

Brookhaven Town Supervisor Holds Inventor's Reception, Honors Brookhaven Lab and Other Long Island Scientists

Twenty-five BNL researchers were among 63 Long Island-based innovators honored at the Town of Brookhaven's First Annual Inventor's Reception, a gala event honoring local inventors whose groundbreaking scientific research and discoveries earned patents in 2009.

Held on June 23 at Flowerfield in St. James, the event was presented in partnership with BNL and Long Island's other premiere research institutions — Stony Brook University and Cold Spring Harbor Laboratory. More than 30 patented technology inventions were recognized during the awards ceremony, with certificates of excellence presented to each inventor by Town of Brookhaven Supervisor Mark Lesko. BNL's Ralph James gave one of two keynote addresses, and BNL Director Sam Aronson also addressed the honorees.

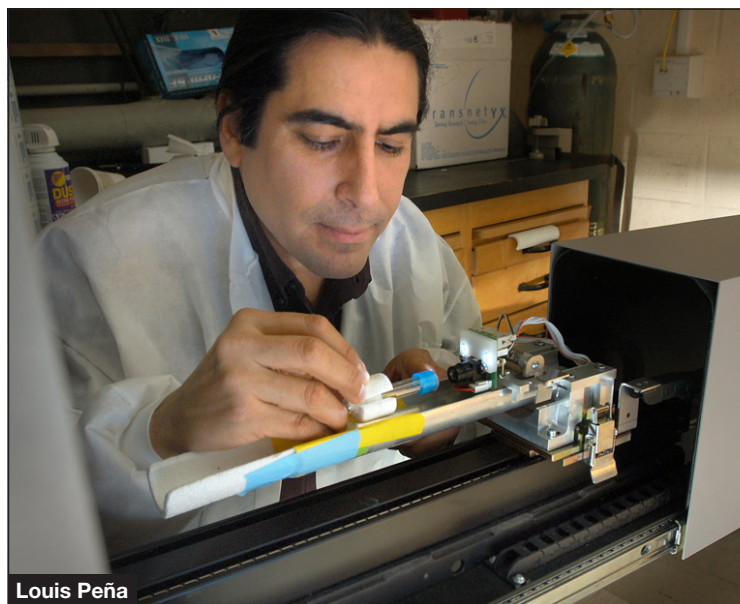
"At Brookhaven Lab, we place high value on discovery and innovation processes that result in advancing basic knowledge of the world in which we live, as well as innovations that result in things of practical use to all," Aronson said. "I commend all of the innovators in our midst and thank Supervisor Lesko for honoring them in this very special way."

Brookhaven innovations recognized included a new method to remove toxic mercury from



From left: Kathleen Walsh, Brookhaven Town Deputy Supervisor and Councilwoman; Samuel Aronson, Director of Brookhaven National Laboratory; Samuel Stanley, President of Stony Brook University; and Mark Lesko, Brookhaven Town Supervisor

soil, sediment, sludge and other industrial waste; a new procedure to insert hydrogen into aluminum to produce aluminum hydride — a promising hydrogen storage material for fuel cell vehicles; and a chrome-free, corrosion protection coating system that forms an ultra-thin, corrosion-resistant film on a variety of metal and metal alloy surfaces. — Kay Cordtz



Louis Peña

Joseph Rubino 02/10/09

Brookhaven and BioSET, Inc., Patent Improved Growth Factor Technology

Second-generation technology has multiple applications in soft tissue repair

Brookhaven Science Associates, the company that manages BNL, and Biosurface Engineering Technologies, Inc. (BioSET) of Rockville, Maryland, have been issued a U.S. patent for an improved second-generation technology for designing synthetic peptides that are important for tissue regeneration. These bioactive peptides are designed to communicate growth signals to cells of damaged tissue in order to foster efficient, rapid healing.

BioSET has an exclusive license for producing these peptides, which hold promise for improving the body's healing response in numerous applications of tissue repair. Developed at Brookhaven Lab, these synthetic peptides, known as growth factor analogs, are easier to produce than natural growth

factors or growth factors derived from recombinant techniques.

Tom Roueché, BioSET's president, said, "This newly patented technology builds upon our core method for making synthetic biomimetic peptides that we developed with Brookhaven Lab scientists almost a decade ago. We can now make peptides in higher yields, with more purity, and more cost-effectively than we had done previously."

Louis Peña, the principal researcher at BNL who developed the technology with BioSET, added, "This new platform technology will allow us to make multiple variations of peptides, which can lead to numerous applications in tissue repair. For example, bandages can be designed with growth factor analogs to apply to wounds, or...

See BNL/BioSET Patent on p.2

BNL Participates in NYS Tech Innovation Showcase in DC



At the second NYS High-Tech Innovation Showcase in Washington, D.C., are BNL's Kendra Snyder, Community, Education, Government & Public Affairs Directorate; and Sachin Junnarkar, Instrumentation Division.

On August 4, about 20 Long Island and New York State institutions, including Brookhaven Lab, participated in the second annual High-Tech Innovation Showcase, hosted by U.S. Senator Kirsten Gillibrand in the Russell Senate Office Building in Washington, D.C. During the event, organizations from Long Island, New York City, and other parts of the state demonstrated innovative technologies to elected officials and their staffers, agency representatives, and their colleagues. BNL was represented by Sachin Junnarkar of the Instrumentation Division, Kendra Snyder of Community, Education, Government and Public Affairs; and Slava Solovoy of the Condensed Matter Physics & Materials Science Department. Junnarkar and Solovoy showcased examples of innovative technologies they have been working on, including superconducting cable and a new combined PET/MRI breast cancer detector.

Meet the Technology Commercialization and Partnerships Office

To most people, the words "Brookhaven National Laboratory" inspire thoughts of scientists in lab coats tracking down the answers to life's mysteries. But the Technology Commercialization and Partnerships (TCP) Office believes that BNL's future image lies not only in its research and facilities, but also in the way its scientific discoveries lead to everyday impact in the world.

"We are all about tying together science with marketplace needs and opportunities for deployment," said TCP Manager Walter Copan. "We are sending the message that Brookhaven is open for business."

Turning discoveries into everyday impact requires protection for these inventions. BNL scientists also have personal incentives to protect their discoveries. The inventors receive a share of the royalties or license fees earned whenever their innovations go to market. Even before going commercial, each inventor gets a small cash prize whenever a provisional patent application is filed, and further funds for a full patent. Patents and other inventions form an important part of a scientist's list of publications.

In addition, inventor recognition events, such as this summer's Inventor's Reception in the



Members of the Office of Technology Commercialization and Partnerships (TCP) and the Intellectual Property Legal Group (IPLG). Seated, from left: Kimberley Elcess, TCP; Dorene Price, IPLG; TCP Manager Walter Copan; Steve Wood, TCP. Standing, from left: Mike Furey, TCP; Maria Pacella, IPLG; Christine Brakel, TCP; Ginny Coccoresse, TCP; Poornima Upadhyay, TCP; Cyrena Condemi, TCP; Colleen Michael, TCP. Not pictured: Alison Schwarz, TCP.

Town of Brookhaven (see story above) honor researchers who have patented their work.

Although patent recipients receive financial, scientific, and social recognition, innovations from BNL do more than bring profit to their individual creators, Copan explained.

Marketing new ideas that arise at BNL builds the "Brookhaven brand," he said, which conveys a business-friendly message about the caliber of the science and discoveries occurring at the Lab. The increased awareness of BNL's

inventiveness and quality of research leads to more success in winning new contracts, research grants, and collaborations with other scientists. In other words, keeping a higher profile with Brookhaven inventions ensures a more secure funding base.

In addition, promoting Brookhaven's capabilities helps America's international competitiveness, creating new businesses and jobs, and opening local and worldwide markets. This provides new opportunities for BNL's collaborators and also shows

American taxpayers how useful their financial support has been.

"We have a duty to the nation and the American taxpayer to show there is a real return on the investment in the science done at Brookhaven," said Copan.

Taking a research discovery and turning it into an enticing business opportunity usually requires additional work, involving further scientific data and application development, and sometimes a working prototype or scale-up of a process. TCP's Technology Maturation Program

Researchers: learn more at the TCP Web site: www.bnl.gov/tcp, or contact the office, Ext. 4919.

provides support for exactly that kind of work. The program receives funding from the Lab, including funds earned by re-investing royalties from commercialized technologies.

In addition, companies and other partners can collaborate with BNL scientists, taking inventions forward through cooperative research and development projects.

"Inventors need to be able to take their promising inventions to the next level," Copan said. "We continue to develop new sources of funding for technology maturation."

Some BNL discoveries that technology maturation has advanced toward market applications include core-shell nanocatalysts, PET imaging techniques, high-temperature superconducting systems, disease screening and drug-development techniques, and new detectors and instrumentation.

See TCP Office on p.2

CALENDAR
OF LABORATORY EVENTS

- The BERA Store (Bldg 488): Ext. 3347
- Recreation Office (Bldg. 400A): Ext. 2873
- The Rec Hall (Bldg. 317) is located in the apartment area.
- Events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See <http://www.bnl.gov/esol/schedule.asp> for schedule. Jen Lynch, Ext. 4894

Mondays & Thursdays: Kickboxing
\$5 per class. Noon–1 p.m. in the gym. Pay as you go. Ext. 2873.

Mon., Tues., Thurs., & Fri.: Tai Chi
Noon–1 p.m., B'haven Cntr (Bldg. 30), N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues.: Hospitality Welcome Coffee
10:30 a.m. – noon. Rec Hall (Bldg. 317). Meet and socialize over coffee. Children welcome. Ext. 2873.

***Tuesdays: Zumba**
Noon –1 p.m., in the gym (Bldg. 461). Classes resume on September 14. Registration required, Ext. 2873. See p.3.

Tuesdays: Knitting Class
2–4 p.m. Rec Hall (Bldg. 317). Learn to knit/crochet — all skill levels welcome. Free. Ext. 2873.

Tuesdays: Toastmasters
Two monthly meetings: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Rm 160. Guests and visitors welcome. <http://www.bnl.gov/bera/activities/toastmasters/>.

Tue., Wed., & Thurs.: Rec Hall Activities
5:30–9:30 p.m. in Bldg. 317. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

***Tuesday & Thursday: Aqua Aerobics**
5:30–6:30 p.m., Pool (Bldg. 478). Classes resume on September 7. Registration required, Ext. 2873. See p.3.

***Wednesdays: Ballroom Dance**
Dance Lessons start 9/1 in N. Ballroom, Brookhaven Center. See p.4.

***Wednesdays: Pilates**
5:30–6:30 p.m. at the Rec Hall (Bldg. 317). Classes start on September 15. Registration required, Ext. 2873. See p.3.

Wednesdays: Play Group
10 a.m.–noon. Meet at Rec Hall (Bldg. 317). Infant/toddler drop-in event. Parents meet while children play. Ext. 2873. See <http://www.meetup.com/BNL-Playgroup/>

Wednesdays: Yoga
Noon–1 p.m., B'haven Center (Bldg. 30). Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

1st Wednesday of month: LabVIEW
1:30–3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379.

Thursdays: BNL Cycletrons Club
5 p.m., Brookhaven Center. First Thurs. of month. Tim Devine, Ext. 2350.

Thursdays: Reiki Healing Class
Noon–1 p.m., Call for location. Nicole Bernholz, Ext. 2027.

Thursdays: Postdoc Social Night
6:30 p.m. ASAP Lounge (Bldg. 462). www.bnl.gov/asap.

Fridays: Family Swim Night
5–8 p.m. Pool (Bldg. 478). \$5/family. Ext. 2873.

Fridays: Family Gym Night
5–8 p.m. Family gym activities. Free. Ext. 2873.

TCP Office from p.1

For an invention to have a significant impact, its creator must file a record of invention. Next, the inventor should begin to document the basics toward a patent before publishing results. This will protect the scientist's intellectual property. "We're encouraging our scientists to think about what they've discovered and to consider whether an invention has been made. Doing this early gives us a chance to get some legal protection in place before the invention is released to the public," explained Copan. To facilitate this process, TCP also assigns a team member to follow research in each directorate, working with scientists in the labs to keep an eye out for patentable ideas. The TCP employees then work with researchers to develop the invention for potential commercial applications. TCP also works with BNL's Intellectual

In Memoriam: Robert Powell

Robert Powell, who joined BNL as a Pile Project engineer — life number 00133 — on February 16, 1947, died at 93 on June 20, 2010. He had retired as a senior engineer on February 29, 1980, after stepping down on February 1 as head of the Reactor Division for 24 years. Powell was born in Birmingham, Alabama, where he attended school, and he received his B.S. in chemical engineering from Auburn University. After the start of World War II, he joined the U.S. Army, but was soon released to assist E.I. duPont de Nemours & Co., Inc. in fabricating materials needed for the war effort. He was then assigned to Oak Ridge National Laboratory, where he began work in January 1944 on the X-10, the first controlled, large-scale nuclear reactor, as part of the Manhattan Project. At BNL, Powell joined the design project for the "Pile" — the Brookhaven Graphite Research Reactor (BGRR), first peacetime nuclear reactor built in the United States. He was in charge of the Reactor Operations Division from 1949 until 1956, when he was appointed head of the Reactor Division. He was awarded tenure in 1955. On Powell's selection as a Fellow of the American Nuclear Society (ANS) in 1968, he was cited as being "personally responsible for the successful design, construction and operation of the leak detection system for the original natural uranium fuel elements" of the BGRR. The ANS also noted that "the unique fuel shuffling technique employed to flatten the flux distribution in the BGRR following its conversion to enriched uranium fuel was established under his personal direction, and he developed the technique used for monitoring the net growth of the graphite structure due to fast neutron irradiation." Powell, who held a patent for a cooling mechanism employed in nuclear reactors aboard submarines, was also project engineer for the Brookhaven Medical Research Reactor and a member of the High Flux Beam Reactor Design Steering Committee. He was responsible for the operation of BNL's three reactors and, when the 10th birthday



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of the HFBR was celebrated on October 31, 1975, he was given credit for this reactor's remarkably fine performance over the years. Powell was chair of the BNL Safety Committee for six years, as well as a member of the Lab's Reactor & Critical Experiments Safety Committee and of the Bureau of Standards' Reactor Safety Committee. After his retirement, he continued his work with the Bureau of Standards and was also a frequent consultant for the Nuclear Regulatory Commission for many years. Many of BNL's world-class scientific achievements were made possible by Powell's dedication to the design, operation, and safety of BNL's research reactors. For more information, see "Brookhaven's History," at <http://www.bnl.gov/bnlweb/history/>. On his retirement, Powell was presented with a DOE Certificate of Appreciation, citing him for his years of outstanding contributions to the design, development, and use of research reactors. The certificate also stated that "for most people, it would be sufficient to state that their efforts, imagination, and resourcefulness have earned great distinction for themselves, their institution, and the sponsoring agency. However, in your case, this would be inadequate, for you have brought a degree of cooperation and integrity to your endeavors that has earned the respect and admiration of all who have worked with you." Robert Powell is survived by his wife of 67 years, Shirley Powell, and their seven children and 13 grandchildren. — Liz Seubert

Property Legal Group, which files and prosecutes patents. Recently, through Brookhaven Science Associates, BNL scientists received patents for two very different applications. BNL researchers and Biosurface Engineering Technologies, Inc. (BioSET) of Rockville, Maryland, collaborated and then patented an improved growth factor technology for making synthetic peptides, biological molecules that help repair damaged tissue (see story, p.1). In addition, the European Patent Office granted BNL and Brookhaven Science Associates a patent for use of Vigabatrin to block the addictive liability of opioid pain medications. This patent is now licensed to Catalyst Pharmaceutical Partners for commercial development (see story above). Currently, the TCP office is in transition as part of BNL's Blueprint, preparing for the Lab to take a more proactive role in

pursuing research applications, and supporting Brookhaven in future proposals to win major funding. According to Copan, "The real message here is that we're changing the way Brookhaven looks at the products of our science — taking that passion for discovery and translating it into impact in the marketplace. The Lab's Blueprint is taking us in the direction of a very exciting future." Although scientists may see publication as the ultimate end of their research, going from discovery to deployment requires that they also keep patents in mind. Copan summed up the ideal result of these changes: "As we look to the future and take a more integrated approach, we are building a smoother pathway from the initial discovery to successful deployment. This will provide new opportunities for a stronger Brookhaven Lab and for all who work here." — Sophie Bushwick

SPOTLIGHT
ON SAFETY

Focus on Strains and Sharp Edges

The most common safety incidents at BNL resulting in injuries during the past several weeks involved overexertion and lacerations. These types of incidents may be avoided or mitigated by utilizing awareness of the task and its potential hazards, preparation and reasonable caution. Employees are encouraged to read through the following 1-minute Safety Topics to refresh their awareness of tasks associated with these types of injuries: Cut-Resistant Gloves, Hand Injuries, and Pinch Points. The Safety Resources website <http://intranet.bnl.gov/safety/>, which is available within the BNL site network, provides multiple resources for safe work planning and procedures, such as the 1-Minute Safety Topics. Regardless of their role at the Lab, employees are encouraged to keep safety in mind in all they do.

BNL Patent News...

The following news release was issued on July 9 by Catalyst Pharmaceutical Partners (CPP), the company that has licensed from BNL (through the Licensing Group of the Lab's Technology Commercialization & Partnerships Office) the right to make tests using Vigabatrin/CPP-109, a substance originally developed and tested in pre-clinical studies at BNL as a potential treatment for a variety of addictions.

European Patent Office Grants Patent for Use of Vigabatrin/CPP-109 In Preventing Addiction to Opioids in Pain Management

Catalyst Pharmaceutical Partners, Inc. (NasdaqCM: CPRX) today announced that the European Patent Office (EPO) granted to Brookhaven Science Associates/Brookhaven National Laboratory (Brookhaven) a European patent for the use of vigabatrin for the prevention of addiction to opioids (e.g., oxycodone, hydrocodone) used in pain management. By dampening dopamine release and thus, the euphoria associated with opioids, the opioid/vigabatrin combination may lower or prevent addictive liability without adversely affecting pain relief. CPP-109 (vigabatrin, a GABA aminotransferase inhibitor) is Catalyst's lead compound for the treatment of addiction. Opioid abuse is one of the many substance addiction indications covered under Catalyst's exclusive worldwide license to Brookhaven's international and domestic vigabatrin patent portfolio.

Patrick J. McEnany, Catalyst's Chief Executive Officer, commented, "We are pleased that the EPO has granted this patent. As we reported on November 10, 2009, a team of neuroscientists at The Feinstein Institute for Medical Research at North Shore-Long Island Jewish Health System received a \$1.2 million grant from the U.S. Department of Defense to conduct a study using vigabatrin in combination with opiates to effectively manage pain while reducing the potential for opiate addiction.

"This study is currently under way, and we look forward to exploring the development of CPP-109, both here and abroad, to manage the addictive liability associated with the use of opiates for pain management."

BNL/BioSET Patent from p.1 ...coatings for surgical implants can be made for better localized healing. I'm glad that this technology has progressed so well and may benefit many people with soft-tissue injuries." A soft tissue injury results from damage to muscles, ligaments, or tendons. Other members of Peña's team who helped research on this work at BNL are Xinhua Lin, no longer at the Lab, and John Glass, a guest scientist in the Biology Department. They, with Bioset's Paul Zamora, are also listed on the patent. BioSET has sublicensed the newly patented technology to Tornier, Inc., a global orthopedic company, to develop synthetic peptides for sports medicine applications, with emphasis on rotator cuff, shoulder, knee, and elbow injuries. The company will develop novel soft-tissue grafts with

synthetic human growth factor for orthopedic markets. "Assessing the role of tissue regeneration and clinical testing of the new growth factor analogs is the next step as we bring these important new treatments to surgeons and their patients," Roueché said. "A previously patented growth factor analog, B2A, designed to improve bone repair, is currently in clinical trials for spinal fusion of the lower back and we remain very encouraged by the early results of these studies." The DOE Office of Science, the National Institutes of Health, and BioSET funded the initial research to develop this growth factor technology. One of three patents related to this technology issued to BSA and BioSET, the new patent (US 7,700,563 B2), was issued on April 20, 2010. — Diane Greenberg



The Brookhaven Lab Spotlight Award Winners

For extending extraordinary efforts in response to the needs of their departments or divisions, the following 154 BNL employees, including those pictured above, were honored with Spotlight Awards: Kim Ackley, Instrumentation Division; Jay Adams, Environmental Sciences Department (ESD); John Addressi, Collider-Accelerator Department (C-AD); Joshua Allen, Safety & Health Services Division (SHS); Leesa Allen, Human Resources & Occupational Medicine Division (HROM); Richard Anderson, C-AD; Larry Arnold, C-AD; Edward Bajon, C-AD; Louisa Barone, HROM; Linda Barrett, Fiscal Services Division; John Benante, C-AD; Phil Bernath, Procurement & Property Management Division (PPM); Cyrus Biscardi, C-AD; Gladys Blas, C-AD; Brian Briscoe, C-AD; Christopher Brown, Energy Sciences & Technology Department; Richard Buono, Biology Department; Christopher Cacace, Radiological Control; Kevin Campbell, Maintenance & Fabrication Services Division; Frances Capasso, Nonproliferation & National Security Department (NNS); Frank Carlino, C-AD; Albert Casper, C-AD; Jin Chai, Biology; Nicole Chiu, SHS; Richard Chorzempa, Physics Department; Mary Chuc, SHS; Pamela Ciufu, Center for Func-

tional Nanomaterials; Susan Clements, HROM; Kathryn Clifford, Rad. Control; Jill Clough-Johnston, PPM; Ruth Comas, Staff Services Division; Timothy Costanzo, C-AD; Ildiko Csehely Orlando, PPM; Anthony Curcio, C-AD; Edward Dabrowski, C-AD; Denis Damazio, Physics; Gary Danowski, C-AD; Willem DeJong, C-AD; Nora Detweiler, Community, Education, Government & Public Affairs (CEGPA); Richard Di Franco, C-AD; Lizette Domenech, Director's Office; Leah Donley, Information Services Division (ISD); Harold Dorr, C-AD; Joe Drozd, C-AD; Frank Dusek, C-AD; Nancy Felock, SHS; Jesse Fite, C-AD; Jorge Galaraga, C-AD; Edward Gavin, Waste Management Division (WMD); Joe Gettler, CEGPA; Christine Giammarino, Fiscal; Elizabeth Ginty, Rad. Control; Gennaro Guerra, Maint/Fab; Philip Harrington, Training & Qualification Program Office; Kenneth Hartmann, C-AD; Felicia Hartsough, HROM; Guy Hartsough, Rad. Control; Henry Hauptman, Staff Services; Kim Hayes, Rad. Control; Marion Heimerle, C-AD; Gregory Heppner, C-AD; Frances Hille, Budget Office; Henry Hocker, Superconducting Magnet Division; Michelle Holbrook, PPM; Garry Hubbard, C-AD; Roger Hubbard, National Synchro-

tron Light Source II (NSLS-II); Diana Hubert, HROM; Robert Hulsart, C-AD; Rachel Inguanta-Nieves, Physics; Lauren Jarrell, ISD; Allen Jones, WMD; Richard Jones, Site Services; Timothy Kelly, Laboratory Protection Division; Matthew Kessler, C-AD; Payton King, Medical Department; Robyn Koebel, HROM; Jane Koropsak, CEGPA; Nikolaos Laloudakis, C-AD; Mark Lavery, C-AD; Timothy Lehn, C-AD; William Lenz, Physics; Elaine Lowenstein, CEGPA; Phyllis Lucas, Facilities & Operations Directorate (F&O); Sarah Mahler, SHS; Salvatore Marino, Physics; Frank Masia, Energy & Utilities Division; Mary-Anne McGrath, HROM; William McKeon, Magnet; Frank McNeill, F&O; Anette Meier, SHS; Richard Meier, Magnet; M. Paul Menga, C-AD; Kevin Mernick, C-AD; Larry Milian ESD; Bonnie Miller, HROM; Jody Mitchell, PPM; Rick Morales, HROM; Tina Morrison, Quality Management Office; Christopher Naylor, C-AD; John Nicoletti, C-AD; Gail O'Hern, HROM; Mike Ojeda, Information Technology Division; Holly Olson, WMD; Catherine Osiecki, CEGPA; Rosa Palmore, Diversity Office; Darlene Peragine, HROM; Mark Peragine, C-AD; Stephen Perlstein, C-AD; David Peter, Lab. Protection; Debra Pettit, Fiscal Services Division; Donna Pfeiffer,

F&O; Margherita Pirozzi, Fiscal; Mary Louise Poli, PPM; Salvatore Polizzo, Physics; Steve Pontieri, C-AD; John Primiano, Lab Protection; Kun Qian, National Synchrotron Light Source Department (NSLS); Marteenio Rankine, SHS; Karen Ratel, Environmental Services Division; Margaret Reben, Fiscal; Claire Retundi, NSLS-II; Denise Rodgers, HROM; Anthony Santiago, NSLS; Steven Savatter, C-AD; Frank Scheifele, C-AD; Scott Seberg, C-AD; Peter Selgrad, NSLS-II; Bruno Semon, NSLS-II; Walter Shaffer, C-AD; Janet Sikora, HROM; Barbara Simpson, PPM; Scott Smith, ESD; Deborah Snyder, Medical; George Stone, ITD; Jing Tao, Condensed Matter Physics & Materials Science Department; Melanie Theisen, Env. Services; James Vaz, Lab Protection; Samuel Velazquez, Rad. Control; Mike Viscusi, Modernization Project Office; Richard Wall, C-AD; Andreas Warkentien, C-AD; Angela Wefer, Basic Energy Sciences Directorate; Christopher Weilandics, SHS; John White, Jr., C-AD; Michelle Wilinski, C-AD; Richard Wilke, ESD; Stuart Wilkins, CMP/MS; Ralph Wilson, SHS; Alex Withers, ITD; Kevin Wolniewicz, Instrumentation; Xi Yang, NSLS; Winnie Yu, Physics; Christopher Zarcone, C-AD; Kerry Zendzian, Dir.'s Office; and Jordan Ziegler, C-AD.

BWIS Reception, Chasman Scholarship Presentation, 9/2
Brookhaven Women in Science (BWIS) invites the BNL community to a summer reception and presentation of the Renate W. Chasman Scholarship for Women, on Thursday, September 2, from 5:15 to 7 p.m. in the Physics Seminar Lounge, Bldg. 510.
Named after Renate Chasman, a renowned physicist who worked at Brookhaven, the \$2,000 scholarship is awarded each year to a re-entry woman — one whose college education was interrupted, but who has returned to pursue a degree on a half time or greater basis. BWIS offers the scholarship to qualified candidates annually to encourage women to pursue careers in science, engineering, or mathematics.
Refreshments will be served at the reception. For more information, contact Loralie Smart, Ext. 2425, or lsmart@bnl.gov.

Kids Swim Free
Children are invited to swim with their parents at the pool (Bldg. 478) for free all next week, Monday, August 30, through Friday, September 3, from 2 until 5 p.m.

New BERA Fitness Class Schedules
BERA's fitness classes make staying in shape easy during the fall, winter, and spring. Make checks payable to BERA and send to the Recreation Office (Bldg. 400A), and see www.bnl.gov/bera.

- **Aqua Aerobics:** Eight-week session, Tuesdays and Thursdays from 5:30 to 6:30 p.m. at the pool (Bldg. 478). Classes start September 7 and run until October 28. \$25/1x per week, \$50/2x per week. Sign up for a 16-week session through January 20, \$45/1x per week, \$90/2x per week.
- **Pilates:** Eight-week session, Wednesdays 5:30–6:30 p.m. at the Rec Hall (Bldg. 317). Classes run from September 15 until November 3. \$70.
- **Zumba:** Eight-week session, Tuesdays from noon until 1 p.m. at the gym (Bldg. 461). Classes begin on September 14 and run until November 2. \$80.

Grads: Apply to Participate In SBU Provost's Graduate Student Lecture Series
The Graduate School at Stony Brook University is still accepting applications for participation in the Provost's Graduate Student Lecture Series. This series seeks to provide a mechanism for graduate students across campus and at associated institutions such as BNL to present their work in a public forum; to formally recognize excellence in graduate student research; and to expand communication among disciplines across campus and associated institutions. Each lecture is expected to last about 40 minutes with 20 minutes reserved for questions and answers.
Graduate students are encouraged to nominate their paper for inclusion in the series, or faculty may nominate students. The application form and information on requirements are available on the homepage of BNL's Association for Students & Postdocs (ASAP) website at <http://www.bnl.gov/asap>.

Arrivals & Departures	
— Arrivals —	
Charles Amarito.....	NSLS-II
Babak Andi.....	Biology
Stephanie Bogart.....	Legal
Dari Scuola.....	Safety & Health
Simerjeet Gill.....	ES&T
Dmitri Smirnov.....	Physics
Xiqian Yu.....	Chemistry

— Departures —	
Ray Roberts.....	Quality Mgmt
Kevin Whelan.....	Medical
Jie Wei.....	C-AD

Correction
The Bulletin regrets that the departments of two departing BNLers last week were inadvertently transposed. Lee Newman should have been announced as leaving from Biology, and Yang Qin from the Center for Functional Nanomaterials, not vice versa.

Starfish Swim Lessons — for Four-Year-Olds Only!
At the BNL swimming pool on Saturday mornings from September 11 through October 23, swimming lessons will be offered for four-year-old children of BNL families. Only children who are four by June 2010 may register. Two half-hour classes, 9-9:30 a.m. and 9:30-10 a.m., will be held. The cost is \$80 per child. To register, send your name and life number; the name, age, and date of birth of your child; your home phone and cell-phone number, email, and a check for \$80 made out to BERA, to Joanne Rula, Recreation Office, Bldg. 400, by Friday, August 27. For more information, call Rula, Ext. 2873.

CALENDAR

— WEEK OF 8/30 —

Thursday, 9/2

*BWIS Reception and Chasman Scholarship Award
5:15-7 p.m. Physics Department, Large Seminar Room, Bldg. 510. Brookhaven Women in Science invites the Lab community to a summer reception and the presentation of the Renate W. Chasman Scholarship for Women. All are welcome. Refreshments will be served.

— WEEK OF 9/6 —

Monday, 9/6

Labor Day Holiday, Lab Closed
No Bulletin this week.

— WEEK OF 9/13 —

Tuesday, 9/14

Pegram Lecture
4 p.m. Berkner Hall, Room B. Bruce Alberts, Editor-in-Chief of *Science* Magazine, will talk on "Science Education: From Kindergarten through College." All are welcome to this free talk, sponsored by BSA and open to the public. Visitors to the Lab of 16 and older must carry a photo ID.

Wednesday, 9/15

Pegram Lecture
11 a.m. Berkner Hall. Bruce Alberts of *Science* will talk on "Biology Past and Biology Future: Where Have We Been and Where Are We Going." All are welcome to this free talk, sponsored by BSA and open to the public. Visitors to the Lab of 16 and older must carry a photo ID.

— WEEK OF 9/20 —

Tuesday, 9/21

*BNL Blood Drive
9:30 a.m.-3 p.m. Brookhaven Center. Your gift of life is greatly needed and will be deeply appreciated. Donors must be 17 to 75 years of age, in good health and weigh over 110 lbs. Restrictions may apply to some from the UK and Europe. Donors must have a photo ID and know their social security number. To make an appointment, log on to the Human Resources web-page, click on "Blood Drive," then "Schedule an Appointment." Or, call Liz Gilbert, Ext. 2315. See p.4.

Wednesday, 9/22

461st Brookhaven Lecture
4 p.m. Berkner Hall. Michal Herman of the Energy Sciences & Technology Department will talk on a topic to be announced. All are welcome to this free talk, open to the public. Visitors to the Lab of 16 and older must carry a photo ID. (Note change in date from previously scheduled 9/15.)

School Supply Drive
Please donate new school supplies for children who otherwise will lack the proper equipment when school opens. Everything is needed, from pencils, pens, notebooks, folders, to calculators, lunchboxes, and backpacks. Drop off your donations in the bins in Bldg. 400 lobby or at the BERA Store. Cash donations accepted also. For information, call Ext. 5090.

Classified Advertisements

Access many more current job openings on the World Wide Web at www.bnl.gov/HR/jobs/ and see also <http://www.bnl.gov/HR/careers/>

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

Driver (LG-6) - Drives and services any and all Laboratory automotive vehicles under any conditions of usage. May be required to load and unload, perform necessary road maintenance, and perform related clerical duties. Procurement & Property Management Division. Please submit Transfer Request to Diana Hubert, HR, Bldg. 400B referring to Job ID # 15480.

Motor Vehicles

06 HYUNDA ELANTRA GLS - 41K mi. 5dr hb, 1yr 19K mi warr, new brakes fwd, a/c, p/b, p/s, p/w, cd, \$7,800 neg. 929-8204.

06 KAWASAKI VULCAN 900 LT - 5.3K mi. red/blk, excel cond gar all the time. \$4,000 neg. 286-6492.

06 INFINITI G35 COUPE - 56K mi. 3.5L V6, 6 Sp Manual, 2 dr, Athens blue, Excel. cond., Full warr. \$22,900. 347-453-5749.

01 CONTINENTAL CARGO TRAILER - 6x12 enclosed side dr, rear tailgate. \$3,000. 979-7043.

01 FORD TAURUS SES - 157K mi. lthr bckts, 6cyl, spoiler, all pwr, a/c, MP3, AUX input, c/c, 4 new tires, \$3,500 neg. Ext. 4039.

00 HONDA ACCORD EX-L - 145K mi. 2dr Cp, V6, lthr, s/m/roof, a/c, c/c, p/b, p/w, p/s, stereo, cd, rem start, \$5,100. 681-8840.

98 NEWMAR KOUNTRY AIRE - 50K mi. Motorhome, 40', fully equip, 1 slideout, must see. \$55,000. Bob, 289-1834.

98 MERCURY NAVIGATOR - clean body, runs, high mi salvage. \$1,500. 979-7043.

80 HARLEY DAVIDSON LOW RIDER - 1340cc orig. \$6,000. 979-7043.

Furnishings & Appliances

AIR PURIFIER/IONIZER - Holmes Tabletop, works well, \$10. 278-1905, difilip@bnl.gov.

BOOKCASES - white laminated 72"L x 28"W x 11-1/2"D, \$25; 29"L x 28"W x 12"D, \$20. 979-7043.

CRYSTAL FRAME, PORCELAIN SET - for 5"x4" photo, w/box \$5; 2x3 frame, vase, dish; (Lenox look), \$5. moloughlin@bnl.gov.

DECK CHAIRS - plastic outdr chairs, great cond, 13/white, 4/green, 4/blue. Mary, Ext. 3927 or maryc@bnl.gov.

ELECTRIC STOVE - \$250/white/self-cleaning; chrome clothes rack \$20, filing unit/\$20; Nina, Ext. 5894, 475-1297.

LOVE SEAT - leather, gold, like new, photo available, u-pick up in Queens. \$100. Diane, Ext. 2347.

MATTRESS, BOXSPRING & FRAME - full size, gd cond, clean, \$40. 525-6648.

PIANO - Winter Upright, reduced/\$200, pic avail. Lynda or Michael, 286-1018.

SOLIDWOOD Q/SIZE BED FRAME - \$130/neg, please contact for pics. Wen-can, Ext. 8061.

WASHING MACHINE - GE, gd cond, sold sep/\$50 or w/drier, Maytag/\$100. Igor, Ext. 5801 or igorelsky@yahoo.com.

WINDOW AIR CONDITIONER - Sharp AF-S120NX, Energy Star 12,000 Btu/hr, 3 yrs old, \$100. Tsong-Lun, Ext. 2389.

Audio, Video & Computers

AMPLIFIER - MTX 280 watts W/MTX box, 2/10" woofers 1/not working, 2/tweeters, \$50. Doris, 979-7043.

BOSE WAVE MUSIC SYSTEM - graphite gray, incl multi-CD changer, used 2ce, in box, retail/\$750, ask/\$600. Mark, Ext. 3970.

COLOR TV - 24" RCA micron w/built-in VCR, works well, \$75. 334-9682.

COLOR TV - 27" Sansui, gd cond, ask/\$20. Wei, 740-274-9406 or weilin@bnl.gov.

DELL DIMENSION 2400 - 2.66GHz P4, 1.25GB RAM, 80GB HD, clean install XP Home, \$200. mwahlert@bnl.gov.

TIVO WIRELESS ADAPTER - AG0100, G USB Network, new/\$30. Min, Ext. 2508.

VISION PROJECTOR CEILING MOUNT - Univ. Sanus System for home theaters and offices, \$50. 278-1905 or difilip@bnl.gov.

YAMAHA KEYBOARD /KARAOKE STA. - PSR-K1 61 Keys Karaoke keybrd Entertainment Station ask/\$250 Ron, 379-0742.

Sports, Hobbies & Pets

BOOGIE BOARD, SWIM FINS, MASK - good condition, \$75, price negotiable. Yvette, Ext. 5591 or malavet@bnl.gov.

KITTENS 4 ADOPTION - 14wk old male tuxedo kitten, avail 9/1, 2 calico & 2 tabbies, 6 wks old then. Donna, 398-8024.

LADIES PING G5 IRONS - Excel. cond; incl Odyssey White Hot putter, \$150. Sharon Jones, 929-4270.

MEN'S WETSUIT SET - sz:Med, barely used, not in saltwater, 7mm, incl 2pc suit, mask/boots/fins, \$100. moloughlin@bnl.gov.

Ballroom Dance Lessons Re-Start, 9/1

Three new six-week sessions of weekly ballroom dance lessons, sponsored by the BNL Ballroom Dance Club and given on Wednesdays by instructor Giny Rae at \$45 per person for each session, will start on Wednesday, September 1.

The new schedule is as follows: Beginner ONLY merengue lessons, 5:15-6:15 p.m.; Advanced beginner cha-cha lessons, 6:15-7:15 p.m.; Intermediate tango lessons, 7:15-8:15 p.m.

Classes are held in the North Ballroom of the Brookhaven Center. Lessons are open to all BERA members, BNL employees, retirees, official BNL visitors and their immediate families (spouse and children). Each BERA member may bring a partner, but a partner is not necessary to participate. New dancers may try two classes before they have to pay for the series.

For more information, contact: Vinita Ghosh, Ext. 6226; John Millener, Ext. 3853; Kathleen Tuohy, Ext. 3845; Kerry Mirabella, Ext. 2632; Michael Hanson, Ext. 2947; or go to <http://www.bnl.gov/bera/activities/dance/default.asp>.

BERA Updates

Family Activities, Outings

Want to join other families in various activities? Go to www.Meetup.com and sign up for the BNL Playgroup. Julie Venegoni & friends go to free or low-cost concerts, farms, organize children's book time, and more! Note that BNL Play Group, Knitting, & Hospitality will meet again starting September 14 at the Rec Hall, Bldg. 317. See www.bnl.gov/hospitality.

US Open: Tue., September 7. \$65 per person includes for admission, bus, parking, tip. Leave BNL 8:30 a.m., leave Open 7:30 p.m.

BERA End of-Summer Bash

Join friends and dance at the BERA End of Summer Bash at the Brookhaven Center on Friday, September 10, 6-11 p.m. Buy tickets at the BERA Store, \$5 per person - only 150 tickets are available.

PAINTBALL GUN - Spyder Rodeo w/CO2 cartridge & hopper, pic, paintballs and holster also avail. Ext. 7235, 790-2205.

POODLE PUPS - sm, black, healthy, whelped 7/13, parents on site, mother miniature, father ty, tails docked, vet checked. 871-7631.

SEWING MACHINE - Kenmore, w/case, gd cond, basic, straight & zig-zag stitches only, v/ heavy duty, \$25. Kathleen, Ext. 7114.

STAMPIN' UP - *2pads, *Rollagraph(party) *12 stampin spots bold brights *11 Two-Step "Eat Cake" \$20. 278-1905.

THERMOS - hot/cold push button spout, brand new; \$10. 979-7043.

WETSUIT - youth, size 12, excl cond, pd/\$110, ask/\$50. 286-1018 or fitz@bnl.gov.

Tools, House & Garden

CAR LANTERN - brand new, plug in light for car's cigarette lighter plug, 16' cord w/hook to hang, \$5. Paul, Ext. 2899.

Miscellaneous

6HP GO KART - yerf-dog go kart, 6hp tecumseh motor needs tune up; has new air filter, spark plug, \$400. Matthew, Ext. 4612.

GUITAR-TAYLOR 355CE 12 STRING - nr mint cond, Fishman pre-amp, cutaway, orig hard shell case incl, \$1375. Ext. 4850.

JUST THE RIGHT SHOE - "Blush" #25020; "Rising Star" #25043 w/cert like new, in box, \$5/ea. moloughlin@bnl.gov.

ROCKER - infant to toddler, \$30; baby's changing table/\$20; 0-7 yrs girls' clothing/\$2/ea; toy helicopter/\$5. 475-1297.

SAMSONITE LUGGAGE - 2 sets, 4 pc, v/gd cond, pic avail, \$100, price negotiable. Yvette, Ext. 5591.

VASE - Lenox, 6"h, \$10; M. Mouse ball; vintage, nds air, \$10; cuckoo clock, authent. w/ dancing figures, nds repair/\$100. 979-7043.

VW & AUDI REPAIR - Certifi VW tech w/7 yrs dealer exper, all repairs, maint-to-eng diag, also other makes, models. 484-9888.

Car Pool

WESTBURY/PLAINVIEW - Established 3-person car pool looking for 4th person. 8-4:30. Ron, Ext. 6068.

Happenings

ANNUAL CLAM BAKE - POLISH AMERICAN IND CLUB of Pt Jeff Sta, 9/5, 3-8pm, \$40pp/ \$15/child, incl unlimited beer & soda chicken & lobster BBQ and entertainment. Mark, sardzinski@bnl.gov.

Free

WINDOW TREATMENT (SCARF) - cream color scarf for dbl window. Trimmied in beaded small tassels. Nancy, Ext. 4567.

Wanted

AT&T BLACKBERRY CURVE - used, interested in purchasing. Davida, dbynum@bnl.gov.

DOG AND CAT FOOD DONATIONS - For pets of struggling families/elderly. Many are finding it difficult affording to feed their pets. Collection bins are at Bldgs 134, 400, 510 (x5864), 725, 901, 902. Kathleen, Ext. 3161 or kratto@bnl.gov.

MICROWAVE CART & FUTON FRAME - light color w/drawer preferred, light wooden frame preferred, only if in gd cond, mattress unimportant. Maurice, Ext. 2159 or askinazi@bnl.gov.

NEW/GENTLY USED CLOTHES - all sizes, children's books, toys to be donated to 76 families living in a shelter, Laura X4027, lbuscemi@bnl.gov and. Kathleen, Ext. 3161 or kratto@bnl.gov.

Lost & Found

FOUND DOG - sweet, friendly, extremely well behaved, house-broken Male Chihuahua, no collar, no tags, primarily blk w/sand color paws & face, found 8/19 off Longwood Rd. Ext. 5753, 924-6395.

For Rent

CALVERTON - 10 min from Lab, 3bdrm 2bath l/r, d/r, den, gar, eik, full unfin bsmt, 1/4 acre, util not incl, on or about Oct 15th. \$1,900/mo neg. Thomas, 807-1380.

FLANDERS - Waterfront, dpwater dock, sail boat incl., bulk heading, deeded beach rts, newly-renov, cathed ceilg, 3 bdrm, 2 bath (Jacuzzi), 2 way heating/AC, nat. gas, pos. sale. \$2,000/mo. Ext. 3078.

MASTIC - share spacious hse w/lots of privacy, Exit 68 off LIE, reasonable cost, call for details. Frank Colletti, 917-832-2863 or frankcoletti@yahoo.com.

MILLER PLACE - share lg furn Colonial home in prof resid area, 8 mi to BNL, c/a/c heat, own bdrm, full kit, tv/int, fen backyd/deck/grill, 2 bdrms avail, Non-smkr. \$675/mo. 744-8386.

RIDGE - spacious 1 bdrm, bath, 7 min to Lab, pvt ent/drwy, all util incl, l/r, eik, w/d, pet ok, tile/new carpet, fresh paint. \$1,125/mo. Mary, 236-9114.

ROCKY POINT - Bright 1 B/R, L/L Apt, including heat, electric,cable and internet. No pets, non smoker. First month + security. \$975/mo. Rob, 697-6581.

ROCKY POINT - 1 bdrm upper unit, kit, bath, l/r, balcy, quiet co-op comm, nr stores, Indry rm on prem, prkg, no smkg/pets, cac, incl gas/water. \$1,150/mo. 806-5965.

ROCKY POINT - 1 bdrm, 2nd flr, priv drwy, incl some util, no smkg/pets. \$795/mo. 821-3287.

SHOREHAM - spacious, clean 1 bdrm furn studio apt, sep ent & thermo, full bath, kit, patio, big yd, cable TV, no smkg/pets, 7 min to lab, avail now. \$750/mo neg. 821-4318.

SOUND BEACH - 3-bdrm, eik, lg l/r, small office, very well maintained. 2 months security & credit check, renter pays utils. \$1,650/mo. 516-987-0501.

YAPHANK - Roomate/share Whispering Pines 3br condo, clean, furn rm priv bthrm, pool, tennis, 2mi to bnl, neg. \$725/mo. Edward, 578-4057 or estein@bnl.gov.

For Sale

MASTIC BEACH - Ranch, 6 rms, 3 bdrm, newly renov, eik, l/r, d/r, new bath, full bsmt, big yard/fen nr schools, 20 mins to Lab. \$199,900. Ext. 7472 or loftus@bnl.gov.

NESCONSET - Expanded & updated 4br home. Lg eik, 2.5 renov baths, den/fpl, hwd flrs, Anderson windows, igs, more! Smithtown schools. \$409,000. 656-0727.

WARTBURG - Two 5-acre lots, 29&30, White Creek Acres, gated comm, Morgan Cnty, Knoxville, mtn views, runs into Obed Wild, Scenic River. \$80,000 neg. 278-1905.

Services

<http://intranet.bnl.gov/ads/displayAdsAll.asp>

Blood Donor Joe Tuozzolo Wins Jets Tickets



Joseph Rubino D1300810

John Pagano (left) presents two pre-season Jets tickets to blood donor and raffle winner Joe Tuozzolo. Pagano, an enthusiastic Jets fan, donated the tickets hoping to increase the number of blood donors.

Joe Tuozzolo of the Collider-Accelerator Department has been a regular blood donor since he was in college. "I consider myself fortunate to be in good health and able to give such a special gift," Tuozzolo said. But at the Lab's last blood drive in June, Tuozzolo won a different kind of gift: he held the winning raffle ticket awarding him two pre-season tickets for the New York Jets donated by Security Police Officer John "Cuz" Pagano of the Laboratory Protection Division.

Pagano said he donated the two tickets hoping that it would motivate Lab employees to participate in the blood drive. "A family member recently needed blood during surgery," Pagano said. "At that moment I truly realized the importance of donating blood. I thought that offering the tickets might raise awareness and get additional donors."

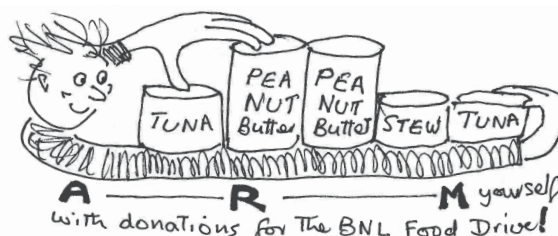
Tuozzolo is grateful for his good luck. "My biggest decision now is to figure out which of my three children to take to the game," said Tuozzolo. "They are all football fans so I might have to hold my own personal raffle to see who actually gets to accompany me to the game. I thank Officer Pagano for his generosity and good will. Most importantly, I encourage Lab employees to donate blood. It really does make a difference."
— Jane Koropsak
Note: The next Lab Blood Drive will be on Tuesday, September 21.

Walk to Fund Diabetes Research

In recognition of Disabilities Month, the BNL Americans with Disabilities Act Committee will sponsor the "Step Out Walk for Diabetes" led by the American Diabetes Association. This walk is scheduled for Sunday, October 24, at SUNY Old Westbury College. If you are interested in participating in this walk, contact Margaret-Ann Douglas, Ext. 2078, mdouglas@bnl.gov; or Mike Paquette, Ext. 5891, mpaquette@bnl.gov.

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Wednesday, 9/8; Thursday, 9/9; Wednesday, 9/15; Thursday, 9/16; Tuesday, 9/21; and Tuesday, 9/28. For an appointment, call 1-800-732-8353 or go online at <http://www.tiaa-cref.org/bnl> and select "set up a meeting."



It's Even Better in Color!

A spectacular lichen growing on a piece of wood caught the eye and camera lens of Len Santangelo, National Light Source Department, who set up the coin to show the real size. It is well worth looking at this fun photo in the Bulletin-on-the-web, <http://www.bnl.gov/bnlweb/pubaf/bulletin/default.asp>, where you'll see that at a quick glance it looks like a window box of geraniums! Tim Green, BNL's Natural and Cultural Resources Manager, tells the Bulletin that this lichen is known as "British Soldiers" due to the upright red fruiting bodies, and that there are several similar species in the genus *Cladonia* on Long Island.