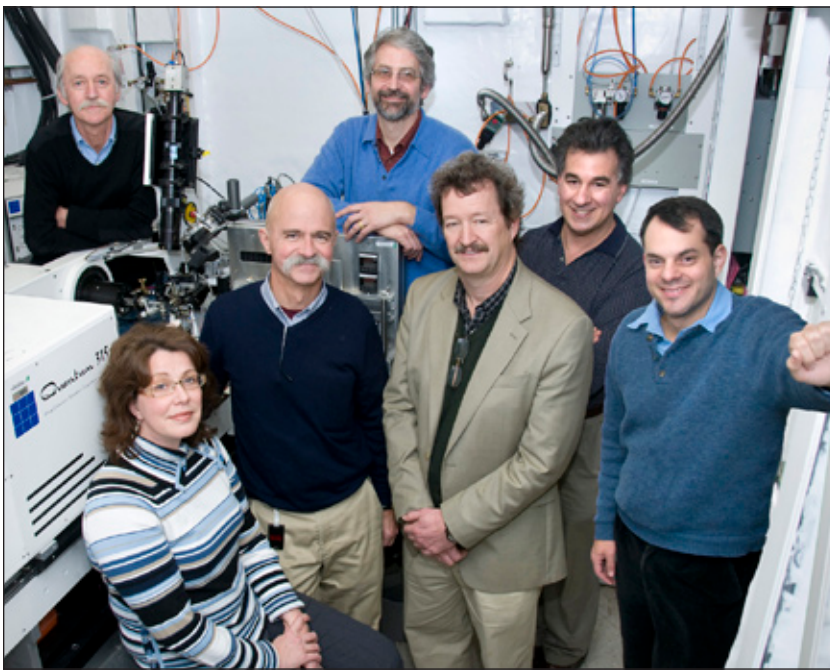


BNL Receives \$28 Million From DOE, NIH To Support Crystallography Facility

BNL received grants from DOE and the National Institutes of Health (NIH) totaling \$28 million to support an X-ray Crystallography Research Resource at the Lab's National Synchrotron Light Source (NSLS). The grants of \$15 million from DOE's Office of Biological & Environmental Research and \$13 million from NIH's National Center for Research Resources will fund five years of operations and research.

One of the world's most widely used scientific facilities, the NSLS provides intense beams of infrared, ultraviolet, and x-ray light to study materials as diverse as computer chips and viruses at the atomic level. X-ray crystallography at the NSLS involves experiments that reveal the 3-D atomic-level structure of large molecules, such as enzymes and nucleic acids, that are found in all living cells. X-ray crystallographers working at the NSLS determined the structures of numerous molecules, including those from organisms responsible for the common cold, Lyme disease, and AIDS. Knowing the structure of a molecule provides information about its function, which, in turn, may lead to



Some members of the X-ray Crystallography Research Resource team are: (back, from left) Dieter Schneider, Allen Orville, Lonny Berman and (front, from left) Annie Héroux, Robert Sweet, Howard Robinson and Alexi Soares.

important clues about how to create effective drugs to prevent or treat a disease.

"During the last year, 150 university, industrial and national laboratory research groups made a total of 800 visits to work at this resource," said Robert Sweet of the Biology Department, the principal investigator of the X-ray Crystallography Research Resource, which has a staff of 20. "Their experimental results provide crucial information that may lead to treatments for many health problems, including cancer, infections, and obesity."

One of the guest investigators who did research at the crystallography resource — Roderick MacKinnon of Rockefeller University — won the 2003 Nobel Prize in Chemistry for investigating the molecular details of nerve transmission. While much of the research at the facility is basic science that may lead to major discoveries, other work is targeted toward achieving a specific, practical goal. For example, about five percent of the research is done by pharmaceutical firms with the goal of finding drugs to treat human disease.

— Diane Greenberg



At the National Synchrotron Light Source are: (from left) BNL Director Sam Aronson, Senator Charles Schumer, Congressman Tim Bishop.

Schumer, Bishop Announce \$30 Million+ for BNL Science

Senator Charles E. "Chuck" Schumer (D-NY) and Congressman Tim Bishop (D-NY 1st) visited BNL on Tuesday, February 17, to announce that the Lab will receive more than \$30 million in direct funding from the economic stimulus bill signed that afternoon by President Obama. The Lab is also eligible to apply for a portion of an additional \$1.6 billion allocated for research. Lab Direc-

tor Sam Aronson described the two lawmakers as "very strong supporters of the Laboratory," helping obtain federal funds for infrastructure projects, environmental cleanup and to begin construction of National Synchrotron Light Source-II (NSLS-II).

"Get your shovels ready, build that light source!" Schumer declared. He said that

See *New Funding* on pg. 2

Eight BNL Scientists Granted Tenure

Brookhaven Science Associates (BSA) granted tenure effective December 1, 2008, to eight Brookhaven scientists. They are: Elaine DiMasi, National Synchrotron Light Source; Rita Goldstein, Medical Department; Yangang Liu, Environmental Sciences Department; Hong Ma, Physics Department; Cedomir Petrovic, Condensed Matter Physics and Materials Science Department (CMPMS); Triveni Rao, Instrumentation Division; Tonica Valla, CMPMS; and Paul Vaska, Medical.

As described in the Scientific Staff Manual, a tenure appointment "constitutes recognition of independent accomplishment of a high order in the performance of original research or of other intellectually creative activity appropriate to the purposes of the Laboratory.

"Recognition may be earned through significant contributions to knowledge related to the purposes of the Laboratory and/or in furtherance of the aims of the Laboratory, through continuing contributions of outstanding significance to productive uses of the facilities, or through outstanding and creative contributions to their design, development, and improvement."

Tenure appointments are granted by action of the BSA Board after a rigorous selection procedure overseen by the BSA Science & Technology Steering Committee. In making tenure decisions, the BSA Board is advised by members of the Brookhaven Council, an elected body that advises the Director on matters affecting the scientific staff.

A description of the accomplishments of each of the eight recently tenured scientists will follow, starting with Elaine DiMasi.

Elaine DiMasi

Physicist Elaine DiMasi was granted tenure based on her scientific contributions related to ordering at liquid surfaces as well as her research and leadership in the field of biomineralization.

"Elaine has clearly demonstrated creative and independent accomplishment of a high order in performing original research," said Steve Dierker, Associate Laboratory Director for Light Sources. "Her work has been at the forefront of her field and has provided the groundwork for exploration by others. We are delighted that she is a member of the scientific staff in the Light Sources Directorate."

Most recently, DiMasi has made a name for herself by using synchrotron tools to take structural measurements in studies involving biomineralization, the process by which organisms form materials such



as bones and mollusk shells. Finding a way to mimic the properties of these sturdy and naturally made materials could lead to the medical engineering of replacement bone, teeth, and cartilage, as well as the development of new electronic and industrial materials. Prior to her biomineralization work, DiMasi contributed to research and technical advances in the

See *DiMasi* on pg. 2

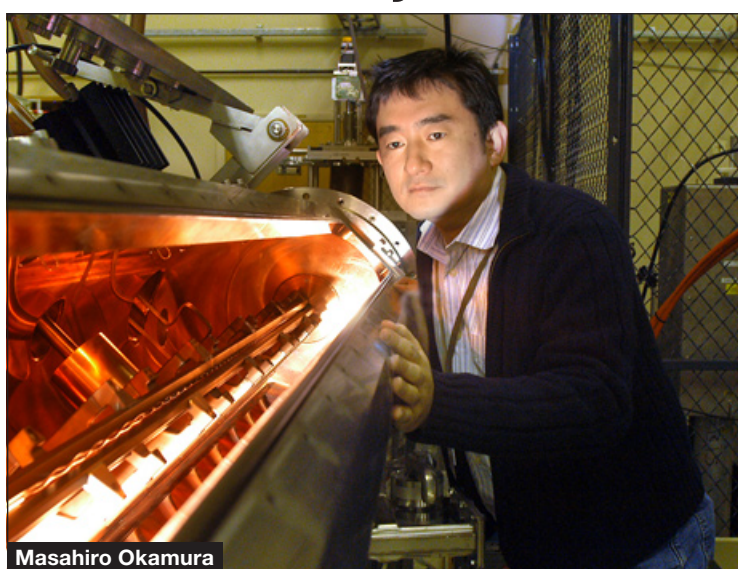
447th Brookhaven Lecture, 3/4

The Next Generation of Heavy Ion Sources

Imagine if, by staying in your lane when driving on the expressway, you could help fight cancer or provide a new, clean energy source. You would clench the steering wheel with both hands and stay in your lane, right?

Unlike driving on the expressway where you intentionally avoid hitting other cars, scientists sometimes work to steer particle beams into head-on collisions with other oncoming particle beams. However, the particles must be kept "in their lanes" for cleaner, more frequent collisions. Some scientists propose starting the whole process by using lasers to heat a fixed target as a way to get particles with higher charge, which are more steerable. These scientists believe the new methods could be used to develop particle beams for killing cancer cells or creating usable energy from fusion.

On Wednesday, March 4, join Masahiro Okamura of Brookhaven's Collider-Accelerator Department for the 447th Brookhaven Lecture, titled "The Next Generation of Heavy Ion Sources." All are invited to attend this free talk, which is open to the public and will be held in Berkner Hall at 4 p.m. Refreshments will be offered before and after the lecture. All visitors to



Masahiro Okamura

the Lab ages 16 and older must carry a photo ID while on site.

Okamura will explain how lasers can be used to create plasma, neutral mixtures of positive ions and negative electrons, from different materials, and how using this plasma leads to beams with higher charge states and currents. He will also discuss how this efficient, simpler method of producing particle beams might be used for cancer therapy, to develop new energy sources, or in synchrotrons.

Okamura attended the Tokyo Institute of Technology, earning a bachelor of science in applied physics in 1990 and

then a masters' degree and Ph.D. in nuclear engineering in 1992 and 1995 respectively. In 1995, he joined RIKEN's Radiation Laboratory as a contracted researcher and then became an Invited Scientist that same year. He worked as a special postdoctoral researcher at RIKEN from late 1995 until 1998, a contracted researcher until 1999, and a researcher from 1999 until 2006. He joined Brookhaven as a physicist in 2006.

To join Okamura for dinner at an off-site restaurant following the lecture, contact Sandy Asselta, sandylee@bnl.gov, Ext. 4550.

— Joe Gettler

CALENDAR

OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- 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 www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894

Mondays: BNL Social & Cultural Club
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, alforque@bnl.gov

Mondays & Wednesdays: Pilates
12:15-1:15 p.m. Mons.; 5:15-6:15 p.m. Mon. & Wed. Rec. Hall. \$65/once/wk., Ext. 5090

Mondays & Thursdays: Kickboxing
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Ext. 8481

Mon., Thurs., & Fri.: Tai Chi
Noon-1 p.m., B'haven Cntr N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov

Tuesdays: Hospitality Coffee
10:30 a.m.-noon, Rec. Hall lounge. Restarts 9/9. All welcome. Ext. 5090

Tuesdays: BNL Music Club
Noon, B'haven Center, N. Room. Come hear live music. Joe Vignola, Ext. 3846

Tuesdays: Knitting Class
2 p.m. Rec. Hall. All levels of skill. Ext. 5090 for information

Tuesdays: Jiu Jitsu
6:30-7:30 p.m. Gym. All ages, 6 yrs. to adult. \$10/class, pay as you go. Tom Baldwin, Bldg. 452, Ext. 4556

Tuesdays: Toastmasters
3 monthly meetings: 2nd Tuesday: Noon, Berkner, Rm. D. 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. www.bnl.gov/bera/activities/toastmstrs/

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

Tuesday & Thursday: Aerobic Fitness
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, flood@bnl.gov

Tuesday & Thursday: Aqua Aerobics
5:30-6:30 p.m., Pool.

Tuesday & Thursday: Jazzercise
Noon-1 p.m. Rec. Hall. 8-wk session, \$90 2x/wk. Holbrook & Wading River locations too. Mail chk to Recreation Office, Bldg. 400.

Wednesdays: On-Site Play Group
10 a.m.-noon. Rec. Hall. Infant/toddler drop-in event. Parents meet while children play. Restarts 9/10. Petra Adams, 821-9238

Wednesdays: Ballroom Dance Class
B'haven Center, N. Ballroom. Instructor: Giny Rae. New series starts 2/25. Three 1-hr. classes, starting at 5:15 p.m. Ext. 3845

Wednesdays: Yoga
Noon-1 p.m., B'haven Center. 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
Noon-1 p.m., First Thurs. of month. Berkner, Rm. D. Toni Hoffman, Ext. 5257

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

Fridays: Family Swim Night
5-8 p.m. BNL Pool. \$5 per family

Fridays: Family Gym Night
5-8 p.m. Family gym activities. Free

Fridays: BNL Social & Cultural Club
Noon-1 p.m., B'haven Center, S. Room, free beginners dance lessons. 7-11:30 p.m. N. Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, alforque@bnl.gov

BNL Hosts Students in Science, Technology Mini-Course



Roger Stoutenburgh 00330106

Participants in the 2009 New York State Department of Education's Collegiate Science & Technology Entry Program held at BNL included Lab scientist/instructors, program coordinators, and science-major college students who hope to return as Brookhaven research interns.

Nineteen students from 15 New York State colleges and universities spent five days at BNL exploring the latest research and technology in energy and environmental sciences. For the fourth year, in partnership with the New York State Department of Education's Collegiate Science & Technology Entry Program (CSTEP), the Lab offered the CSTEP mini-course to introduce underrepresented undergraduate science, technology, engineering, and mathematics (STEM) students to cutting-edge research and possibilities for their future academic and career paths.

This year's mini-course focused on research in energy and environmental sciences. Lectures given by BNL researchers

included topics on climate and global change, alternative energy sciences, computational sciences, nanomaterials, addiction, physics, chemistry, crystallography, and plant biology. Students also toured facilities such as the Center for Functional Nanomaterials; the Linear Electron Accelerator Facility (LEAF); the Center for Computational Sciences, which houses the New York Blue supercomputer; and the National Synchrotron Light Source.

"They were a very focused and engaged group of young people," said John Miller of the Chemistry Department, who guided the students on a tour of LEAF and discussed his research that uses an accelerator and lasers to find new sources of solar energy.

Devinder Mahajan, another BNL chemist, spent nearly a day with the students exploring alternative energy science and biofuels. "They were very engaged in the lectures, setting a good stage for the lab session in which I showed them how we make biofuels," he said. "They were very inquisitive during the hands-on experience of using a gas chromatograph to analyze gas and liquid products."

Students also engaged in hands-on workshops in citric acid remediation and global change.

Lindsey Klinge, a chemistry student from Purchase College, State University of New York, was one of several students who are selected to return for a summer research internship at the Lab.

"I hadn't considered using chemistry for environmental remediation before I saw the scientists' [A.J. Francis and Cleveland Dodge] presentation, but now I would like to pursue a career doing such research," Klinge said.

Nina Leonhardt, CSTEP Director at Suffolk County Community College, said, "The chance for NYS CSTEP students to spend a week at a national laboratory is priceless. Interacting with world-class scientists, doing scientific research, and visiting amazing facilities will surely cultivate our next generation of STEM professionals."

For more information on BNL's educational programs, see www.bnl.gov/education.

— Satya Shanmugham

New Funding from pg. 1

Brookhaven can expect to receive \$103 million soon in an omnibus bill to begin building the conventional facilities for the projected \$912 million machine that will enable cutting-edge research in many fields. The project will mean 1,000 new Long Island jobs over the next three years. NSLS-II is scheduled to begin operations in 2015. Schumer called the Laboratory "a linchpin of the Long Island economy," and said that the stimulus funding is intended to put people to work in ways that will have a long-lasting effect.

"A great society can both take

care of us in the present and in the future, and that's what the stimulus does in bolstering Brookhaven," he said. "Research into the deep and heavy sciences will make life better for our children."

Bishop, whose family farmed on Long Island for six generations, called it "a great day for Brookhaven, for our region and for our country." He praised Brookhaven for "doing outstanding work moving the country forward on so many fronts. I know that the money we invest in this Lab will be extremely well spent and will change lives for years to come." — Kay Cordtz

In Memoriam

Richard Krajewski, who came to the Department of Applied Science on February 1, 1977, as an assistant engineer II, died on December 31, 2008, at the age of 73. He had left the Lab in 1986, returning in 1989. He retired as a project engineer I on January 31, 2000.

Joseph Nolan, who joined the Plant Engineering Division on May 16, 1977, as a custodian, and retired from the Property & Procurement Division as a stores clerk on October 11, 2001, died on January 10, 2009. He was 56.

Walter Schlichtcroll, who joined the Plant Engineering Division as a steamfitter A on April 1, 1963, died at age 78 on February 9, 2009. He had retired as a steamfitter A Group Leader on June 26, 1992.

Notice of Controlled Area Postings During RHIC Operations

The Collider-Accelerator Department is currently running the Relativistic Heavy Ion Collider (RHIC), which is expected to operate until mid-April 2009 but could run longer. During this operating period, the entire RHIC site, including the inner road, is posted as a Controlled Area with the exception of Building 1005 (the Collider Center), the adjacent parking lot and the approach road to Building 1005. In addition, the northern portion of Thomson Road is posted as a Controlled Area and closed to routine traffic.

The following requirements must be satisfied before entering the posted Controlled Areas. Failure to comply with these requirements could lead to a Reportable Occurrence and a Price Anderson Amendment Act violation:

1. Access requires up-to-date General Employee Radiation Training and facility specific training.
 - *Experimenters*: contact the RHIC & AGS Users' Center (Ext. 3333) for assistance.
 - *BNL Employees*: contact Ann-Marie Luhrs (Ext. 7007) for assistance.
2. Escorted Access may be granted by contacting Ann-Marie Luhrs (Ext. 7007). Escorts must complete a Training Waiver Form and the escorted entry must be approved by the Collider-Accelerator Department. Call at least one day prior to the escorted access. Escorted access may be for visitors or deliveries.

As always, all personnel are expected to adhere to the posted requirement.

Coming Up, 3/11

Astronomer Jill Tarter, AAAS Fellow, On 'The Search for Extraterrestrial Intelligence: Fact, Not Fiction'

Jill Tarter, director of the Center for SETI (Search for Extraterrestrial Intelligence) Research, will talk on "The Search for Extraterrestrial Intelligence: Fact, Not Fiction," in Berkner Hall at 4 p.m. on Wednesday, March 11. Sponsored by Brookhaven Women in Science (BWIS) and the Diversity Office in celebration of BWIS's thirtieth anniversary, the lecture is free and open to the public. Visitors to the Lab age 16 and over must bring a photo ID. Those who are interested in joining the speaker for dinner after the talk should contact Kathy Walker, Ext. 7105.

The character that Jodi Foster plays in the 1997 movie "Contact" is based on Tarter. In real life, Tarter is a Fellow of the American Association for the Advancement of Science. She has received numerous awards for her work, including a Lifetime Achievement Award in 1989 from Women in Aerospace, two NASA public service medals, and the 2009 TED (Technology, Entertainment, and Design) Prize.

DiMasi from pg. 1

investigation of surface ordering of liquid metals.

DiMasi received her Ph.D. in physics from the University of Michigan in 1996, and immediately after, joined Brookhaven's Physics Department as a research associate. She was promoted to assistant physicist in 1997, associate physicist in 1999, and to physicist in 2002. She joined the NSLS as a physicist in 2003, where she currently serves as the spokesperson and local contact for beamline X6B, and helps develop instrumentation for beamline X9.

— Kendra Snyder

Arrivals & Departures

— Arrivals —

Naomi Baer C-AD
Myung-Geun Han CMP&MS
Stephen Klerk E&WMS
Laiman Kuet C-AD
Fang Lu Biology
Christian Ouellet ES&T
John Primiano Lab Protection
Thomas Regan .Dep. Dir. for Ops.
Elizabeth Scotto-Lavino ...Biology
Xiao-Liang Wang CFN

— Departures —

Adam Lichtl Physics
Noreen O'Donnell Info Services
Yuping Williamson Chemistry

Thank-you, Blood Donors

Generous BNLers donated 141 pints of blood at the February 14th Blood Drive held at the Brookhaven Center. Thanks!

Hispanic Heritage Club Offers \$500 Scholarships

The BERA Hispanic Heritage Club is accepting applications for five \$500 scholarships for high-school seniors. Applicants should:

- Be a high school senior graduating in 2009
- Have a minimum 3.0 cumulative GPA on a 4.0 scale (or equivalent)
- Be accepted by a college for fall 2009 classes to pursue a degree in science or engineering
- Be a Long Island resident attending Bellport, Longwood, Patchogue-Medford, Riverhead or William Floyd High Schools
- Have some degree of Hispanic ancestry
- Be a U.S. citizen or legal permanent resident with a valid permanent resident card

For information, see www.bnl.gov/bera/activities/hispanic, or contact Carmen Alvarado, alvarado@bnl.gov, Ext. 8900.

CIGNA Representative

A CIGNA Healthcare representative is available as needed in Human Resources, Bldg. 400, or by phone to assist with claims issues you have been unable to resolve yourself through CIGNA's Customer Service number (1-800-CIGNA24). Mary Beth Kivlen will be available by appointment only. You will need to provide all pertinent documentation. To schedule, call the Benefits Office, Ext. 5126.

BNL's 2008 United Way Campaign Nets \$163K+ for LI Services

At a celebration breakfast held on January 29 in Berkner Hall cafeteria, representatives of the United Way accepted a check for \$163,476, the over-the-top total of the recent fund drive at BNL.

In announcing the total, Lab Director Sam Aronson said, "In a time of declining availability of funds for philanthropic and humanitarian purposes, members of the Lab came through as we usually do with this campaign. Our spirit of giving to the community is resilient. Thank you, and congratulations, everybody."

Lanny Bates, Assistant Laboratory Director for Facilities & Operations (F&O), who chaired the campaign with Pamela Yerry of the F&O Directorate as his co-chair, said, "The beacon of Brookhaven National Lab stands out on Long Island as a contributor to United Way. I want to thank all the many individuals who contributed to this result. The quality of a campaign is always dependent on the efforts of the co-chair, and Pam Yerry, my co-chair in this campaign, has worked tirelessly to make it a success. We started the drive with the belief that BNL is a very special place, with very special people, and that they would come through. Absolutely true this year — nearly every category exceeded last year's numbers to give us this great amount."

Michael Cooney of the United Way expressed his apprecia-



Celebrating the 2008 donation of \$163,476 from BNL to the United Way (UW) are: (from left) Michael Bebon, Deputy Lab Director for Facilities & Operations (F&O); Pamela Yerry, Campaign Co-Chair; Michael Cooney, UW; Sam Aronson, Lab Director; and Lanny Bates, Assistant Lab Director for F&O and UW Campaign Chair.

tion and said that thanks to the Lab's gift, children who are going hungry will get food, women and children who have been abused will get more help, teens with substance abuse problems will get treatment, and more elderly people will get care.

In addition to the holiday auction, yard sale, book sale, and volunteer hours, BNLers initiated several other successful fundraising activities, which included a bake sale, several diet-killing breakfasts, an Asian luncheon, a "dunking" contest, and more.

Those who attended the holiday auction will be interested to know that all items not sold at

the yard sale were donated to the Salvation Army, which is partially supported by United Way.

The boxes of left-over books from the greatly appreciated secondhand book sale also found an excellent home. They were donated to several Longwood High School teachers who were collecting books for a project to help the Invisible Children organization, which manages Kids at Risk Action (KARA), a children's rights advocacy network. To learn more about this essential agency and its work in helping children, visit www.invisiblechildren.org.

And, to recognize their untiring efforts, Thea Stoeltinga of the

United Way awarded certificates of appreciation to the many "United Together, Sharing and Caring" 2008 Campaign participants, listed below:

Campaign Team Members were: Mike Bebon, Lois Caligiuri, Mary Campbell, LaRosa Collins, Don Farnam, Joann Giambalvo, Doon Gibbs, Kathy Gurski, Linda Hanlon, Christopher Johnson, Linda Jones, Kathy Lancaster, Jen Lynch, Vera Meier, Liz Mogavero, Maria Ohlsen, Susan Pepper, Carol Rooney, Joanne Rula, Bonnie Sherwood, Linda Sinatra, Aimee Sumereau, and Nancy Warren.

Campaign Captains were: Christine Bartow, Denise Miesell Bingham, Vincent Bonafede, Martha Bryant, Lois Caligiuri, Ila Campbell, Kevin Campbell, Ginny Coccorese, Steve Coleman, Janelle Collins, Michelle Cooper, Ray Costa, Mary Daum, Adrienne DeBoard, Linda DeMasi, Mike DePhillips, Sonny Dimaiuta, Francine Donnelly, Debbie Doyle, Joanne Durham, Ann Emrick, Joseph Falco, Linda Feierabend, Joyce Fortunato, Steve Gill, Donna Grabowski, George Goode, M. Betsy Hanson, Jeremy Jacobsen, Claudia Jones, Maryann Jullian, Nicole Kelly, Claire Lamberti, Nancy Losinno, Laura MacArthur, Yvette Malavet-Blum, Mindy Markstaller, Alexa McGill, Renee McNeil, Ed Murphy, Gary Olsen, Michelle Barsalona-Orlando, Carol Parnell, Sabrina Parrish, Susan Perino, Debbie Pettit, Erin Rogers, Carol Rooney, Mona Rowe, Joanne Rula, Robin Ruotolo, Linda Sallustio, Michelle Scaduto, Kathy Schoenig, Barbara Simpson, Joe Stanisci, Aimee Sumereau, Helio Takai, Michiko Tanaka, Heather Turbush, Jeanmarie Volkmann, Bernadette Whelan, and Pat Williams.

Chasman Scholarship for Women

Applications are now being accepted for the Renate W. Chasman Scholarship for Women, established in 1986 to encourage women who have taken a break from formal education to resume their studies in natural sciences, engineering or mathematics. The winner will receive a one-time award of \$2,000 from BNL's Brookhaven Women in Science (BWIS).

Candidates for the scholarship must be U.S. citizens or resident aliens who live in Nassau or Suffolk County, or in the boroughs of Brooklyn or Queens and are accepted for credit in a degree-oriented program at an accredited institution. Their program of study for 2009-2010 must be either at the junior or senior undergraduate or first-year graduate level, on a half-time or greater basis. The deadline for applications is April 1.

For application forms and more information, write to: bwisawards@bnl.gov, or by mail to: Chasman Scholarship Fund, P. O. Box 183, Upton, NY 11973, enclosing a stamped, addressed envelope. Download applications at: www.bnl.gov/BWIS/scholarships.asp.

Renate W. Chasman (1932-1977) was a noted physicist at BNL. Her work influenced particle accelerator design around the world. The Renate W. Chasman Scholarship Fund is supported by fund-raising events and tax-deductible contributions from individuals and organizations, including Brookhaven Science Associates, the company that manages BNL.

Irish Rock Band 'The Prodigals' To Play B'haven Center, 3/6

The Irish rock band The Prodigals will give a concert on Friday, March 6, at 8 p.m. at the Brookhaven Center. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

The Prodigals are considered to be one of the most successful bands to emerge from the East-Coast Irish scene. While the band members largely grew up in Ireland, their current roots are in Manhattan. The band's set list includes a variety of original funky and energetic Celtic songs. They have played in venues throughout the United States — Los Angeles, Las Vegas, Chicago, Boston, and



Maine — as well as in Canada and Germany. In addition to entertaining the audience with guitars and percussion, these musicians enliven their performance with banjo and button accordion. — Jane Koropsak

Tickets cost \$15 in advance or \$20 at the door. Buy tickets at the BERA Store in Berkner Hall, weekdays, 9 a.m.-3 p.m. or through www.ticketweb.com.

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Wednesday and Thursday, March 11 & 12, Wednesday, March 18; and Tuesday, March 24, to answer employees' questions about their financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare life-time income vs. cash withdrawal options. For an appointment, call 1-800-732-8353.

American Red Cross Lifeguard Training

Register now for certification in lifeguarding, waterfront lifeguarding, CPR for the professional rescuer, automated external defibrillator (AED) usage, and first aid. Trainees must be at least 15 years old, pass a mandatory swimming pre-test on 3/22, 10 a.m. - 2 p.m., and attend all training sessions, 10 a.m.-3 p.m.: 3/29; 4/5, 19, 26; and 5/3, 10, 17, at the pool in Bldg. 478. The course and certifications cost \$325/person, \$50 non-refundable deposit included. Call Heidi Jochen, (631) 921-6218.

Adult Swimming Classes, 3/4 - 4/22

Adult swimming classes will be offered at \$80 at the BNL pool on Wednesdays, 5:30-6:30 p.m., March 4-April 22, with one lesson per week/adult for eight weeks. American Red Cross certificates will be awarded to qualifying adults. No make-up classes will be offered. The class is open to all employees, Lab visitors and guests, facility users, retirees, and immediate family members who are age 18 or older. To register, mail your contact information and a check, payable to BERA, to the Recreation Office, Bldg. 400, by 2/27. For more information, call Sue Dwyer, Ext. 3496, 10 a.m.-2 p.m. or 4:30 - 8:30 p.m., or the Recreation Office, Ext. 2873.

BERA Trips

- **Brooklyn Botanic Garden Hanami Cherry Blossom Festival:** Sat., 4/4. Dep. BNL 9 a.m., dep. gardens 4:30 p.m. \$15.
- **Intrepid Sea, Air & Space Museum (NYC):** Saturday, May 23. During Memorial Day weekend and Fleet Week in NYC. Dep. BNL 8 a.m., dep. NYC at 4:30 p.m. \$45.

A few tickets are still available for:

- **NY International Auto Show (Javits Center, NYC):** Sat., 4/18. Bus leaves BNL at 9 a.m. and leaves NYC at 4 p.m. \$20.
- **Newport, RI Tour:** Sat.-Sun. 4/25-26. Includes ferry (from/to Port Jeff), harbor cruise, Hampton Inn hotel, hot breakfast, tour of Marble House & the Breakers, free time. Single: \$259; double, \$187; triple, \$163; children 17 and under, \$115. \$100 due at sign up, remainder due by March 24. See also http://www.bnl.gov/bera/linkable_files/Newport-RI-TourBNL2009a.pdf.

All tickets include transportation on a luxury coach. Purchase tickets at the BERA Store in Berkner Hall. All tickets are nonrefundable and limited to four per person for the first two weeks of sale.

CALENDAR

Friday, 2/27

Sam's Club Membership Drive

11 a.m.-2 p.m. Berkner Hall lobby. BJ representatives will offer two cards at \$43.45 for 12 months.

— WEEK OF 3/2 —

Monday, 3/2

BJ's Membership Drive

11 a.m.-2 p.m. Berkner Hall lobby. BJ representatives will describe advantages, offer give-aways, more, for new and renewing members.

Tuesday, 3/3

Buy U.S. Savings Bonds

10 a.m.-1 p.m. Berkner Hall lobby. National Bond & Trust agent Gail Siemer will explain benefits of buying U.S. bonds through payroll deduction, including optional continuation life insurance. More information at gsiemer@nbco.com or 842-4434.

Wednesday, 3/4

Omega World Travel Show

10 a.m.-2 p.m. Berkner Hall lobby. Representatives of Omega World Travel and Cruise.com will provide information on leisure travel, including spring and summer '09 vacation promotions, new "deals" and their lowest prices of the year. For more information, contact Lili-ana Morales, lmorales@owt.net.

*447th Brookhaven Lecture

4 p.m. Berkner Hall. Masahiro Okamura, Collider-Accelerator Department, on "The Next Generation of Heavy Ion Sources." All are invited to this free event, open to the public. Refreshments will be offered before and after the lecture. Visitors to the Lab of 16 and over must carry a photo ID. To join the speaker for dinner after the lecture, contact Sandy Asselta, sandylee@bnl.gov, Ext. 4550. See pg. 1.

Friday, 3/6

Costco Membership Drive

11 a.m.-2 p.m. Berkner Hall lobby. Costco representatives will explain benefits, offer give-aways, more, for new and renewing members.

*Irish Rock Band 'The Prodigals'

8 p.m. B'haven Center. Funky, energetic Celtic songs sung by the Irish rock band The Prodigals. All are welcome. Buy tickets at \$15 in advance at BERA Store or www.ticketweb.com; \$20 at the door. See notice, left.

— WEEK OF 3/9 —

Wednesday, 3/11

BSA Noon Recital

Noon. Berkner Hall. Guitarist Peter Fletcher's program will include Bach's *E-Minor Lute Suite*, Grieg's *Usher-Waltz*, Andrew York's *Sunburst*, music by Weiss and Reusner, and Carlo Domeniconi's *Koyunbaba*.

*Extraterrestrial Intelligence: Facts

4 p.m. Berkner Hall. AAAS Fellow Jill Tarter, SETI Center Director, will talk on "The Search for Extraterrestrial Intelligence: Fact, Not Fiction." All are welcome to this free talk, open to the public. See notice, pg. 3.

BERA Daffodil Sale To Benefit American Cancer Society

BERA is selling daffodils to benefit the American Cancer Society. Make a \$10 donation and BERA will deliver to you 10 fresh-cut daffodils. Proceeds will go to help in the fight against cancer.

Prepay for your order at the BERA Sales Office in Berkner Hall, weekdays between 9 a.m. and 3 p.m. The flowers will be delivered during the week of March 16.

