for each dependent including spouse.

The selection committee will consider the scientific merit of the research to be conducted as well as need and professional qualifications of the applicant.

Awards will be made twice a year, Mar. 31 and Sept. 30 for the 12-month period beginning Apr. 1 and Oct. 1, respectively.

Applications for 1990 must be received in the FAES office on or before Aug. 24 for the September awards. Applications are now being accepted.

Additional application forms are available from the FAES business office, Bldg. 10, Rm. BIC18 or by calling 496-7976. □

Infant Care Available at NIH

Full-time child care for ages 2 months to 3 years is available at ChildKind at NIH in Bldg. T-46. Openings are now available for ages 18 to 36 months. ChildKind is open to children regardless of race, religion or national origin. Hours are 7:30 a.m. to 6 p.m. For more information call 496-8357. □



Dr. Loritta Watson has recently become a program administrator in the Minority Biomedical Research Support Program of the National Institute of General Medical Sciences. Prior to this appointment, she served as executive secretary of NIGMS' Minority Biomedical Research Support review subcommittee. She also held a similar position in the former Division of Research Resources when the MBRS program was part of that organization. Watson received her Ph.D. in zoology from Howard University and early in her career worked at the Naval Medical Research Institute doing microbiological research.



Dr. Robert C. Gallo, chief of NCI's Laboratory of Tumor Cell Biology, was one of eight scientists honored for outstanding achievements in laboratory science by the American Association for Clinical Chemistry (AACC). He received the National Lectureship Award from the AACC at its recent international congress in San Francisco. Gallo was cited for pioneering the field of retrovirology and for discovering T-cell growth factor, or interleukin-2.

The NIH Record

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NIAID Cosponsors Asthma Awareness Day at Howard University

Illness and deaths from asthma have been increasing recently in the United States, and children who live in the inner city are particularly affected.

Because of the urgency of this problem, the Howard University College of Medicine and Hospital and the National Institute of Allergy and Infectious Diseases recently sponsored a 1-day, city-wide Asthma Awareness Day for Family and Friends. The health fair was held on the campus of Howard University for more than 500 students from the District of Columbia schools.

"Asthma Awareness Day was designed to help parents and children better cope with asthma and allergies," said Dr. Charles H. Epps, dean of Howard's college of medicine, who welcomed the participants. "We want our children with asthma and allergies to feel special."

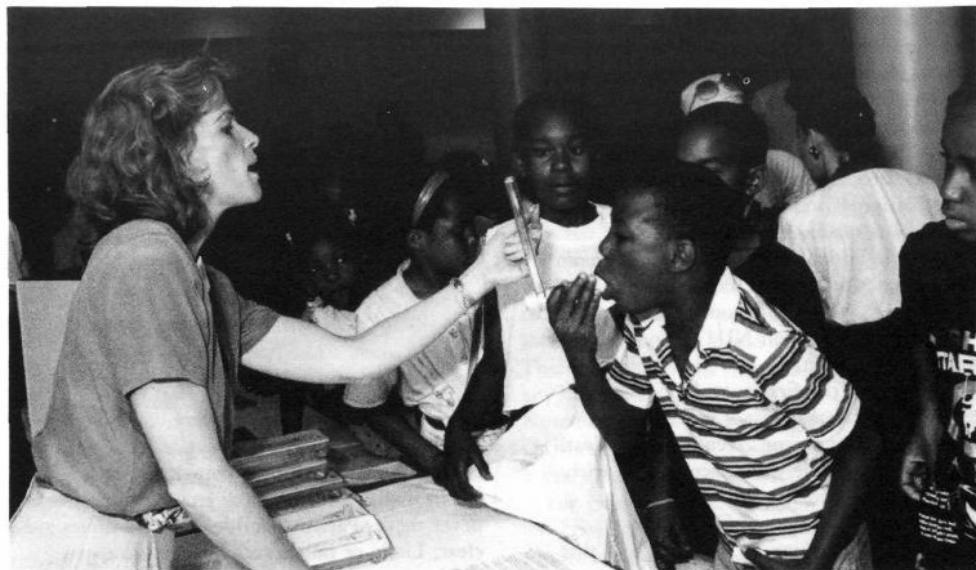
Susan Kidd of WRC-TV moderated the program and expressed her personal interest in the subject. Kidd said she, her husband and their two sons all have asthma. She introduced Dr. Anthony S. Fauci, director of NIAID, who spoke briefly about the role of research. "Regular medical care and appropriate medicines can help control asthma," said Fauci. "Research scientists are looking for even more effective medicines to help you."

Other guests included Rep. Steny H. Hoyer, who talked about his experiences with asthma. Dr. Franklin G. Jenifer, president of Howard University, said he was proud of the partnership between Howard and NIAID in sponsoring such an event to help parents, teachers and children to learn more about asthma and allergies.

The students, who were accompanied by a number of parents and teachers, watched a puppet show about children with asthma performed by Kids on the Block, Inc. Voluntary health organizations and pharmaceutical companies showed videos, answered questions, displayed products, and distributed literature. The children learned breathing and relaxation techniques and how to use peak flow meters to measure breathing ability. The meter indicates when a doctor or parent should modify the dose of a child's medication.

Attendees were treated to lunch, T-shirts, balloons, buttons, hats, visors and Frisbees. Captain America, a superhero who fights asthma, and clowns who do "walking magic," face painting, and balloon sculpturing were on hand to entertain. Three dance companies from the D.C. Department of Recreation also performed.

Asthma Awareness Day was sponsored in cooperation with the American Lung Association of D.C., the Asthma and Allergy Foundation of America, the D.C. Department



Anne Munoz-Furlong of the Mothers of Asthmatics/The National Allergy and Asthma Network demonstrates a peak flow meter with a youngster as others look on. The meter measures a child's breathing ability, allowing a doctor or parent to modify medication dosages, therefore better managing asthma.

Photos: Ernie Branson



Before the opening program for Asthma Awareness Day for Family and Friends, Rep. Steny H. Hoyer (l) and Susan Kidd of WRC-TV joined NIAID director Dr. Anthony S. Fauci. Kidd, who served as mistress of ceremonies, said she, her husband and their two sons all have asthma. Hoyer spoke on his own experiences of living with asthma.

of Recreation, the D.C. Public Schools, Mothers of Asthmatics, Inc./The National Allergy and Asthma Network, and the Office of the D.C. Public Health Commissioner.

One of the most common chronic diseases in the United States, asthma affects between 10 and 16 million Americans. It is the most frequent cause of hospital admissions for children, and also leads the list of childhood diseases that cause a significant loss of time from school. Each year 4,000 deaths are caused by asthma.—James Hadley □

Computational Molecular Biology Explored in NCBI Lecture Series

This fall, the National Center for Biotechnology Information at the National Library of Medicine will offer a series of 15 "Lectures on Computational Molecular Biology."

Topics will include: sequence comparison, scoring systems for amino acid similarities, the statistical significance of sequence similarities, biological databases and network services, database searching, multiple sequence alignment, prediction and modeling of protein structures, pattern-based methods for diagnosis and classification of structural "motifs" and a variety of special topics such as molecular evolution, information theory and artificial intelligence applications.

The course will be taught primarily by NCBI staff with contributions by NCI's Laboratory of Mathematical Biology. The lectures will contain a mixture of theory and practical applications and participants are encouraged to bring their own research problems for consultation.

Hands-on experience with new NCBI software tools for database searching and multiple sequence alignment will be provided. Lectures will be given once per week starting in mid-September and lasting until the third week of December. For more information contact Dr. Mark Boguski, Bldg. 38A, Rm. 8S810, 496-2475. □

MARROW

(Continued from Page 1)

LaRochelle and other patients with aplastic anemia, leukemia and similar blood-related disorders finding a marrow match are about 1 in 20,000.

LaRochelle was a lucky one. With the help of NIH's Bone Marrow Donor Center, a part of the National Bone Marrow Donor Registry, a match was made. In April 1989, she received the healthy bone marrow of veteran blood platelet and white blood cell donor David Lanar, who had become a marrow donor about 3 years ago when NIH's donor registry program was initiated.

Recently, in the first ever donor-recipient meeting at NIH and just 2 years and two Christmases after being given a virtual death sentence, LaRochelle came face to face with the man who saved her life.

"I am living because of Dave," she declared. "I was trying to imagine how this meeting would be. There are certain moments in your life ... when you graduate from school, when you fall in love for the first time, when you get married and have your first child ... This is the best moment of my life for real."

LaRochelle, who remains remarkably medication-free since 5 weeks after her transplant, came to NIH and the Washington area with a Canadian camera crew to film a documentary about BMT and the importance of the donor registry.

She and Lanar, a California native now living in Takoma Park, were en route to Capitol Hill where they would meet with Rep. Bill Young (R-Fla.), who has been instrumental in urging Congress to reappropriate some \$6 million from defense spending into bone marrow donation and transplantation research.

The complex marrow matching procedure, called "typing," can be expensive when done for thousands of prospective donors.

"Therefore we screen," noted Dr. Harvey Klein, chief of the Clinical Center's department of transfusion medicine, "and do further typing only when a patient matches a screened donor for A and B."

"It costs about \$75 for the initial screening (two antigen pairs, A and B)," he explained, "then more for the additional typing. The next typing costs about \$90 and the final compatibility test, where patient and donor cells are mixed together, costs about \$300."

"Each stage is a little more sophisticated, tells us a little more about compatibility and is more expensive."

Antigens must be typed and matched for each successful transplant; complete matches are rare, necessitating extensive searching until adequate compatibility is found.

Lanar compared meeting LaRochelle to



A happy, healthy Celine LaRochelle of Sherbrooke, Canada, who underwent a bone marrow transplant last year, recently met NIH veteran platelet donor David Lanar, whose bone marrow successfully matched her own, enabling the transplant.

welcoming family. "It was very emotional," he admitted. "There was a lot of hugging and crying. I feel like she's a part of my family."

Normally, bone marrow recipient and donor never meet. Patient confidentiality policies are clear: Little or no contact between the two parties is encouraged.

"Contacts are handled through personnel in the NMDP—National Marrow Donor Program," added Klein. "Direct contact and identification are discouraged, at least initially, to protect both parties from possible disruptive pressure during a period of physical and emotional stress."

Indeed, in the months that followed LaRochelle's treatment, she and Lanar kept in touch through a complicated mail relay using their first names only.

"We've been communicating through letters and cards," said Lanar. "It was her idea for us to meet."

Actually, Lanar had more of a hand in arranging the meeting than he takes credit for.

What set the meeting in motion was a 1989 Christmas card exchange. LaRochelle had sent Lanar a photo of herself and her son; Lanar, in turn, sent a photo of himself and his daughter. The Lanar photo, which he had placed in a frame, had his full name, return address and phone number on the back. Somehow, his disclosure escaped the notice of usually watchful NMDP personnel both at NIH and in Canada.

Lanar figured that when and if LaRochelle's curiosity got the better of her, she would have all the information she needed to contact him personally, if she wanted to.

"I had a feeling she might look behind the frame," admitted a grinning Lanar.

"He's a great guy," LaRochelle enthused.

"It's all show," responded Lanar, teasingly.

"You know, I think we have the same personality," she joked.

"I know," he replied in kind. "I really think we're related."

LaRochelle, a French Canadian who lives in Sherbrooke, a farm town about 90 miles

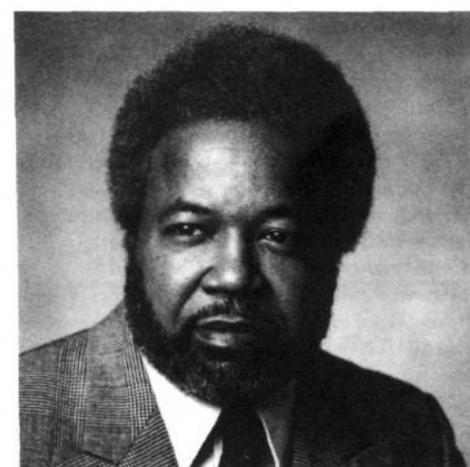
outside of Montreal, tried to describe what it felt like knowing who had saved her life but not being able to see him.

"It was like a home movie that you couldn't see the end of," she said, in clear but rapid-fire English. "We've been writing ... and phoning each other. And I've been thanking him ... but it's not the same as telling him in person what it meant to me. I had to hug him."

Becoming more emotional trying to explain, she continued, "There was something inside me ... If I would die next week, I would die so happy. It sounds weird to say but I'm glad I went through this. I'm sorry you all cannot understand this ... these things, you have to feel them. It's very hard to explain. It's a vibration that's very, very deep." □

DIGGS

(Continued from Page 1)



Dr. John Diggs

Super Achiever in Science Award of Lane College National Alumni (1989), Merit Award of District of Columbia General Hospital (1989), Outstanding Service Award of Montgomery County Department of Health (1989), Outstanding Service Award of Maryland Congress of Parents and Teachers, Inc. (1989), and Outstanding Service Award of Montgomery County Branch, NAACP (1989). □

R&W Offers Custom Framing

R&W has added a new custom framing service in the Bldg. 31 R&W Gift Shop. Bring your prints, watercolors, oil paintings, needlepoint, etc., and have them custom framed with your selection of frames and/or matting. Most items will be ready for pick up within 1 week. For more information call the R&W Activities Desk, 496-4600 or stop by the gift shop and see the choices available. □

NHLBI's Asthma Education Program Takes Off

The National Asthma Education Program (NAEP), now 1 year old, has embarked on an ambitious campaign to improve the quality of life for people with asthma and reduce illness and death caused by this chronic but treatable lung disease.

Coordinated and funded by NHLBI, the program aims to raise public awareness that, although asthma is a serious chronic disease, it is also a controllable disease. Goals of the program are:

- To help patients, families, and the public recognize the symptoms of asthma;
- To ensure that health professionals know how to diagnose asthma appropriately; and
- To encourage a partnership between patients, physicians and other health professionals for the purpose of carrying out modern treatment and education programs.

Modeled after NHLBI's national health education programs on high blood pressure and high blood cholesterol, the asthma program is a coalition of 28 organizations and agencies. Each of these groups sends a representative to a coordinating committee that operates under the NHLBI umbrella. NHLBI director Dr. Claude Lenfant chairs the committee, and Robinson Fulwood coordinates the asthma program for NHLBI.

Commenting on the rationale for a national program, Lenfant explained, "Asthma continues to be a serious public health problem. It affects more than 10 million Americans. In addition, hospitalizations and deaths from asthma are increasing."

"Our goal," he continued, "is to get input from our national coordinating committee members and use their insights to develop and implement health education activities that will help reverse the rise in illness and death from asthma."

Currently, an expert panel is working on guidelines for specific aspects of asthma control. And three subcommittees have been established to work on professional education, patient/public education, and school-based asthma education.

The expert panel on management of asthma is developing diagnosis and treatment guidelines for physicians and other health care workers. Their report will cover such topics as definition and classification of asthma, objective measurements, drug therapy and patient education. It also will address special asthmatic populations such as pregnant women, older patients, and workers with occupational asthma. Scheduled to be finished early in 1991, the report will be distributed widely and included in a physician's kit that will be sent to primary care physicians.

Meanwhile, a professional education subcommittee is developing plans to improve



Show at a recent meeting of the National Asthma Education Program's coordinating committee are NHLBI director Dr. Claude Lenfant (seated) and NAEP coordinator Robinson Fulwood (standing, r) with some of the NAEP's committee chairs and vice chairs: (seated, from l) Mary Worstell and Dr. Noreen Clark; (standing, from l) Dr. Allen Luskin, Dr. Albert Sheffer and Dr. Robert Barbee.

asthma education and training for health care professionals. This group is trying to identify professional education needs and the channels and resources to improve training—for example, how to change curricula in medical and nursing schools to include more asthma training, and how to establish or strengthen continuing education programs. Members are also working out a plan for relaying the expert panel's recommendations to various professional audiences.

A patient/public education subcommittee is working to advance the development, dissemination and use of effective patient and family asthma education programs and materials, including communication strategies for reaching special populations. And a school asthma education subcommittee is planning ways to increase the number of schools and school systems that operate effective asthma management programs. This group also is promoting better cooperation between parents, school personnel and health professionals and developing specific asthma education tools for use in schools.

Each subcommittee is giving particular attention to high-risk and minority populations as it develops activities and programs.

Products developed so far include a 4-page fact sheet called "Asthma Statistics" and "Facts About Asthma," a basic piece on the disease and its treatment. A 1-page "Check Your Asthma I.Q." quiz gives general information on asthma in a true-false format. Also, four NHLBI manuals are available for teaching asthma management skills to children and their parents. These can be ordered from the Government Printing Office.

Many more asthma information materials

and resources from numerous government and private agencies throughout the U.S. are listed in the NHLBI's national asthma reading and resource list.

Besides the asthma education program, NHLBI also supports demonstration and education research projects that investigate methods for targeting asthma education to selected groups of patients and their families. For example, the institute has just awarded \$9.5 million in grants to five medical centers to develop and test programs for controlling asthma among black and Hispanic children. The research awards went to Howard University, Columbia University, the University of New Mexico, Washington University, and the University of Texas. Projects will run for 4 to 5 years, with results expected by 1995.

For more information about the NAEP and its activities, or to order the materials described above, contact the National Asthma Education Program, 4733 Bethesda Avenue, Suite 530, Bethesda, MD 20814-4820, or call (301) 951-3260. □



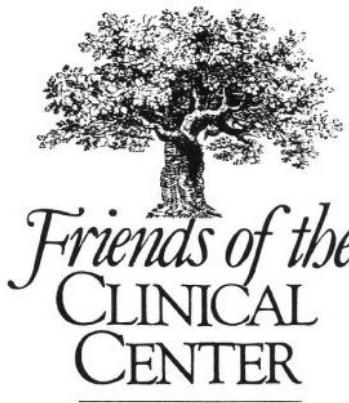
The Office of Research Services has three new managers as a result of its recent split from NIH's Office of the Director. They are Howard Hochman (l), budget officer; Nancy Saltzman (c), personnel officer; and Joan Topalian, chief administrative officer.

NIH Summer Computer Expo

The NIH Summer Computer Expo will be held Thursday, Aug. 23 from 10 a.m. to 2 p.m. The 1-day showing of microcomputer technologies will take place in Bldg. 1, Wilson Hall.

More than 25 different exhibitors will be on hand displaying the latest in advanced office automation, reporting and presentation graphics, scientific applications, LAN, desktop publishing, communications, scientific workstations, and much more.

All NIH personnel and contract personnel are invited. There is no registration or fee for this event. Refreshments will be served. For more information call 596-7005. □



Friends of CC Meet Goals

The Friends of the Clinical Center, Inc., has been busy during the last year defining its goals and shaping its continuing role of providing financial support to patients and families involved in clinical studies at NIH. It has bridged the gap in a number of crises and prevented many others.

The Friends of the Clinical Center has purchased home medical equipment, transported families to the Clinical Center for support during surgery and for last family visits before loved ones died. It has paid rents, telephone and utility bills, bought food and toys, and answered special wishes for patients of all ages, children to adults.

The needs are great but FOCC takes comfort in making someone's life just a little better, a bit more comfortable, and eliminating one more worry. FOCC appreciates the support it has received from the CFC Campaign; NIH employees have made it possible to improve the quality of life for many at the Clinical Center. □

Retirement Seminar Planned

The Recruitment and Employee Benefits Branch, DPM, is offering another retirement planning seminar for NIH employees. The seminar will be held Sept. 6-7 in Wilson Hall, located on the third floor of Bldg. 1.

A personnel bulletin announcing this seminar will be distributed desk-to-desk. The bulletin gives employees detailed information about the seminar. Because of the limited seating in Wilson Hall, each institute will be allotted a specific number of spaces based on the percentage of their employees eligible to retire within 3 years. Only those NIH employees who register and are notified by their servicing personnel office that they may attend may come to the seminar. No walk-ins will be permitted.

Employees who want more information about the seminar should contact their servicing personnel office. □

Sarosy Named Chief of NCI's Databank Branch

Dr. Gisele Sarosy has been named chief of the International Cancer Research Databank Branch of NCI. She is a certified oncologist who graduated cum laude from Barnard College, Columbia University. She received her medical degree from St. Louis University school of medicine where she did her internship and residency.

Prior to joining the staff of the International Cancer Information Center, Sarosy was an assistant professor in the department of internal medicine at St. Louis University school of medicine. She also completed a 2-year fellowship in medical oncology at the University of Texas—San Antonio, where her research interest was the development and clinical evaluation of new anticancer agents. In 1985, she became a senior investigator in the Investigational Drug Branch of NCI's Cancer Therapy Evaluation Program.

Sarosy serves as the study chairman of the Taxol/G-CSF protocol that is being conducted



Dr. Gisele Sarosy

at the Clinical Center in patients with refractory or recurrent ovarian cancer. She is also a member of the PDQ editorial board. □

NEI Employees Honored at Director's Ceremony

Dr. Carl Kupfer, director of the National Eye Institute, presented the NEI director's award to nine employees for their extraordinary achievements and contributions to the goals and mission of the institute at NEI Employee Appreciation Day recently. He also recognized those individuals with 10 and 20 years of service, and those who received quality step increases and cash awards.

In his comments to the staff, gathered in the rose garden of the Stone House, Kupfer reflected on the growth of the institute during

the past 20 years and on the significant advances in vision research that have accompanied that growth. "Without you, the dedicated employees of the NEI, we could not have come so far so fast, and without you our future would not be so optimistic," he said.

All NEI staff enjoyed refreshments that were just right for a warm day—ice cream sundaes, fresh fruit and cookies. They also received a copy of a poster prepared especially for the occasion.



NEI director Dr. Carl Kupfer (top, c) is surrounded by employees to whom he gave the NEI director's award. They are (top row, from l) Regina Reiter, Dr. Richard Mowery, Kupfer, Joan Lee, Noreen Beavers. At bottom are (from l) Barbara Kassel, Stella Gregory, Barbara Norman, Lilyan Atkinson. (Not pictured is Dr. James Raber.)

Perry Plexico To Head Computer Systems Lab

The Division of Computer Research and Technology has appointed Perry S. Plexico as chief of the Computer Systems Laboratory (CSL).

CSL is the engineering arm of DCRT. It performs electronics and computer engineering, and computer science research and development in support of biomedical research. Duties of the lab include systems engineering, designing and developing hardware and software, and performing systems integration and testing.

An electronics engineer, Plexico holds a B.S.E.E. from the University of Maryland, and a M.S.E.E. from George Washington University. He came to DCRT in 1962 from the Bureau of the Census. From 1969 to 1971, he was chief of the processor design section, CSL. In 1971, Plexico was named chief of CSL's project development section.

"There has been tremendous change in CSL in the past 25 years," said Plexico. "Then, it was almost entirely a hardware laboratory," he said. "Now, almost every instrument comes with a computer built in—this makes the problems different." He explained that the lab is now more involved with analytical, software, and computer architecture issues than with hardware design.

Concurrent with Plexico's appointment, DCRT also established three new sections in CSL and named their respective chiefs. The laboratory and clinical systems section, led by Arthur Schultz, collaborates with NIH investigators to help solve specific automation problems in laboratories or clinical settings. The distributed systems section, headed by Keith Gorlen, investigates the potential of distributed computing technologies to aid biomedical research at NIH. Dr. Robert Martino heads the computational science and



Perry S. Plexico

engineering section, which investigates modern, nontraditional, high-performance computer architectures for potential applicability to biomedical problems.

Major activities currently under way in CSL, according to Plexico, include the advanced laboratory workstation project, which, in the coming year, will make the increasingly popular UNIX-based workstations and related resources easier for NIH scientists to use. Another major endeavor is the parallel computer project, which will make new, faster computer architectures applicable to biomedical research areas such as molecular biology, image processing and computation chemistry.

"Computing speed and power have increased remarkably over the years," said Plexico. "But equally remarkable is the increase in computer power demanded by biomedical research. Developing that power and providing the resources that scientists need will be among the major challenges of the 1990's," he concluded. □

Preschool Holds Used Book Drive

The NIH Developmental Preschool Program is currently working towards accreditation and needs a certain number of books, 10 per child, in order for the library to meet accreditation standards. This means it needs approximately 650 books; its current library is in the neighborhood of 200.

One of the ways it hopes to expand the library is through a used book drive, to be held the week of Aug. 13-17. Sought are hardcover books in good condition; these should be brought to the preschool in Bldg. 35 or to the collection box located in the Bldg. 35 cafeteria next to the preschool. For more information call 496-5144. □



Samuel Bavaro (l), GSI manager for special projects and Ed Sniadowski (c), GSI NIH director of operations, present a check to the Children's Inn at NIH. Randy Schools, treasurer of the inn's board of directors, accepts the check.

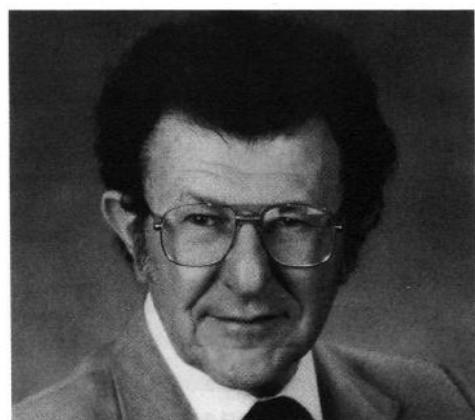
Spector Wins Metalnikoff Medal

Dr. Novera Herbert Spector, health scientist administrator in the Division of Fundamental Neurosciences, NINDS, has been awarded the first Sergei Metalnikoff gold medal by the International Society for Neuroimmunomodulation (ISNIM). He received the award at the recent ISNIM world congress in Florence.

Spector was cited for his service as first president of ISNIM, for his outstanding research, and for his numerous seminal ideas leading to an explosion of new fundamental research in neuroimmunomodulation (NIM).

The term NIM was coined by Spector 12 years ago to describe interactions among the nervous, immune and endocrine systems.

Spector was the keynote speaker at both the world congress and at a 4-day satellite work-



Dr. Novera Herbert Spector

shop in Stromboli dealing with recent research and clinical perspectives in cancer and aging. Organizers of the Stromboli workshop dedicated their meeting, as well as the book of proceedings, to Spector. The proceedings of both meetings will be published later this year by the New York Academy of Science.

The Metalnikoff medal is named after a pioneer in immunology who made many basic scientific discoveries during his tenure at the Pasteur Institute in Paris during the first third of this century.

In addition to his duties at NIH, Spector is adjunct professor of physiology and biophysics at Georgetown University Medical Center. □

Research Volunteers Needed

You and two of your friends can earn \$870 each for participating in a study to determine preference of commonly prescribed drugs. You must be able to recruit two friends to participate with you and all participants must be between 21 and 50 years old. Time required is one evening a week for a total of 14 weeks. Each session lasts approximately 6 hours. For more information call 295-0972. □

NIDDK Scientist Honored by Drug Study Group

The committee on problems of drug dependence (CPDD) has chosen NIDDK scientist Dr. Arthur Jacobson for the J. Michael Morrison Award, which is presented every other year for outstanding contributions in scientific administration related to drugs of abuse. Jacobson is an organic chemist in NIDDK's Laboratory of Medicinal Chemistry, where he studies the properties of synthesized chemical compounds, especially those related to phencyclidine. Recent discoveries have shown that phencyclidine-like drugs, though subject to abuse, have potential as anticonvulsants and as neuroprotective agents in stroke and head injury.

Jacobson was among the pioneers at NIH to use computers for data management in medicinal chemistry and for quantitative studies of how molecular structure could affect biological activity. He presently uses computer-assisted molecular modeling to determine common properties among certain drugs that enable these drugs to interact with binding sites or receptors in the brain.

Originally formed as a committee of the National Academy of Sciences in 1929, the CPDD has evaluated opioids for more than 60 years and stimulants and depressants for the past 10 years. As a public service, the committee informs researchers in pharmaceutical, governmental and academic laboratories of the physical dependence potential and abuse liability of new analgesics,



Dr. Arthur Jacobson

stimulants and depressants. Among the federal agencies that use the information from these studies are the Drug Enforcement Administration and the Food and Drug Administration.

Since 1976, the CPDD has been an independent body sponsored by several major scientific organizations. Among the current sponsors are the American Chemical Society, the American Medical Association, and the American Psychiatric Association.

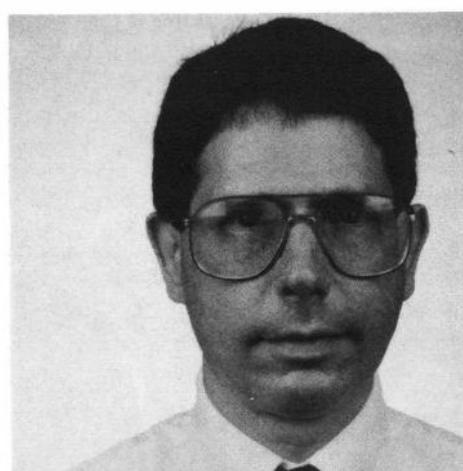
Jacobson has served as chairman of the animal testing committee of the CPDD since 1976, succeeding two notable NIDDK researchers, Drs. Nathan B. Eddy and Everette L. May.—Kathy Kranzfelder □

Buckholtz To Help NIA Fight Alzheimer's Disease

Dr. Neil Buckholtz recently joined the National Institute on Aging as a health scientist administrator for the Neuroscience and Neuropsychology of Aging Program. He comes to NIA from the National Institute of Mental Health, where he was executive secretary of the behavioral neurobiology study section in the Division of Extramural Activities.

Buckholtz received his Ph.D. in physiological psychology from the University of Wisconsin in 1971. He was then a faculty member in the department of psychiatry and behavioral science at the Medical University of South Carolina until 1983, when he came to the NIMH intramural program, initially on sabbatical, but then staying until 1986 when he joined the PHS Commissioned Corps and moved to the extramural program.

At NIA, Buckholtz will direct the treatment and management section of the Dementias of Aging Branch, which includes clinical trials of pharmacological agents in Alzheimer's disease (AD) and studies of behavioral and environmental interventions. Preclinical animal studies and drug development are also important parts of the branch's



Dr. Neil Buckholtz

responsibilities. Because of the paucity of treatments for AD and the devastating effects of the disease on the individual, family, and society, Buckholtz believes that the development and testing of new pharmacological agents and other types of interventions are of critical importance in addressing this problem. □

Wilson Leaves CC for FDA Post

Theresa Wilson has left NIH after more than 31 years to accept a position as a scientific reviewer with the FDA. She began her federal service at NIH in the Clinical Center's clinical pathology department in October 1958, as a medical technologist in the clinical chemistry service.

In 1959, she became the supervisor of what is now known as the general chemistry group and later became involved in electrophoresis method development and evaluation. From that time to the present, she was supervisor of the electrophoresis group.

She received a letter of commendation from Dr. Saul Rosen in 1979 for developing a faster turnaround time for immunoelectrophoresis



Theresa Wilson

studies. She has received various awards and commendations throughout her service. Her input helped to develop a strong continuous technical education program within the department. Her willingness to help other employees personally and professionally will be missed. □

Visiting Scientists Need Housing

FIC's Volunteer Services Office needs additional housing opportunities for visiting foreign scientists.

Hundreds of new foreign scientists arrive at the NIH each year to conduct research, many accompanied by their families. The Volunteer Services Office provides them with information on rooms, apartments and houses available for rent in Montgomery County and other nearby communities.

Both short-term (less than 6 months) and long-term (1 year lease) housing is needed. Visiting foreign scientists are generally ideal tenants, and pay prevailing rates for their accommodations.

Persons having rental property available are asked to call the Volunteer Service Office, 496-7357. □

NEI's Igal Gery Claims Alcon Award

Based on his past achievements and continued promise as a researcher, NEI immunologist Dr. Igal Gery received an unsolicited and unrestricted award of \$50,000 from the Alcon Research Institute. Each year, the ophthalmic research company, Alcon Laboratories, provides funds to talented and seasoned investigators to use as they wish in their research projects.

"The research money couldn't be better invested," said NEI director Dr. Carl Kupfer. "Igal's discovery of interleukin-1 in the 1970's changed the way we think about immune proteins. Now his work on the cellular mechanisms of autoimmune uveitis is changing how we think about treatment for this very painful and sight-threatening disease."

In autoimmune uveitis, a person's immune cells attack proteins in the eye as if they were foreign substances and in the process cause an inflammation of the uvea, the middle layer of the eyeball. Some patients with autoimmune uveitis respond to standard steroid therapy, but they relapse when the steroids are stopped. Because treatment of autoimmune uveitis must continue for life, the side effects associated with long-term steroid use present a problem. The same is true with immune suppressant drugs, so finding some other way to intervene in the autoimmune process is important in managing the disease.

Gery is trying to discover which immune cells attack the proteins and which element of a protein molecule incites the attack. In animal models of autoimmune uveitis, his laboratory group has identified the subset of white blood cells (helper/inducer T-cells) that mediates the disease. It has also pinpointed which specific component (peptide) of a candidate eye protein is dominant in provoking the reaction.

To Dr. Robert Nussenblatt, NEI clinical director and long-time collaborator with Gery,



Dr. Igal Gery

these findings are critical for halting the ravages of a very stubborn disease. "To design an effective therapy for autoimmune uveitis, we must prevent the immune system cells from attacking certain eye proteins. Either we need to turn off those circulating immune cells that identify the peptide as foreign or we must find some way to block the signals that trigger this misidentification. Thanks to Igal's quality research, we can concentrate on counteracting those factors most critical to the disease process."

Two years ago, Gery received the first International Monokine Workshop Award for his 1971 discovery of interleukin-1 (IL-1), a versatile natural protein in the body that at times behaves like an immune protein and at other times like a hormone.

Gery came to NIH in 1976 as a visiting scientist in NIDR. The next year he returned as a full-time researcher in NEI, becoming chief of the experimental immunology section, Laboratory of Immunology, in 1982.—Joyce Doherty □

Edna Hill Retires from NIDDK After 32 Years at NIH

Edna V. Jacobs Hill, a biochemistry lab technician in NIDDK's Laboratory of Cellular and Developmental Biology, retired on June 3 after 32 years at NIH.

Hill came to NIH in 1958 and began her career in the Veterinary Resources Branch of the Division of Research Services. In 1960, she joined the National Institute of Arthritis and Metabolic Diseases' (now NIDDK) Laboratory of Cellular and Developmental Biology in the endocrinology section. According to Dr. Robert O. Scow, chief of the section, "Edna became a very valuable member of our experimental diabetes research group. She was especially adept at performing difficult surgical procedures in laboratory rats, particularly total pancreatectomy. In fact, many of the visiting scientists who worked in our lab were



taught how to perform total pancreatectomy by Edna."

In 1982, Hill transferred to the electron microscopic unit of the endocrine section where she developed a technique for processing cultured cells for visualization with light and electron microscopy and adapted dehydration procedures and resin mixtures to suit the unique needs of cells cultured on a variety of plastic dishes and slides for study with immunocytochemical techniques. Hill also prepared accurate photographic prints of electron microscope negatives for publication. Dr. Joan Blanchette-Mackie, chief of the electron microscopic unit, said, "Edna has been a loyal employee. She is a very interesting and multi-talented lady. I admire her great personal strength."

Hill has many interests including making silk flower arrangements, decorating cakes and photography. She is very active in the Round Oak Missionary Baptist Church in Silver Spring. Her retirement plans include traveling and spending more time in her camper at Indian Acres in Thornburg, Va. Friends and colleagues are planning a retirement celebration in her honor at the Bethesda Naval Commissioned Officers' Club later this summer. □



As part of the grand opening festivities for the Children's Inn at NIH, the Fraternal Order of Police presented a check in the amount of \$500 to the inn. Pictured are (from l) Jim Koerber, Officer Tom Hayden, Corporal Chauncy Brown, Randy Schools, Corporal John Driscoll and Officer George Williams.

Gilbert Press Dies; Former NIDR Budget Officer

Gilbert Dean Press, 59, former budget officer for NIDR, died June 30 of a massive heart attack. Prior to his career at NIH, Press attended Morgan State University in Baltimore and served in the Army. He had more than 30 years of government service when he retired in May 1988.

He began his government career in 1955 when he joined the General Medical Branch at the National Cancer Institute as a medical biology technician. He was soon promoted to a physical science aid in the same branch. Six years later he advanced to a position as a chemist in the then National Heart Institute. A reassignment in the mid-1960's sent him to the National Institute of Child Health and Human Development's Gerontology Branch in Baltimore.

In 1973 he was accepted into the Management Intern Program at NIH. He excelled in this program and upon graduation in 1974 was chosen as that year's extern, the program's outstanding achiever. His first rotational assignment was in the NIDR budget office.

A few years later, Press was promoted to budget officer at NIDR. In that position he provided expert advice to top management at the institute on all aspects of the NIDR budget and budgeting process.

During his many years of service he won



Gilbert D. Press

the NIH Merit Award and the EEO Special Achievement Award.

He is survived by his wife, Cecelia Alma Press; son, Dr. Zachary Dean Press; one granddaughter, Monica Grace Press; one sister, Iradelle Press Penn; four brothers, Jerome, Vernon, Theodore and Joseph L. Press; a devoted daughter-in-law, Lynn Murphy Press; four sisters-in-law, Evelyn Press, Dorothy Press, Hortense Press and Shirley Lewis; five brothers-in-law, James S. Penn, Donald, Avon, Robert and Harold White; and a host of nephews, nieces, cousins and friends.

Funeral services were held at Leadenhall Baptist Church in Baltimore.

Stanley Hirsch, Retired NIMH Social Worker, Mourned

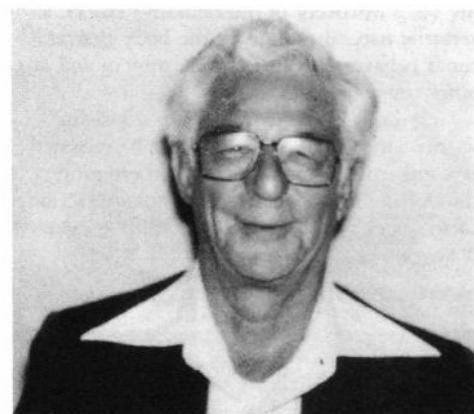
Stanley I. Hirsch, 74, former chief of NIMH's social services section, died of cancer June 17 at his Silver Spring home.

Hirsch had served 30 years in the PHS Commissioned Corps and held the rank of captain. Following his retirement from NIMH in 1981, he served as a guest worker here until shortly before his death.

A native of New York, he received his B.A. degree from the University of Wisconsin and worked as a parole officer in North Carolina for several years. After serving as a captain in the Army during World War II, he returned to school and received a master's degree in social work from Tulane University.

Prior to coming to NIH in 1955, Hirsch was employed as chief social worker in the VA Hospital in White Plains, N.Y. That year, he moved to the Washington area and became chief social worker in the Clinical Center. A year later, Hirsch was named chief of NIMH's social work department. In 1974, he was made patient recruitment coordinator at NIMH.

During his years at the Clinical Center, Hirsch was active in the original Hamsters Theater, taking roles in several productions, most notably as Pappy Yocom in *Annie Get Your Gun*. He also served on the EEO council



Stanley Hirsch

and as a volunteer in numerous CFC and Savings Bonds campaigns.

Hirsch was a licensed social worker in the State of Maryland, a charter member of the National Association of Social Workers and the Academy of Certified Social Workers. He also served on the advisory committee of the Washington Jewish Social Service Agency.

An ardent golfer, Hirsch was a member of the Leisure World Golf Club and was active in the Lions Club.—Walter Sceery

ADP Excellence Recognized

The NIH ADP/EP (automatic data processing/extramural programs) coordination committee celebrated its 15th anniversary by recognizing excellence in the PHS ADP community. ADP achievement awards for outstanding contributions to extramural computing were presented to six individuals for accomplishments that have benefited all extramural computing.

The first annual awards were presented by Edward C. Farley, committee chairman, to: Sheldon A. Fishman, NIDR; Carla G. Flora, NIDR; William K. Jones, DCRT; James Lee, ADAMHA; Jacqueline Sanders, NIMH; Dolly A. Sparkman, DRG.

In addition, certificates of appreciation were given to five other key members of the ADP/EP coordination committee: Cynthia S. Greenblat, ADAMHA; Deane K. Hill, NIDR; Carolyn G. McHale, NIAMS; Thomas L. Mitchell, NIGMS; Kenneth L. Vickers, NIGMS. □

Renaissance Festival Opens Aug. 25

The 14th annual Maryland Renaissance Festival opens Saturday, Aug. 25 and runs every weekend through early October in Crownsville. The festival has been chosen as one of North America's top 100 events by the American Bus Association. With more than 130 craft shops, 6 stages for continuous entertainment, a new market horse arena, and 42 food and beverage emporiums, the day promises to be fun for all. New to this year's festival is a continuously operating blacksmith shop, a printing press, a three-story pipe organ, new stage shows and additional street characters.

R&W will have discount tickets available for the festival in mid-August. Adult tickets will be discounted to \$7.95 (regular \$9.95), and children's tickets will sell for \$3.50 (regular \$3.95). Tickets can be purchased at any R&W location. For more information, contact the R&W Activities Desk, 496-4600. □

Atlantic City Trip, Sept. 14

Visit the new and exciting Taj Mahal Casino on Atlantic City's boardwalk. R&W is sponsoring a trip by deluxe motorcoach to the casino on Friday, Sept. 14. Cost for the trip is \$25 and includes round trip transportation, \$7.50 in coin and a \$5 food coupon. Bus will leave NIH Bldg. 31C at 7 a.m. and will return at approximately 9 that evening. Reservations can be made at any R&W location. Sign up early—these trips are popular. For more information, call the R&W Activities Desk, 496-4600. □



TRAINING TIPS

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

Courses and Programs	Starting Dates
Management and Supervisory 496-6371	
Recognition Secrets: Innovations for Rewarding Today's Workers	9/9
Managing Stress, Maximizing Effectiveness	9/11
Effective Communications	9/11
Managing Outstanding Performers	9/20
Hands-On Animal Techniques Workshop: Rodent Techniques	9/26
Office Operations Training 496-6211	
Delegated Acquisition	8/20
Introduction to Working at NIH for New Support Staff	8/13
Personal Computer Training 496-6211	
Introduction to Power Point	8/13
Hypercard	8/14
3Com Network Administrator	8/15
Welcome to Macintosh	8/20
Lotus 1-2-3 Advanced Topics	8/27
Intro to Word Perfect 5.0	9/11
Word Perfect 5.0 Advanced Topics	9/17
Intro to dBase III Plus	9/18
Training and Development Services 496-6211	

Training and Development Services 496-6211

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

The URC hours are:

Mon.-Thurs.	8:30 a.m. — 7 p.m.
Friday	8:30 a.m. — 4:30 p.m.
Saturday	9 a.m. — 1 p.m.

Training Center, DCRT, and other training information is available on WYLBUR. Logon to WYLBUR and type ENTER TRAINING



Dr. Harald Löe (r), director of NIDR, joins Dr. James B. Edwards, president of the Medical University of South Carolina, at a ceremony at which Löe received an honorary doctor of humane letters from the university for his "accomplishments and dedication to excellence in education, research, and patient care in the field of dental medicine." Löe is noted for his pioneering research on periodontal disease and is currently working on the first longitudinal study of the natural history of periodontal disease in man.

Casey Retires from NIDDK

Marjorie Price Casey, secretary in NIDDK's Mathematical Research Branch, retired June 30, after 20 years of federal service.

Casey began her government career in 1941 in the War Department's Adjutant General's Office. She later transferred to the General Accounting Office, resigning in 1946 to rear her six children. During her years as a homemaker, she became an active volunteer in many of her children's activities, including Cub Scout den mother, Brownie and Girl Scout leader, and religious education teacher.

Joining NIDDK in 1974 as a "floater," Casey worked for the Laboratory of Biochemistry and Metabolism and the Laboratory of Chemistry. In 1975, she was offered a full-time position as secretary to the chief of the Mathematical Research Branch, where she remained until her retirement.

"Marge has done an excellent job of taking care of us scientists and managing the office. She's the ultimate caregiver, and we're going



to miss her a great deal," noted Dr. John Rinzel, chief of the branch.

No stranger to volunteer work, Casey has been an NIDDK R&W representative for several years. She served on the R&W board and executive council and has been active on its activities budget committee for more than 8 years. She also served on the editorial committee for the R&W Cookbooks II and III. She plans to continue her volunteer activities with the R&W in retirement.

An amateur painter using pastels, watercolors and oils, Casey plans to devote more time to painting. She and her husband have plans to travel, including a cruise to Alaska.—Eileen Corrigan □

Free Family Portraits for NIH'ers

R&W has made arrangements with Executive Color Studios to provide any NIH employee, contractor, retiree, etc. with a free 10"x13" canvas family portrait. You will be able to purchase additional prints, but there is no obligation to purchase anything. Sittings are being scheduled for Saturday, Sept. 29 from 9:30 a.m. to 6 p.m. in Lipsett Amphitheater. To schedule your appointment, call the R&W Activities Desk, 496-4600, Monday-Thursday. Call early to ensure availability. □

Auditions for Fall Musical

The NIH R&W Theatre organization is preparing for its annual musical revue recapturing some of the magic of the fabulous fifties, featuring highlights from the Broadway shows of *My Fair Lady*, *Gigi*, *Pajama Game*, and *The Sound of Music*.

Auditions will be held Aug. 26 and 27, from 7 to 9 p.m., Bldg. 10, Masur Auditorium.

Everyone is welcome to audition for the performance. The following talents are needed: singers, musicians, dancers, stage, technical, and wardrobe crews.

The musical will be presented the first three weekends of November.

The purpose of the R&W Theatre organization is to make money to contribute to the NIH Patient Emergency Fund.

For more information call the director of the show, Ron Squeri, 651-2544 or Fernando Marr, 952-1065 in the evenings. □

NICHD's Cephas Patch Dies

Dr. Cephas Taylor Patch, senior investigator in the Intramural Research Program, National Institute of Child Health and Human Development, died of cancer July 16, just a few weeks after he had retired.

Patch came to NIH in 1968 as a staff fellow with the National Institute of Allergy and Infectious Diseases. He was with the National Cancer Institute from 1971 until 1982, when he joined NICHD.

Patch was born in Southern Pines, N.C. During World War II, he served in the Navy as a submarine torpedoman in the Pacific. He received his undergraduate degree from Washington and Lee University, was awarded his M.S. in biochemistry from George Washington University in 1960 and earned a Ph.D. in biology from Georgetown University in 1969. He was a member of the American Association for the Advancement of Science and the American Society for Microbiology.

Patch is survived by his wife, Frances, and two children, Martha Gilchrist Patch and Nathaniel Sumner Patch, all of Cabin John, Md.; and a brother, Charles Sumner Patch of Southern Pines, N.C.

Patch's family has requested that contributions in lieu of flowers be made to the Montgomery Hospice Society, Inc., 6701 Wisconsin Avenue, Chevy Chase, MD 20815, or to the Westmoreland Congregational United Church of Christ, 1 Westmoreland Circle, Bethesda, MD 20816.

NINDS

(Continued from Page 1)

about 100 times greater than that found in most genetic disorders.

The University of Michigan team used several relatively new approaches to locate the gene, including:

- Positional cloning, sometimes called reverse genetics, a strategy of finding genes based on their chromosomal map location before identifying the gene product;
- Yeast artificial chromosomes, tools used by scientists to preserve and multiply DNA segments exceeding 50,000 base pairs in length, and;
- Chromosome jumping, a technique that enables scientists to speed up the hunt for a gene by searching large segments of a chromosome for evidence that a gene is nearby. □



Gov. William Donald Schaefer congratulates Clinical Center registered nurse Linda Coe-Murray (l) on her nomination as Maryland Hospital Nurse of the Year. Coe-Murray was among 43 nurse-nominees from Maryland hospitals who were special guests at a Governor's Mansion reception in Annapolis recently. The event, part of the second annual hospital Nurse of the Year recognition, was sponsored by the Maryland Hospital Association's Center for Nursing and Allied Health Careers. Joining her at the ceremony was CC associate director for nursing, Kathryn McKeon (r).

Volunteers Needed for Study

Volunteers are needed for a normal range reference study at the Clinical Center's clinical pathology department. Females age 60-80 and males age 40-80 are asked to give 35 ml of blood; volunteers will be paid \$10. Call Betty Chiang, 496-3386. □



A "Shower of Good Luck Gifts" was presented by Hallmark, Inc., through the Montgomery County Chapter American Red Cross to the Children's Inn during the inn's opening celebrations. Amanda Modlin (l), chairman of the Clinical Center's Red Cross volunteers, and Andrea Rander (c), director of CC volunteer services, presented the gifts to Kate Higgins, resident manager of the Children's Inn.

NCRR Employee Recognition Day

The National Center for Research Resources celebrated its first Employee Recognition Day recently with an awards ceremony in Masur Auditorium, followed by a picnic at the Navy Medical Research Center recreation area. NCRR was formed in February of this year by a merger of the Division of Research Resources and Division of Research Services.

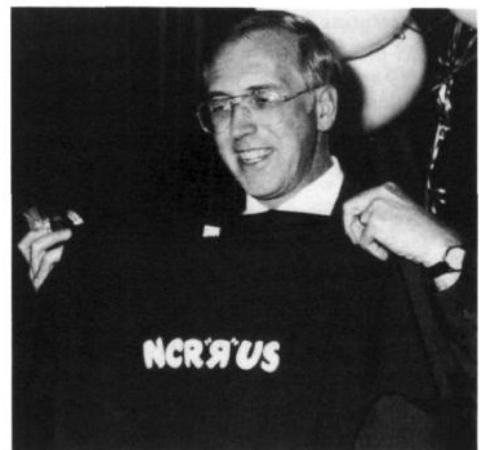
The ceremony recognized awards received by employees of the center and its predecessor divisions since January 1989; awards for individual and group special acts, outstanding performance awards, NIH Merit Awards and NIH Director's Awards, PHS citations and medals, and awards for "employee of the month," patents and inventions, suggestions, and length of service. Special interest awards from other organizations were also recognized. Future ceremonies will cover a 1-year period.

A large majority of the 240 awardees were present for the ceremony.

Bright red T-shirts competed for attention at the picnic—they featured the new center's name and logo.



NCRR intramural and extramural program employees got acquainted during the picnic climaxing NCRR's first Employee Recognition Day.



Following his remarks at the opening of NCRR's first Employee Recognition Day, acting NIH director Dr. William F. Raub received an NCRR "Distinguished Alumnus Award" from NCRR director Dr. Robert A. Whitney Jr., plus a T-shirt. Raub served as chief, Biotechnology Resources Branch, DRR, 1969-75.