

2010 BNL Employee Recognition Awards



Roger Stoulenburgh 09660610

Sam Aronson (left) and Mike Bebon (right) with Engineering and Computation Award winners (back from left) Raymond Conley, Thomas Nehring, Nathalie Bouet, Lawrence Hoff, (front from left) Thomas Daniels, Marie Van Buren, and Charles Spataro



Roger Stoulenburgh 09670610

Science and Technology Award winners (front from left) Zhangbu Xu, Michael Ernst, and Genda Gu with Sam Aronson and Mike Bebon



Roger Stoulenburgh 09680610

Sam Aronson (back left) and Mike Bebon (back right) with Brookhaven Award winners (back from left) Kathleen McIntyre, Thomas Schlagel, (front from left) Susan Perino, Andrew Ackerman, and Avril Woodhead

Reinhold Mann Named New ALD For Environment & Life Sciences

Reinhold Mann, former Senior Vice President for Research and Development at Battelle Science and Technology Malaysia, has been named Associate Laboratory Director for Environment & Life Sciences at BNL, effective July 1.



Roger Stoulenburgh 05640610

With 210 employees and an annual budget of \$61 million, BNL's Environment & Life Sciences Directorate encompasses the Medical Department, Biology Department, and Environmental Sciences Department, with research focusing on bioscience and technology, climate science, and computational science. The research in these areas ranges from doing basic studies to understand DNA mechanisms and quantify the extent of climate change, to such applied work as engineering enzymes for the production of biofuels and using tracer technology to detect air pollutants for environmental or national security purposes.

Researchers in the directorate have access to world-class facilities at the Lab, including the Center for Functional Nanomaterials (CFN), the National Synchrotron Light Source (NSLS) and the future NSLS-II. Scientists at the CFN fabricate and study nanomaterials — materials on the scale of a billionth of a meter — with an emphasis on atomic-level tailoring to achieve desired properties and functions. At the NSLS, researchers use infrared light, ultraviolet light, and x-rays to study materials as diverse as computer chips and viruses at the atomic level. Now under construction and due to be completed in 2015, the NSLS-II will produce x-rays 10,000 brighter than those at the NSLS for advanced studies in numerous scientific areas.

"I am honored to have the opportunity to work with the outstanding researchers at Brookhaven Lab," Mann said. "The challenges we're facing as a nation and, indeed, around the world clearly call for radically new approaches that cross traditional science and engineering disciplines, and for taking advantage of new capabilities enabled

by computing and computational science. Brookhaven is an exciting place to do this kind of research and to translate research results into beneficial applications as rapidly as possible."

Mann earned an M.S. in mathematics in 1977 and a Ph.D. in biophysics in 1980, both from Johannes Gutenberg University in Mainz, Germany. After briefly working as a research staff member at the Fraunhofer Institute for Information and Data Processing in Karlsruhe, Germany, he came to the U.S. as a visiting scientist at DOE's Oak Ridge National Laboratory (ORNL) in 1981. He held various scientific and management positions at ORNL, mainly in computer science and advanced engineering, until he became Director of ORNL's Life Sciences Division in 1997.

In 2001, Mann joined DOE's Pacific Northwest National Laboratory (PNNL) as Deputy Lab Director for Science and Technology, and, a year later, became Chief Research Officer and Associate Laboratory Director, Fundamental Science. In 2004, Mann moved back to ORNL as Associate Laboratory Director, Biological and Environmental Sciences, overseeing approximately 450 staff members and \$140 million in research funds.

In 2008, Mann became Senior Vice President for Research and Development at Battelle Science and Technology Malaysia in Kuala Lumpur, Malaysia, where he was a member of a start-up team that developed the concept and plans for a national renewable energy laboratory as a joint venture between Battelle Memorial Institute and Petronas, the Malaysian-owned international oil and gas company. Also from 2007 to 2008, Mann served as Chair of the Board of Directors for DOE's Bioenergy Science Center.

Mann's research has been focused on the intersection of the physical and computational sciences with life and environmental sciences. He has led...

See *ALD Mann* on pg. 2

15 BNLers Recognized With Lab's Highest Accolades

The annual Employee Recognition Award Ceremony, held in Berkner Hall on Friday, June 18, recognized outstanding achievements by 15 BNLers. Awards of \$10,000, given for distinguished contributions in each of three broad areas of work at the Lab, are the highest accolades given by Brookhaven to its employees. This year, Lab Director Sam Aronson presented the Brookhaven Award, given to key contributors in support functions, to Andrew Ackerman,

National Synchrotron Light Source; Kathleen McIntyre, Nonproliferation & National Security; Susan Perino, Facilities & Operations; Thomas Schlagel, Information Technology; and Avril Woodhead, Information Services. Deputy Lab Director for Operations Mike Bebon presented the Engineering and Computation Award to Nathalie Bouet, Raymond Conley, Thomas Nehring, and Charles Spataro, all of the National Synchrotron Light Source II Project; Thomas

Daniels, Modernization Project Office; Lawrence Hoff, Collider Accelerator; and Marie Van Buren, Business Systems. The Science and Technology Award was presented by Aronson to Michael Ernst and Zhangbu Xu, Physics; and Genda Gu, Condensed Matter Physics & Materials Science.

The winners are pictured above. More details of their contributions will be featured in the Bulletin over the coming weeks.

BNL's BLIP and the South Dakota Deep Underground Science Laboratory What's the Connection?

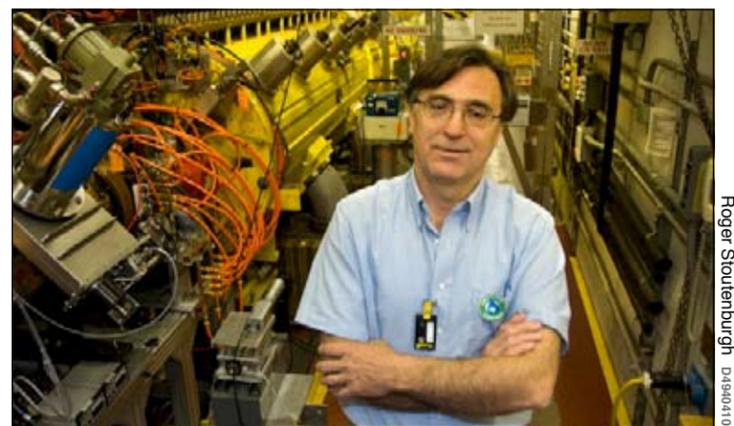
The world's highest-intensity neutrino beam will start in Illinois and head straight through the earth all the way to South Dakota. What does that have to do with the Brookhaven Linac Isotope Producer (BLIP) on Long Island?

Here's the story: The neutrino beam will be produced at Fermi National Accelerator Laboratory (Fermilab) and sent 1,300 kilometers to be measured by detectors for the Long Baseline Neutrino Experiment (LBNE) at the proposed Deep Underground Science and Engineering Laboratory in the former Homestake gold mine in South Dakota, a project funded by the DOE Office of Science. From these measurements, scientists hope to learn more about the three known types of neutrinos and how they oscillate, or change from one type to the other.

BNL scientists have had a central role in the conception, and execution of the LBNE project. The initial discussions for the experiment originated in a BNL-based working group that culminated with ideas for using the discontinued Homestake gold mine as a site for a very large array of detectors coupled to an intense neutrino beam from Fermilab.

Target Experiments at BLIP

To create the extraordinarily high-intensity beam of neutrinos, scientists propose bombarding a durable target with bunches of highly energetic protons. For the past several months, scientists at BNL have



Roger Stoulenburgh 04940610

Nick Simos of BNL's Energy Sciences & Technology Department coordinated the target experiments at the Brookhaven Linac Isotope Producer (BLIP).

been conducting experiments on potential materials for producing neutrinos.

BLIP, primarily used to produce medical isotopes, can recreate the anticipated conditions and consequently the effects that can be expected on the target. By assessing an array of target materials at BLIP, scientists can see which of the materials produce the best neutrino beams and establish their useful operational life. This will help ensure that no unexpected failure of the target will interrupt beam production.

The BLIP facility and the BNL Linac proton beam parameters were the natural choice for this experiment because at their beam energies (100 to 200 million-electron-volts or MeV), the effects on materials are accelerated, compared to the much higher 120 billion-electron-volt (GeV) energy at the LBNE experiment. These "accelerated" effects will enable lifetime assessment of the materials under study.

Teams from BNL and Fermilab have been working together to design and execute the BLIP experiment using the 180-MeV Linac beam, which started on March 18 and ran until the end of May. At BNL, Nick Simos is coordinating the BLIP experiment. Harold Kirk, a co-principal investigator in the project, Hans Ludwig, and Nicholas Souchlas, a postdoctoral fellow on the experiment, have been providing scientific and technical expertise. The BLIP staff, headed by Leonard Mausner, provided technical and operational expertise, especially in guiding the design of the experiment and, in particular, the integration of the LBNE target study with the BLIP medical isotope producing operation. The Fermilab team is headed by Vaia Papadimitriou (LBNE Neutrino Beam Manager) and coordinated by Patrick Hurh. Scientists and engineers include Jim Hylan, Bob Zwaska, Nikolai Mokhov and Joel Misk. See *Neutrinos* on pg. 2

ALD Mann from pg. 1

...multidisciplinary research and development (R&D) teams since 1986 and developed R&D programs in intelligent robotics, human-machine interactions, advanced information processing, computational biology, bioinformatics, systems biology, and bioenergy. He has been recognized with numerous awards during his career, including ORNL's Leader of the Year Award in 1999, and, with Edward Uberbacher and Richard Mural, an R&D 100 Award from *Research and Development Magazine* in 1992 for the GRAIL DNA Pattern Recognition System. — Diane Greenberg

Arrivals & Departures

— Arrivals —

Joseph Citro C-AD
Suzanne Davidson..... DO
Anthony DiMauro..... Maint./Fabr.
Joseph Moskowicz ... Rad. Control
Daejin Eom..... NSLS-II
Charles Rose, Jr. Rad. Control
William Strecker-Kellogg... Physics
Janine Truit HROM
Gregory Zahra..... Medical
Jin Zhou Chemistry

— Departures —

Syed I. Basheer Ahamed.... Biology
Xinguo Hong NSLS
Frederick Wahlert Maint./Fabr.
Rajeshwar Yadav F&O

Neutrinos from pg. 1

For some of the materials considered as targets, primarily graphite, reference data from nuclear reactor operations exist. Thresholds have been observed on materials bombarded by smaller fluxes of protons while the same materials have lasted much longer in reactors. Scientists will observe how the limit changes between materials within the same family. Based on that, the team will select the optimum material with the longest anticipated life under beam. To observe environmental effects, researchers have simulated different conditions under the beam at BLIP, including cooling water, vacuum and argon gas environments.

Simos pointed out that in addition to envisioning the target material experiment and conducting the studies that precede it, the team had to work closely with BLIP scientists to integrate assessing the performance of a half dozen materials into the existing operations at BLIP.

"With the proposed multi-megawatt experiments such as the LBNE, we are pushing materials to their limits and beyond," Simos said. "Recent studies at BLIP have confirmed the shortcomings of several materials. Material irradiation studies such as the one taking place at BLIP, which replicate the conditions anticipated in the actual LBNE experiment, are crucial to identify those materials that have the greatest chance of survivability and longevity in generating neutrinos."

BNL has had a long and illustrious association with the science of neutrinos and the Homestake gold mine, in particular. Homestake was the site of the Nobel prize-winning experiment of Ray Davis who detected neutrinos from the Sun. For LBNE, the main effort at BNL is the design of the very large and capable detectors that will be needed in the Deep Underground Science and Engineering Laboratory. The growing LBNE detector design effort at BNL will be the subject of another article in a future Bulletin. — Kay Cordtz



Joseph Rubino 04/07/0610

Students Summer at Brookhaven Lab More Than 200 Interns Arrive for BNL Summer Programs

School's out for summer — but more than 200 students from universities across the country are doing extra science work as they begin a 10-week summer research program at BNL.

"You will find your experience at Brookhaven to be one that continues to bring value throughout your career," said Ken White, manager of the Lab's Office of Educational Programs (OEP), as he welcomed the incoming undergraduate, graduate, and faculty participants at the opening ceremony in Berkner Hall on June 7.

The students were also welcomed by Lab Director Sam Aronson and DOE Brookhaven Site Office Manager Mike Holland at the opening ceremony. Both noted the important contribution the new generation of scientists will make in tackling national challenges such as energy and homeland security.

Once again, this will be one of OEP's largest groups of summer interns. More than 1,500 applied for the 213 available internships. The interns who were selected will participate

in six different DOE programs: the Community College Institute (CCI), DOE-Academies for Creating Teacher Scientists (DOE-ACTS), Faculty and Student Teams (FaST), Graduate Research Internship Program (GRIP), Pre-Service Teacher program (PST), and Science Undergraduate Laboratory Internship (SULI). In addition, several Dowling College students will participate in the Minority Teacher Development and Training program.

Students participating in this year's summer program include members of several special groups such as Stony Brook University's Women in Science & Engineering and the Center for Accelerator Science & Engineering; the University of Maryland, Baltimore County; and students sponsored by the Semiconductor Research Corporation. Under memorandums of understanding with the City University of New York and Syracuse University, the Lab partnered with the schools to enroll a number of students for the summer OEP programs also.

Between now and August 13, participants will work with their BNL mentors in nearly every area of the Lab's scientific community, including at major facilities such as the Center for Functional Nanomaterials, the National Synchrotron Light Source, and the Relativistic Heavy Ion Collider, and in departments and divisions such as Chemistry, Physics, and Environmental Services, Instrumentation, and Waste Management.

"While most of our summer students have excellent coursework preparation, they lack the experience of working in a laboratory setting such as BNL," said OEP Program Administrator Mel Morris. "This internship experience allows students to make more informed decisions as to their future academic and career choices. We are also fortunate to have staff members who realize the importance of working with young students to help prepare the scientific and technical workforce of the future."

Fellow Program Administrator Noel Blackburn agreed with

Morris about the importance of mentors. "For some of the interns, this is their first experience at a national lab and we provide a great environment to encourage students in the fields of science, technology, engineering, and math," he said. "Last year we conducted a survey of our interns from 2004 to 2008, and it showed that our summer programs had a significant impact on students' academic choices. This is, in part, due to our very dedicated mentors who make this experience a time to remember for these interns."

A second group of nearly 90 summer program participants, including middle and high school students and teachers, is expected to arrive in July. Throughout the summer, the Science Learning Center, also part of OEP, will host elementary and middle school students involved in various camps and programs, including the Lab's summer camp for employees' children.

— Joe Gettler and Sophie Bushwick

DONATE TO THE BNL FOOD DRIVE

It's the summertime and the BNL Food Drive is collecting food for those in need. Donate canned tuna and baked beans, as well as peanut butter and other nonperishable foods, today.

BERA Events, Trips

The Brookhaven Employee Recreation Association (BERA) welcomes all to join in club activities, take trips, etc.

At the BERA Store in Berkner Hall, open weekdays, 9 a.m.-3 p.m., you can buy a ticket (non-refundable) for trips or for concerts to be held at the Lab. The store also sells cards, tee-shirts, items with the BNL logo, and more. For more information, stop by the BERA Store, or go to: <http://www.bnl.gov/bera/recreation/events.asp>.

Some of the events to participate in are listed below:

- Minor League Baseball: The Long Island Ducks. Home games, \$10/ticket. See spreadsheet of home games for the 2010 Season, <http://www.bnl.gov/bera/recreation/events.asp>.
- Tues., 7/6 (Lab Holiday) - Six Flags, MA. \$35/pp. Depart BNL, 7 a.m., dep. Park, 5 p.m.
- Sat., 7/10 - Promises Promises, 2 p.m. Broadway Theatre. \$116/pp. Dep. BNL 9 a.m., dep. NYC after the show.

Federal Energy Workers Compensation Program Ads

Employees may have seen the advertisement at right, sponsored by the Building Trades National Medical Screening Program, in local newspapers.

The ad offers free medical screenings to former Brookhaven employees and contractors, and is linked to a U.S. Department of Labor program under which Brookhaven Lab employees, contractors, and subcontractors who worked at the Lab 250 days or more between 1947 and 1979 are now eligible for compensation for 22 specific types of radiation-related cancers. The class was established for cancer victims employed at BNL before 1980 in order to make up for gaps in certain pre-1980 radiation exposure records as determined by a National Institute for Occupational Safety and Health review.

Health and Human Services Secretary Kathleen Sebelius designated this special class of workers as part of the Energy Employees Occupational Ill-

Did you work at the Department of Energy's Brookhaven National Lab?

If so, you may be eligible for a **FREE MEDICAL SCREENING EXAM** to see if your health has been affected.

Call us for more information.
1-800-866-9663
www.btmed.org

BUILDING TRADES NATIONAL MEDICAL SCREENING PROGRAM

ness Compensation Program (EEOICP). Congress enacted the program in 2000. Compensation and payment of medical expenses is available to employees of DOE contractors and subcontractors who develop a cancer due to exposure to radiation or an illness due to exposure to a toxic substance at certain DOE facilities nationwide, including BNL. A survivor's ben-

efit is also available to certain relatives of deceased workers. EEOICP is administered by the Department of Labor (DOL). Its official web site is <http://www.dol.gov/owcp/energy>. For more information on the program, contact BNL's Joseph Falco, at Ext. 3666, or DOL's New York Resource Center at (716) 832-6200, (800) 941-3943, or newyork.center@rohio.com.

Small Business Workshop At Stony Brook, 7/14

The Stony Brook Small Business Development Center announces the next in its free workshop series, "The Direction of Renewable Energy." BNL is a sponsor of this series. The next workshop, "Small Business Innovative Research & New York State Energy Research & Development Authority Grants," will be held on Wednesday, July 14, 8:45 a.m.- noon, at the Small Business Development Center Training Center, Bldg. 17. For advance registration and directions, call (631) 632-9837.

- Sat., 7/17 - Brooklyn Bridge Walking Tour, \$30/pp. Dep. BNL 7:30 a.m., leave NYC at 3 p.m.
- Sun. 7/25 - Addams Family. 3 p.m. Broadway. \$107/pp. Dep. BNL 10:30 a.m.
- Sat. 7/31 - Bus to Bryant Park for free day in NYC. \$15/pp. Dep. BNL 10 a.m.; dep. NYC, 6 p.m.



From left: Beverly Agtuca, James Penna, Wendy Vasquez, Cortney Crespo, Krystle Kalouris, and David Rodriguez.

BERA Hispanic Heritage Club Awards Scholarships To Six College-Bound Seniors

Before heading off to college this fall, six high school seniors gathered with their families and several BNLees for a luncheon at Brookhaven Lab on Friday, June 4, where they each received a \$600 scholarship from the Lab's Hispanic Heritage Club.

This year, the club recognized Beverly Agtuca of Sachem High School, Cortney Crespo of Longwood High School, Krystle Kalouris of Patchogue-Medford High School, James Penna and David Rodriguez of William Floyd High School, and Wendy Vasquez of Longwood High School.

These annual scholarships are supported with funds from Brookhaven Science Associates and the proceeds from ticket sales at Hispanic Heritage Club events throughout the year. Since the scholarships were first given in 2007, the club has awarded a total of 18 high school seniors. Students from several high schools in central Suffolk County can apply for these scholarships and award-

ees are selected based on academic records, recommendations, essays, and standardized test scores.

"This scholarship came in handy for me, and it also helped me with a career path," said Kenneth Baumann, who received a Hispanic Heritage Club scholarship in 2007. He attends SUNY Binghamton and is now completing scientific research as a student intern in BNL's Biology Department.

"The monetary part helps for the short term, but it's the connections to the BNL community that help even more for the long term," added Jessica Cruz, a 2008 awardee and a student at Marist College. She is currently interning in the Lab's Human Resources Office.

As these six high school seniors prepare to head off to college this fall, the Hispanic Heritage Club and the entire BNL community congratulate them and hope that these scholarships help, both short and long term too. — Joe Gettler

Scharff-Goldhaber Prize Ceremony, 7/21

The BNL community is invited to attend the 2010 Gertrude Scharff-Goldhaber Prize ceremony on Wednesday, July 21, at 3 p.m. in the Physics Large Seminar Room, Bldg. 510. Established to recognize substantial promise and accomplishment by a woman graduate student in physics, the annual \$1,000 award is administered by Brookhaven Women in Science (BWIS). The prize honors the outstanding contributions of the late nuclear physicist Gertrude Scharff-Goldhaber, who, in 1950, became the first woman Ph.D. physicist appointed to the BNL staff. Later, she became a founding member of BWIS.

This year's prize will be awarded to Johanna Nelson, a graduate student at Stony Brook University. Nelson will present a short seminar on her research, titled "Coherent X-ray Diffraction Microscopy on Whole Eukaryotic Cells." Refreshments will follow the presentation.

For more information, contact Linda Bowerman, Ext. 4265.

Standard Freshman Composition: SCCC Course to Be Offered on Site This Fall

On the BNL site for the fall 2010 semester, Suffolk County Community College (SCCC) will offer Standard Freshman Composition, a core course for most SCCC degrees.

ENG101 – Standard Freshman Composition

Explores principles of rhetoric and stresses effective expository writing. Primarily a course in organization of ideas and development of these ideas through use of specific information. Also deals with matters of style, sentence structure, paragraph development, punctuation and vocabulary. 3 credit hours.

Employees who take college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at 75 percent for undergraduate courses. For more information, contact Starr Munson, munson@bnl.gov or Ext. 7631.

One-on-One Retirement Counseling With A TIAA-CREF Representative

A TIAA-CREF consultant will visit BNL on Wednesday, July 7, Wednesday, July 21, and Thursday, July 29, to answer employees' questions about financial matters. The consultant will help you: find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare lifetime income vs. cash withdrawal options. For an appointment, call 1-800-732-8353 or go online at www.tiaa-cref.org/bnl and select "set up a meeting."



At the Westhampton military base are: (from left) Master Sergeant Cathy Sweeney; Valerie Cramer and Melissa Blom of the Guide Dog Foundation with VetDogs Apollo and Timmy; and BNL's Don MacKay.

The VetDogs Take Flight

Apollo and Timmy, two VetDogs from the Smithtown Guide Dog Foundation that recently visited the Lab as part of their training (see Bulletin, May 28, 2010), recently took flight in a military plane at the 106th Air Rescue Wing, Air National Guard base in Westhampton to fully earn their rank as VetDogs. These special canines will travel via military aircraft to military hospitals around the world where they will be on

hand to offer support to soldiers dealing with physical and emotional stress. Getting the dogs comfortable with traveling via aircraft is an important part of their training. The visit to the Westhampton base was coordinated by Master Sergeant Cathy Sweeney of the 106th Rescue Wing and BNL Security Police Officer Don MacKay, who is an active member of the Air National Guard.

— Jane Koropsak

Meet Joe Gettler... See His Photo Exhibit

Often in the Bulletin, you can read an article written by Joe Gettler, who works in the Lab's Media and Communications Office. This article, however, is written about Joe Gettler and his upcoming photography show, "The East End: By Night and Day's Light," which opens this weekend.

Throughout July, a free exhibit of Gettler's photographs will be on display at Hampton Bays Public Library. Many of the works to be shown are long exposures made at night on Long Island's East End, including Shinnecock Inlet, the windmill at Watermill, and the Montauk Lighthouse.

"At night, a camera records things very differently from the way we see them," Gettler explained. "You see everything that happened during the exposure, everything touched by light, all at once. It's like seeing all the pages of a flip book at the same time."

Cameras make images by controlling light that hits an electronic sensor or a piece of film. On a sunny day, less than a thousandth-of-a-second of light can make for a fine picture. At night, when much less light is available, making a good exposure can take 30 seconds or even several hours. Gettler's photographs are made mostly in the 30-seconds to one minute time frame, leaving enough time for the camera to record sets of waves rolling in at the ocean, or entire trains passing by, in the same exposure.

Gettler's interest in photography sparked while he was taking a course in college, and he picked up experience



Roger Stoulenburgh and 10661610

volunteering as a photographer for Habitat for Humanity. He began regularly photographing Long Island's East End, both at night and during the day, in 2008. His photos have been published in *Newsday*, the *Philadelphia Inquirer*, and the *Press of Manorville & the Moriches*. He is also the president of the BERA Camera Club, which all BNLees who are interested in photography are encouraged to join (contact jgettler@bnl.gov for more information).

Hampton Bays Public Library will present approximately 20 of Gettler's photos through July. The opening reception is free and will be held on Saturday, July 3, at 2 p.m.

The show is supported in part with funds from the Strategic Opportunity Stipend (SOS) Program through the New York Foundation for the Arts, administered on Long Island by the East End Arts Council.

Learn more about the upcoming show from Gettler's website: www.joegettler.com.

— Liz Seubert

BNL Camera Club Meeting, 7/12

The Camera Club will meet on Monday, July 12, in the Bldg. 400 Conference Room 2 at noon. During the meeting, Mark Parsons will give a presentation on the Nik suite of Photoshop plug-ins, showing how to tweak photos and save time too. Members should submit one of their most recent photos by Monday, July 7.

Any BNLees who are interested in photography are encouraged to attend. E-mail jgettler@bnl.gov for more information.

CALENDAR

— THIS WEEKEND —

Sunday, 7/4

Independence Day, National Holiday

— WEEK OF 7/5 —

Monday, 7/5

Independence Day Observed
Lab closed. Enjoy the day!

Tuesday, 7/6

Floating Holiday
Lab closed. There will be no Bulletin this week.

— WEEK OF 7/19 —

Tuesday, 7/20

Sambamurti Lecture
3:30 p.m. Large Seminar Room, Physics, Bldg. 510. Geraldyn "Sam" Zeller of Fermi National Accelerator Laboratory will talk on "Expecting the Unexpected: Neutrino Physics at Mini-BooNE." All are welcome to this free talk. Refreshments will be offered from 3 p.m.

Wednesday, 7/21

***Scharff-Goldhaber Prize Ceremony**
3 p.m. Physics Large Seminar Room, Bldg. 510. Johanna Nelson, Stony Brook University, will present a short seminar on her research on the occasion of her being awarded the 2010 Gertrude Scharff-Goldhaber Prize, which is administered by Brookhaven Women In Science. All are welcome. See notice at left.

459th Brookhaven Lecture

4 p.m. Berkner Hall. James Alessi of the Collider-Accelerator Department will discuss "Sources, Preinjectors, and the Road to EBIS." All are welcome to this free talk, open to the public. Visitors to the Lab of 16 and older must carry a photo ID. Refreshments will be offered before and after the talk.

— WEEK OF 7/26 —

Monday, 7/26

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

Wednesday, 7/28

BSA Noon Recital: 'Pianofest'

Noon. Berkner Hall. Outstanding pianists in the "Pianofest" workshop held annually in the Hamptons will perform. Sponsored by BSA, this free concert is open to the public. Visitors to the Lab 16 and older must carry photo ID.



BERA Summer Camp Update

BERA Summer Camp begins next week on July 7. There will be no access to the men's locker room and the gymnasium from 3-5 p.m. each day while camp is in session until August 27.

As always, please drive safely — particularly near the Rec Hall, gym, and pool — while the children and summer students are here.

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/>

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

SPECIAL SERVICES ATTENDANT (LG-5) - Performs various service duties in connection with conferences, meetings and special events. Directs and coordinates work of other employees as assigned. Works as Laboratory Custodian when not on special service assignment. Staff Services Division Please submit a transfer request form to Diana Hubert in Human Resources, Bldg. 400B referring to Job ID # 15408.

Motor Vehicles & Supplies

10 HYUNDAI ELANTRA - 69.6K mi. blk, 4 dr, p/l, p/w, CD, alarm, org owner, excel cond, well maintd. \$4,900 neg. 786-9143.

02 DUTCHMAN TRAILER - 28', white, 4600 lbs, slps 6, stove, refrig, shwr, toilet, heat, a/c, tv/dvd, \$7,999 neg. Mike, Ext. 2947.

02 TOYOTA HIGHLANDER LTED - 82K mi. orig owner. New eng. by dealer at 80,000 mi. Grt cond. \$11,900 neg. 516-994-6775.

02 HONDA ACCORD - 64.32K mi. black, 4cyl, 4dr, a/c, c/c, a/t, anti thft, cd, m/roof, 2 new tires, gd cond. \$6,200 neg. 627-9725.

01 CHEVY BLAZER LS 4WD - 103K mi. 5spd man'l, 6cyl, 2dr, a/c, c/c, cd, m/rf, c/c, p/s, p/l. \$3,500 neg. Gregory, Ext. 7810.

00 CHEVY 2500 - cargo van, 197K mi. runs well, mint, new brakes, set up for constr w/ slide-out drawer. \$2,900 neg. 926-4505.

00 HYUNDAI ELANTRA GLS - 147K mi. Gd cond; Grt mileage. \$1,500 neg. 344-2770.

99 BUICK CENTURY - 123K mi. red, 6cyl, 4dr, a/c, c/c, a/t, anti thft, cd, p/l, p/s, p/w, gd cond. \$3,500 neg. Chuyu, Ext. 4431.

98 NEWMAR KOUNTRY AIRE - Motorhome, diesel, 40', fully equipped, 1 slide out, call for pricing. Bob, 289-1834.

89 DODGE RACK TRUCK - 98K mi. wh. cab, freshly ground & painted racks, new plywd deck, 8cyl, runs well, \$1,200 neg. 926-4505.

4 TIRES - 205 65 15 all season radials excel cond, \$100. Ext. 5265, sonny@bnl.gov.

Boats & Marine Supplies

28' RINKER FIESTA V 260 - '92 prof. maint, low hrs, new top/prop. In water @ Mt. Sinai. w/trailer. \$9,400 neg. Ext. 4320.

23' ODAY C/B - 1974 convrtbl, CB draws 2' up/5' down, 9.9hp Evinrude, 2Mnsails, wrkg Jib, PFDs, mch more. \$3,500 neg. 472-6244.

OUTBOARDS & INFLATABLE - Evinrude Obrd 8 HP, 12 yrs. old; Johnson otrbd, 3.5 HP, '06, med sz. \$250 each. 286-3675.

Audio, Video & Computers

24" RCA TV - w/36"x24"x60"/solid oak cabinet; excel cond, make offer. 928-6930.

NEW IPOD TOUCH 8GB 2ND GEN - opened to ensure it functions, ask/\$150, incl 1yr Apple warr. ahrenstein@bnl.gov.

TV - 36" SONY KV36FS200 w/rem, s-video, stereo output, analogue in/out, 2-stereo/spkrs, cable rdy, more. \$150/obo. 399-5189.

Car Pool

PLAINVIEW - established 3-Person car pool meeting in Plainview looking for 4th person, 8-4:30. Ron, Ext. 6068.

Farewell Gathering

KENNY SUTTER - Please join us in wishing Kenny a wonderful retirement! Friday, July 16, 5pm, @ The BNL Gazebo \$20pp incl food and gift. BYOB RSVP by July 2nd. Lauri, Ext. 7090 or lperagine@bnl.gov.

Free

POOL - 18' round, incl filter and some pool tools, needs new liner. You disman- tle, haul it out. Joann, 413-5012.

Furnishings & Appliances

(2) COLOR TV'S - 19" Magnovox; 20" Philips, gd wkg cond, no remotes, \$20/ea. schlock@bnl.gov.

CEILING FAN - new in box, 42", hugger type, \$25. Ext. 5864 or sfoster@bnl.gov.

CHILD/TEEN BUNK+DESK BED - all wood, desk pull out bed lists/\$1659, ask/\$300, 379-0724 or nrje4019@msn.com.

DESK CHAIR - black leather on rollers, w/ arms, \$25; 2-drawer vertical file cab, black metal, \$10, both gd cond. Ext. 7114.

DINING ROOM SET - table w/leaf, pads, 6 chrs & lighted hutch w/storage, mmail for pics, \$500. Cindi, biancarosa@bnl.gov.

ELECTRIC STOVE - excel cond \$250, white/self-cleaning, proceeds go to charity. Pics avail. Nina, Ext. 5894, 475-1297.

GLIDER ROCKER - maple chair, \$215, gd for relaxation lcade@uspports.com. Laurie, 447-0419. 516-740-8418.

KENMORE MICROWAVE - above range, off-white, w/mounting hardware & manuals, \$50. Ext. 7593 or sawch@bnl.gov.

KITCHEN SET - cute, glass table top, iron frame w/4 matching chairs, like new, \$200. Maria, Ext. 4961, 275-2970.

LIFT CHAIR - Pride, 2 positions, burgundy, great cond/\$100. 821-1271.

DRESSER & SEP. MIRROR - solid cherry, Davis Cabinet Co. classic antique, 7 English dovetail drawers, price neg. Sue, Ext. 4931.

Sports, Hobbies & Pets

FERRET CAGE - Collapsible one story high, orig/\$70, ask/\$50. Linda, 399-1125.

TRAMPOLINE PAD - ONLY for a 15' trampoline, new in box, blue, ask/\$100. Ext. 4736.

WEIGH & BENCH SET - Body B Vision Olympic, like new/\$250/all. 235-7068.

WETSUIT - youth sz 12, excl cond, pd/\$110, ask/50. Lynda, Ext. 7235, 949-4292.

Tools, House & Garden

FRESHLIFE AUTOMATIC SPROUTER - model #2000. see: <http://tiny.cc/isdz1>, new in box, ask/\$75. Melanie, Ext. 3906.

HAND PIPE THREADER - Ridgid 1/2"-2"/\$50; Tripod pipe vise \$25, bench pipe vise/\$10; 14 castiron 'C' clmps 1"-8"/\$25; Hydric RTV/Mtrcyl flr jack/\$50. 872-8963.

PERENNIALS - Hosta, hydrangea, iris, lily, liatris, vinca, \$4/ea. Beth, 905-8222.

SINK - white iron porcelain, built-in drain-board & backsplash, overall 42.5"L, 25.5"D; sink 7"D, 4 holes, b/o. Kathleen, Ext. 7114.

WEEDWACKER - Craftsman, gas, 32cc, 1.9 cu in, excel cond, make offer. 928-6930.

Happenings

CRUISE - 7-Day Caribbean Cruise, Apr 10/2011 to Cayman Islands, Cozumel, Isla Roatan & Belize w/2 fun days at sea. \$789.72pp dbl occup balcony. Dep req'd. Call for details. Kim, Ext. 7465, 399-3098.

REACTOR DIVISION REUNION - Aug. 27, 5:30 PM, Brookhaven Center, contact Bob Wayne, 631-286-2484, or Dan Oldham, 631-281-5439 to RSVP. rwayne@aol.com.

Miscellaneous

STAIRMASTER - 4K-Pt/barely used, pd/\$2K; 9'x10'oriental rug w/pad;excel cond, make offer(s). 928-6930.

ADJUSTABLE TRAILER MIRRORS - 1 set of fender mount for towing boats or trailers. Pic avail, \$40/obo. schlock@bnl.gov.

BABY STUFF - changing table/\$20, white wood, 2/shelves; lg playpen navy, \$40, pics avail, proceeds to charity. Nina, 475-1297.

BABY/PET GATE - Evenflo brand, 30"-50", hardly used, \$10; assorted frames for paintings, make offer. Kathleen, Ext. 7114.

BOX OF NAILS - 3" 10D 9GA, \$35. Ext. 5864.

CLOTHES RACK - in Chrome w/beige cloth cover/\$22, pics, Nina, Ext. 5894.

CLOTHING - for girls 0-7 yrs, gd cond, & petite adult wool skirts. some dsignr lbls; \$2+/item, call to view/Medford. 475-1297.

TICKETS - Natalie Merchant, Town Hall-NYC, Fri 7/18, 8pm, 6/tkts, will sell sep, Balc Row "B", Face value \$52.50. pizzulli@bnl.gov.

TICKETS - Dave Matthews Band, Saturday, 7/17 at Citi Field, sect 502, 2/tickets at \$100/ea. Ext. 2838, donoghue@bnl.gov.

Wanted

CAR TOP CARRIER - any make or model, black preferred. Charlie, Ext. 4736.

DONATIONS OF DOG/CAT FOOD - For pets of struggling families/elderly. Collection bins are in Bldgs. 134, 400, 510 (X5864), 725, 901, 902. Donations to be given to local food pantries. Kathleen, Ext. 3161 or kratto@bnl.gov.

NEW/GENTLY USED CLOTHES - All sizes, also children's toys, books to be donated to 76 families living in a local shelter. Laura x4027, lbuscemi@bnl.gov. Kathleen, Ext. 3161 or kratto@bnl.gov.

OUTBOARD ENGINE 2.5 TO 6 HP - sm, for dingy pref. 4hp shortshaft. 487-5717.

USED DECKING (WOOD) - looking for used Cedar or pressure treated decking to recycle for yard project. Patrick, Ext. 4092.

Yard & Garage Sales

PORT JEFF STATION - Moving Yard Sale, July 2 & 3. 10a-4p, if weather okay. 192 Hall St. 413-5012 or gtlrady1@aol.com.

WADING RIVER - COMMUNITY YARD SALE - 7/17. Pick up maps of participating homes at corner of 16th St. & Hulse Ave. Many different items. Lois, 929-4753.

For Rent

KISSIMMEE, FL - T/share: 15 mins to Disney World, www.calypsocay.com for pics. 1-bdrm unit, \$500/wk, slps 4; 2-bdrm unit/slps 8. \$1,000/wk. 475-1297.

FARMINGVILLE - lg furn bdrm, incl a/c, share bath, l/r, d/r, kit incl, cable/phone/wifi/elec. \$645/mo. Ben, 513-8275 or benonium@gmail.com.

MASTIC - 1 bdrm apt, l/r, eik, priv ent/prkg, util incl cable, no pets, 813-9454. \$850/mo. Ernest, 772-8251.

MASTIC - 1 bdrm, eik, full bath, den, own ent/drwy, all incl, 10 min to Lab, no smkg/pets, 1 mo sec. \$850/mo. joe mondi, Ext. 3499, 219-7241.

MILLER PLACE - share lg furn Col. home in prof resid. area, 8 mi to BNL, eik cac, int/ tv, fen bckyd dck/grill, own bdrm, all incl, 2 bdms, resp. non-smkr. \$675/mo. 744-8386.

2010 Summer Sundays



Joseph Rubino D2303108

Visit BNL on Summer Sundays, July 11 - August 8

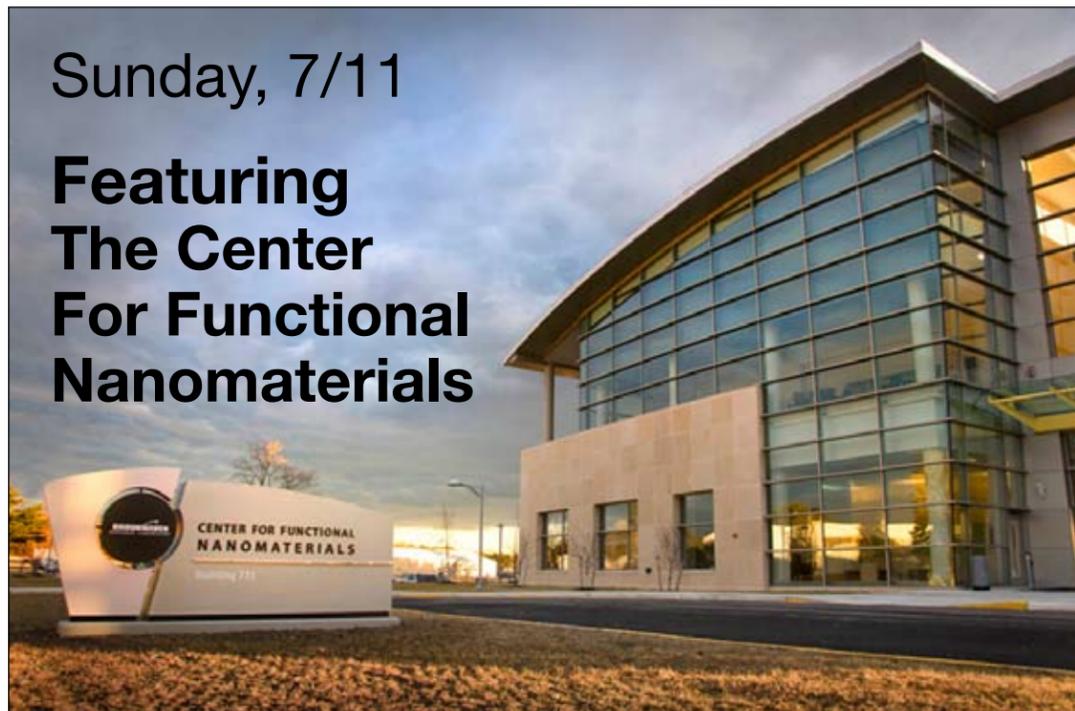
Exciting science shows, tours of world-class science facilities, and entertaining activities for children and adults are all part of the free fun and learning opportunities offered to employees and the public by BNL during Summer Sundays, July 11 to August 8.

No reservations are needed to take part in Summer Sundays at the Lab, but visitors age 16 and over must bring a photo ID. Visitors may arrive any time between 10 a.m. and 3 p.m. A different tour and exciting new science show will be featured each week. Arrive early to avoid crowds

and to take advantage of the full program.

The last facility visit takes place at 3 p.m. each week, and science shows will be held at noon, 1:30 p.m. and 3 p.m. each Sunday in Berkner Hall. A new hands-on exhibit, "Creating Our Future, Sustainability by Design," will be available every Sunday in the Berkner Hall lobby. The cafeteria and gift shop, both in Berkner Hall, will be open from 10 a.m. to 3 p.m. For information, call 631 344-2651, check www.bnl.gov, or search Facebook for Summer Sundays.

The full Summer Sundays schedule follows:



Joseph Rubino D1830208

Sunday, 7/11

Featuring The Center For Functional Nanomaterials

July 11 — Fueling the Future & Exploring the Ultra Small

On Sunday, July 11, all are invited to visit the Center for Functional Nanomaterials, where Brookhaven researchers probe structures as small as a billionth of a meter. Follow scientists' path of discovery to innovative energy technologies. Be mesmerized by "The Magic of Chemistry." This tour is appropriate for adults and children age 10 and over.

Watch the Bulletin for more details of the following featured visits at BNL:

July 18 — Bright Light, Dazzling Discoveries at the National Synchrotron Light Source

July 25 — Family Fun Day at the Science Learning Center

August 1 — Storm Trackers at the National Weather Service

August 8 — The Relativistic Heavy Ion Collider: Atom-Smasher Extraordinaire

ROCKY POINT - 2 bdrm. house, new appl., washer/dryer, freshly painted, quiet dead end st, nice yard, full bsmt/attic, util extra. \$1,400/mo. hoffman1@bnl.gov.

SELDEN - 3 rm bsmt apt, high ceilings, pergo flrs, priv ent, prkg/2-zone, htg- v/ bright, util/cable, no smkg/pets. \$1,150/mo. 846-1352.

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. \$775/mo neg. 747-3495.

SHOREHAM - 1 bdrm garden apt, 1st flr, indep. ent/drwy, full bath, kit, l/r, cac, no smkg/pets, few mi to BNL, 1 mo sec, elect not incl. \$1,150/mo. 566-8261.

For Sale

CENTER MORICHES - Victor. hse, 5 BR, 3.5 ba, Jacuz., lg. kit. w/bkfst. nook; fam rm. w/ fp; hwd/ceram. flrs; fin. bsmt; 2-car gar., dsignr gardn; 0.83 ac. \$577,500. 766-7189.

RIDGE - 3bdrm ranch, 2bath, eik, lr, den, full bsmt, 1 car gar, deck, .8 acre, 5 min from BNL. \$265,000 neg. Ext. 4309, 924-0818 or lafler@bnl.gov.

S. PATCHOGUE - v/lg 3 bdrm ranch, 1 block to Bay, cac, eik, newly renov, l/r, formal d/r, den, full bsmt on .5 acre. \$330,000 neg. Jim, Ext. 4705, 929-4978.

Ads that are entered among the Bulletin classified ads on the intranet homepage by Tuesday generally appear in the printed Bulletin of that Friday.

In Appreciation

To all my BNL Friends- it has been wonderful working with you these past 32 years. Stay safe, and keep those Nobel Prizes coming. Consider me the luckiest guy in the world. Best wishes in all your future endeavors. - Gerry Van Derlaske

On-Site Services

CAFETERIA - Fresh-made sushi daily. BUDGET RENT-A-CAR - Desk in Bldg. 400 lobby. Rent for a half-day or longer.