



THE NATIONAL CANCER INSTITUTE AT FREDERICK

MARCH 2010

Spring Research Festival 2010 Coming May 5 and 6

By Ashley DeVine, Staff Writer

It's that time of year again: NCI-Frederick and Fort Detrick present the fourteenth annual Spring Research Festival on May 5 and 6. May 3 begins the week of events that lead up to the festival, which will be held on the corner of Ditto Avenue and Sultan Street.

The theme for the 2010 Spring Research Festival is daunorubicin, a chemotherapy drug used to treat acute myeloid leukemia, acute lymphocytic leukemia, chronic myelogenous leukemia, and neuroblastoma. It works to decrease or cease the growth of cancer cells in the body. Daunorubicin comes from *Streptomyces peucetius*, a member of the family *Streptomycetaceae*, which produces many of the world's antibiotics. Streptomycetes are important decomposers found primarily in soil.

Julie Hartman, chairperson of the Spring Research Festival, said David Newman, Ph.D., chief of the Natural Products Branch, led the committee to selecting this year's theme.

"Dr. Newman always has interesting science going on in his lab or has great ideas, so we asked him to help us this year. He directed us to Suzanne Shipley in his lab, who had taken photos of fungi that helps in cancer treatment. The *Streptomyces peucetius* was the most appealing visually and it relates back to what we are doing here at NCI-Frederick on a daily basis," Hartman said.

The week of events begins with the postdoctoral symposium on May 3 titled "Cancer,



Streptomyces peucetius (shown above) is the fungus that produces daunorubicin, the theme for this year's Spring Research Festival (photo courtesy of Suzanne Shipley, Natural Products Support Group).

Inflammation, and Infectious Disease: Models and Mechanisms," chaired by Shyam Sharan, Ph.D., head of the Genetics of Cancer Susceptibility Section of the Mouse Cancer Genetics Program.

On May 4, the Frederick chapter of the Armed Forces Communications and Electronics Association will sponsor a golf tournament at the Maryland National Golf Club to raise funds for Spring Research Festival poster grants, the Young Engineers

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Spring Research Festival

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and Scientists program at Fort Detrick, and other local educational programs.

Poster presentations, commercial exhibits, and the health, education, and safety expo will be open 10:00 a.m.–2:30 p.m., May 5 and 6. The latest scientific equipment and technology will be on display at the Biomedical Research Equipment and Supplies Exhibit, sponsored by the Technical Sales Association.

Also on May 6, the National Interagency Confederation for Biological Research will host a Higher Education

Open House designed to attract students with an interest in science. Participating agencies include the U.S. Army Medical Research Institute of Infectious Diseases, the Navy Medical Biodefense Research Lab, the National Institute of Allergy and Infectious Diseases Integrated Research Facility, the National Cancer Institute, the Department of Homeland Security's National Biodefense Analysis and Countermeasures Center, the U.S. Department of Agriculture's Foreign Disease Weed Science Research Unit, and the Centers for Disease Control and Prevention.

Rita's Italian Ice and Zi Paní will serve food and refreshments again at this year's festival.

Registration for all poster presenters and exhibitors ends **April 21**. For information on all activities and events, visit the Spring Research Festival web site, <http://www.ncifcrf.gov/events/springfest/default.aspx>.

Sources:

<http://en.wikipedia.org/wiki/Streptomyces>

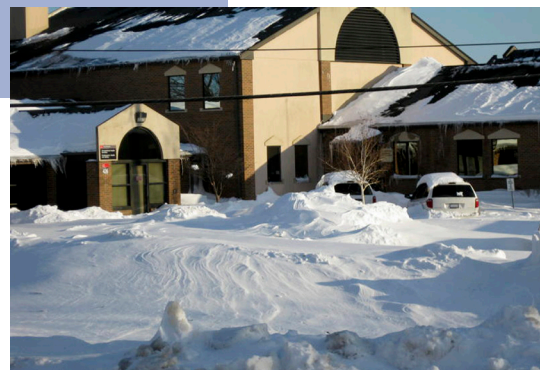
<http://en.wikipedia.org/wiki/Daunorubicin>

<http://microbewiki.kenyon.edu/index.php/Streptomyces> ■

BLIZZARD 2010



Our thanks to Walter Hubert, Nancy Walsh, and Kathleen Groover for these photos of the aftermath of the storms of February 6 and 10. The storms closed Fort Detrick for a week. ■



Personal Identity Verification Badges

NCI Issues New Badges

By Maritta Perry Grau, Staff Writer

In the past month, NCI-Frederick has initiated a new badging process requiring fingerprinting, background checks, and several forms to fill out and submit. The process for issuing Personal Identity Verification (PIV) cards for all employees, contractors, and affiliates at NIH, including NCI-Frederick, must be completed by the end of June 2010.

It's actually a fairly simple process; in fact, your group may have already begun. You will fill out certain forms, depending on your security clearance level, and will be fingerprinted. Then a background check will be done. Finally, you will be issued a new HHS ID badge. The new badge will contain your full legal name, your NIH Enterprise Directory (NED) number, and an electronic representation of two fingerprints.

Respond to E-mail within Five Days

You must respond promptly within five days to the initial e-mail notification from NED. If you don't complete the required forms within the designated time period, any partial information that may have been submitted will be lost and you will have to start over.

Complete eQIP Forms within Seven Days

When these forms have been processed, the Office of Research Services' Division of Personal Security and Access Control (DPSAC) will alert you and give you seven business days to complete the required documents for an "eQIP" (electronic Questionnaires for Investigative Processing) file. Depending on your security level, you may be asked to fill out three or more forms found on eQIP. You may, of course, fill out the forms during your work day; expect the form completion to take one to three

hours. Be sure to use the same full legal name on all forms, being consistent in spelling, capitalization, and any other information you provide on the forms.

You may want to print out the forms for your own records (remember to print on both sides of your paper). You will also be asked to print out one form that you must sign and deliver to DPSAC. Processing of the forms may take several weeks.



Both government and contractor employees are getting new PIV badges. However, employees need to keep their old NCI-Frederick cardkeys to access our buildings.

Make an Appointment

You will be notified to schedule appointments for fingerprinting and for picking up your new badge. The actual fingerprinting and badge pick-up can be done at any location convenient

for you (check <http://www.idbadge.nih.gov/badge/locatingbadge.asp> to find a nearby location and hours of operation). However, you'll probably want to arrange your appointments at the NCI-Frederick Enrollment and Badge Issuance locations.

At NCI-Frederick, you may schedule an appointment for fingerprinting and a new photograph (Enrollment Center) with Jim Young, 301-228-4501, youngja2@mail.nih.gov. The NCI-Frederick Enrollment Center is in Building 426, Room 159A. Be sure to bring a federal- or state-issued photo identification of yourself. For example, your Sam's Club membership card, even though it has your picture, won't be accepted, but a driver's license, passport, or other legal document will be.

To pick up your new HHS ID badge, you'll want to schedule an appointment with Will Donato, 301-228-4500, donatowv@mail.nih.gov. The NCI-Frederick Badging Center is in Building 426, Room 159.

New HHS ID Badge (PIV Card) Mandated by Presidential Directive

The PIV card resulted from the August 2004 Homeland Security Presidential Directive 12 (HSPD-12) to create a government-wide, uniform identification credential for all federal agencies.

Although the new badge replaces the current NIH ID badge, and you should carry it with you at all times, you will continue to use your current NIH badge for Fort Detrick gate and building access. You'll use the new PIV badge when you go to NIH facilities.

Detailed information about the badge process is available at: <http://web.ncifcrf.gov/news/BadgeInfo.asp>. Please note that the links on this page all revert to the same DPSAC page. You can also view a video about the badge process through one of these links. ■

CBIIT Develops Resources for Bench to Bedside

By Staff of the Advanced
Biomedical Computing Center

Most of you have probably heard of caBIG[®], the cancer Biomedical Informatics Grid. But do you realize what it does?

caBIG[®] is a huge network of resources that enables the collection, analysis, and sharing of data and knowledge along the entire research pathway from laboratory bench to patient bedside. NCI's Center for Biomedical Informatics and Information Technology (CBIIT) has been building this network for the last six years, according to its web site (<http://cabig.cancer.gov/caBIGstory/history/>).



In Silico Research Centers of Excellence Program Located at NCI-Frederick

One of the more recent initiatives to support this network is the *In Silico* Research Centers of Excellence (ISRCE) Program. This flagship effort uses data-mining and other *in silico* methods (any research program conducted using computational methods on biomedical data) to support caBIG[®] investigator-initiated research into the etiology, diagnosis, treatment, and prevention of cancer.

The centers are organized into a consortium whose mission is to broaden the usage of *in silico* research and data-mining methods across caBIG[®] and general cancer research communities. One of these centers is located at NCI-

Frederick in the Advanced Biomedical Computing Center (ABCC), SAIC-Frederick, Inc.

Cancer has been associated with chromosomal aberrations or deleterious modifications of gene or regulatory regions in the genome. While there is much evidence that there are predispositions to cancer, other tumors are sporadic and exhibit abnormal chromosomal characteristics associated with genomic instability.

To advance our understanding of cancer, we must move from studying simple associations between cancer and single nucleotide polymorphisms to addressing the underlying function of the genomic regions being affected.

As powerful as the genome-wide association studies (GWAS) are in the effort to understand the etiology of cancer, they only indicate what regions are important. They do not shed light on the underlying functionality related to “Why?”

Searching for Underlying Causes of Genomic Regional Instabilities

The *In Silico* Research Center at NCI-Frederick is investigating underlying causes for instability in these genomic regions caused by genomic factors related to the physical characteristics of the specific sequences making up these fragile regions. The researchers are primarily interested in non-exonic regions of the genome, where the impact of genomic instabilities is less well characterized.

ABCC plans to use existing data to determine if these features are more highly associated with cancer-related polymorphisms than are other regions of the genome. For example, do these features or polymorphisms correlate to risk-associated modifications such as those found in the Cancer Genome Atlas?

By using data from sources such as Genbank, traceDB, and dbEST, ABCC will create polymorphism “maps” of genomes from several species and perform a comparative genomic analysis to search for correlations between polymorphic regions and specific features.

Polymorphism Maps May Help Identify Genomic Variations

In addition, these polymorphism maps can be used to set guidelines for determining thresholds in GWAS studies by taking into account natural variation within the genome. Once ABCC has performed these analyses and made the results public and accessible, the group proposes to analyze human genomes from different ethnic groups.

The center will use the latest genomes and HapMap data to determine whether regions associated with genomic instability identified in the first phase of the study correlate with differences between ethnic groups and their associated risks to different cancers. ■

Researchers Develop New Way to Identify Privacy Issues in Large-Scale Studies

By Nancy Parrish, Staff Writer



Kevin Jacobs, Director, Scientific Operations and Bioinformatics, Core Genotyping Facility.

Genome-wide association studies (GWAS) involve the study of whole sets of DNA (or genomes) of many people to discover genetic variations, or markers, that may be associated with specific diseases. Findings from such studies may be used to develop new strategies for diagnosis and treatment of disease.¹

In a paper published in *Nature Genetics*, Kevin Jacobs and his colleagues describe some unexpected privacy issues related to the potential for linking data to an individual who participates in a large-scale study, such as GWAS. These issues may occur when publishing large sets of genetic frequency data. The goal of this work, according to Jacobs, is to inform the scientific community and to provide a clear, statistical framework that allows researchers to identify the potential for unintended information disclosure when publishing and sharing frequency data.

Jacobs recently joined the Core Genotyping Facility, NCI Advanced Technology Center, as the director of scientific operations and bioinformatics. With a bachelor of science degree from Case Western University, Jacobs trained in statistical genetics in the Department of Epidemiology and Biostatistics at Case Western Reserve School of Medicine. Today he is involved with more than a dozen GWAS and follow-up activities. He employs advanced genotyping, next-generation sequencing techniques and develops computational and statistical methodology to find genetic variants that contribute to cancer and related traits.

“Both NCI and SAIC-Frederick are committed to protecting the confidentiality of research subjects,” Jacobs said. “This work is important because it demonstrates an unexpected privacy risk and provides information that will hopefully aid in the development of improved policies that guide genetic research.” ■

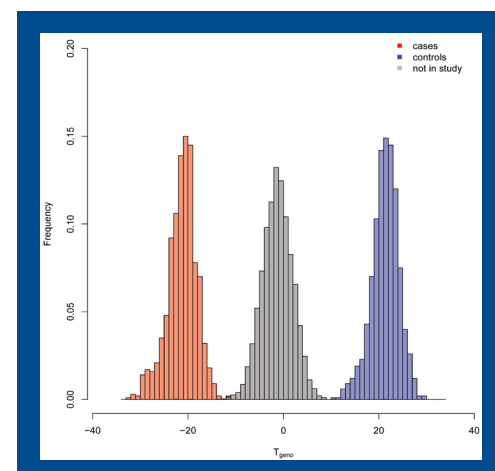
¹National Human Genome Research Institute, <http://www.genome.gov/20019523>.

A New Statistic and Its Power to Infer Membership in a Genome-wide Association Study Using Genotype Frequencies

Kevin B. Jacobs, Meredith Yeager, Sholom Wacholder, David Craig, Peter Kraft, David J. Hunter, Justin Paschal, Teri A. Manolio, Margaret Tucker, Robert N. Hoover, Gilles D. Thomas, Stephen J. Chanock, and Nilanjan Chatterjee
Nature Genetics 41(11):1253–1257, 2009

Aggregate results from genome-wide association studies (GWAS), such as genotype frequencies for cases and controls, were until recently often made available on public web sites because they were thought to disclose negligible information concerning an individual’s participation in a study. Homer et al. (*PLoS Genet* 4, e1000167 [2008]) recently suggested that a method for forensic detection of an individual’s contribution to an admixed DNA sample could be applied to aggregate GWAS data. Using a likelihood-based statistical framework, we developed an improved

statistic that uses genotype frequencies and individual genotypes to infer whether a specific individual or any close relatives participated in the GWAS and, if so, what the participant’s phenotype status is. Our statistic compares the logarithm of genotype frequencies, in contrast to that of Homer et al. (*PLoS Genet* 4, e1000167 [2008]), which is based on differences in either SNP probe intensity or allele frequencies. We derive the theoretical power of our test statistics and explore the empirical performance in scenarios with varying numbers of randomly chosen or top-associated SNPs.



Histogram of the membership statistic (T_{geno}) for a GWAS with 1,000 cases and controls, with genotypes from an Illumina HumanHap550 assay. The 1,000 cases (left), 1,000 controls (right), and 1,000 subjects not in the study (center) are well differentiated, indicating that the T_{geno} statistic can accurately infer participation in a GWAS and disease status from study frequency data.

The following 26 articles have been selected from 11 of the most prestigious science journals published during the past quarter.

Apoptosis

Li WQ, Guszczynski T, Hixon JA, Durum SK. Interleukin-7 regulates bim proapoptotic activity in peripheral T-cell survival. *Mol Cell Biol* 30(3):590–600, 2010.

Biostatistics

Jacobs KB, Yeager M, Wacholder S, Craig D, Kraft P, Hunter DJ, Paschal J, Manolio TA, Tucker M, Hoover RN, Thomas GD, Chanock SJ, Chatterjee N. A new statistic and its power to infer membership in a genome-wide association study using genotype frequencies. *Nat Genet* 41(11):1253–1257, 2009.

Cell and Tumor Biology

Checkley MA, Nagashima K, Lockett SJ, Nyswaner KM, Garfinkel DJ. P-body components are required for ty1 retrotransposition during assembly of retrotransposition-competent virus-like particles. *Mol Cell Biol* 30(2):382–398, 2010.

Chen L, Kwon YD, Zhou TQ, Wu XL, O'Dell S, Cavacini L, Hessel AJ, Pancera M, Tang M, Xu L, Yang ZY, Zhang MY, Arthos J, Burton DR, Dimitrov DS, Nabel GJ, Posner MR, Sodroski J, Wyatt R, Mascola JR, Kwong PD. Structural basis of immune evasion at the site of CD4 attachment on HIV-1 gp120. *Science* 326(5956):1123–1127, 2009.

Das K, Bandwar RP, White KL, Feng JY, Sarafianos SG, Tuske S, Tu XY, Clark AD, Boyer PL, Hou XR, Gaffney BL, Jones RA, Miller MD, Hughes SH, Arnold E. Structural basis for the role of the K65R mutation in HIV-1 reverse transcriptase polymerization, excision antagonism, and tenofovir resistance. *J Biol Chem* 284(50):35092–35100, 2009.

Meaburn KJ, Gudla PR, Khan S, Lockett SJ, Misteli T. Disease-specific gene repositioning in breast cancer. *J Cell Biol* 187(6):801–812, 2009.

Clinical Immunology

Salisch NC, Kaufmann DE, Awad AS, Reeves RK, Tighe DP, Li Y, Piatak M, Lifson JD, Evans DT, Pereyra F, Freeman GJ, Johnson RP. Inhibitory TCR coreceptor PD-1 is a sensitive indicator of low-level replication of SIV and HIV-1. *J Immunol* 184(1):476–487, 2010.

Experimental Therapeutics, Molecular Targets, and Chemical Biology

Yan X, Yin J, Yao H, Mao N, Yang Y, Pan L. Increased expression of annexin A3 is a mechanism of platinum resistance in ovarian cancer. *Cancer Res* 70(4):1616–1624, 2010.

Genes, Structure, and Regulation

Hasumi Y, Baba M, Ajima R, Hasumi H, Valera VA, Klein ME, Haines DC, Merino MJ, Hong SB, Yamaguchi TP, Schmidt LS, Linehan WM. Homozygous loss of BHD causes early embryonic lethality and kidney tumor development with activation of mTORC1 and mTORC2. *Proc Natl Acad Sci USA* 106(44):18722–18727, 2009.

Lee KH, Li MM, Michalowski AM, Zhang XY, Liao HL, Chen LY, Xu Y, Wu XL, Huang J. A genomewide study identifies the Wnt signaling pathway as a major target of p53 in murine embryonic stem cells. *Proc Natl Acad Sci USA* 107(1):69–74, 2010.

Suva ML, Riggi N, Janiszewska M, Radovanovic I, Provero P, Stehle JC, Baumer K, Le Bitoux MA, Marino D, Cironi L, Marquez VE, Clement V, Stamenkovic I. EZH2 is essential for glioblastoma cancer stem cell maintenance. *Cancer Res* 69(24):9211–9218, 2009.

Host Defense

Bolton DL, Minang JT, Trivett MT, Song KM, Tuscher JJ, Li Y, Piatak M, O'Connor D, Lifson JD, Roederer M, Ohlen C. Trafficking, persistence, and activation state of adoptively transferred allogeneic and autologous simian immunodeficiency virus-specific CD8(+) T cell clones during acute and chronic infection of rhesus macaques. *J Immunol* 184(1):303–314, 2010.

Minang JT, Trivett MT, Bolton DL, Trubey CM, Estes JD, Li Y, Smedley J, Pung R, Rosati M, Jalah R, Pavlakis GN, Felber BK, Piatak M, Roederer M, Lifson JD, Ott DE, Ohlen C. Distribution, persistence, and efficacy of adoptively transferred central and effector memory-derived autologous simian immunodeficiency virus-specific CD8(+) T cell clones in rhesus macaques during acute infection. *J Immunol* 184(1):315–326, 2010.

HIV

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Huang JH, Goedert JJ, Sundberg EJ, Cung TDH, Burke PS, Martin MP, Preiss L, Lifson J, Lichterfeld M, Carrington M, Yu XG. HLA-B*35-Px-mediated acceleration of HIV-1 infection by increased inhibitory immunoregulatory impulses. *J Exp Med* 206(13):2959–2966, 2009.

Thomas R, Apps R, Qi Y, Gao XJ, Male V, O'Huigin C, O'Connor G, Ge DL, Fellay J, Martin JN, Margolick J, Goedert JJ, Buchbinder S, Kirk GD, Martin MP, Telenti A, Deeks SG, Walker BD, Goldstein D, McVicar DW, Moffett A, Carrington M. HLA-C cell surface expression and control of HIV/AIDS correlate with a variant upstream of HLA-C. *Nat Genet* 41(12):1290–U46, 2009.

Immunobiology

Pletnev S, Gurskaya NG, Pletneva NV, Lukyanov KA, Chudakov DM, Martynov VI, Popov VO, Kovalchuk MV, Wlodawer A, Dauter Z, Pletnev V. Structural basis for phototoxicity of the genetically encoded photosensitizer KillerRed. *J Biol Chem* 284(46):32028–32039, 2009.

Immunotherapy

Weiss JM, Back TC, Scarzello AJ, Subleski JJ, Hall VL, Stauffer JK, Chen X, Micic D, Alderson K, Murphy WJ, Wiltrout RH. Successful immunotherapy with IL-2/anti-CD40 induces the chemokine-mediated mitigation of an immunosuppressive tumor microenvironment. *Proc Natl Acad Sci USA* 106(46):19455–19460, 2009.

Inflammation

Whittaker GC, Orr SJ, Quigley L, Hughes L, Francischetti IMB, Zhang WG, McVicar DW. The linker for activation of B cells (LAB)/non-T cell activation linker (NTAL) regulates triggering receptor expressed on myeloid cells (TREM)-2 signaling and macrophage inflammatory responses independently of the linker for activation of T cells. *J Biol Chem* 285(5):2976–2985, 2010.

Oncogene

Ritt DA, Monson DM, Specht SI, Morrison DK. Impact of feedback phosphorylation and raf heterodimerization on normal and mutant B-raf signaling. *Mol Cell Biol* 30(3):806–819, 2010.

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Platinum Publications

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Taylor JG, Cheuk AT, Tsang PS, Chung JY, Song YK, Desai K, Yu YL, Chen QR, Shah K, Youngblood V, Fang J, Kim SY, Yeung C, Helman LJ, Mendoza A, Ngo V, Staudt LM, Wei JS, Khanna C, Catchpole D, Qualman SJ, Hewitt SM, Merlino G, Chanock SJ, Khan J. Identification of FGFR4-activating mutations in human rhabdomyosarcomas that promote metastasis in xenotransplanted models. *J Clin Invest* 119(11):3395–3407, 2009.

Prevention and Epidemiology

Wolpin BM, Kraft P, Gross M, Helzlsouer K, Bueno-de-Mesquita HB, Steplowski E, Stolzenberg-Solomon RZ, Arslan AA, Jacobs EJ, Lacroix A, Petersen G, Zheng W, Albanes D, Allen NE, Amundadottir L, Anderson G, Boutron-Ruault MC, Buring JE, Canzian F, Chanock SJ, Clipp S, Gaziano JM, Giovannucci EL, Hallmans G, Hankinson SE, Hoover RN, Hunter DJ,

Hutchinson A, Jacobs K, Kooperberg C, Lynch SM, Mendelsohn JB, Michaud DS, Overvad K, Patel AV, Rajkovic A, Sanchez MJ, Shu XO, Slimani N, Thomas G, Tobias GS, Trichopoulos D, Vineis P, Virtamo J, Wactawski-Wende J, Yu K, Zeleniuch-Jacquotte A, Hartge P, Fuchs CS. Pancreatic cancer risk and ABO blood group alleles: results from the pancreatic cancer cohort consortium. *Cancer Res* 70(3):1015–1023, 2010.

Retrovirus Biology

Jones KS, Green PL. Cloaked virus slips between cells. *Nat Med* 16(1):25–27, 2010.

Qualley DF, Stewart-Maynard KM, Wang F, Mitra M, Gorelick RJ, Rouzina I, Williams MC, Musier-Forsyth K. C-terminal domain modulates the nucleic acid chaperone activity of human T-cell leukemia virus type 1 nucleocapsid protein via an electrostatic mechanism. *J Biol Chem* 285(1):295–307, 2010.

RNA: Structure, Metabolism, and Catalysis

Zuo X, Wang J, Yu P, Eyler D, Xu H, Starich MR, Tiede DM, Simon AE, Kasprzak W, Schwieters CD, Shapiro BA, Wang YX. Solution structure of the cap-independent translational enhancer and ribosome-binding element in the 3' UTR of turnip crinkle virus. *Proc Natl Acad Sci USA* 107(4):1385–1390, 2010.

Signal Transduction

Dasgupta U, Bamba T, Chiantia S, Karim P, Abou Tayoun AN, Yonamine I, Rawat SS, Rao RP, Nagashima K, Fukusaki E, Puri V, Dolph PJ, Schwille P, Acharya JK, Acharya U. Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. *Proc Natl Acad Sci USA* 106(47):20063–20068, 2009. ■

Web Sites of Note

By Ashley DeVine, Staff Writer

Throughout our newsletter, you'll find web sites that provide you with more information than we can put in our articles. In addition, many days, weeks, and months are devoted to the recognition of particular health care issues. We've selected a few dates that seem most pertinent to NCI-Frederick.

March

National Colorectal Cancer Awareness Month: <http://www.cdc.gov/features/colorectalawareness/> and <http://www.medicinenet.com/script/main/art.asp?articlekey=16422>

National Nutrition Month: <http://www.eatright.org/NNM/content.aspx?id=7831&terms=nutrition+awareness+month>

April

Cancer Control Month: <http://www.cancer.gov/features/cancercontrol2009>

National Public Health Week, April 5–11: <http://www.nphw.org/nphw10/nphw2010.htm>

World Health Day, April 7: <http://www.who.int/world-health-day/en/>

May

HIV Vaccine Awareness Day, May 18: <http://www3.niaid.nih.gov/news/events/HVAD>

National Employee Health and Fitness Day, May 19: <http://physicalfitness.org/nehf.html>

National Cancer Research Month: <http://www.aacr.org/home/public--media/science-policy--government-affairs/national-cancer-research-month.aspx>

Advanced Technology Research Facility



The walls are made from giant precast concrete panels.

Advanced Technology Research Facility Takes Shape

By Nancy Parrish, Staff Writer

The Advanced Technology Research Facility at Riverside Research Park began to take shape in February with the tilt-up of the giant sections that make up the walls. The tilt-up of the exterior walls for the laboratory wings is scheduled for completion in March, and construction for the floors and roof will begin. Completion of the “cold dark shell” of the laboratory wings is expected by the end of the summer. Shown here are photos of the tilt-up of the walls of Wing D, which will house research laboratories of the Advanced Technology Program and the Center for Cancer Research. ■



Braces are attached to the panels while they are still on the ground.



Using the braces, workers guide the panel while a mobile crane lifts it away from the ground. Each panel weighs approximately 35 tons, according to Todd Hiltner, Construction Manager, Facilities Maintenance and Engineering.



A panel is lifted by the crane and moved into position.

Watch the Construction

You may view the construction in real time on the Matan web cam, at the following link: http://camera.mataninc.com:45452/view/viewer_index.shtml?id=1159.



The panel is set into place.

Ask the DEC

Helping Maintain the Integrity of Cancer Research

By Carolynne Keenan, NCI Ethics Office, Contributing Writer

The NCI Ethics Office's mission is to help keep our employees free from conflicts that could impact the integrity of cancer research. Employees must:

- file financial disclosure reports;
- report any outside employment, gifts, awards, and other honors; and
- act always in the best interest of the government.

The Ethics Office reviews the information to determine whether a conflict—or even the appearance of a conflict—exists. When people don't follow the regulations, repercussions can be serious.

Report Outside Income

Jack Snyder made national news for his ethics violation. Before joining the National Library of Medicine as the Associate Director of the Division of Specialized Information Services, Snyder operated a litigation consulting business, Medico-Legal-Forensic Services (MLFS). Part of his work included expert testimony at trials across the country. When he joined NIH, he was notified that he needed to stop working with MLFS. Instead, he continued receiving income from MLFS and never reported that information on his financial disclosure form (SF 278). To make matters worse, Snyder used his government phone to field calls from MLFS and used his government computer to create invoices. In addition to his misuse of government property charges, Snyder traveled to testify about MLFS-related business without taking annual leave. He used fewer than 25 days of annual leave in five years and was paid over \$22,000 for unclaimed annual leave when he left NIH.

Snyder was charged with a felony count of making a false statement on his

annual financial disclosure report, and was sentenced to one year's probation. In addition, he was required to serve 160 hours of community service and to pay a fine of \$200,000.

Avoid Accepting Gifts

Curtis Jones, an equipment program manager for the FBI, apparently thought accepting a holiday Caribbean cruise for him and his family as a thank-you from a government contractor was perfectly legitimate. Government ethics would disagree—as did the courts. Jones, according to the U.S. Office of Government Ethics web site (<http://www.usoge.gov/>), awarded the company a \$2 million government contract, and received a gift worth \$7,500 (the cruise).

Jones paid a \$5,000 fine, and was sentenced to two years' probation.

Be Careful in Retiree/Consultant Work

Jimmy Mayberry, a former special assistant to the associate director within the U.S. Department of the Interior, also didn't want to quit the workforce. So, he and his boss created a contractor position for Mayberry, who was slated for retirement. Mayberry, in a sense, created his own job, developing a statement of work for the position. It's no surprise, then, that he was the only bidder to receive an "excellent" score in all categories and be awarded the job.

Mayberry pleaded guilty to one count of taking actions that affected his personal financial interests, and was fined \$2,500 and given two years of probation, according to <http://www.usoge.gov>. (Note: There are ethically permissible ways that retirees can return to work for the government in positions similar to their previous jobs.)

Be Honest on Your Financial Disclosure Form

After James Wright retired from his job at the Defense Threat Reduction Agency (DTRA) in 2005, he continued using his expertise and formed a corporation,

VMW & Associates, with friend John Villanueva. Villanueva and VMW created a subcontract agreement with one of the competing companies submitting bids on a \$450,000 contract. Wright put himself in the position to steer actions to that company—most importantly, he awarded the contract to his company, according to usoge.gov. He never disclosed in his financial disclosure form that he had a financial interest in VMW.

In the aftermath, both Wright and Villanueva eventually pled guilty to a felony offense and spent six months in prison, with two years of supervised release. Luis Mercardo, the "M" in VMW, was fined \$250 and given two years' probation.

Ask the DEC

Have a burning ethics question? Not sure if you need to report a gift or an award? Just have a question about ethics in general? Have no fear: "Ask the DEC" is here. In each issue of the *Poster*, Andrea Q. Bernardo, the deputy ethics counselor, will address your ethics questions, concerns, and queries. Please submit questions and comments for publication to fitzpaca@mail.nih.gov. ■

NCI Ethics Office

6116 Executive Blvd, Suite 202
Rockville, MD 20852
301-496-1148

nciethics-r@mail.nih.gov

Hours: 8 a.m. to 4:30 p.m.

Web site:

<http://mynci.cancer.gov/admin/ethics>

Contractor Ethics Counselor

SAIC-Frederick, Inc.

Andi Gnuschke

301-846-6952

gnuschkea@mail.nih.gov

Employee Assistance Program

EAP: Comprehensive, Confidential, and Professional Services for NCI-Frederick and Its Families

By Selden Cooper, Employee Assistance Program, Guest Writer

NCI-Frederick's Employee Assistance Program (EAP) operates at the intersection of our personal and occupational lives, and is based on recognition that stress in one of these major arenas of life can easily spill over into the other. EAP is designed to prevent or mitigate such spill-over; to promote, conserve, enhance, and, where necessary, restore the well-being and functioning of employees and family members; and assist employees in achieving and maintaining acceptable job performance so as to maintain good standing with their employers. It is an expression of the NCI-Frederick's humanistic concern for the quality of life of employees and their families, whose well-being is indispensable to its mission.

EAP Serves the Whole Family

EAP delivers comprehensive, confidential, and professional services to the entire NCI community—including all employees and their families. These services address a wide spectrum of concerns or problems that do not have to be work-related. Problems may range from job performance, attendance, and workplace interpersonal problems to mental health conditions, substance abuse, family/relationship issues, stress, difficulties in negotiating life transitions, legal and financial problems, and health-related concerns.

Transition to BHS Broadens Scope of Services

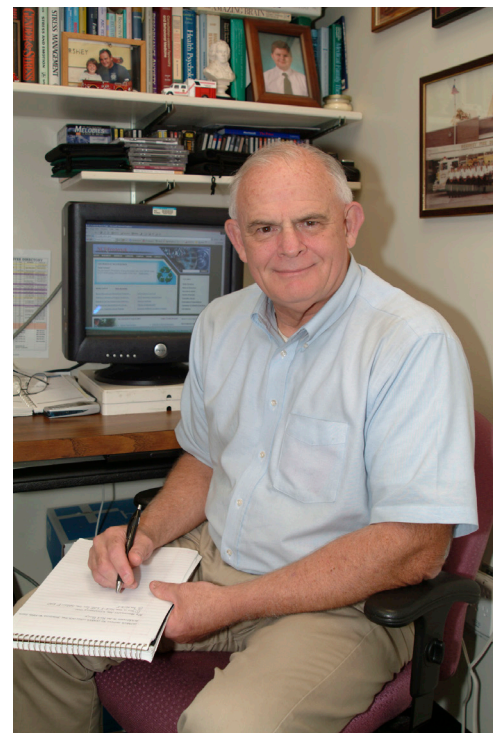
EAP has been in operation since the mid-1980s, originally as a part of Occupational Health Services (OHS). The transition of responsibility from OHS to Business Health Solutions (BHS) of Baltimore in 2006 broadened EAP's services to include: 1) a toll-free number to access a master's-level employee assistance professional 24 hours a day/seven days a week; 2) access to a nationwide affiliate network

of licensed professionals for up to five face-to-face EAP sessions if the client resides outside of the area, or would prefer to see a practitioner at an off-site location; 3) limited legal and financial consultation, consisting of an initial telephone discussion, with provisions for follow-up as needed; and 4) access to a sophisticated web site at <http://www.bhsonline.com>, which is a treasure trove of information on a wide range of EAP-related topics. All of these services are accessed through the BHS 24/7 toll-free number, 1-800-765-3277, which also serves as a first-response crisis intervention line.

As noted earlier, EAP is a confidential service; BHS is committed to safeguarding the privacy of any personal information that clients disclose. Confidentiality of client information is protected by stringent federal and Maryland laws and regulations, Department of Health and Human Services and NCI-Frederick EAP policy, and the ethical codes of the social work and employee assistance professions. However, legal and ethical exceptions to confidentiality exist, such as situations in which a client may pose an imminent risk to his or her physical welfare or to that of a third party, including reasonable suspicion of abuse or neglect of a child or vulnerable adult.

Most EAP Participation Is Voluntary

For federal employees, participation in EAP is voluntary, except in situations in which compliance with referral to EAP is a provision of a Job Rehabilitation Contract for violation of the Drug-Free Workplace Act. And, while contractors may mandate referrals to EAP, BHS discloses only compliance-related information, and, that, only after the client signs an informed, written authorization. Neither an employee's disclosure of information to the program,



Selden Cooper, LCSW-C, has more than 25 years of experience in employee assistance and has provided services to NCI-Frederick for nine years.

nor participation in it, may be used in a manner prejudicial to employment security or promotional opportunity. The confidentiality of alcohol- and drug-related information is protected by Federal Regulation 42 CFR, Part 2, which has the force of law; the regulation prohibits such information from being used to prosecute or otherwise penalize such clients.

On-Site Provider Here for You

NCI-Frederick's EAP provider is Selden Cooper. Cooper, in his ninth year here, holds two advanced degrees, as well as a Post-Master's Certificate in Human Services in Business and Industry; and is a Licensed Certified Social Worker-Clinical, a Board-Certified Diplomate in Clinical Social Work, and a Certified Employee Assistance Professional. Cooper has more than 25 years of experience in the EAP field, including previous service as the internal EAP provider in a major teaching medical

continued on page 11

Text Messaging While Driving

Be Safe! Don't Engage in Text Messaging while Driving

By Ashley DeVine, Staff Writer

The NCI-Frederick Protective Services Department would like to remind you that you will be ticketed by Department of Defense police if they observe you talking on your cell phone or text messaging while driving.

President Barack Obama issued Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving," in October to require executive agencies to take actions to decrease this practice.

All executive agencies are required to make sure federal employees are not text messaging while driving government-owned, -leased, or -rented vehicles (GOV), or while driving privately owned vehicles when performing official government business.

Government contractors and subcontractors are encouraged to adopt policies that ban text messaging while driving company-owned or -rented vehicles, GOV, or while driving privately owned vehicles when conducting any work on behalf of the government. ■



continued from page 10

center in New Jersey, and with the Office of Employee Assistance for the United States House of Representatives and United States Capitol Police.

Contact EAP Directly for an Appointment

Cooper is located in Building 372. His hours are Tuesdays and Wednesdays, 7:00 a.m. to 6:00 p.m., and Fridays, 7:00 to 11:00 a.m. Contact him at 301-846-1308. Alternatively, if you or a family member would prefer to receive a referral to a community-based affiliate, you may call the BHS

number (1-800-765-3277) to make such arrangements.

You can use EAP at any time to benefit your quality of life, job performance, and work satisfaction. Making a request for assistance is a sign of strength and courage, which can yield significant long-term personal and occupational benefits. EAP counseling and legal or financial consultation can be used any number of times for different issues within each calendar year. Individual and supervisory telephone consultations are unlimited, and the NCI-Frederick portal at the BHS web site is available 24 hours a day, seven days a week. ■

Employee Assistance Program

Selden Cooper, LCSW-C
Building 372
Tuesday, Wednesday
7:00 a.m.–6:00 p.m.
Friday
7:00–11:00 a.m.
301-846-1308

Think Before You Print

We Lost 2,400 Pounds

By Dan Fox, Financial Management, Guest Writer

2,400 pounds of paper, that is.

Looking at the six-month period between February 2009 and August 2009, NCI-Frederick ordered 1,400 cases of paper. In the last six-month period, we ordered only 1,280 cases of paper. This is a reduction of 120 cases of paper, which works out to 2,400 pounds (or more than a ton) of paper.

Hopefully, this is just the beginning of the benefits of everyone's response to a recent SAIC-Frederick cost-savings campaign called Think Before You Print. Introduced in late 2009, this initiative encourages employees throughout the facility to think carefully about how they handle their paper. Soon a web site will be available with more information on ways to save money and reduce the amount of materials used for printing and copying.

Don't Stop Now!

Please continue your efforts to save paper and help reduce the costs associated with printing. You can make saving paper a habit if you think before you hit the "Print" button. Here are some easy steps everyone can take right away:

- Print in color only when necessary.
- Preview your document before printing.
- Use the duplex function regularly.
- When creating handouts from PowerPoint slides, print multiple slides per page.
- Print only those pages of a document that you really need, using the "page range" selection.
- Reduce the use of paper files by converting documents to PDF and storing electronically.

If you have any cost-saving ideas relating to copying and printing, send them to the SAIC-Frederick Cost Savings Committee at:

APennySaved@mail.nih.gov. ■



Outreach and Special Programs


Summer Student Seminar Series Coming in June

By Ashley DeVine, Staff Writer

The 2010 Summer Student Seminar Series will feature weekly seminars presented by eight speakers from the agencies of the National Interagency Confederation for Biological Research. The series runs June 15–August 3, and will include the following speakers: Mike Bray, Ph.D., of the National Institute of Allergy and Infectious Diseases; Jon Nuss of the U.S. Army Medical Research Institute of Infectious Diseases; Kerry Pedley and Bill Schneider of the U.S. Department of Agriculture; Colonel Nancy Vause of the U.S. Army Medical Research and Materiel Command; Frank Ruscetti, Ph.D., Laboratory of Experimental Immunology, NCI-Frederick; and Katherine Schneider and Matthew Bender of the Department of Homeland Security's National Biodefense Analysis and Countermeasures Center.

As more information about the series becomes available, it will be listed on the following web site: <http://web.ncifcrf.gov/campus/outreach/seminar/>.

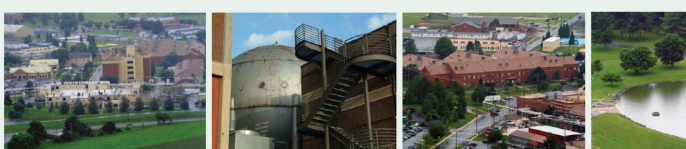
June 16 • June 23 • June 30 • July 7 • July 14 • July 21 • July 28 • August 4



SUMMER STUDENT SEMINAR SERIES

2009

NCI-FREDERICK • USAMRIID



All seminars are at 12 noon in the Building 549 main auditorium

*This seminar series is supported by the TRUE Foundation and is open to all NCI-Frederick and USAMRIID students and employees.
Students from outside the NCI-Ft. Detrick community are also welcome.
Refreshments are for students only.*

<http://web.ncifcrf.gov/campus/outreach/seminar/>



Registration Opens June 21 for TYCTWD 2010

Mark your calendars for July 21, 2010, for Take Your Child To Work Day (TYCTWD) at NCI-Frederick and Fort Detrick. It's a chance to show your children the important work you do each day. Registration opens June 21. ■



Fulbright Scholar from Serbia Begins Research at NCI-Frederick

By Ashley DeVine, Staff Writer

The Fulbright Program operates in more than 155 countries and awards 7,500 new grants annually, 800 of which are awarded to faculty and professionals around the world to come to the U.S. to perform advanced research and university lecturing, according to the Center for International Exchange of Scholars (CIES) web site (<http://www.cies.org/>). Mario Zlatovic is one of these Fulbright Scholars who has traveled from his home in Belgrade, Serbia, to perform research at NCI-Frederick.

Zlatovic began working at NCI-Frederick in November under Richard Gussio, Ph.D., and James Burnett, Ph.D., in the Target Structure-based Drug Discovery Group, NCI Developmental Therapeutics Program.

Back in Serbia, Zlatovic is a research associate for the Faculty of Chemistry at the University

of Belgrade. At first, he was not sure he would even apply to the Fulbright Program. He said his family and peers were the ones to convince him. "The number of grants for my country is not too big and for a rather long period there were no grants for basic natural sciences. So, I thought that my chances were quite meager," Zlatovic said. Later, he found out the Fulbright Program simply was not receiving many applications from his country. "I prepared my application without big hopes," he said.

The Application Process

Zlatovic said applying for the Fulbright Program seems simple at first glance, but becomes difficult when preparing the project proposal. "Almost to the end you are not sure about the duration of the program that will be approved. So you have to prepare your proposal very carefully, in a modular way, so that you can adjust to the timeline approved," Zlatovic said. The maximum duration of a Fulbright Scholar grant is nine months.

In choosing an institution in the U.S., Zlatovic benefitted from collaborations

that his professor and boss, Bogdan Solaja, Ph.D., had with NCI-Frederick and USAMRIID.

"From that collaboration, we took the main idea of the proposal and the people from NCI-Frederick, Dr. Richard Gussio and Dr. James Burnett, were kind enough to help me shape my project proposal," he said.

Several weeks after Zlatovic submitted his project and application,

all applicants were asked to attend a personal interview with the local Fulbright Committee. The committee selected five projects to be sent to Washington, DC, for approval. In December 2008, Zlatovic was informed that his project was one of the five selected. "Usually the projects recommended by local committees are approved as well, but there is always the possibility of a different decision, based on funding and priorities," he said.

In the spring of 2009, it was official; Zlatovic was chosen to be a Fulbright

Scholar. It was not until the summer that he learned the size of his grant and the duration of his research at NCI-Frederick. He said waiting for this information "was a rather suspenseful and dramatic period for me."

Research on Inhibitors of Botulinum Neurotoxin Serotype B

Zlatovic's research at NCI-Frederick is focused on "Building a Library of Small Molecules as Potent Inhibitors of Botulinum Neurotoxin B Activity." Botulinum neurotoxins (BoNTs) are the most poisonous of all known biological substances, and cases of accidental poisoning are reported annually, he said. BoNTs have increased in their use as therapies for muscle hyperactivity and spasticity, and they are favored agents for various cosmetic treatments. Therefore, the possibility of overdosing has become more of an issue. "The objective of this work is to increase our knowledge about this enzyme's mechanism of action, and to build a library of known small-molecule inhibitors of botulinum neurotoxin serotype B," Zlatovic said.

So far, Zlatovic's experience at NCI-Frederick has been positive. "I must say that everybody I have met so far is extremely nice and polite, and that goes especially to the people I am working with and to those nice people at my office," he said. "As a research institution, NCI is hardly matched by few facilities in the world, by results produced, by the place it holds in modern medicinal chemistry, and by the research staff working under its auspices." Zlatovic will perform his research at NCI-Frederick until July 30.

The Fulbright Program

The Fulbright Program is the U.S. government's chief international exchange program, which is designed to "increase mutual understanding between the people of the U.S. and the people of other countries," according to the CIES web site (<http://www.cies.org/NewToFulbright.htm>). ■



[Mario Zlatovic is conducting research in the Target Structure-based Drug Discovery Group.](#)

Mitzi Guarino: Managing Large Projects for NCI-Frederick

By Ashley DeVine, Staff Writer

Mitzi Guarino, senior project manager in the Contract Planning and Administration Directorate, is no stranger to managing large projects for NCI-Frederick.

The recipient of a 2009 Outstanding Achievement Award and Presidents Awards for the Vaccine Pilot Plant (VPP) and Advanced Technology Research Facility (ATRF) projects, Ms. Guarino has worked at SAIC-Frederick for 16 years. “I provide oversight and coordination of the overall planning and management of various activities associated with the operations and technical support contract,” she said.

The Vaccine Pilot Plant and Advanced Technology Research Facility Projects

Guarino was part of the team that designed and constructed the VPP, a 126,900-square-foot cGMP (current Good Manufacturing Practices) pilot plant that can produce up to 30,000 vials of injectable vaccine per lot. Her role as senior project manager primarily focused on design and construction activities, ensuring the project was completed on time and on budget and that the facility met the needs of the program.

Now, she is program manager for the Advanced Technology Partnerships Initiative (ATPI), which will be supported by NCI-Frederick’s 330,000-square-foot, state-of-the-art ATRF being constructed on 62 acres in the new Riverside Research Park.

The ATPI was launched in 2007 and aims to accelerate the translation of research discoveries into new treatments for patients with cancer and AIDS. “NCI has launched a program to form strategic partnerships bringing together industry, academic institutions, and nonprofit organizations to turn research discoveries into medicines,” she said. Guarino is responsible for coordinating and overseeing all the activities associated



*Mitzi Guarino, Senior Project Manager,
Contract Planning and Administration
Directorate, SAIC-Frederick, Inc.*

with the ATPI. These activities range from the design and construction of the ATRF to public relations and partnership development.

Communicating the status of these activities to NCI and SAIC stakeholders is also her responsibility. As the chairperson for the ATPI Executive Committee, Guarino is able to provide regular updates to senior NCI and SAIC staff members and to discuss and resolve any issues that may arise.

“My responsibilities on both of these projects involved much more than just design and construction, which enabled me to broaden my project management experience from specifically design and construction to overall program management and prime contract requirements,” Guarino said.

Working Close to Home

Born and raised in Walkersville, MD, Guarino attended Frederick Community College and the University of Maryland. While Guarino was working for a design

engineering firm in Gaithersburg, her mother mentioned an advertisement in the *Frederick News-Post* for a project manager position at NCI-Frederick. “Quite honestly, I didn’t know anything about NCI-Frederick when I applied; I just wanted to find something closer to home and avoid the Route 270 commute,” she said. Once Guarino began working at NCI-Frederick, she quickly realized how fortunate she was to be a part of the mission of this facility.

“We are all touched by cancer, one way or another. We all stand to gain from the research and development that takes place at NCI-Frederick,” she said.

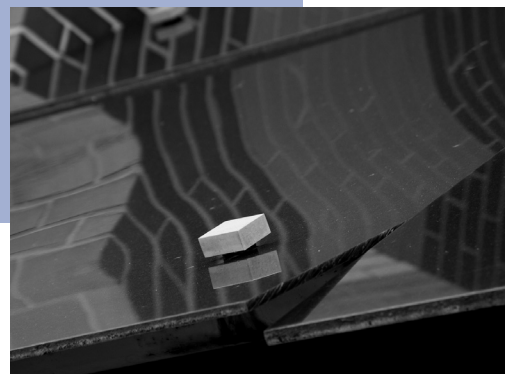
Guarino has a degree in mechanical engineering and a professional engineer’s license, but she said most of her project management experience came from on-the-job training and seminars. “When I was initially hired, my main focus was facility design and construction project management,” Guarino said. “I have been fortunate to have been involved with some very exciting projects at NCI-Frederick.”

Each Day Is Different

For Guarino, no two days at SAIC-Frederick are alike. One day she might be touring potential leased facilities to meet new programmatic needs, while the next day she is preparing a presentation for the NCI director about the status of the ATPI. As a senior project manager, no project work is outside the scope of her responsibilities and she is ultimately responsible for the satisfaction of the customer.

As a chair of several committees, including the Frederick Facility Planning Group, the ATPI Executive Committee, and the Frederick Site Development Group, Guarino spends time preparing for and attending meetings, and sharing information and completing tasks based on those meetings.

In her free time, Guarino spends time with her husband and their six-year-old son, and she enjoys golfing and cooking. ■



Congratulations to the December 2009 Poster Puzzler Winner! Darren Benedick, manufacturing associate, Biopharmaceutical Development Program, SAIC-Frederick, is pictured, right, with Paul Miller, executive editor of the *Poster*. ■

The Poster Puzzler: **Shelter from the Sun**

By Ashley DeVine, Staff Writer, and Rocky Follin, Facilities Maintenance and Engineering, Contributing Writer

The December Puzzler is a close-up of a stainless steel cap that is part of the window awning on the north side of Building 432. Underneath this cap are bolts that keep the plastic sections of the window awning attached to the frame. There are nine awnings of various sizes on Building 432. These awnings are ½-inch thick tinted plastic sheets supported by a 1½-inch steel pipe frame. In 1987, the awnings were installed on Building 432 as part of new building construction. The purpose of window awnings is to reduce the sun's intensity, which also reduces the need for blinds. Additionally, they provide aesthetic value by adding texture to the walls.



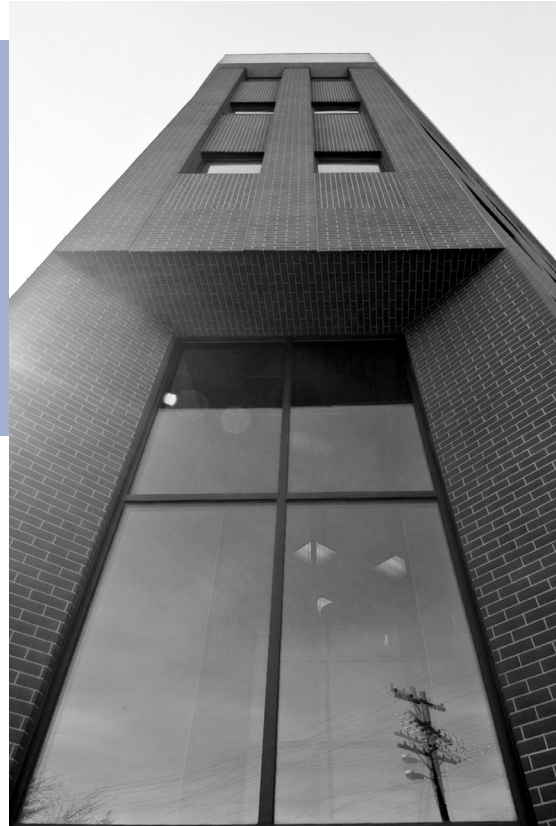
Poster Puzzler

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 and an NCI-Frederick tee shirt 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, April 30, 2010**, and the winner will be drawn from all correct answers received by that date.

Good luck and good hunting! ■



Have Poster, Will Travel

The *Poster*, NCI-Frederick's newsletter, is making its way around the world, as readers grab the latest issue to take with them and read on the plane or train. Next time you're at a conference, have someone snap a digital of you with a copy of the *Poster*, and send it to us. You might just be featured in the next newsletter. ■

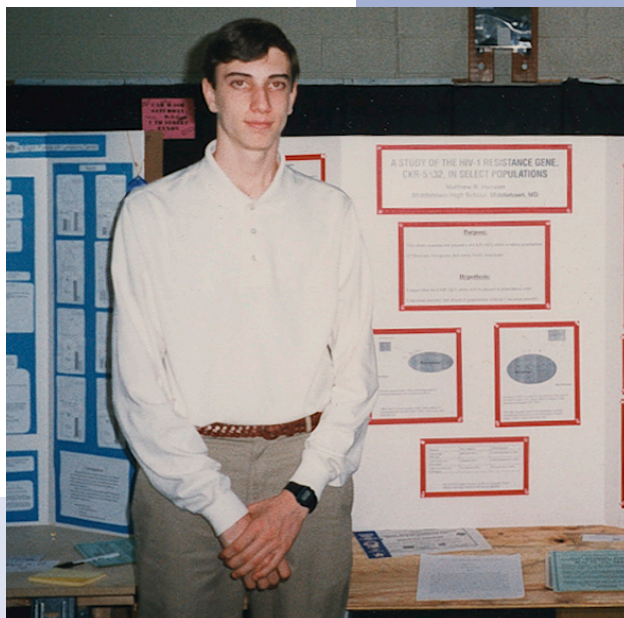


Richard Frederickson, Senior Technical Specialist for Scientific Publications, Graphics & Media, took a break from a meeting in Atlanta, GA, with the Board of Governors of the BioCommunications Association (BCA) to share the NCI-Frederick *Poster* with colleagues. Members of the BCA Executive Committee, left to right, are Joseph Kane, Frederickson (president), Karen Hensley, and Charles "Chip" Hedcock. (Photo by Sally Robertson)

It's All about Discovery

By Nancy Parrish, Staff Writer

When Matthew Hanson, M.D., worked at NCI-Frederick as a Werner H. Kirsten student intern, he enjoyed scanning population studies for HIV resistance alleles because, he said, “It was like a great mystery story that I helped to solve.” He later came to realize that his experience at NCI-Frederick involved making discoveries that were not just related to science. He also discovered something in himself that led him into the field of medicine. “By working at [NCI-Frederick], I discovered my desire to help others and apply the discoveries of basic science to a clinical realm,” he said in a recent e-mail.



Matthew Hanson shown here at the 1997 Frederick County Science and Engineering Fair.

Photo courtesy of the Hanson family.

A Family Affair

The son of Russell Hanson (Research Associate III, Basic Research Program) and Charlotte Hanson (Biologist, Laboratory of Cancer Prevention), Hanson was a Werner H. Kirsten student intern in 1996–1997 in the Laboratory of Genomic Diversity, with sponsor Michael Dean, Ph.D., and mentor Abi Chidambaram. After graduating from Frederick High School in 1997, he studied biology at the University of North Carolina, Chapel Hill, where he earned a bachelor of science degree, with honors. From Chapel Hill, he moved to Philadelphia, where he attended Drexel University College of Medicine, which he describes as “four years of hard work.” During his last year of medical school, he married his college sweetheart, who was finishing her own medical degree at East Carolina Medical School.

After earning his medical degree, he completed a year-long internship

in internal medicine, followed by a three-year dermatology residency at Hahnemann University Hospital in Philadelphia. At the same time, his wife was completing a four-year residency in Obstetrics and Gynecology at Pennsylvania Hospital. In the midst of their training came the birth of their first child, Joshua, nearly two years ago.

Today, Hanson is completing a one-year fellowship in dermatopathology, a subspecialty he chose because, he said, “I wanted to continue my learning in medicine and serve my patients better.” Following his fellowship, he plans to practice as a clinical dermatologist as well as use his dermatopathology training to assist other physicians at Panzer Dermatology and Cosmetic Surgery and Christiana Hospital in Delaware.

Time to Ask Questions, Learn, and Discover

Reflecting on his years at NCI-Frederick, Hanson said, “Working at NCI-Frederick gives you a tremendous opportunity to discover new things, including who you want to become.” He advises current interns to ask lots of questions and seek opinions from people they work with because they have great insights not only into scientific efforts, but also into life in general. “Above all,” he notes, “use this time to learn, reflect, and discover more about science and yourself.” ■



Hanson (shown here with his son) plans to practice as a clinical dermatologist following a year-long fellowship in dermatopathology. He and his family live in Philadelphia. *Photo courtesy of Matthew Hanson.*

Chili Cook-Off Draws a Hungry Crowd

By Nancy Parrish, Staff Writer

Maybe it was the long spell of cold weather. Or maybe it had been a particularly stressful morning in the offices and laboratories around campus. Whatever it was, the Protective Services 8th Annual Chili Cook-Off on January 13 drew nearly 100 people to taste the 13 mouth-watering entries. And they must have been hungry—one hour into the 90-minute event, most of the entries were gone, and latecomers had to scrape the bottom of many of the chili pots to get even a lick of the contents.

Nevertheless, 96 ballots were cast, and Bruce Roberson's chili was voted this year's winner. A shuttle bus driver for Protective Services, Roberson said this was only the second time he has entered the contest. He entered again because cooking is one of his hobbies, and this was "just another attempt to satisfy my taste buds."

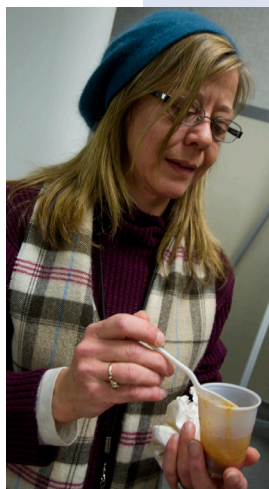
Roberson said this was the first time he tried this recipe, but that's how he cooks. "Every chili or soup I make is a first, and never exactly the same as before." However, he said he never expected to win. "Last year, seemed like most of the tasters enjoyed 'the-hotter-the-better' types of chilis," he said. "The one I came up with this year sort of surprised the tasting sensation." His list of ingredients (see sidebar at right) may explain why his chili had some unexpected flavors. The recipe, he said, is "hardly 'tried-and-true'—more like 'add-as-you-go.'"

Coleen Tabler, occupational health associate, won second place, and third place went to Jon Summers, senior photographer, Scientific Publications, Graphics & Media.

In his e-mail announcing the winners, Tom Gannon-Miller, manager of

Protective Services, extended special thanks to employees from Occupational Health Services, as well as Environment, Health, and Safety, for their participation in the annual event. He also gave special thanks to Sharon Fritz, program coordinator, Environment, Health, and Safety (EHS) for being the "official ballot counter," and to Randall Morin Dr.PH., EHS director, Dave Butfer, chief administrative officer, and David Ramos, deputy chief, Management Operations and Support Branch, for their continued support.

Once again, Gannon-Miller's chili did not place in the top three. However, because his entry did not come in dead last, Gannon-Miller said, "Next year's contest is back on!" ■



NCI-Frederick's #1 Chili in 2010

Here is Bruce Roberson's winning chili recipe, which we received from Tom Gannon-Miller. "Being a guy," Gannon-Miller said, "[Mr. Roberson] is not too specific on some things."

- 1 can kidney beans (drained)
- 1 large can diced tomatoes
- 1 cup hot pepper jelly
- 2 tablespoons orange marmalade
- 1 small jar Herr's Salsa
- 1 small can jalapeños
- 1 small can Mexican hot tomato paste
- 1/3 lb. ground sausage
- 1/3 lb. ground beef
- 3 large diced onions
- 1 clove garlic, minced
- 1 dill pickled jalapeño
- 3-4 tablespoons white vinegar
- Dash of salt and pepper
- "A lot of" hot chili pepper and Jerk seasoning

Cook onions with sausage and beef; drain. Place in slow cooker with the rest of the ingredients. Cook on low overnight; refrigerate in your garage for 24 hours.

Building 376 Open House Displays Cutting-Edge Imaging Techniques and Chemistry Laboratories

By Ashley DeVine, Staff Writer

With the opening of the renovated north wing of Building 376, NCI-Frederick is now one of the few facilities in the United States to provide its researchers with a core facility that encompasses the full complement of small-animal imaging techniques in one location.

New Imaging Facility and Chemistry Laboratories

Featuring a state-of-the-art small animal imaging and support facility (managed by the Small Animal Imaging Program [SAIP], SAIC-Frederick) and new facilities for the Chemical Biology Laboratory (Center for Cancer Research [CCR], NCI), the building was unveiled to the NCI-Frederick community in December.

The open house provided demonstrations to NCI-Frederick researchers about the various imaging techniques that can enhance their research. Lilia Ileva, research associate, SAIP, presented a variety of techniques that can be obtained by magnetic resonance imaging (MRI). Lisa Riffle, research associate, SAIP, presented ultrasound techniques. Avrum Leeder, research associate, SAIP, demonstrated the unique capabilities

of the optical scanners (bioluminescence and fluorescence). Positron emission tomography imaging (PET) and single photon emission tomography (SPECT)

technologies were also presented. Both of these nuclear scanners include an X-ray computer tomography scanner that can fuse the nuclear function with anatomical images. Using these innovative imaging scanners, SAIP can assist researchers with monitoring cell trafficking, tumorigenesis, and drug

treatment; detecting cancer early in transgenic mouse models; performing in vivo imaging of physiological processes; conducting biodistribution studies; and validating genetic markers.

In addition to SAIP, the newly founded Chemical Biology Laboratory (CBL), CCR, NCI, has expanded within Building 376. The laboratory, headed by Joel Schneider, Ph.D., “conducts basic research central to the discovery of new small molecules, peptides,

macromolecules, arrays, and materials that impact cancer and AIDS understanding, diagnostics, and treatment,” he said.

The first floor of Building 376 is designed as an animal facility to meet the standards of the Association for Assessment and Accreditation of Laboratory Animal Care, while the second floor contains biosafety level 2 laboratories that adhere to NIH design guidelines.

continued on page 21



Some of the major players in the Building 376 renovation project: From left, Dante Tedaldi, Ph.D., FME deputy director, SAIC-Frederick; Darren Henderson, project manager, CCR, NCI; John Bell, COTR, FME, SAIC-Frederick; William Lonergan, FME director, SAIC-Frederick; and Kristin Komschlies, Ph.D., project officer, NCI.



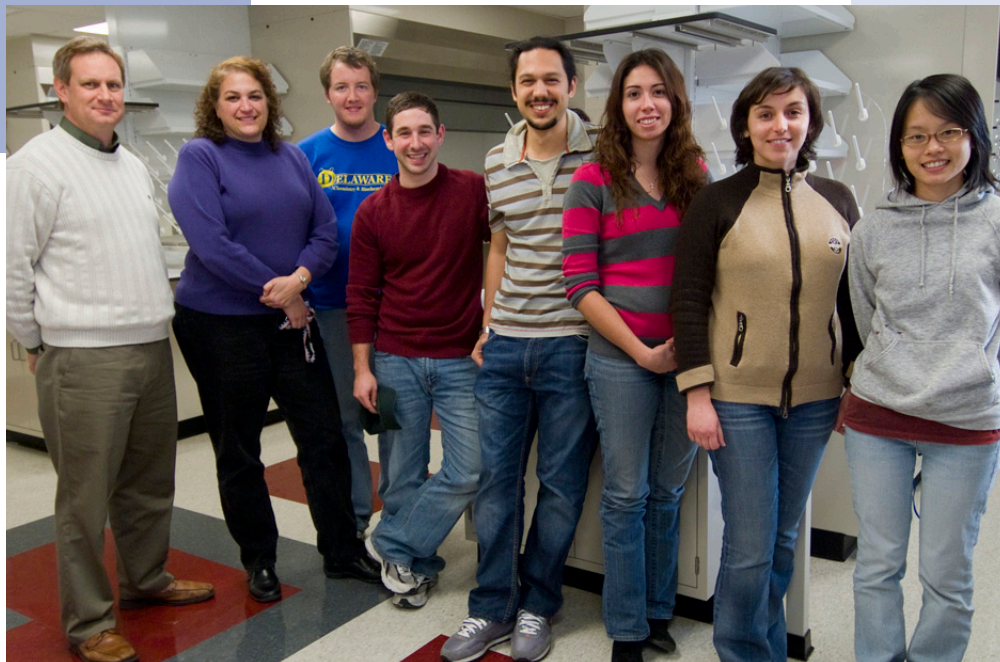
Avrum Leeder, research associate, SAIP, demonstrates the use of bioluminescence and fluorescence imaging.

SAIP and CCR Open House

continued from page 20

The Project to Renovate Building 376

The project to renovate Building 376 began in late 2006/early 2007 and involved the work of numerous NCI and SAIC-Frederick personnel. Talal Khalil, SAIC-Frederick project manager, Facilities Maintenance and Engineering (FME), led the project team and was responsible for the successful execution of the project. Kristin Komschlies, Ph.D., NCI project officer, and Darren Henderson, NCI project manager, were responsible for obtaining the necessary departmental approvals and for the strategic planning of the facility, which



Staff members of the Chemical Biology Laboratory (CCR, NCI) stand in one of their new laboratories. From left, Joel Schneider, Ph.D., laboratory chief; Dina Sigano, Ph.D., technical laboratory manager; Daniel Smith, pre-doctoral fellow; Michael Giano, post-baccalaureate fellow; Cem Sonmez, post-baccalaureate fellow; Monica Branco, Ph.D., research fellow; Ana Salome Veiga, Ph.D., postdoctoral fellow; and Chomdao Sinthuvanich, pre-doctoral fellow. (Not pictured: Katelyn Nagy, post-baccalaureate fellow.)



Lilia Ileva, research associate, SAIP, will perform magnetic resonance imaging (MRI) using the Philips Intera Achieva 3.0T MRI machine.

included critical scientific input from Joseph Kalen, Ph.D., director of SAIP; James Tatum, M.D., associate director, Cancer Imaging Program, Division of Cancer Treatment and Diagnosis (DCTD), NCI; and Peter Choyke, M.D., chief, Molecular Imaging Program, CCR, NCI.

“This is the largest construction project that has been completed on the NCI-Frederick campus in recent memory. Mr.

Khalil’s project management leadership with the support of FME enabled this high-visibility project to be completed on time and under budget,” Henderson said.

According to Scott Keimig, Ph.D., lead Environment, Health, and Safety (EHS) representative on the project, SAIP’s imaging technologies required the Radiation Safety Office, headed by JT Moore, to be more significantly involved in this project than with other laboratory renovations.

“Not only are the imaging technologies novel at NCI-Frederick, many of the associated engineering safety controls also are new to NCI-Frederick. This posed a unique set of challenges, but ones that were readily addressed by Mr. Moore and Dr. Kalen through the course of the project,” said Keimig, who coordinated the work of six safety officers.

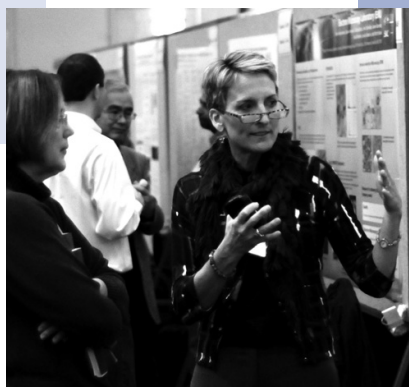
As the contracting officer’s technical representative (COTR), John Bell,

FME, began his work during the design phase to perform drawing review. Once the construction contractor (Morgan Keller) was selected, he became the single point of contact for the project and was responsible for ensuring that the construction contractor delivered the project as specified and designed.

Also involved in the project were Mark Schrader, facility manager, Laboratory Animal Sciences Program (LASP); Rick Bedigian, Ph.D., former director of LASP; and Lionel Feigenbaum, Ph.D., current director of LASP.

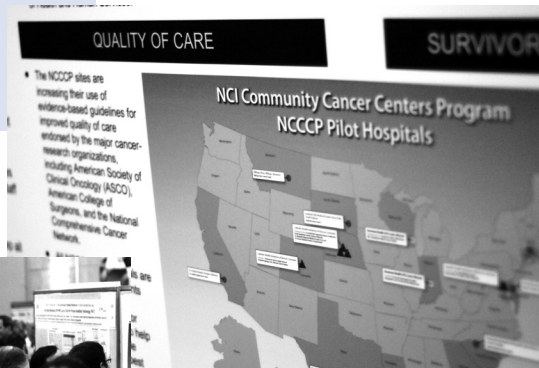
SAIP was developed in late 2006 and is a consortium of NCI groups, including the Office of Technology and Industrial Relations (CCR), DCTD, and the NCI Office of the Director. For more information about SAIP, contact Dr. Kalen at 301-846-5283 or kalenj@mail.nih.gov. For more information about CBL, contact Dr. Schneider at 301-846-5954 or schneiderjp@mail.nih.gov. ■

NCI Intramural Scientific Investigators' Retreat



The 2010 NCI Intramural Scientific Investigators' Retreat was held in January. The large meeting encompassed both scientists and administrative advisory groups: the Center for Cancer Research and the Division of Cancer Epidemiology and Genetics, the Board of Scientific Counselors, the Board of Scientific Advisors, and the National Cancer Advisory Board. This annual conference presents lectures and discussions on the various aspects of cancer research throughout NCI, enabling scientists to learn what groups in other cancer research fields are doing.

Our thanks to Frank Blanchard, Public Affairs Director, SAIC-Frederick, for these pictures. ■



Fitness Challenge 2010

Eat Wise and Exercise; Stay Fit for Life

By Will Sheffield, Occupational Health Services, Guest Writer, and Ashley DeVine, Staff Writer

(Editor's note: Will Sheffield is the new coordinator of the Fitness Challenge.)

The 2010 Fitness Challenge is here to help you attain your personal health and fitness goals and to live a healthier lifestyle. According to Ralph Waldo Emerson, "the first wealth is health." With this in mind, it is important to be proactive to reach and exceed your personal health and fitness goals.

This year's theme is "Eat Wise and Exercise; Stay Fit for Life." Whether you are transitioning to a healthier lifestyle or are already committed to one, this theme can provide encouragement.

More than 50 NCI-Frederick employees attended the kick-off for this year's Fitness Challenge, which was held in January. Trainers from the local Fitness First gym came to demonstrate how easy exercise can be. Larry Arthur, Ph.D., chief executive officer, SAIC-Frederick, spoke about the history of the Fitness Challenge, and how diet and exercise can affect the human body and cancers.

Each month, Fitness Challenge participants can compete for prizes in the following five fitness categories: weight loss, miles walked, miles run, miles biked, and hours performing other activities (weight lifting, yoga, rowing, etc). There are monthly winners in each category and no one can win more than once in the same category in a 12-month period. To compete for a prize in the fitness categories, log on to <http://saic.ncifcrf.gov/fitnesschallenge/>, create a username and password, select "Tracker" on the red bar at the top of the web page, and enter your performance in each of the fitness categories. Monthly prizes for first-, second-, and third-place winners include CamelBak® hydration systems for runners, walking kits, jump ropes, gym bags, and hats.

Upcoming Events

- The Frederick Running Festival, May 1 and 2, 2010: SAIC-Frederick has once again purchased slots for all the races so if you would like to run the full marathon, half-marathon, team relay, or the twilight 5K, contact Will Sheffield at 301-846-1096.
- A rock-climbing wall will be coming to Fort Detrick June 16, 2010, from 10 a.m. to 2 p.m.
- Lunch and Learns: This is your opportunity to give your feedback, thoughts, and ideas about speakers for Lunch and Learns, new fitness tips, events, and activities. Please e-mail ideas to Mr. Sheffield at sheffieldwg@mail.nih.gov.
- Programs about yoga, nutrition and exercise, stress, and stress reduction are planned.
- Weigh-ins are held on the second Tuesday of each month (through October) from 12 p.m. to 1 p.m. in Occupational Health Services or the Scientific Library. For participants who work off-site, there are weigh-in stations at TJ Drive, Industry Lane, and the Vaccine Pilot Plant. Contacts for off-site weigh-in locations are: Corina May (Industry Lane), 301-846-6717; Kim Iman (TJ Drive), 301-228-4033; Shelley Funk (Industry Lane), 301-228-4209; and Lori McHugh (Vaccine Pilot Plant), 301-846-5270.



During the Fitness Challenge kick-off, members of the audience were asked to come on stage and perform exercises with weights, resistance bands, and an exercise ball.

Remember, it's never too late to join the Fitness Challenge. Contact Will Sheffield, Fitness Challenge coordinator, at 301-846-1096 or sheffieldwg@mail.nih.gov for additional information. ■

Take Your Child To Work Day

How to Kindle a Child's Interest in Science

By Maritta Perry Grau, Staff Writer

What prompted you to accept a job at NCI-Frederick? You may be here because you're doing research critical to finding a cure or at the very least better treatment for cancer. You may be here because you want to work in a place that is dedicated to helping improve our nation's health. You may be here because someone you love—or you, yourself—has faced a health struggle.

Or perhaps your interest in science was triggered by some positive associations with scientists or scientific work.

Several of the student facilitators last summer, some of whom are now considering science-related studies in college, became interested in science after attending NCI-Frederick's annual Take Your Child to Work Day as children.

Dominique May, daughter of Corina May, Clinical Research Program Directorate, and Bryan May, Vaccine Pilot Plant, participated for six years, volunteered for two years, and plans to volunteer again this year. She plans to major in marine biology or physical therapy.

"The 'Extract Your DNA' and the gadgets program from the electrical shop... were both very interesting to me in different ways.... I am very interested in science. The ability to extract DNA from yourself, or another person or animals is so amazing to me," Dominique said.

She said that attending the programs taught her that "there are many different careers within research ... Each person is contributing so much to the research of many different things, like cancer, AIDS, and other infectious diseases. Until I [participated, and then volunteered], I was not aware of how many different diseases there are, and how many different occupations share in the research of these diseases, sharing in the hope for a cure... Watching science happen, the interest and enjoyment from the children gives me the feeling as if I am still a kid getting to participate."

Leslie Johnston has had two daughters in the TYCTW Day program.

Krissy Johnston, a sophomore at Jefferson High School, Shenandoah Junction, WV, holds fond memories of "Enlightened Science" and "Mouse Tails." In the "Mouse Tails" session, she said, "I learned about histology, the study of tissue, and careers in that field." She also worked with Russell Hanson, Basic Research Program, and the snakes one year and said, "It turned out to be a lot of fun."

Krissy is considering a career in writing and may attend Shepherd University.

Kate Johnston has just completed her freshman year at Wilson College, where she is studying veterinary medical technology. In the four years she attended TYCTW Day as a participant, one of the sessions most vivid in her memory is "The Drunken Brain." She said that this course, and others, helped her determine that "a science career is the best route for me."

She also enjoyed her seasons as a volunteer, when she could see the "excitement that I had when I participated in the program, in the children that I [saw] as a volunteer."

Joel Summers, son of Jon Summers, photographer at Scientific Publications, Graphics & Media, and Martha Summers, Scientific Library, has attended seven sessions, beginning at age six.

He cites "Robotic Arm" as among his most memorable sessions. A technology fanatic, Joel was amazed to watch the arm at work. "It was fantastic, how quickly the arm could pipette all the well plates, as well as cutting back on stress injuries people would get from the repetitive motion of pipetting," he said.

Joel has enjoyed working as a facilitator the past three summers because, he said, "It is a chance to give back to the program that I enjoyed attending for so many years."

If your group would like to help kindle



From top: Blonde-headed Dominique May as a participant at TYCTW Day; facilitator May waits for her group of students at last summer's event; facilitator Joel Summers last summer; Summers as a participant checks out the snakes.

a child's interest in a science career, you can sign up to present a short session at this year's Take Your Child to Work Day on July 21; registration opens June 21.

After all, as Craig Reynolds, Ph.D., Associate Director for NCI-Frederick, commented, "As the young adults have mentioned, their excitement is so vivid, and the value of this program is proven. Children are always curious about their parents' workplace, so what better way to show them and give them a window into the rewarding world of scientific research than through Take Your Child to Work Day?" ■

Go Green at Home and at Work: Re-Use, Reduce, Recycle

By Michele Gula Atha, Biopharmaceutical Development Program, and Lori Smith, Contracts and Acquisitions, Guest Writers

We've weathered the worst of the winter storms, and many of us are thinking about spring now. Whether you're assessing repairs and de-cluttering tasks at work or at home, the tips below may help you. We've compiled this list from monthly tips sent to your in-box via global e-mails.

Re-Use

Whether you're cleaning out your lab or home closets, chances are you have useful items that you no longer need.

When cleaning out items at home, consider donating good, working items to a charity; these donations help you "de-clutter" and also help those in need. A number of charities, such as the Purple Heart organization (<http://www.purpleheartpickup.org/>), the Vietnam veterans group (<http://www.schedulepickup.com/>), and the National Children's Center (<http://www.nccpickup.org>) will pick up unwanted items directly from your home.

If you're looking for lab equipment or furniture, contact the Property Accountability office, instead of buying new. You could save considerable funds and extend your lab/office budget. Surplus scientific equipment, available to all staff at NCI-Frederick, can be viewed on the web site (<http://www.ncifcrf.gov/campus/property/search.asp#alpha>).

While pictures of furniture items are not available, you can make an appointment to inspect specific items or browse all available surplus items by contacting Property Accountability at 301-846-1156. You can also get items from NIH's surplus inventory, albeit with a delivery charge. The NIH site includes pictures; check out the link <http://olao.od.nih.gov/GovernmentProperty/AcquiringProperty/ReutilizationSurplusScreening/>.

Reduce: Check the Packaging

When you are deciding between two companies' products, buy the product with the least amount of packaging. Check to see if the companies make an effort to reduce their packaging.

We can be green not only by avoiding extra packaging, but also by employing reusable bags for shopping. Most plastic bags are not environmentally friendly: they take as much as 1,000 years to degrade. If you shop in the District of Columbia, remember that a nickel is charged for every plastic bag (be prepared for this charge to eventually spread beyond D.C.), so using reusable bags will save you money. Also, don't forget that you can turn in accumulated plastic bags at many grocery stores for recycling.

If you attend the Fort Detrick Earth Day celebration on April 5 and bring 10 plastic grocery bags for recycling, you will receive one reusable bag FREE. Bring your plastic bags to the Environmental Management Table, which will be set up from 10:00 a.m. to 2:00 p.m. in the new CAC, Building 1520A.

Recycle: Books, Videos, Graduation Gowns

Enjoy reading books and watching movies at home? Instead of buying new ones, borrow books and videos from your local library. Using the library saves trees and money. Also, participate in our own Scientific Library's autumn Book and Media Swap; for every book or video that you donate to the Swap, you can take an equal number. A second annual children's book/media swap is tentatively scheduled for July.

Do you have a graduation coming up this spring? If so, ask whether or not the caps and gowns can be recycled. Alternatively, think about renting the cap and gown so it will eventually be reused many times <http://guecoaction.blogspot.com/2009/09/penn-gets-recycled-caps-and-gownscan.html>.

Consider using rechargeable batteries to power those battery-operated items,

such as flashlights, games, radios, or other toys. While rechargeable batteries are initially more expensive, they provide you with a cost savings in the long run.

Have expired prescription drugs lying around? It's best to dispose of them, but just dumping them in the trash is not the best choice, because they may end up leaching from landfills and contaminating the water supply. Most hospitals and pharmacies collect and dispose of them responsibly.

Did your car need antifreeze this winter? If so, be sure there are no leaks on the garage floor that pets or small children could access. Antifreeze tastes sweet but can be lethal; some manufacturers now add a compound to make it bitter.

Although natural gas prices are down this year, the cold winter has increased heating bills an average of 15 percent for most people. At home, you may want to keep your thermostat at 68° F (20° C) during the day, or even lower if no one is home; at night, turn it down further. If your heating/cooling system is not too old, add a programmable thermostat.

Be a Winner: A Green Thinker

SAIC-Frederick, Inc. continues to strive for new green ideas. Submit your idea/tip for a chance to win an SAIC Going Green, Green Thinker T-shirt. Each month, a new tip is posted on the SAIC-Frederick Green web site. Past winners are:

Sandra Burkett—October 2009, "Use rechargeable batteries whenever possible"

Deborah Hill—November 2009, "The Discovery Café using biodegradable utensils"

Sheryl Ellis—December 2009, "Opt out of receiving print copy of the Poster"

Have some tips of your own? Please send your suggestions to the NCI-Frederick Green Team representatives: Howard Young, Ph.D., younghow@mail.nih.gov; Michele Gula Atha, gulam@mail.nih.gov; or to the SAIC-Frederick Green web site, <http://web.ncifcrf.gov/campus/als/green/default.asp>. ■

Diversity Team Weaves Rich Tapestry at NCI-Frederick

By Maritta Perry Grau, Staff Writer

Study the threads of a tapestry—some threads are in quiet colors, others are bold, still others glitter. Each thread plays a unique part in weaving a rich, fully realized, and meaningful tapestry.

Recent threads in the tapestry that is NCI-Frederick include recognition of women of NCI-Frederick who have been significant in its work, recognition of important contributions made by black scientists, inventors, and doctors in the twentieth century, and studies (through carefully chosen movies) of diverse cultures that are a part of many NCI-Frederick employees' lives.

Nominations for Women of NCI-Frederick

As we go to press, the second annual "Women of NCI-Frederick" nominations, sponsored by your Diversity Team, have drawn to a close. Many of you nominated colleagues who have contributed much to the research and life of NCI-Frederick. If you haven't received word yet about the selectees, please visit the Diversity Team web site (<http://diversity.ncifcrf.gov/>), or take a look at the Diversity Team display case in the lobby outside the Scientific Library, Building 549.

Black History Month

The past months have been busy ones for the Diversity Team and you. Not only were we involving you in the "Women of NCI-Frederick" celebration, but we were also planning other special activities. To celebrate Black History Month in February, we concentrated on eight unique twentieth- and twenty-first-century doctors and scientists. The large posters were exhibited in the main lobby of the Conference Center, Building 549, and were shared with the Army garrison at Fort Detrick. In addition, smaller "table-top" versions with pictures and the researchers' biographies were set up in the Diversity Team display case.

- **Dr. Patricia Bath**, an ophthalmologic surgeon who developed the concept of community ophthalmology and invented a device that improved cataract surgery.
- **June Bacon-Bercey**, the first African-American woman to earn a degree in meteorology and the first woman television meteorologist in the country.
- **Dr. Benjamin Carson**, a motivational speaker and director of pediatric neurosurgery at Johns Hopkins, who focuses—among other things—on traumatic brain injuries, brain and spinal cord tumors, achondroplasia, neurological and congenital disorders, craniosynostosis, epilepsy, and trigeminal neuralgia.

Thought for the Quarter

"We all should know that diversity makes for a rich tapestry, and we must understand that all the threads of the tapestry are equal in value no matter what their color."

-Maya Angelou, poet (b. 1928)

Source:
<http://en.thinkexist.com/quotations/Diversity/>

- **Dr. Emmett Chappelle**, a biochemist who developed widely used techniques to detect bacteria in urine, blood, spinal fluids, drinking water, and foods.
- **Dr. Mark Dean**, a key contributor to the development of the personal computer.
- **Dr. Mary Harris**, a past "scientist in residence" for the University of Georgia, now heads a health care communications company.
- **Dr. Shirley Ann Jackson**, a theoretical physicist who has focused on theories of charge density waves in one and two dimensions and on two-dimensional Yang-Mills gauge theories and neutrino reactions.

Win Tickets to the Movies!

Did you know that you could win tickets—with no expiration date!—to see at movie at the local Regal movie theatres? Some NCI-Frederick employees got the word. Recent winners include Shawn Brown, AIDS Monitoring Laboratory, Clinical Services Program, Applied and Developmental Research Directorate, and Marci Brandenburg, Scientific Library (both, December 2009); Robin Meckley, Scientific Library, and Vijaya Gowda, Protein Expression Laboratory, Advanced Technology Program Directorate (both, October 2009 and February 2010).

What Could Be Better than Lunch and a Movie at the Diversity Café?

Movies are usually shown in the Executive Board Room between 12:00 p.m. and 2:00 p.m. on consecutive days. Watch for e-mails to verify room location. For more information about what we're showing this month, check the EDT web page (<http://diversity.ncifcrf.gov/>). Bring your lunch and enjoy a free movie.

Recent showings included January's *Lemon Tree*, and, as part of our Black History Month observance, February's *The Pursuit of Happyness* [sic], starring Will Smith. The March movie will be *Amelia*, as part of our Women's Month observance. Check our web site! ■



Toastmasters

NCI/SAIC-Frederick Toastmasters Celebrate Charter Ceremony

By V. Patricia Jenkins, Center for Advanced
Preclinical Research, Guest Writer

The NCI/SAIC-Frederick, Inc., Toastmasters Club is now officially recognized, thanks to a Charter Ceremony held in January. Richard Pendleton, director, Contract Planning and Administration, SAIC-Frederick; Sukanya Bora, manager, Training and Development, SAIC-Frederick; and several past presidents of the District 18 Toastmasters Club joined the members in celebration.

Throughout the meeting, thought-provoking and inspirational presentations kept everyone's interest.

Former District 18 Governor and Distinguished Toastmaster Ann Larrow gave a rousing speech extolling club members for their performance in such a short time (six months!) and encouraging them to reach higher to achieve individual goals and those of the club at large.

In a crisp time frame, Area 43 Governor Alice Anderson delivered a special seven-minute presentation, "A Little Parrot," and club member Dr. Gopalan Soman spoke on "Forgiving the Enemy."

The Table Topics session illustrated how education can be fun as well as instructional. Two speakers, randomly selected by the Table Topics Master, handled the topics, "Preparing for the Winter Olympics" and "Meeting the Queen of England," very well—with a bit of whimsy and lots of humor.

At the conclusion of the formal meeting, members and guests socialized and enjoyed a buffet meal in celebration of the Charter, as they discussed how to expand the club and how best to assist current members in reaching their goals.

"The mission of a Toastmasters club is to provide a mutually supportive and positive learning environment in which every individual member



Toastmasters Club members salute the official recognition of the club's charter. From left in the back are Catherine Hixson; V. Patricia Jenkins-Lamb; Bernard Thompson; Yvette Connel-Albert; Frank Briggs; Alice Anderson, Toastmasters' Area 43 governor; and Douglas Gaum. In front are Dawn Koh, Gopalan Somalan, Rita Shanker, Veronica Roberts, Jiwan Giri, Linda Winona, and Anil Shanker.

has the opportunity to develop oral communication and leadership skills, which in turn foster self-confidence and personal growth," according to the Toastmasters' web site, <http://toastmasters.org/Members/MemberExperience/SuccessfulMeetings/ClubMission.aspx>.

The NCI/SAIC-Frederick, Inc., Toastmasters Club was established in July 2009, due in large part to the initiative of Frank Briggs, Facilities Maintenance and Engineering, and sponsorship by SAIC-Frederick in providing club registration fees. Located in Area 43, Toastmasters District 18, the club was formed with a few Toastmaster community leaders and has gained popularity among a wide range of NCI and SAIC-Frederick employees.

The executive committee testifies to the club's diversity:

President: V. Patricia Jenkins, Secretary III, Center for Advanced Preclinical Research, Laboratory Animal Sciences Program Directorate;

Vice President, Education: Dr. Anil Shanker, Scientist I, Laboratory of Experimental Immunology, Cancer and Inflammation Program, Center for Cancer Research (CCR);

VP, Membership: Dr. Dawn Koh, Visiting Fellow, Mouse Cancer Genetics Program, Basic Science Program Directorate, CCR;

VP, Public Affairs: Jiwan Giri, MS, PMP, Clinical Project Manager II, Clinical Monitoring Research Program, Clinical Research Program Directorate, support to the National Institute of Allergy and Infectious Diseases;

Secretary: Dr. Bernard "Bernie" Thompson, Associate Scientist, Clinical Support Laboratory, Applied and Development Research Directorate;

Treasurer: Veronica "Ronnie" Roberts, Research Associate III, Eukaryotic Expression Group, Protein Expression Laboratory, Advanced Technology Program Directorate;

Sergeant at Arms/Division D Governor ACS/ALS: Frank Briggs, HVAC/R Mechanic, Facilities Maintenance and Engineering.

"Each club member has benefitted greatly from being in Toastmasters. It affords a safe and respectful environment to practice public speaking for any/all venues, where you get constructive feedback and tips from your peers to assist you in becoming an effective leader and motivational speaker," Dr. Shanker said. ■

Toastmasters Club meetings

When:

5:30–6:30 p.m.; 2nd and 4th Thursdays

Where:

Building 426 Conference Room

More information available at:

<http://saicfrederick.freetoasthost.cc>

New Faces at NCI-Frederick

Ninety-seven people joined our facility in October, November, and December 2009.

The National Cancer Institute welcomes...

Amanda Aloia ■ Stephanie Cabarcas ■ Eric Cardin ■ Yatyng Chang ■ Yuhong Chen ■ Yinghua Chen ■ Andrea Coots ■ Michael Giano ■ Chad Hancock ■ Stig Molgaard Jensen ■ Klaus Koepfli ■ Diana Lee ■ Fanching Lin ■ Sabrina Lusvardi ■ Salim Manoharadas ■ Corinna Meyer ■ Katelyn Nagy ■ Oyebola Oladeinde ■ Rachel Person ■ Natasha Schuh ■ Chomdao Sinthuvanich ■ Martha Sklavos ■ Daniel Smith ■ Cem Sonmez ■ Philip Tedbury ■ Ana Veiga ■ Feng Wei ■ Ying Zhang ■ Dan Zhao



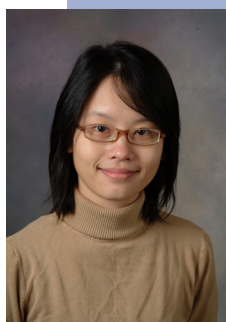
Stephanie Cabarcas

Data Management Services welcomes...

Sharon Kienzle ■ J. Ian Motter



Katelyn Nagy



Chomdao Sinthuvanich



Daniel Smith



Michael Giano

SAIC-Frederick welcomes...

Richard Apps ■ Lenora Atakulu ■ Christopher Bariatti ■ Christopher Barry ■ Penny Baugher ■ Ulrich Baxa ■ Stephen Buia ■ Alex Cafferky ■ Horacio Chanorro ■ Troy Cregger Jr. ■ Wendi Custer ■ Gregory Del Prete ■ Kimberly DiGiandomenico ■ Erica Eaton ■ Philip Eclarinal ■ James Farling Jr. ■ Eric Fout ■ Luz Fuentes ■ Brad Gouker ■ Lesley Graham ■ Michelle Gumprecht ■ Goran Halusa ■ Mary Harner ■ Melissa Harris ■ Gregory Heberlein ■ Brian Holt ■ Charles Hubbard Jr. ■ Danielle Joseph ■ Zhigang Kang ■ Colleen Kotb ■ Prateek Kumar ■ Abigail Lara ■ Jennifer Lipski ■ Yalun Liu ■ Gordon Main ■ James Marks ■ Philip Martin ■ Sasha McClain ■ Jeffrey McLean ■ Robert Miller ■ Amy Nelson ■ Jennifer Oberholtzer ■ Osiokegbhai Ojior ■ Melissa Orr ■ Kerri Penrose ■ Kevin Piper ■ Jessica Reed ■ Robert Reger ■ Yvonne Rempel ■ Silvana Rivero ■ Marlene Schultz DePalo ■ Ruyin Shi ■ Jennifer Sova ■ Beth Stofka ■ Ludmila Szabova ■ Tluang Thang ■ Amanda Urban ■ Katherine Walker ■ Shaundra Washington ■ Robert Werner ■ Sarah Whitfield ■ Hla Win ■ Susan Yi ■ Kristin Young ■ Giovanna Zappala ■



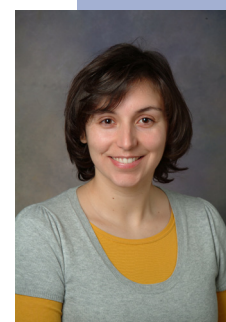
Natasha Schuh



Cem Sonmez



Philip Tedbury



Ana Veiga

Arthur Gives Commencement Address at LSU

By Maritta Perry Grau, Staff Writer



Larry Arthur, Ph.D., chief executive officer for SAIC-Frederick, Inc., was the commencement speaker at Louisiana State University's College of Basic Sciences graduation. In his address, he focused on the importance of cancer research and the promise of vaccinations.

The LSU web site noted that Arthur was among seven LSU alumni featured in the "Only One Choice, Only One LSU" campaign last fall. Pictures and short biographies, as well as a brief movie, can be accessed at the university web site. To see Arthur's clip, go to http://www.lsu.edu/now/index_arthur.html

Arthur is a Louisiana native and LSU graduate. His favorite Louisiana food is boiled crawfish.

Contractual Considerations in Publication

By Marianne Lynch, Intellectual Property Attorney, SAIC-Frederick, Guest Writer

Publishing research is important; however, many researchers publish without realizing their limitations or legal obligations. Do you know what publishing requirements the Operations and Technical Support (OTS) contract imposes on you?

Who decides whether to patent your invention?

Under the OTS contract's "Determination of Exceptional Circumstances," SAIC-Frederick must report and assign subject inventions to NIH. NIH decides whether to patent the subject inventions and manages the patenting process.

A U.S. patent will not be allowed for an invention that was disclosed in a publication more than one year before the date of the patent application. Public disclosures include published articles, posters, presentations, and any unprotected information sharing with outside parties. To protect your information, be sure to get a Confidential Disclosure Agreement (see below).

Be vigilant in identifying and reporting inventions as the research progresses and before publishing. In addition, draft publications should be reviewed and screened for invention disclosures. Any inventions identified should be reported promptly. The publication may have to be delayed to allow for patenting decision and patent application. If the invention is already publicly disclosed but has not been reported to NIH, it should be reported as soon as possible, especially if the public disclosure was less than a year ago. Remember that although a patent application can be filed in the U.S. within one year of public disclosure, it is better to file before the public disclosure.

When should you use a Confidential Disclosure Agreement?

To protect the potential patent rights, you should have a Confidential Disclosure Agreement (CDA) in place when sharing confidential information with outside parties. That way, the disclosure is not public and does not bar the patent. CDAs are best executed for planned disclosures with a limited known audience. Filing a patent before the disclosure or not disclosing proprietary information are the two practical options when you have no control over or do not

know who will attend or have access to the information.

Can you assign copyright to the journal publishing your article?

No, you are not authorized to assign copyright. Although publishers typically ask authors to have a form signed, requiring copyright assignment to the publisher, only the chief executive officer and the IP attorney are authorized to sign for copyright for SAIC-Frederick.

NIH Public Access Policy and the Publisher's Form

OTS Contract Article H.44., NIH *Policy on Enhancing Public Access to Archived Publications Resulting from NIH-Funded Research*, states "NIH-funded investigators shall submit to the NIH National Library of Medicine's PubMed Central an electronic version of the author's final manuscript upon acceptance for publication resulting from research supported in whole or in part with direct costs from NIH.... Additional information is available at <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-033.html>." The NIH Public Access policy applies only to peer-reviewed journal articles. It does not apply to posters, presentations, or books.

To ensure the publisher's terms are consistent with the NIH Public Access policy and are otherwise in compliance with the OTS contract, send the publisher's form to the SAIC-Frederick IP attorney for review and signature.

SAIC-Frederick Standard Process I005 *Compliance with the NIH Public Access Policy* has instructions for submitting the peer-reviewed manuscript to PubMed Central.

If you have questions, please contact Marianne Lynch, J.D., the SAIC-Frederick IP attorney, at lynchm@mail.nih.gov or 301-846-6308; or Courtney Silverthorn, Ph.D., the IP Specialist, at 301-846-6316. As the IP attorney, Lynch reviews and signs the publisher's forms and coordinates the Confidential Disclosure Agreements and Employee Invention Reporting to NIH. ■

Library's Resources and Programs Assist, Inform, and Enrich

By Robin Meckley, Contributing Writer

In January, the Scientific Library announced the arrival of a new online resource to aid those people preparing for the American Association for Laboratory Animal Science (AALAS) certification exams. The resource, the *AALAS Technician Certification Handbook*, provides links to web sites, e-books, and library materials referenced by the AALAS test item data bank for all three exam levels. This resource is helpful for students and instructors alike, as well as for anyone working in the fields of laboratory animal science and animal husbandry.

The handbook puts the reference material you need right at your fingertips. The links are arranged by chapter, following the layout of the assistant laboratory animal technician (ALAT), laboratory animal technician (LAT), and laboratory animal technologist (LATG) training manuals. *The Guide for the Care and Use of Laboratory Animals* is available as an e-book, as are many other standard references for the field. The *AALAS Technician Certification Handbook* is accessible from the Scientific Library's web site at <http://www-library.ncifcrf.gov/aalas.aspx>.

Library Bulletin Board to Feature 12 Cancers

Throughout 2010, the staff of the Scientific Library is featuring a different cancer topic each month on our bulletin board in a section known as the Cancer Corner. We began the year recognizing January as National Cervical Cancer Month and February as National Cancer Prevention Month. March is National Colorectal Cancer Awareness Month. Months that do not claim an official cancer topic have been assigned one by the library staff. For example, we have informally designated April as Brain Cancer Month. In addition to bulletin board information, we are creating print

and web bibliographies that list relevant topical web sites and library materials. We may expand on the topics by offering Reading Diversions Book Club selections or other programming options. You can stay up-to-date on all Cancer Corner information by checking the library's web site at http://www-library.ncifcrf.gov/cancer_corner.aspx.

Book Club Focuses on Topics of Scientific Interest

The Scientific Library's Reading Diversions Book Club was formed in 2008 to bring people together to read and discuss books of scientific interest.

Reading Diversions is a special collection of books in the Scientific Library that are written in an informative and entertaining way. People read these books for scientific interest rather than for scientific research. Club members select a nonfiction book from the Reading Diversions collection, and then match it with a fiction book that features the same scientific or medical topic.

Previous topics have included Nikola Tesla, stem cells, typhoid, AIDS, use of human cadavers, nanotechnology, cloning, and polio. Upcoming topics for April, May, and June, and the books that will be provided by the Scientific Library, are shown in the box at the right.

The book club is open to all NCI-Frederick employees. Members meet every five weeks over lunch in the Conference Center in Building 549. We are also investigating hosting an electronic book club via a blog or wiki, for use by anyone, particularly those people who are unable to attend the in-person meetings.

We invite you to learn more about the Reading Diversions Book Club by going to <http://www-library.ncifcrf.gov/bookclub.aspx>. Contact information, previous book selections, and discussion questions are all available at this web site. ■



Reading Diversions Book Club Dates, Topics, and Selections for April, May, and June

Thursday, April 1: Altruism

Nonfiction: *The Altruism Equation: Seven Scientists Search for the Origins of Goodness* by Lee Alan Dugatkin

Fiction: *Pay It Forward* by Catherine Ryan Hyde

Friday, May 7: Cancer Research (May is National Cancer Research Month)

Nonfiction: *Curing Cancer: The Story of the Men and Women Unlocking the Secrets of Our Deadliest Illness* by Michael Waldholz

Fiction: *Experimental Heart: A Novel* by Jennifer L. Rohn

Thursday, June 10:

Leonardo da Vinci

Nonfiction: *The Science of Leonardo: Inside the Mind of the Great Genius of the Renaissance* by Fritjof Capra

Fiction: *The Queen's Gambit: A Leonardo da Vinci Mystery* by Diana A.S. Stuckart

We're "Almost Famous"!

The Reading Diversions Book Club is featured in the March/April 2010 issue of *Bookmarks* magazine. In the spring of 2009, the book club facilitators submitted a brief article about our book club to the magazine, which focuses on a different book club in each issue. The spring issue is now available in the library. Next time you're there, take a look—our article, and a picture, appear on page 10.



We've Got To Stop Meeting Like This

By Ken Michaels, Staff Writer

Have you ever been to a meeting when there was no discernible agenda?

Perhaps the person who called the meeting had a checklist of items to cover, but simply didn't think to share it with the others attending. Or perhaps the person who called the meeting really hadn't thought out what the meeting was intended to cover. In any case, if you were there, you had no idea what was coming next, or what the scope of topics to be discussed was going to be. How did that feel?

I've been to meetings like this. And I hate them. Having no idea what is coming makes a lot of us—people like me, anyway—nuts.

Bear in mind that any time several people are called together to meet, all of them are contributing time that they would otherwise be spending doing productive things. If ten people are there and five minutes are wasted, fifty minutes are wasted. It's important to the efficiency and productivity of any organization for people to optimize the time they spend in meetings.

What's Your Agenda

There are several guidelines for conducting effective meetings, and at the top of the list is: have an agenda and share it with the participants. An agenda not only clues the participants in, but it also gives direction to the meeting.

Another important guideline is to meet no longer than necessary. It's interesting how often meetings expand

in duration to consume a full hour when the business could have been concluded in less time. When you have an agenda, once you've covered all the topics listed, your meeting is over.

Ideally, the agenda should be provided in advance to all who attend, so attendees know what topics will be discussed and they will be prepared to participate. The broader the scope of the meeting and the greater the number of participants, the more important this rule is.

In the case of meetings involving only a few people, or recurring meetings that follow a regular and predictable course, alternatives to a written agenda provided in advance may suffice. Those alternatives include a written agenda provided at the opening of the meeting, a list of topics to be discussed written on a white board or easel pad, or, at the very least, an oral rundown at the beginning of the meeting of what the meeting is about and what topics are on the docket. But in all cases, everyone present in a meeting should have some idea of what will be under discussion.

When organizing a meeting, always make the agenda known to those who will attend. You'll have a more productive meeting, and everyone in attendance will leave with a sense of accomplishment. I (almost) guarantee it. ■



Upcoming Events and Dates to Note

April 21

Registration Ends for Spring Research Festival 2010

April 30

Poster Puzzler Entry Deadline

May 5 and 6

Spring Research Festival 2010

May 31

Memorial Day; NCI-Frederick Closed



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
www.criver.com

Data Management Services
css.ncifcrf.gov/services

National Cancer Institute at Frederick
www.training.nih.gov/postdoctoral

SAIC-Frederick, Inc.
www.saic-frederick.com

Wilson Information Services Corporation
www-library.ncifcrf.gov

NCI-Frederick Programs

NCI-Frederick/Ft. Detrick Fitness Challenge 2010
saic.ncifcrf.gov/fitnesschallenge/

NCI-Frederick Suggestion Committees
web.ncifcrf.gov/campus/committees/

NCI-Frederick Advanced Technologies to Support Research
web.ncifcrf.gov/research-technologies/default.asp

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Comments or suggestions for *The Poster* may be directed to poster@ncifcrf.gov.

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