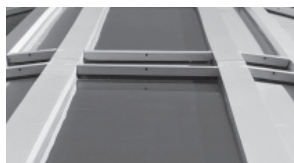


Poster

What is it?
Where is it?

Story on page 9.



Off-Site Clinical Monitoring Research Program Provides Essential NCI and NIAID Support



Some of the CMRP senior management staff: Standing are Joy Beveridge and Scott Ferrell; seated are Beth Baseler, Director (on left), and Patricia Price-Abbott.

One of the largest off-site programs is the **Clinical Monitoring Research Program (CMRP)**, begun in 2002 with a projected staff of 150, after a reorganization within SAIC-Frederick, Inc. Currently, CMRP comprises more than 85 employees, primarily supporting NCI and NIAID programs, both local and international.

The main arm of CMRP is its Regulatory Compliance and Human Subjects Protection Program (RCHSPP), which supports NIAID's Intramural Research Program's Phase I, II, and III clinical trials. Heading the staff are Beth Baseler, Director (also director of the CMRP itself); Patricia Price-Abbott, Director of Regulatory Affairs; Shelly Simpson, Clinical Trials Manager; Laurie Lambert,

Program Manager; Scott Ferrell, Clinical QA Training Manager; and Dr. Cynthia Kleppinger, Medical Monitor.

Several other CMRP groups help with regulatory submissions, monitor protocols and adverse events, check compliance with the Code of Federal Regulations, and provide clinical trial oversight and the information technology associated with all of these groups and their projects—everything from consulting with medical personnel at clinical sites in other countries to preparing training manuals. While many of the clinical studies are conducted at NIH, staff members also travel to

remote sites such as Mali, Uganda, South Africa, South Korea, Hong Kong, Cambodia, and Peru.

Each group has myriad duties. For example, the Clinical Trials Management (CTM) team helps with 53 clinical research studies throughout the United States and abroad. CTM ensures that patients' rights and well-being are protected; reported study data are accurate, complete, and verifiable from source documents; and that study conduct complies with protocols, guidelines, and other regulations. CTM also detects, reports, and resolves discrepancies, and communicates site-monitoring reviews and observations to the principal investigators.

DECEMBER 2005

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Clinical Monitoring Research Program

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International Efforts

Working in a collaborative effort between NIAID and the World Health Organization (WHO), CMRP staff provides programmatic support for an international clinical research network to study avian influenza, SARS, and emerging infectious diseases.

South Africa: Perhaps among the most interesting of CMRP's support projects is the Phidisa Project, a joint collaboration among the South African Military Health Service, South African National Defense Force, NIAID, and the U.S. Department of Defense to establish the infrastructures, as well as a network of clinics, sick bays, and hospitals, needed to conduct clinical research in preventing and treating infectious diseases and disorders of the immune system, specifically human immunodeficiency virus (HIV) infection in Africa. Doctors and nurses trained to conduct HIV/AIDS clinical research will mentor Phidisa Project staff. Ms. Price-Abbott, Ms. Simpson, and Ms. Baseler, who serve as active members of the Phidisa Regulatory Working Group, provide expert advice on regulatory and clinical trial management issues, such as the Data and Safety Monitoring Board, Serious Adverse Event reporting, and general monitoring issues for the Phidisa clinical trials.

Bamako, Mali: In 1989, NIAID established a cooperative malaria research program with investigators at the Université du Mali, Bamako, Mali, now a model for other joint research programs in the developing world. At NIAID's request, CMRP provided support to the Mali-AIDS research initiative. Since 2003, CMRP's dedicated personnel, both on-site in Africa and off-site, coordinate activities for state-of-the-

art laboratories (a Biosafety Level-3 Laboratory is nearly complete); prepare and track dedicated budgets; assist with project procurement, and coordinate administrative operations in Bamako. Jen Imes and Colleen Donovan-Togo provide instrumental support to this operation. Ms. Donovan-Togo provides translation services for visitors from all over the world.



Mali Infectious Disease Ward.

Rakai, Uganda: The Rakai Health Sciences Program provides antiretroviral drugs (ARVs) in rural villages in the Rakai District, Uganda, with funding from the President's Emergency Fund for AIDS Relief. SAIC-Frederick, Inc., has subcontracted with the Rakai Health Sciences Program to collect data for the first year. Annual interviews and biological specimen collection in 52 communities on all consenting adults (approximately 14,000, of whom 15% are HIV-positive) and a sample of approximately 800 infants and children (with HIV-positive mothers) will examine epidemiological effects of ARVs; understanding of ARV treatment, its perceived benefits, challenges, and limitations; and the effects of stigma on ARV use.

Local Efforts

CMRP staff works with multi-disciplinary NIH research teams providing health care to patients from underserved communities in Washington, DC. These outreach activities support both NCI and NIAID initiatives. The CMRP Outreach

Coordinators serve as liaisons with community health resources and act as patient advocates, guiding the patients through the NIH research environment.

CMRP has also provided support to a series of projects dealing with smoking cessation: potential role of genetics; the North American Quitline Consortium and the National Network of Quitlines; a tobacco cessation service program offered to Department of Health and Human Services employees; a Smokefree.gov Web site; and Tobacco Systems Integration Grid. The program has also supported a number of scientific meetings on topics such as increased consumer demand for tobacco cessation products and services and a national agenda for longitudinal studies of tobacco use and quitting.

CMRP manages the sponsor-essential document files for the 129 clinical sites of NIAID's largest clinical trial, an international HIV therapeutic study known as SILCAAT, and recently began to provide support to the Health Information National Trends Survey (HINTS), a biennial, general population telephone survey that measures the nation's use of health information technologies.

Accolades for CMRP's Hard Work

CMRP's colleagues recognize this hard work. For the second year in a row, last spring Dr. Patty Mabry and Dr. Erik Augustson, clinical psychologists supporting the Behavioral Research Branch, received the prestigious NIH Plain Language Award. John Freymann, who provides support to DCIDE, has been recognized by numerous NCI officials, including Dr. Andrew von Eschenbach, NCI Director, for his effective and comprehensive presentation of the RIDER program (Reference Image Database to Evaluate Response to Therapy in Lung Cancer). ♦

GEL: Technical Expertise in Gene Expression and Delivery

If you're looking for expertise in quantitative polymerase chain reactions (qPCR), vector viral models for adeno- and lentiviruses, or RNAi gene silencing, one of the first places to check is the Gene Expression Laboratory (GEL) Web site <http://web.ncifcrf.gov/rtp/gel> for links to overviews and protocols that reflect GEL's technical expertise in gene expression and delivery.

PCR Amplification of DNA

As part of the NCI-Frederick community, GEL constantly researches new and more effective ways to assist NCI investigators in the battle against cancer. For example, GEL's Quantitative-PCR Core group helps researchers quantify changes in gene expression with PCR amplification of DNA in real time, providing better diagnosis of the cancer type and therapeutic evaluation of a given treatment. State-of-the-art instruments with liquid robotic handlers process more than 10,000 end-point PCR reactions in as few as 8 hours. GEL's own software system exports data directly to an easy-to-follow graphic format, shortening the turnaround time for data delivery to the investigator.

Expertise in Adenoviruses and Lentiviruses

GEL offers expertise in two viral vector models for research into gene delivery: *adenoviruses* and *lentiviruses*. Increasingly, adenoviruses are used as gene therapy vectors to treat diseases such as cancer. The Virus Production group generates, amplifies, and purifies recombinant replication-incompetent adenoviruses for gene delivery for research into the future treatment of many types of cancer.

In the past year, GEL has begun

implementing and optimizing lentivirus production: a lentiviral vector containing critical parts of the HIV genome is pseudotyped within



Gene Expression Laboratory staff. Back row, left to right: Amanda Lane, Debbie Shibben, Vijaya Gowda (VJ), Jessica Baer. Front row, left to right: Tres Kelly, Dr. Narayan Bhat, and James Cherry.

the envelope gene of a secondary virus; in the host cell, the lentivirus is integrated into the genome and delivers long-term expression in both dividing and non-dividing cells.

Expertise in RNAi Gene Silencing

Another new technology in which GEL is gaining expertise is *RNAi gene silencing*. RNAi is a natural defense mechanism used to manipulate gene function by the "knockdown" of a gene's function. Potential targets for RNAi in treating cancer include silencing genes that cause cancer and play a key role in resistance to specific chemotherapy drugs. The science behind RNAi lies in blocking the flow of information from RNA into the protein, either by degrading the target mRNA or suppressing translation, thus preventing the gene from performing.

This degradation or suppression is accomplished by supplying synthetic

small interfering RNA siRNA for target genes externally or by producing short hairpin RNA (shRNA) within the cells. GEL has established protocols for designing and screening shRNA for target genes and has developed a lentiviral vector system to deliver shRNA to various mammalian cell lines and primary cells. Once in the host cell, the shRNA is processed into siRNA, resulting in functional gene silencing for long-term expression. These shRNA cassettes have shown a functional knockdown of more than 90% when optimized. GEL is currently collaborating

with several NCI investigators to determine the knockdown traits of specific genes using lentiviral vectors.

GEL takes great pride in the technological developments laboratory staff members have implemented to expedite the battle against cancer, offering specific expertise and innovative technologies to aid NCI investigators in advancing their research efforts.

Consultation and training in any of the GEL areas of expertise are always available. To learn more about the resources available at GEL, visit <http://web.ncifcrf.gov/rtp/labs/GEL/default.asp> or contact Dr. Bhat, 301-846-1320; fax, 301-846-6711; or by e-mail, bhatn@ncifcrf.gov.

Our thanks to Amanda Lane, James M. Cherry, Warren E. Kelly, and Dr. Narayan K. Bhat, Gene Expression Laboratory, SAIC-Frederick Inc., NCI-Frederick, for this article. ♦

Dr. Yang Du, Mouse Cancer Genetics Program



Dr. Yang Du received his PhD in Medical Biochemistry from Texas Tech University Health Sciences Center in 2000, and shortly thereafter joined the laboratory of Neal

Copeland and Nancy Jenkins in the Mouse Cancer Genetics Program as a postdoctoral fellow. His work involves the study of cancer stem cell immortalization genes.

Cancer stem cells are the rare immortalized cancer cells capable of regenerating the tumor once transplanted into recipient hosts, and targeting such cells represents a promising therapeutic strategy for curing cancer. The genes/pathways that confer on cancer stem cells the characteristics of immortality/unlimited self-renewal represent excellent targets for treating human cancer; however, these genes are largely unknown.

Dr. Du's studies, published online in *Blood*, show that retroviral insertional mutagenesis can be used as a powerful new tool for identifying genes that promote the immortalization of primary murine bone marrow progenitor cells, cells that normally

have only limited self-renewal. Dr. Du identified genes that, in many cases, are known, validated human leukemia genes or genes that regulate them. According to Dr. Du, this finding raises the interesting possibility that these genes are also involved in the immortalization of leukemic stem cells, and thus represent attractive drug targets for treating cancer. "Since retroviruses can infect many different mammalian cell types," Dr. Du explained, "our screen could be potentially extended to many different tissues and therefore identify cancer stem cell immortalization genes for many other cancers."

Dr. Du noted that "cancer stem cell immortalization genes are also likely to be involved in the regulation of normal tissue stem cell self-renewal; therefore, immortalization genes identified by insertional mutagenesis also represent potential targets for regenerative medicine." ♦

Du Y, Jenkins NA, and Copeland NG

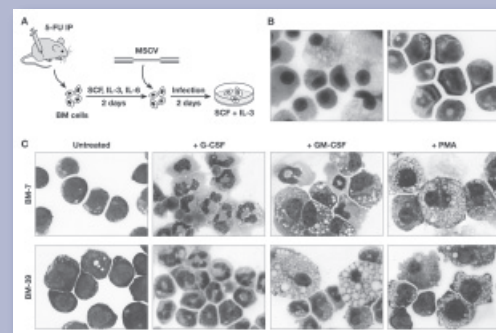
Insertional Mutagenesis Identifies Genes That Promote the Immortalization of Primary Bone Marrow Progenitor Cells

Blood 106 (12): 3932–3939, 2005.

Retroviruses can induce hematopoietic disease via insertional mutagenesis of cancer genes and provide valuable molecular tags for cancer gene discovery. Here we show that insertional mutagenesis can also identify genes that promote the immortalization of hematopoietic cells, which normally have only limited self-renewal. Transduction of mouse bone marrow cells with replication-incompetent murine stem cell virus (MSCV) expressing only *neo*, followed by serial passage in liquid culture containing SCF and IL-3, produced immortalized immature myeloid cell lines with neutrophil and macrophage differentiation

potential in about 50% of the infected cultures. More than half of the lines have MSCV insertions at *Evi1* or *Prdm16*. These loci encode transcription factor homologues and are validated human myeloid leukemia genes. Integrations are located in intron 1 or 2, where they promote expression of truncated proteins lacking the PR domain, similar to what is observed in human leukemias with *EVI1* or *PRDM16* mutations. *Evi1* overexpression alone appears sufficient to immortalize immature myeloid cells

and does not seem to require any other cooperating mutations. Genes identified by insertional mutagenesis by their nature could also be involved in immortalization of leukemic stem cells and thus represent attractive drug targets for treating cancer. ♦



See on-line article at <http://www.bloodjournal.org/cgi/> to view complete figures and detailed information.

The following 25 articles have been selected from a quarterly listing of publications in 11 of the most prestigious science journals.

Chemokines

Ruscetti FW, Akel S, Bartelmez SH. Autocrine transforming growth factor-Beta regulation of hematopoiesis: Many outcomes that depend on the context. *Oncogene* 24(37):5751–5763, 2005.

Clinical Immunology

Kovacs JA, Lempicki RA, Sidorov IA, Adelsberger JW, Sereti I, Sachau W, Kelly G, Metcalf JA, Davey RT, Falloon J, Polis MA, Tavel J, Stevens R, Lambert L, Hosack DA, Bosche M, Issaq HJ, Fox SD, Leitman S, Baseler MW, Masur H, Di Mascio M, Dimitrov DS, Lane HC. Induction of prolonged survival of CD4(+) T lymphocytes by intermittent IL-2 therapy in HIV-infected patients. *J Clin Invest* 115(8):2139–2148, 2005.

Experimental Therapeutics, Molecular Targets, and Chemical Biology

Jensen LH, Thouggaard AV, Grauslund M, Sokilde B, Carstensen EV, Dvinge HK, Scudiero DA, Jensen PB, Shoemaker RH, Sehested M. Substituted purine analogues define a novel structural class of catalytic topoisomerase II inhibitors. *Cancer Res* 65(16):7470–7477, 2005.

Jing YK, Hellinger N, Xia LJ, Monks A, Sausville EA, Zelent A, Waxman S. Benzodithiophenes induce differentiation and apoptosis in human leukemia cells. *Cancer Res* 65(17):7847–7855, 2005.

Kong DH, Park EJ, Stephen AG, Calvani M, Cardellina JH, Monks A, Fisher RJ, Shoemaker RH, Melillo G. Echinomycin, a small-molecule inhibitor of hypoxia-inducible factor-1 DNA-binding activity. *Cancer Res* 65(19):9047–9055, 2005.

Gene Expression

Lammerding J, Hsiao J, Schulze PC, Kozlov S, Stewart CL, Lee RT. Abnormal nuclear shape and impaired mechanotransduction in emerin-deficient cells. *J Cell Biol* 170(5):781–791, 2005.

Immunology

Doi K, Wu XL, Taniguchi Y, Yasunaga J, Satou Y, Okayama A, Nosaka K, Matsuo M. Preferential selection of human T-cell leukemia virus type I provirus integration sites in leukemic versus carrier states. *Blood* 106(3):1048–1053, 2005.

Lehrman G, Hogue IB, Palmer S, Jennings C, Spina CA, Wiegand A, Landay AL, Coombs RW, Richman DD, Mellors JW, Coffin JM, Bosch RJ, Margolis DM. Depletion of latent HIV-1 infection in vivo: A proof-of-concept study. *Lancet* 366(9485):549–555, 2005.

Peretti S, Shaw A, Blanchard J, Bohm R, Morrow G, Lifson JD, Gettie A, Pope M. Immunomodulatory effects of HSV-2 infection on immature macaque dendritic cells modify innate and adaptive responses. *Blood* 106(4):1305–1313, 2005.

Williams K, Westmoreland S, Greco J, Ratai E, Lentz M, Kim WK, Fuller RA, Kim JP, Autissier P, Sehgal PK, Schinazi RF, Bischofberger N, Piatak M, Lifson JD, Masliah E, Gonzalez RG. Magnetic resonance spectroscopy reveals that activated monocytes contribute to neuronal injury in SIV neuroaids. *J Clin Invest* 115(9):2534–2545, 2005.

Inflammation

Youn HS, Lee JY, Fitzgerald KA, Young HA, Akira S, Hwang DH. Specific inhibition of Myd88-independent signaling pathways of TLR3 and TLR4 by resveratrol: Molecular targets are TBK1 and RIP1 in TRIF complex. *J Immunol* 175(5):3339–3346, 2005.

Membrane Transport, Structure, Function, and Biogenesis

Halverson KM, Panchal RG, Nguyen TL, Gussio R, Little SF, Misakian M, Bavari S, Kasianowicz JJ. Anthrax biosensor, protective antigen ion channel asymmetric blockade. *J Biol Chem* 280(40):34056–34062, 2005.

Microbiology

Bonaparte MI, Dimitrov AS, Bossart KN, Cramer G, Mungal BA, Bishop KA, Choudhry V, Dimitrov DS, Wang

LF, Eaton BT, Broder CC. Ephrin-B2 ligand is a functional receptor for Hendra virus and Nipah virus. *Proc Natl Acad Sci USA* 102(30):10652–10657, 2005.

Microbiology Biology, Pathology and Genetics

Kanao H, Enomoto T, Kimura T, Fujita M, Nakashima R, Ueda Y, Ueno Y, Miyatake T, Yoshizaki T, Buzard GS, Tanigami A, Yoshino K, Murata Y. Overexpression of LAMP3/TSC403/DC-LAMP promotes metastasis in uterine cervical cancer. *Cancer Res* 65(19):8640–8645, 2005.

Nagl NG Jr., Patsialou A, Haines DS, Dallas PB, Beck GR Jr., Moran E. The P270 (ARID1A/SMARCF1) subunit of mammalian SWI/SNF-related complexes is essential for normal cell cycle arrest. *Cancer Res* 65(20):9236–9244, 2005.

Neoplasia

Calmels B, Ferguson C, Laukkanen MO, Adler R, Faulhaber M, Kim HJ, Sellers S, Hematti P, Schmidt M, von Kalle C, Akagi K, Donahue RE, Dunbar CE. Recurrent retroviral vector integration at the Mds1/Evi1 locus in nonhuman primate hematopoietic cells. *Blood* 106(7):2530–2533, 2005.

Oncogenes

Sterneck E, Zhu S, Ramirez A, Jorcano JL, Smart RC. Conditional ablation of C/Ebpbeta demonstrates its keratinocyte-specific requirement for cell survival and mouse skin tumorigenesis. *Oncogene* online publication, 3 Oct. 2005. 10.1038/sj.onc.1209144.

Protein Structure and Folding

Jorgensen R, Merrill AR, Yates SP, Marquez VE, Schwan AL, Boesen T, Andersen GR. Exotoxin A-Eef2 complex structure indicates ADP ribosylation by ribosome mimicry. *Nature* 436(7053):979–984, 2005.

Wang Q, Song C, Irizarry L, Dai R, Zhang X, Li CC. Multifunctional roles of the conserved Arg residues in the second region of homology of P97/valosin-containing protein. *J Biol Chem* online publication, 10 Oct. 2005.

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Platinum Publications

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Xie C, Prahl A, Ericksen B, Wu ZB, Zeng PY, Li XQ, Lu WY, Lubkowski J, Lu WY. Reconstruction of the conserved Beta-bulge in mammalian defensins using D-amino acids. *J Biol Chem* 280(38):32921–32929, 2005.

Receptors

Nishigaki K, Hanson C, Jelacic T, Thompson D, Ruscetti S. Friend spleen focus-forming virus transforms rodent fibroblasts in cooperation with a short form of the receptor tyrosine kinase Stk. *Proc Natl Acad Sci USA* 102:15488–15493, 2005.

Ortaldo JR, Winkler-Pickett R, Wigington J, Horner M, Bere EW, Mason AT, Bhat N, Cherry J, Sanford M, Hodge DL, Young HA. Regulation of ITAM-positive receptors: Role of IL-12 and IL-18. *Blood* online publication, Oct. 25, 2005.

Rna: Structure, Metabolism and Catalysis

Tretyakova I, Zolotukhin AS, Tan W, Bear J, Propst F, Ruthel G, Felber BK. Nuclear export factor family protein participates in cytoplasmic Mrna trafficking. *J Biol Chem* 280(36):31981–31990, 2005.

Signal Transduction

Varela I, Cadinanos J, Pendas AM, Gutierrez-Fernandez A, Folgueras AR,

Sanchez LM, Zhou ZJ, Rodriguez FJ, Stewart CL, Vega JA, Tryggvason K, Freije JMP, Lopez-Otin C. Accelerated aging in mice deficient in Zmpste24 protease is linked to P53 signaling activation. *Nature* 437(7058):564–568, 2005.

Vaccines

Neelapu SS, Kwak LW, Kobrin CB, Reynolds CW, Janik JE, Dunleavy K, White T, Harvey L, Pennington R, Stetler-Stevenson M, Jaffe ES, Steinberg SM, Gress R, Hakim F, Wilson WH. Vaccine-induced tumor-specific immunity despite severe B-cell depletion in mantle cell lymphoma. *Nat Med* 11(9):986–991, 2005. ♦



Technology Transfer Branch (TTB)

To Patent or Not to Patent...That Is the Question!

Types of Patent Applications

Editors Note: This is the second of two articles on filing for a patent. The first part, in our September issue (http://web.ncifcrf.gov/ThePoster/Sep05_POSTER.pdf), covered the steps leading to approval for filing a patent.

After an Employee Invention Report (EIR) is recommended for patent filing, the next step is to determine how, when, and where to file the application. This filing strategy represents a coordinated effort between the NCI Technology Transfer Branch (NCI-TTB), the NIH Office of Technology Transfer (NIH-OTT), contract patent attorneys, and the inventor.

An important factor in determining a patent filing strategy is the presence of a public disclosure, which can bar obtaining patent rights in some

foreign countries. A publication, presentation, abstract on a Web site, or even discussing your work while on a job interview can constitute a public disclosure.

The Provisional U.S. Application

If no disclosures are present, a provisional U.S. application is usually filed, which establishes a filing date by the U.S. Patent and Trademark Office (USPTO), but does not initiate the examination process. A provisional U.S. application has a term of one year, during which time the inventor may further develop the invention. In addition, NIH-OTT can begin to seek licensing partners, and determine the patentability of the technology and breadth of the claims of the application.

After the one-year term, the technology is again reviewed by the NCI-Technology Review Group (NCI-TRG). If the NCI-TRG recommends continuation, a U.S. regular patent application or a Patent Cooperation Treaty (PCT) application may be filed.

U.S. Regular Patent Application

A U.S. regular patent application may be filed initially if the NCI-TRG has decided that no foreign patent rights will be sought, and the technology is well developed.

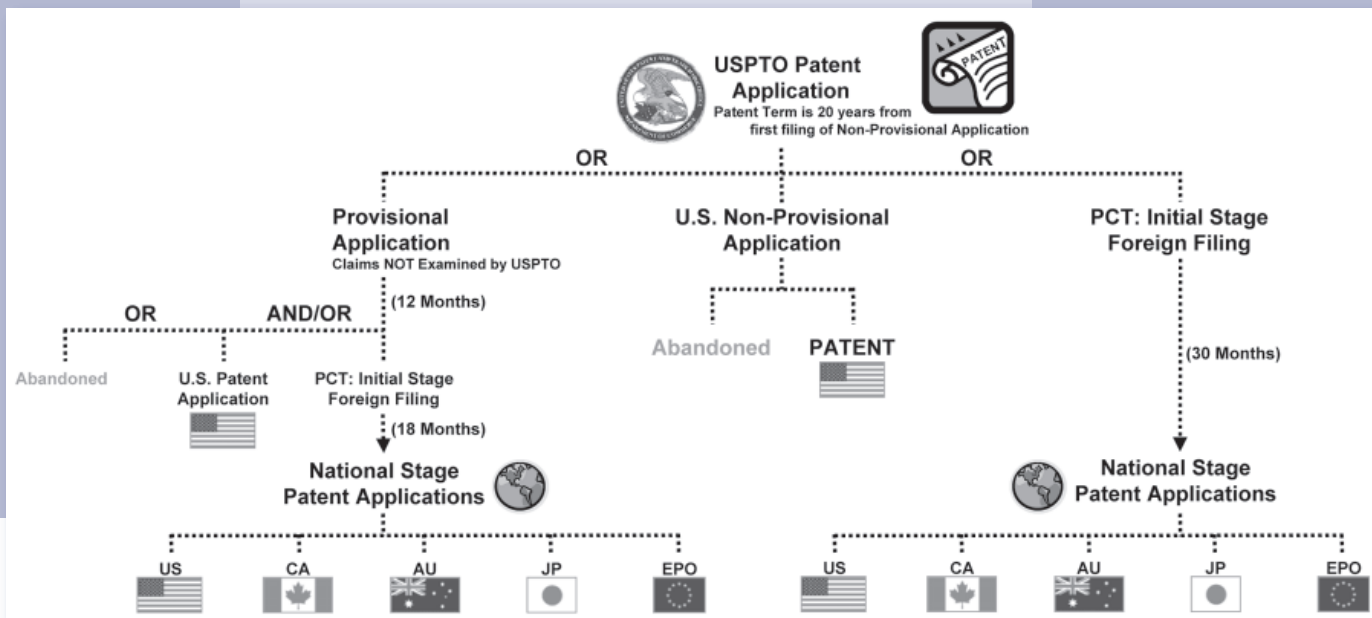
The Patent Cooperation Treaty (PCT)

PCT applications protect the right to file a future patent application in designated foreign countries. The term of a PCT application is 18 months, or 30 months if no provisional U.S. application was filed prior to the PCT. This time period allows further evaluation of the foreign market(s) in which to file a patent application.

The National Stage

Patent applications filed in individual countries/regions are called national patent applications, and the prosecution of these applications constitutes the “national stage” of patent prosecution. At the end

continued on page 8



Technology Transfer Branch (TTB)

continued from page 7

of the PCT application term, the patent application must be filed in all countries or regions determined appropriate by NCI-TRG/NIH-OTT.

The decision to file the application in foreign markets is especially important because as much as \$250,000 in costs may be incurred over the life of the patent. The high cost is due to translation fees, foreign patent attorneys' fees, and yearly maintenance fees associated with keeping the application active once it enters national stage and after the patent is issued. The costs, however,

are expected to be recovered when the technology is licensed.

Licenses

NIH-OTT negotiates and executes licenses for both patented and unpatented technology. A license gives permission to the licensee to make, sell, use, or import the technology. Licensing a technology results in royalties being received, some of which will be shared with the inventor(s). According to NIH policy, inventors may receive up to \$150,000 per year in royalty income, in addition

to their regular annual salary, for as long as the license is effective, and they are entitled to their royalty share even after leaving the NIH.

If you have any questions or comments regarding any technology transfer-related issue, contact the NCI-Frederick TTB office at (301) 846-5465, or visit the Web site at ttb.nci.nih.gov.

Our thanks to members of the NCI-TTB and Dr. Charmaine Richman, Intellectual Property Administrator, SAIC-Frederick, Inc., for this article. ♦

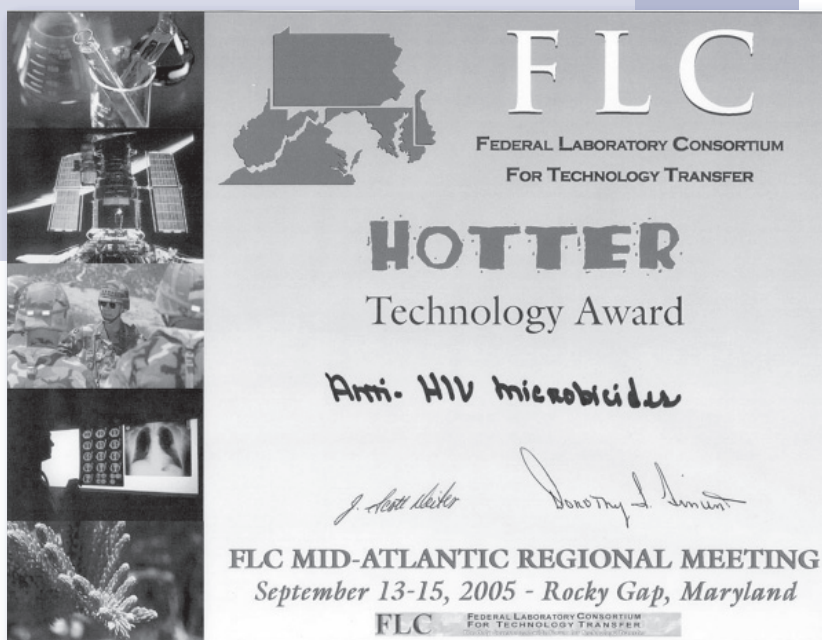
MTDP Wins First Place for Anti-HIV Microbicide Project

At the fall meeting of the Federal Laboratory Consortium for Technology Transfer, technologies developed by researchers in the Molecular Targets Development Program, Center for Cancer Research, NCI-Frederick, were awarded a first-place plaque for their work on an anti-HIV microbicide project with antiviral peptides. Awardees included Dr. Jim McMahon, Director, Dr. Barry O'Keefe, Dr. Toshi Mori (MTDP), and Dr. B.J. Gabrielsen, Technology Transfer Branch, CCR.

Scytovirin and griffithsin, novel proteins with little similarity to any known proteins, have been isolated from natural product extracts from the NCI-Frederick extract repository and show activity against both HIV and influenza. These discoveries have resulted in the filing of three patents on behalf of the U.S. government; in addition, the original discoveries of scytovirin and griffithsin were

published in *Biochemistry* (Mar 11;42[9]:2578–2584, 2003) and the *Journal of Biological Chemistry* (280[10]:9345–9353, 2005), respectively. The technology has been licensed to a U.S. commercial biotechnology company, and a collaborative agreement has been

signed with one of the largest research institutes in South Africa (Council for Scientific and Industrial Research [CSIR]) to develop these proteins as anti-HIV microbicides. ♦



Poster Puzzler

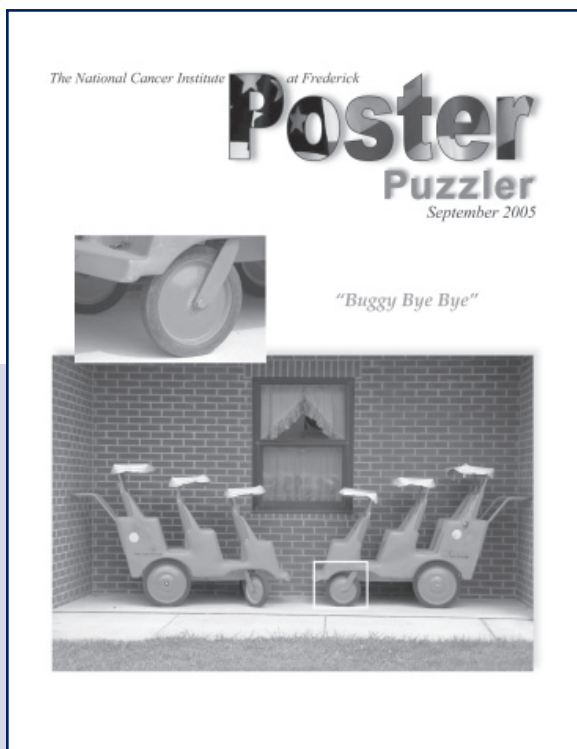
What is it?

Where is it?

Your challenge, should you decide to accept it, is to correctly identify the item and its location from the picture to the right. Clue: It's somewhere at Fort Detrick/NCI-Frederick. Win a framed photograph of the Poster Puzzler by e-mailing your guess, along with your name, e-mail address, and daytime phone number, to Poster Puzzler at poster@ncifcrf.gov. Alternatively, you can send us your guess, along with your name and daytime phone number on one of *The Poster* forms found on the front of *The Poster* stands in the lobbies of Buildings 426 and 549. All entries must be received by Friday, **January 27, 2006**, and the winner will be drawn from all correct answers received by that date.



Good luck and good hunting! ♦



The Poster Puzzler:

"Buggy Bye Bye"

You may have seen them around campus during the summer months. These bright red "toddler taxis" are used by the Play and Learning Station (PALS) staff to transport up to six toddlers from the center to parks or other areas for walks and outside play. Known as the Buggy Bye Bye, each one is equipped with red-and-white-striped seat cushions for extra comfort, a canopy for protection from the sun, and, of course, seat belts. The September puzzler is a close-up of the front wheel of one of the two vehicles in the "fleet."

Thanks to all the participants in the September *Poster* Puzzler!

Special thanks to Dianne Velazquez-Hunt, Director of PALS, for providing the information for this article. ♦

Congratulations to our September 2005 winner:
Mary Ellen Palko, Research Technician,
Neurodevelopment Group, Mouse Cancer Genetics Program ♦

Poster People Profile: Byron Bowie

What Do You Do?

I manage the Logistics Support Department and carry out management responsibilities in accordance with NCI-Frederick policies and procedures, providing overall direction, planning, and coordination of the activities for the Receiving, Mailroom/Transportation, Property, Fleet Services, Consolidated Warehouses, and Delivery sections. Our department's responsibilities include warehousing and distributing supplies and services; managing supply operations, including the NCI-Frederick central supply system and the maintenance warehouse; publishing the supply catalog; and managing, storing, and distributing hazardous materials.

Other responsibilities include fleet management, acquiring vehicles and managing the vehicle maintenance program. We also provide courier services; manage outbound freight; receive, monitor, temporarily store, and ensure customs clearance on international shipments; review, monitor, and evaluate all inbound and third-party shipping invoices for programs; arrange for shipment of all types of freight to both foreign and domestic destinations, including material packaging; arrange transportation of household goods and personal effects for new hires, and assist with relocation services; manage the receipt and delivery of controlled substances; and provide personal property management support for NCI-Frederick.

The best thing about working at NCI-Frederick...

Every day brings a different challenge. I'm constantly dealing with issues in one of the many areas in which I have responsibility. I also like dealing with individuals from all walks of life and different ethnic backgrounds, who are all working towards a very worthwhile



Byron Bowie with his staff. Left to right: Dave Mayo, Mr. Bowie, Ron Brown, Robin Shelhorse, Steve Koogle, and Garry Staley.

goal in the research and development related to the causes of and cures for cancer and AIDS.

How long have you worked at NCI-Frederick? In what capacity?

It's hard to pinpoint the exact date when I started at the facility. I worked summers at Fort Detrick while in high school. I was hired in the summer of 1972 by Paul Hausler, Grounds Crew/Labor Shop. I started with the labor crew and about a year later became a driver for the Delivery section; then I worked in the Mailroom and Receiving. In December 1978, I sustained a back injury on the job and was off for a substantial period. In January of 1980, OHS facilitated my transfer to Property Management as a clerk because of my lifting restrictions. In 1985, I was promoted to Manager, Property Accountability, and in November 2000,

I became Deputy Manager of Logistics Services and Manager of Property Accountability. In August of 2003, I became the Operations Manager of the Logistics Support Department. Most of my training has been on the job, but I have earned certification in "Government Property Administration" and in "Motor Vehicle Management."

NCI-Frederick has changed a lot since...

When I started in 1972, I performed grounds crew work and provided support to the craftsmen. Now I provide overall direction, planning, and coordination of activities for the multiple support functions to the entire facility. My job is much easier because of the support of the SAIC-Frederick, Inc., management team and the experience and knowledge of my staff, Garry Staley, Robin Shelhorse, Joseph "Dave" Mayo, Steve Koogle, and Ron Brown, who supervise the functional areas.

The growth of the facility has been very interesting, going from a couple hundred employees and a handful of buildings to approximately 3,500 employees and 68 acres on- and off-site.

Awards and recognition

The Property Team and I have been recognized on several occasions for our participation in the donation of excess education-related property to various nonprofit educational organizations. Also, I have received Performance Awards for Leadership in both the NCI-Frederick Property environment and NCI-Bethesda. Most recently, one of my staff and I were recognized with a Certificate of Appreciation from the U.S. Department of Health and Human Services for our assistance with the development and implementation of the HHS Motor Vehicle Management Information System. ♦

Environment, Health, and Safety Program

Team Up for Fire Safety

It hasn't been too long since you heard the blare of a fire alarm and quickly left your building with your colleagues to a place of safety beyond the building. Most likely, Peter Boving, Environment, Health, and Safety (EHS) Fire Prevention Inspector, timed your exit and then briefed you on fire safety precautions.

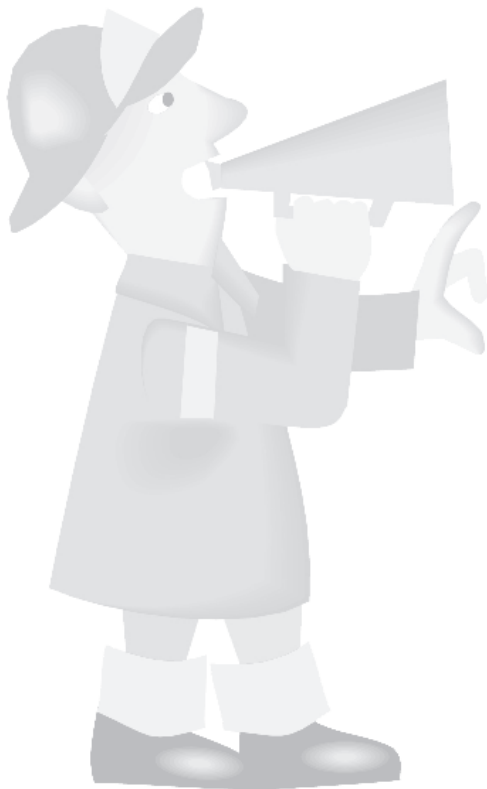
"These exercises ensure that you are familiar with the emergency egress routes and assembly areas for your building, and can reach these quickly. Thanks to all who participated in these drills. Your cooperation is greatly appreciated," Mr. Boving said. He noted that the average evacuation time for October's 65 drills involving 1,223 occupants was 1 minute, 27 seconds and that in real emergencies on post, the first engine arrives about two minutes after fire alarm activation.

Supervisors ensure everyone exits the building promptly, and immediately notify the Fire Department of missing

persons and their last known location. Remaining inside the building after the fire alarm sounds may be hazardous to you, firefighters, and even to your research, since search and rescue efforts will delay firefighter action to extinguish a fire.

"Evacuation drills are your opportunity to practice what you will do during those critical minutes. Please don't delay—get out and stay out! The next alarm will probably NOT be a drill!" Mr. Boving emphasized.

For your safety, assembly areas are beyond the space that the Fire Department will probably need to use. If the Fire Department also needs the streets around the building, you may not be able to return to the building for an extended time. Anticipate relocation as a group from the assembly area to Building 549 Café or another shelter area. "If asked to do so, please go directly to the designated shelter. We will need to be able to find you!" Mr. Boving said. ♦



Make your workplace fire-safe:

Coffee-makers

- Never place a coffee-maker in a laboratory or near highly combustible material.
- Make sure coffee-makers are turned off when no one will be there.
- Use only coffee pots with an insulated carafe, or an automatic shut-off. These will eliminate, or minimize, the hazard associated with the warming element.

Heaters

- Unplug the heater or turn it off when you leave the area.
- Do not use extension cords with heating equipment.
- The amount of power connected to each electrical circuit must be below the maximum capacity rating of the circuit.
- EHS must approve heaters before they can be used at NCI-Frederick; all heaters must be UL-listed and have a thermostat and a tip-over switch. Do NOT plug heaters into power strips, because the heaters' draw may be beyond the rating of the power strip.

BUT, when the fire alarm sounds:

- Remember, smoke from a trash can fire can fill an office in about two minutes.
- Don't take time to unplug anything—just grab your keys and ID, turn off your room lights and close your door while leaving.
- Close fire doors as you leave the building through the nearest safe exit.
- Walk to the assembly area and do not re-enter the building until you are told it is safe. ♦

Special Events



“Spooktacular”

1st Place: “Thriller”

Marianne Subleski
Kris Pike
Teri Plona
Lisa Bodine

2nd Place: “Wendy”

Charlene Miller



“Creative” Individual

1st Place: “Guitar Man”

Paul Stokely

2nd Place: “Rick James”

T.J. Luck



“Bootiful”

1st Place: “Lobster/Clam”

Bonnie Baxley
Lauren Mora-Smith

2nd Place: “Witch”

Tanya Obreiter

Halloween Costume Contest



“Creative” Group

2nd Place: “Charlie Brown”

Howard Young, Della Reynolds, Debbie Hodge,
Dave Van-echo, Anit Sharma, Hong Dang,
Mike Sanford, Kevin Lock



“Creative” Group

1st Place: “Willy Wonka”

Laurel Hughes, Anna Mason, Veronica Hall, Bill Bere,
Jillian Whittaker, Sarah Reynolds, Johnathan Weiss

Special Events



PALS Trick or Treat Parade



Outreach and Special Programs

PALS Tots Learn about Fire Prevention

In October, Mr. Peter Boving, Environment, Health, and Safety (EHS) Fire Prevention Inspector, visited the children at the Play and Learn Station (PALS), to read a “sing-along” story, *Fire Truck!* When the reading and sing-along were finished, the children visited a real fire truck, sat in the driver’s seat, handled a firefighter’s helmet, gloves, and coat, and examined hoses, gauges, and control dials, courtesy of Fort Detrick Fire and Emergency Services.

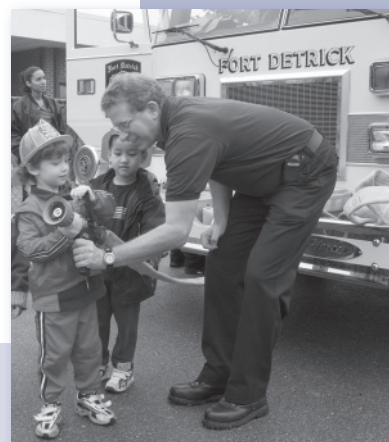
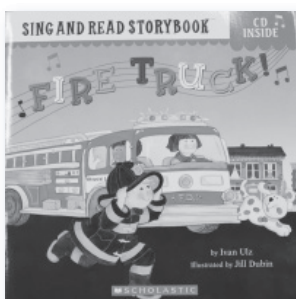
Fire Prevention Week was established in 1911 to encourage fire safety education. The Fire Marshals’ Association of North America began to push for a national observance to commemorate the Great Chicago Fire on October 8–9, 1871, which killed more than 250; left 100,000 homeless; destroyed more than 17,400 structures; and burned 2,000 acres. The fire marshals believed that the best way to commemorate the Chicago fire was

to annually bring to people’s attention ways the public could prevent fires at home and at work. See <http://www.firepreventionweek.org> for more information.

Ironically, the same year that the Fire Marshals’ Association decided to commemorate the Great Chicago Fire and teach people how to prevent fires, 147 people, mostly young immigrant women, died in the Triangle Shirtwaist Company fire in New York City. When fire broke out on the eighth floor of the crowded blouse factory, elevators could not carry the workers out quickly enough, and inward opening exit doors were blocked. The burning contents of the “fireproof” building caused many to jump from the upper floors to their deaths. On March 28, 1911, as funeral processions and worker safety protests were under way, the first New York law to protect shop laborers was drafted. See <http://www.ilr.cornell.edu/trianglefire/narrative1.html> for the whole story.

Finally, in 1920, President Woodrow Wilson issued the first national fire prevention day, which evolved into an annual weekly observance in October.

Mr. Boving noted that the keys to fire safety are prevention, early notification, and quick evacuation. Clean out those boxes of junk, change smoke detector batteries with the time change, and always know the way out—at home and at work. “Real fires are smoky, dark, and hot. You have only a minute or two to get outside, so get out without delay, and stay out until the fire department tells you it is OK to return to your building.” ♦



Outreach and Special Programs

SIP Earns Local Award

NCI-Frederick's Werner H. Kirsten Student Intern Program (SIP) received the Live Here! Work Here! Horizon Award from the Frederick County Chamber of Commerce at the Chamber's 93rd annual dinner on November 30. This year's theme was "Celebrate Education."

The award recognizes "a business or organization that has provided exceptional work-study, internship, mentoring or similar opportunities

to prepare local students for a successful future."

For more information, visit the Frederick Chamber's Web site at <http://www.frederickchamber.org/>.

"We want to thank everyone at the NCI-Frederick who participates in and supports this program. We would not be receiving this award without a dedicated network of individuals willing to help make these internships available to area high school students," said Julie Hartman, spokesperson for Community Outreach. ♦

Where Are They Now?

From time to time, you may be in touch with one of your past interns or with a friend or relative who was once an SIP here. If so, please let us know what career path the intern has taken, whether science or otherwise. ♦

Frederick Employee Diversity Team

Diversity Celebrated in Various Programs at NCI-Frederick

November is a special month for thanksgiving in the United States, and that was reflected in events at NCI-Frederick. Facilities Maintenance and Engineering headed a food drive, and the Diversity Team partnered with the Scientific Library to focus on deaf awareness. ♦

Deaf Awareness

The Scientific Library, Occupational Health Services, and the Frederick Employee Diversity Team presented a three-part program on deafness. As with previous events, the program included a movie, a book discussion, and expert speakers.

The academy award-winning *Children of a Lesser God*, a 1986 movie starring William Hurt and Marlee Matlin, was shown in October. Hurt played a newly hired teacher at a school for deaf children, where he met and was attracted to the deaf, withdrawn janitor, played by Matlin.

The novel, *In This Sign*, by Joanne Greenberg, explores how a newly

married deaf couple copes with the "barrier" deafness creates between the couple and most of society. The birth of a hearing daughter enriches, and complicates, their lives.

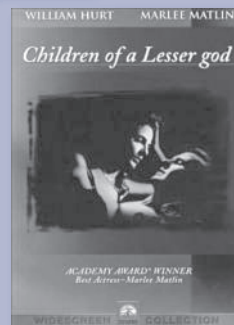
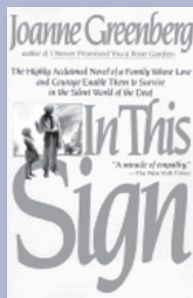
Lisa Houck and Louise Hansch, itinerant teachers for the deaf and hard of hearing in Frederick County public schools, offered their thoughts and insights on deafness. ♦

American Indian and Alaska Native Heritage Month

November was also the month to celebrate our American Indian and Alaska Native heritages. On the Bethesda campus, NIH presented a symposium on the research done in these communities in recent years. The program was a joint venture of the NIH and the Indian Health Service. This was followed a few days later by a Lakota lecturer who spoke on traditional healing and contemporary health care. ♦

Diversity Day with Fort Detrick

Plans are underway for a late winter or early spring Fort Detrick Special Emphasis Program on Diversity. The NCI-Frederick Employee Diversity Team will participate. The program will include entertainment as well samplings of various ethnic foods, such as Iranian, Ethiopian, Indian, Hispanic, Spanish, Chinese, Japanese, American, and Thai. Watch your e-mails, bulletin board flyers, and other communications for details. ♦



Chili Cook-off

And the Winner Is...

The suspense was nearly palpable. And so, in fact, was the mouth-watering aroma of chili quietly simmering in unmarked containers around the room. This was the 3rd Annual Chili Cook-off, sponsored by Protective Services in November, and over 80 people came to pick their top three favorites from among 13 chilis.

Each entry was marked only with a numeric tag. No other clues gave away the cook or the type of chili, unless you happened to read the General Guidelines from Tom Gannon-Miller, manager of Protective Services, which included such instructions as, "Sample all chilis. Even those from a can (Paul)."

More than a Free Lunch

According to Mr. Gannon-Miller, the purpose of the cook-off is, first, to have a good time. Second, however, is to draw attention to the quality of services provided by Protective Services. In addition to voting for the best chili, each attendee was asked to fill out a survey on the services provided by three groups within the department: the Protective Services officers, shuttle drivers, and management. This year, Mr. Gannon-Miller added an open question asking people to describe any security concerns they might have while working on campus. "If any major



concerns are identified in this survey, I will take them to the Emergency Preparedness Committee for review," explained Mr. Gannon-Miller.

The Winning Recipe

First prize of a 30-day reserved parking space went to Chili #13, a chicken and white bean chili by Mary Carol Fleming of Occupational Health Services. According to Ms. Fleming, her chili was sheer "beginner's luck." It was her first time entering the contest, and her first time cooking that particular recipe, which she adapted from one found on the Internet. The reserved parking space was another stroke of luck—Ms. Fleming was recovering from a leg injury. "It's wonderful to have a guaranteed space close to the building," she commented, adding, "this couldn't have come at a better time."

Second place went to Barbara Birnman (chili #3), Office of Scientific Operations, who received a 15-day parking space, and the third place, 5-day reserved space went to Siobhan Tierney (chili #5) of Environment, Health, and Safety. ♦



Bow Hunting Season Now Open

The Fort Detrick bow hunting season kicked off in October and will last until the end of January, to coincide with the Maryland state deer hunting season. All active and retired military, Fort Detrick civilian employees, and government and contractor employees and their dependents (12 years of age or older) are eligible to participate.

Safety First

The qualification test is only part of what makes the hunt safe. In fact, in the 17 years that bow hunting has been taking place at Fort Detrick, there has never been an injury, according to Lt. Stealey. He attributes this safety record to the excellent management of the program. Many people are

Hunting Helps Manage the Herd

The hunt was established to help manage the base's deer herd, which has grown to over 125 deer in the last 17 years. According to Lt. Stealey, the correct "cultural carrying capacity," or the optimal number of animals the base can support, is 20 to 40 animals. The hunt helps keep the numbers closer to the appropriate levels. "We usually have 15 to 20 hunters each year," said Lt. Stealey, and "these hunters take an average of 30 to 50 animals per year."

Bow Hunting Takes Special Skills

Lt. Stealey explained that bow hunting is a specialized form of hunting, which requires the hunter to have not only excellent shooting skills, but also great patience in tracking an animal. Because the animal can easily detect the hunter's presence, the hunter must be stealthy, know the animal, read the wind, and know when to take a shot. If done properly, this form of hunting is actually more humane than hunting with a firearm because of the types of arrows used and the skill required to handle the equipment.

Most of the hunters keep the venison to eat, but some donate it to Farmers and Hunters Feeding the Hungry, a state-run program to help feed the hungry throughout Maryland. An average deer yields about 50 pounds of meat, so a single donation can go a long way toward helping those less fortunate.

How You Can Participate

Hunters are welcome to participate as long as the season is open. To schedule a qualification test, or for more information, contact Lt. Stealey at 301-619-2770, or david.stealey@amedd.army.mil. ♦



Bill McCann (left), a Systems Administrator with Akimeka, an Army subcontractor, takes the qualification test under the watchful eye of Lt. David Stealey, Provost Marshal's Office.

Hunters Must Qualify

All hunters must pass a qualification test in order to participate in the hunt. Lt. David Stealey, of the Provost Marshal's Office, administers the test and manages the hunt. According to Lt. Stealey, in order to qualify, the hunter must accurately hit 3 of 5 shots taken at ranges between 15 and 30 yards from the target. Lt. Stealey inspects all equipment and observes the hunter during the test. In addition, each hunter must read the Fort Detrick Bow Hunting Regulations and the Maryland Hunting Regulations and sign a statement that he or she understands them.

involved in the event, from the Natural Resources Officer to the Post Safety Officer, personnel from the Directorate of Morale, Welfare and Recreation, even attorneys—and all make recommendations to ensure that the hunt is safe, humane, and complies with state regulations.

The hunting takes place at the north end of the Fort Detrick property, in a section that is divided into 3 major hunting areas. The perimeters are clearly marked with barricades, signs, and range flags to prevent pedestrian and vehicle traffic from entering the areas when hunting is taking place. If a non-hunter enters a hunting area, the hunting must cease immediately and resume only when the non-hunter leaves the area.

New Faces at NCI-Frederick

NCI-Frederick Welcomes New Staff

Sixty-four people joined our Facility in June, July, and August, 2005.

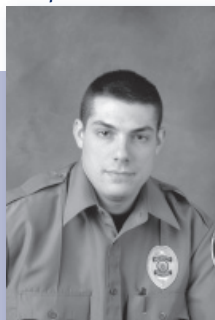
Charles River Laboratories welcomes...

Brandy L. Knott
Amy L. Mackley
Jacqueline D. Melby
Kimberly L. Shafer
Sara K. Smith
Vicki S. Winpigler ♦

Brandy Knott



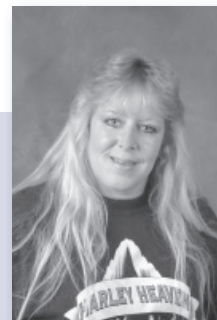
Christopher Bariatti



NCI-Frederick welcomes...

Monika Kaczmarek
Elzbieta Nowak
Prasad Vennalakanti Venkat
Sichuan Xi
Mi Young Yang ♦

Vicki Winpigler



SAIC-Frederick, Inc., welcomes...

Sara Smith



Alexander Adelsberger
Kelley Banfield
Christopher Bariatti
Nicole Bowers
Heather Bridge
Oxcene Bruneau
Tamalae Burnette
Gloria Caballero
Iris Cabrera
Chacko Chakiath
Roselyn Chin
Sung Chin
Jaime Conley
Luis Cordeiro
Tracy Dean
Avinoam Fishman
Nancy Flint
Muditha Gunasinghe
Arica Guthrie
Jennifer Harris
Todd Hartley
Hyunbum Jang
Troy Kemp
Kimberly Klarmann
Rani Kota
Mohanana Kunnatha
Helen Matthews

Kimberly McCall
Carrie Mccracken
Melissa McGraw
Melanie Michel
Diana Mickiene
Thea Miller
Marilyn Mouer
Deborah Peters
Erin Pojunas
Laurie Queen
Lila Rutten
Tin Sein
Mary Siegle
Amy Sloan
Walter Thompson
Martha Till
Michael Tovey
Emma Travis-Howard
Matthew Westerman
Salome Winker-Laroche
Sabrina Wong
Loni Wronka
Sherry Yu
Yunkai Yu
Abigail Yuscavage
Jie Zheng ♦

Sichuan Xi



Charles River Laboratories

Stely Wins Exceptional Employee Award



The Values Awards program, one of several Charles River Laboratories, Corporate, programs, provides a tool for spotlighting peers, supervisors, or subordinates—individuals or teams—who they feel deserve special

recognition. This is the twelfth year the program has been used to recognize employees' contributions to the company.

Charles River-wide, 400 nominations were submitted for employees who have elevated the quality of animal care, enhanced biosecurity, significantly impacted cost savings, contributed innovative ideas, improved workplace safety, or built team spirit in a department or facility.

Nominations from all levels within the organization, from all job disciplines, and from every U.S. site were reviewed, and winners chosen by nomination review committees, comprised of employees, also from all sites and levels within the organization and led by a corporate officer.

Richard Stely, a 30-year CRL employee, received the prestigious

Exceptional Employee Award for 2005. According to the co-workers who nominated him, there is no "my job" or "your job" for Richard Stely. He is always available wherever necessary at the Animal Production Area (APA), and over the years, many employees have benefited from or at least witnessed Mr. Stely's generosity of spirit. Whether you need donated leave, help in cage wash, or are raising money for the homeless, Mr. Stely is always the first in line to participate. Nor does Mr. Stely limit his generosity to the work site: He also has donated 128 pints of blood to the American Red Cross.

"Mr. Stely can only be described as someone who gives from his heart. We are so proud to have him as part of APA," one of his co-workers commented. ♦

SAIC-Frederick, Inc.

Second Consolidated NCI-Frederick Executive Summary

SAIC-Frederick, Inc., again spearheaded the NCI-Frederick Executive Summary, a booklet that succinctly summarizes NCI-Frederick's accomplishments and focuses on the breadth and depth of its science. Recruiters are finding it an invaluable tool as they attend job and career fairs and meet with job candidates. ♦

Winter Staff Meeting

By the time you are reading this, SAIC-Frederick, Inc., will have held its annual Winter Staff Meeting, scheduled for December 15 this year. The program will recognize the special achievements, both scientific and administrative, of a number of employees here. ♦

Occupational Health Services

SAIC-Frederick, Inc., welcomed Alberta Peugeot as the new OHS manager in October. ♦

Reaching Out

As you will have noted on the monthly Spotlight (http://web/news/spotlight/sl_sept05.asp), the latter half of September and all of October were devoted to an article about unique ways that NCI-Frederick could help with relief efforts for Hurricane Katrina. Since NCI-Frederick is a federally funded research and development center, and is a contractor-operated facility, Dr. Craig Reynolds, NCI Associate Director for NCI-Frederick, proposed that we offer temporary space to "guest researchers," those who were displaced from universities and laboratories in Louisiana, Alabama, and Mississippi. Dr. Reynolds

appointed an NCI-Frederick Katrina Relief Task Force that included Donald Harne, NCI; Galen Mayfield, DMS; Susan Wilson, WISCO; Ellen Miller, SAIC-Frederick, Inc.; Dr. Kristin Komschlies, NCI; and Cheryl Parrott, NCI.

SAIC Corporate also provided help through a relief fund for employees and their families, as well as financial aid. In the immediate aftermath of the hurricane, a relief team convoy took gas, water, and food, as well as chain saws and related materials, to those in the affected areas. Thanks to a blending of modern technology and more traditional tools, finding those who needed help was a little easier than it might have been in the past. With many street signs down, relief team members often found employees by using global positioning locators and then cut through debris with chain saws to reach stranded employees. ♦

Data Management Services (DMS)

Data Management Services: Computers and Statistical Support

Although perhaps most widely known for our Microcomputer Support and Web Development services, C&SS also offers many other services to the NCI-Frederick community. In this issue of *The Poster* we highlight some of these other services.

Statistical Consultation

The Statistical Consultation group provides a wide array of mathematical and statistical consulting services to the NCI-Frederick scientific community. The director and consulting statisticians work in collaboration with principal investigators through all facets of the scientific process: from development and formulation of research and statistical hypotheses through design of experiments and statistical analyses, preparation of technical reports and modern graphics, to preparation of formal scientific documents and publications in peer-reviewed journals. ♦

Custom Software Development

Our team of analysts and developers employs the most modern methodologies and tools to create custom software solutions to meet the unique needs and requirements of NCI-Frederick. Our staff can assist you with both administrative and scientific programming needs, as well as Web design and development services. Visit the C&SS Web site at <http://css.ncifcrf.gov> or call 301-846-1060 for information about custom development services available from C&SS. ♦

Technology Advocacy and Consultation

As NCI-Frederick's information technology experts, C&SS continually explores and evaluates new technologies that could benefit the user community and further NCI-Frederick's mission. C&SS staff would be happy to meet with you to discuss your specific technology needs. ♦

Computer Software Training

The Fall 2005 training session is now closed. Watch for postings and e-mail notifications for the Winter schedule. Please see the Computer Software Training Web site at <http://css.ncifcrf.gov/training> for more information or to register for classes. ♦

Computer Services Helpdesk

The Computer Services Helpdesk provides the NCI-Frederick community with a single point of contact for computer assistance, information, service, and support. The Helpdesk is staffed from 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding NCI-Frederick holidays. Requests for service can also be placed via the C&SS Web site (<http://css.ncifcrf.gov/helpdesk>) 24 hours per day, seven days a week. ♦

Site-Licensed Software Available from the Helpdesk!

C&SS, in conjunction with the NCI, has worked to secure site licenses for many of the programs in broad use at NCI-Frederick. To view the growing list of software available from the Helpdesk, visit the C&SS Web site at <http://css.ncifcrf.gov/helpdesk/software.asp> or contact the Computer Services Helpdesk to borrow the software or request installation assistance. ♦

Excel for Scientists Class a Huge Success

The Excel for Scientists class was provided in response to requests for a more advanced Microsoft Excel class directed specifically to the scientific community at NCI-Frederick. This two-day class was first held at NCI-Frederick in September 1998 and provided by E. Joseph Billo, PhD, Associate Professor of Chemistry at Boston College. The course is based on Dr. Billo's book, *Excel for Chemists: A Comprehensive Guide, 2nd edition*. The book and the course focus on ways to apply Excel to advanced scientific problems and cover topics such as creating formulas and charts, linking documents, linear and non-linear regression analysis, and creating macros. ♦

Contacting C&SS

Computer Services Helpdesk
Web: <http://css.ncifcrf.gov/helpdesk>
E-mail: helpdesk@css.ncifcrf.gov
Phone: 301-846-5115

Hours of Operation:
8:00 a.m.–5:00 p.m.,
Monday through Friday

NCI-Frederick Webmasters
Phone: 301-846-6700
E-mail: webmaster@css.ncifcrf.gov
govwebmaster@css.ncifcrf.gov

Other Inquiries
Phone: 301-846-1060

Fisher BioServices Expands Biotech Services

The name is harder to say, but over the last three months we have gotten used to our new name, Fisher BioServices (formerly McKesson BioServices), and learned more about our new organization, Fisher Clinical Services, Inc., a division of Fisher Scientific International. McKesson BioServices and Lancaster Labs, Lancaster, PA, were brought into the Fisher Clinical Services fold within a week of one another. These acquisitions are important components to Fisher's growing service offering to pharmaceutical and biotech customers.

"During the past four years, we have experienced tremendous organic growth, more than doubling our sales since 2001," said Mike Ivers, General Manager of Fisher Clinical Services, North America. "This growth has come through investments in facilities, technologies, and people—all focused on customers' needs."

Fisher has expanded its own suite of clinical services, which were initially

focused on primary and secondary clinical packaging and distribution of clinical trial supplies. Today the offering includes comparator drug procurement for clinical drug trials, drug blinding and over-encapsulation, ancillary supply services, and global supply-chain management through its proprietary F.A.C.T.S. (Fisher Automated Clinical Trials Services) system.

Fisher's services include design, manufacturing, packaging, labeling, storage, distribution, and site management, including patient randomization and kit assignment, return processing, and drug destruction.

Most researchers have purchased laboratory supplies from Fisher Scientific, and know that our parent company, Fisher Scientific International Inc. is a leading provider of products and services to the scientific community. Fisher facilitates discovery by providing researchers and clinicians around the world with the tools they need.

Did you also know that Fisher

Scientific, founded in 1902, is a Fortune 500 company? Fisher has approximately 17,500 employees worldwide, with annual revenues expected to exceed \$5.5 billion in 2005. Fisher Scientific is a company committed to high standards and delivering on its promises to customers, shareholders, and employees alike.

BioServices staff is excited about the domestic and international opportunities associated with Fisher promises. In the words of Anita Dopkosky, Head of Sales and Marketing for Fisher BioServices, "We'll be working for an organization that truly understands what we do." Acquisition transitions always have their share of challenges, but change provides opportunity for growth and a chance to expand and take the business in new directions. We look forward to sharing these benefits with NCI-Frederick and its contractors through our continued support and management of NCI-Frederick Central Repository Services. ♦

The June Poster Puzzler winner: Dan Oleyar, Advanced Biomedical Computing Center, pictured here with Paul Miller, Executive Editor of *The Poster*, in front of Building 430.

See page 9 for the picture of this quarter's *Poster* challenge. ♦



Wilson Information Services Corporation (WISCO)

Let's Work Together: A Cooperative Project

Since August 2004, the Scientific Library, Occupational Health Services (OHS), and the Frederick Employee Diversity Team have presented programs with book discussion groups, movie showings, and expert speaker presentations. In addition, the cooperating groups purchase multiple copies of the books and materials to add to the circulating collection—great “pre-packaged” programs for your book clubs!

Current topics include Alzheimer's disease, autism, and heart disorders. Check the library's Web page (<http://www-library.ncifcrf.gov/science-cinema.aspx>) for future topics. ♦

Book Swap 2005: Rounding Up the Answers



Left to right: Martha Summers, Document Delivery Technician; Derdev Battsetseg, Interlibrary Loan Clerk; and Pam Noble, Serials Technician.

In October, the Scientific Library celebrated Medical Librarian's Month with a western theme, using the motto **Saddled with Health Questions? We Can Round Up the Answers!** Part of the activities included the Sixth Annual Book and Media Swap. We'd like to thank everyone who participated. ♦

PALS Art Gallery: A New Library Feature

WISCO has begun a new feature: children's art work. At the recent annual PALS silent auction fundraiser, a colorful array of children's art work was displayed in the courtyard of Building 549. Staff members were thrilled when Gene Anderson donated *Angels' Footsteps*. Once framed, it will be hung in the library. ♦

Library Orientations

Did you know you can learn about the Scientific Library's services? See demonstrations of the Library's Home Page and online catalog? All through a Scientific Library Orientation on the second Wednesday of every month, beginning at 2:30 p.m. Orientations do not require registration and are held in the Library's Microcomputer Lab, Building 549. Call 301-846-5840 to check for dates and times. Can't attend any of the regularly scheduled sessions? Call to schedule an individualized orientation. ♦

Instructional Training Opportunities

Take advantage of our FREE instructional training classes, from individual hands-on computer practice in our Microcomputer Lab to customized training classes. For example, if your time is limited, you might want to replace a staff meeting with an EndNote class for your group or have staff members take our individualized, easy-to-use Web tutorials. For information on our instructional training opportunities, including class descriptions and dates, please visit our Web site at <http://www-library.ncifcrf.gov> and go to “Library Training.” ♦

Center for Health Information (CHI) Expands, Physically and Virtually

The Center for Health Information (CHI) has been busy this fall, holding an open house; co-sponsoring the Lyme Disease program; offering a free class, “Finding Health Information Online”; setting up a monthly display at the Farmers' Market; and offering recipes that promote healthy living.

CHI's Web site, <http://www-library.ncifcrf.gov/health3.aspx>, now includes local programs and events and more links to health information. Check out both the new library space and the Web site. Comments or questions? Contact chi@ncifcrf.gov. ♦

In the spirit of the Farmers' Market recipes, here is a healthy, tasty treat for this holiday season. Clip'n'save this recipe from the *American Heart Association Quick and Easy Cookbook*, available at CHI! ♦

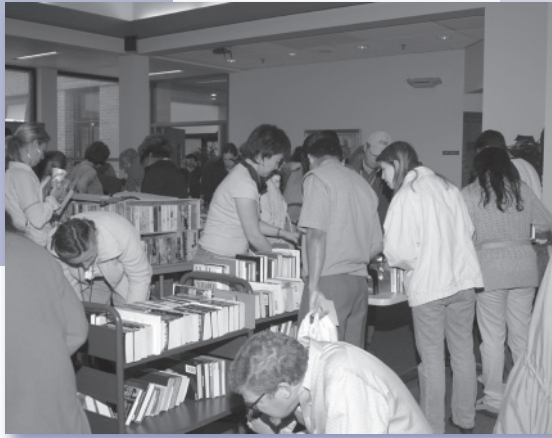
Easy Apple-Cinnamon Crisp

2/3 cup multigrain rolled oats or regular rolled oats
1/3 cup all-purpose flour
2 tablespoons firmly packed brown sugar
1 teaspoon ground cinnamon
1/4 cup margarine
16 oz. can water-packed sliced apples.

- 1. Preheat oven to 375°F.*
- 2. In a medium bowl, stir together oats, flour, brown sugar, and cinnamon. Cut in margarine until mixture is crumbly.*
- 3. Place drained apples in an 8-inch-square baking pan or glass baking dish.*
- 4. Sprinkle with oat mixture.*
- 5. Bake, uncovered, 30 minutes or until topping is light brown.*

Special Events

Book and Media Swap



Farmers' Market



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<http://web.ncifcrf.gov/ThePoster>

Employment Opportunities

Please contact the individual contractor's human resources representatives or go to the contractor's Web site for up-to-date, detailed information about jobs or research and training opportunities and requirements.

Charles River Laboratories

<http://www.criver.com>

Data Management Services

<http://css.ncifcrf.gov/about/dms.htm>

National Cancer Institute at Frederick
<http://www.training.nih.gov/postdoctoral>

SAIC-Frederick, Inc.

<http://saic.ncifcrf.gov>

www.saic.com

Wilson Information Services Corporation
<http://www-library.ncifcrf.gov>

Look for the Following Events Around Campus:

Poster Puzzler—Entry Deadline: January 27, 2006

Bow Hunting on Campus—through January 31, 2006

Computer Software Training Classes—Check the Web site for the schedule
<http://css.ncifcrf.gov/training>

Scientific Library Orientations—second Wednesday of every month

Fort Detrick Special Emphasis Program on Diversity—Spring 2006

Reminder: When you have a change in staff, such as new staff, a promotion, retirement, loss of staff, be sure to change the information on the NCI-Frederick database. You can do this online by logging on to <http://web.ncifcrf.gov/campus/phonebook/>, or by contacting your human resources representative. For more information, you may refer to the inside front cover of the *NCI-Frederick Telephone & Services Directory*.

Comments or suggestions for *The Poster* may be directed to <http://web.ncifcrf.gov/ThePoster>

The National Cancer Institute at Frederick

Poster

Frederick, MD 21702-1201

Weather Advisory

You peer out the bedroom window and see softly falling snow or the gleam of ice. Is the base closed? Here's how to find out. Call the Fort Detrick Telenews (301-619-7611), or listen to local radio/television stations for information.

Closing or Delayed Opening

Remember: When Fort Detrick is closed, NCI-Frederick is also closed; when Fort Detrick has a delayed opening, NCI-Frederick has a delayed opening. NCI-Frederick **does not** follow weather closing or delayed opening advisories for the NIH-Bethesda campus or Washington metropolitan area.

Early Dismissal

For early dismissal, NCI-Frederick operates independently of Fort Detrick; therefore, your supervisor will notify you if NCI-Frederick closes during work hours.

Who Ya Gonna Call?

Telephone

Recorded weather line	301-619-7611
Ft. Detrick toll free number	1-800-256-7621, *8, 37611#
TDD	301-619-2293

Internet (This will only be used if there is a change in operating hours.)

Fort Detrick's home page: <http://www.detrick.army.mil/>.

Weather information pops up automatically.

Radio/TV

Frederick, MD

WAFY	FM/103.1
WFMD	AM/930
WFRE	FM/99.9

Hagerstown, MD

WARK	AM/1490
WARX	FM/106.9
WDLA	FM/96.7
WJEJ	AM/1240
WHAG	AM/1410
WHAG	Channel 25 (TV)
WWMD	FM/101.5

Baltimore, MD

WBAL	AM/1090
WIYY	FM/97.9
WPOC	FM/93.1
WCAO	AM/600
WSMJ	FM/104.3
WJZ	TV/Ch. 13

Thurmont, MD

WTHU	AM/1450
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Williamsport, MD

WCRH	FM/90.5
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Chambersburg, PA

WCHA	AM/800
WIKZ	FM/95.1

Gettysburg, PA

WGET	AM/1320
WGTY	FM/107.7

Mercersburg, PA

WAYZ	FM/104.7
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Greencastle, PA

WHGT	AM/1380
WAYZ	FM/104.7

Martinsburg, WV

WEPM	AM/1340
WLTF	FM/97.5

Charles Town, WV

WMRE	AM/1550
WKSI	FM/98.3

Arlington, VA

WWVZ	FM/103.9
WWZZ	FM/104.1

Washington, DC

WTOP	AM/1500
WMZQ	FM/98.7
WRQX	FM/107.3



Energy Conservation Practices Recommended

We often get “to do” lists of ways we can conserve energy and be environmentally conscientious at home, but what about at work?

On September 26, 2005, President Bush directed heads of executive departments and agencies to conserve natural gas, electricity, gasoline, and diesel fuel while still effectively discharging their public responsibilities. According to Joseph W. Ellis, Assistant Secretary for Administration and Management, Department of Health and Human Services (HHS), the President specifically asked that agencies “temporarily curtail non-essential travel and other activities that use gasoline or diesel fuel, and encourage employees to carpool, telecommute, and use public transportation.”

The next day, Dr. Craig Reynolds, NCI Associate Director for NCI-Frederick, said in an e-mail: “Just as you have responded selflessly to those in need after the deadly hurricanes that struck our southern states, I hope you will respond to this call for energy conservation, made necessary in part by the effects of Katrina and Rita on the U.S. oil producing and refining industries in Texas and Louisiana.”

Dr. Reynolds pointed out that NCI-Frederick pays nearly \$10 million annually for utilities, including electricity, water, steam for heating the buildings, and waste removal. This year’s utility bill has risen by more than \$1 million. He added that “Because of the very tight budget situation, we must be creative in conserving energy. Talk frequently to your staff, colleagues, and supervisors about ways that we may be able to preserve more of our NCI-Frederick dollars for the research to which we are all dedicated.”

Dr. Reynolds has appointed Paul Miller, Analyst, to direct energy conservation measures at NCI-Frederick. If you have a suggestion, e-mail Mr. Miller at millerp@ncifcrf.gov. He, in turn, will disseminate these ideas to the rest of the NCI-Frederick community.

You Can Conserve Energy at Work

Use public transportation or join a carpool. Check out NCI-Frederick’s carpool Web site (see sidebar). Organizer Julie Hartman noted, “Finding and negotiating the terms of your car pool will be the responsibility of each individual.” If you have any questions or concerns, please contact jhartman@ncifcrf.gov.

Use natural lighting when possible. Since 20% of your electricity bill goes toward lighting, replace incandescent lights with compact fluorescent lights (CFLs). Changing just one light to an Energy Star-qualified bulb or fixture is as good for our environment as not driving your car for more than two weeks. If your office lights are not on motion sensors, turn off the lights when you leave. Turn off general and decorative/accent lights, and use task lighting where feasible, while still maintaining sufficient lighting levels for safety and productivity.

Activate power-down features of or turn off electrical items not in use or when you leave for the day. This includes office equipment and computer peripherals, such as printers and monitors.

Unplug equipment that drains energy even when not in use (cell phone chargers, fans, coffeemakers, desktop printers, radios, etc.). Turn off appliances, such as coffee pots and radios, when they are not being used.

Ensure that ventilation grills and fan coil units are not blocked by books, plants, or other obstructions.

Turn off copiers when not in use. Photocopy only what you need, and schedule high-volume copying jobs during periods of non-peak energy demand, such as early in the morning or late in the day. Conserve paper, either by printing on both sides or using the blank side as scrap paper.

Close or tilt window blinds to block direct sunlight to reduce cooling needs during warm months.

Save gas by driving the speed limit, accelerating and decelerating more slowly, and keeping tires pumped up.

Use durable coffee mugs instead of disposable cups.

Find Out More!

To find out more about energy conservation, check out the following Web sites:

Presidential Directive on Energy Conservation: <http://web.ncifcrf.gov/campus/administrative/ConservationNews-10-05.pdf>

NCI-Frederick car pooling: <http://web.ncifcrf.gov/campus/carpool/>

Energy savings and efficiency: www.eere.energy.gov/consumerinfo/energy_savers/
www.eia.doe.gov/emeu/efficiency/energy_savings.htm

HHS Energy Conservation and Management: <http://intranet.hhs.gov/energy/awards/newsletter/Oct2005.pdf> ♦