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New Tools for BNL's New Light Source

BNL is constructing the world's most brilliant light source, the National Synchrotron Light Source II (NSLS-II). In a recent decision, DOE has approved a new project to begin conceptual design of NSLS-II experimental tools, named NEXT.

The research potential of NSLS-II will only be realized when it is equipped with scientific instruments known as beamlines. Specialized magnets called insertion devices will create the light used by the most advanced of these beamlines. The NSLS-II construction project is already building six beamlines with insertion devices. NEXT would support the creation of another five or six insertion device beamlines. NSLS-II will be capable of supporting some 58 beamlines in total. Additional beamlines for NSLS-II would be funded by various other sources over time.

An insertion device beamline can range in cost from \$10-15 million, depending on its design and components. Those requirements are determined by the particular experimental studies being done.

"Much of the research at NSLS-II will focus on developing the next generation of sustainable energy technologies," said Steve Dierker, NSLS-II

Project Director and Associate Laboratory Director for Light Sources at Brookhaven Lab. According to Dierker, these new technologies will be based on novel materials that have yet to be designed and fabricated. The NEXT project would provide beamlines with the advanced capabilities needed for studying the properties and functions of complex materials.

"Most of today's technologies are built using bulk materials whose properties are not sufficient to enable next generation technologies," added Dierker. "Although we understand quite a lot about the properties of bulk materials, we have not yet succeeded at improving their properties by the amount needed for the new applications. The challenge is to work dramatically below the bulk state, in the range of single atoms to tens of atoms. The NEXT project can give NSLS-II the advanced tools to do that."

NSLS-II construction began in 2009, creating jobs and stimulating the economy. The facility is expected to start operating in 2015. It is funded by the DOE Office of Science, which is also supporting the NEXT project. Visit <http://www.bnl.gov/nsls2/> for more info about the NSLS-II project. — Kendra Snyder



One particular research focus at BNL's future Interdisciplinary Science Building will be developing effective uses of renewable energy through improved conversion, transmission, and storage, with applications in the smart grid, batteries, and photovoltaics.

Construction Contract Awarded for BNL's New Energy Research Facility

Interdisciplinary Science Building project brings 300 jobs to Long Island

BNL has awarded a contract to a general contractor to construct a new \$66.8 million Interdisciplinary Science Building (ISB), a state-of-the-art facility funded by the DOE Office of Science that will bring together scientists focused on the nation's most pressing challenge of the 21st century — energy. E.W. Howell, based in Plainview, NY, has been chosen to build the 87,000 gross-square-foot, 2-story building.

The company estimates that the project will provide jobs for 290-320 Long Islanders. Additionally, it estimates that about 90 percent of the \$46 million construction cost will be spent directly with Long Island contractors and suppliers.

Site preparation is substantially complete, ahead of the building construction contract, thanks to \$18.6 million in American Recovery and Reinvestment Act funding dedicated to accelerating the construction phase of the project. Groundbreaking

is expected in August 2010, with construction set to begin in September 2010.

"The award of this contract marks a significant milestone in our effort to consolidate our considerable expertise in energy-related research with the goal of finding sustainable solutions for meeting our nation's growing energy needs," said Doon Gibbs, BNL's Deputy Director for Science and Technology. The new facility will group existing energy scientists into one facility with collaborative environments to facilitate and realize the benefits of multidisciplinary collaboration.

"By bringing together a broad spectrum of energy-related researchers in a single location, the ISB will foster energy research that spans discovery through deployment. It will also serve as a portal for collaboration with industry, universities, and other national laboratories," Gibbs said.

"This is outstanding news for Brookhaven National Laboratory

and the Long Island economy," said Senator Charles Schumer in a supporting statement. "This new facility will burnish Brookhaven's national reputation as a leading scientific research institution, while enhancing its role as a vital part of New York's economy. Brookhaven is a primary economic engine on Long Island and this will give it more horsepower to drive us through these difficult times."

"This project will immediately put hundreds of Long Islanders to work and enable cutting-edge research to solve our nation's energy needs," commented Congressman Tim Bishop. "This is further proof that what's good for Brookhaven National Lab is good for Long Island and good for our country."

A particular research focus at the ISB will be developing effective uses of renewable energy through improved conversion, transmission, and storage, with...

See ISB Construction on pg. 2

Going...Going...Almost Gone!

BGRR duct service building is demolished, but there is still work to be done

Under the direction of Wayne Farquharson, a contractor working for the Lab's Environmental Restoration Division, the full demolition of building TR897, the duct service building for the Brookhaven Graphite Research Reactor (BGRR), was recently completed. Where the building once stood there is now a large concrete slab, marking another step in the demolition of the historic facility used to perform scientific research on peaceful uses of the atom. The Lab recently completed the removal of the reactor's graphite core, which consisted of more than 60,000 individual blocks of graphite.

An estimated 25,000 irradiations were performed over the reactor's lifetime on specimens ranging from seeds to art treasures. Researchers studied engine piston rings in the reactor to determine wear and other characteristics, leading to the development of

multi-grade motor oils such as 10W-30, now commonly used in automobiles. The decommissioning of the BGRR has been accelerated by funding from the American Recovery and Reinvestment Act, and has created about 175 jobs for outside contractors.

The demolition project was completed without incident by the environmental management support group in cooperation with facility and operations staff, including heavy equipment and machine operators (HEMOs), riggers, and other crafts used for the utility isolations, according to Tom Lambertson, manager, Site Services Division (SI).

"This is an excellent example of how multiple divisions can work together to support a common goal that is in alignment with the Lab's Blueprint project," said Lambertson. "Lab employees and contractors exchanging ideas on work



Roger Stoutenburgh D3600610

Many members of the demolition crew at the construction site in front of the substructure of the BGRR fan-house are: (from left), Michael Daddi, BNL's Site Services Division (SI); John Marsicano, Environmental Restoration Contractor (ERC); John Gottlieb, SI; Nick Capazzola, SI; Arthur Coleman, SI; Thomas Gable, SI; Bob Beasley, ERC; Mark Mountain, ERC; Jack Ewen, ERC; Wayne Farquharson, ERC; Brian McCaffrey, ERC; Daniel Dove, Radiological Controls Contractor; Ray Rivera, ERC; and Kent Heckman, ERC.

planning and giving feedback to management on how to make projects like this safe and efficient are a perfect example of teamwork."

"But the teamwork doesn't end there," said John Gottlieb, multi-shop supervisor in SI.

"About one third of the employees in the HEMO shop are assigned to the project on the 'BGRR hill' for the next few months while the remaining HEMO shop employees are working diligently to support other projects on site," he said.

If you ask Kent Heckman, a contractor and supervisor on this demolition project, how he thinks the work is progressing, he would tell you, "This is an incredible team. The removal of this two-story building was..."

See Almost Gone on pg. 2

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.
- Most events below are organized through the Quality of Life/BERA/Recreation Office, Bldg. 400, <http://www.bnl.gov/bera/>

— 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 N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues.: Hospitality Welcome Coffee
Will resume in September.

Tuesdays: Zumba
Will resume in September.

Tuesdays: Knitting Class
2–4 p.m. Berkner Hall lobby until Sept. All levels of skill. Free. Call Ext. 5090 to confirm.

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. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Tuesday & Thursday: Aqua Aerobics
5:30–6:30 p.m., Pool. Will resume in September. Ext. 2873.

Wednesdays: On-Site Play Group
10 a.m.–noon. Apartment area playground for summer. 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. 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.

Fridays: Family Swim Night
5–8 p.m. BNL Pool. \$5 per family. Ext. 2873.

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

Update ‘09’ Vehicle Registrations

All who have a blue vehicle registration sticker beginning with the numbers “09” must have it updated. To update “09” stickers, bring your BNL identification badge, driver’s license, and vehicle registration to the Badge Office, Bldg. 400, Mon.-Thurs., 8:30 a.m.-4 p.m., Fri. 8:30 a.m.-1p.m.

SCCC Course: Standard Freshman Composition

For the fall 2010 semester, Suffolk County Community College (SCCC) will offer on BNL site “Standard Freshman Composition,” a core course for most SCCC degrees. A description of the course follows:

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.

Celebrating the Open Space Stewardship Program’s Fourth Anniversary

About 300 students, parents, teachers, land stewards, and administrators celebrated the fourth anniversary of the Open Space Stewardship Program (OSSP) at BNL on June 3. The program is a school-community-government partnership in which students in grades K through 12 perform hands-on environmental research on property within their school district.

The program started with eight participating school districts in 2006 and has grown to encompass about 2,000 students from 30 Long Island school districts. OSSP fosters respect for open spaces and helps students to learn about

the scientific process through working with real-life data in the field. Also, the program fosters an interest in science and technology that may inspire students to pursue careers in those fields.

At the ceremony, some students gave oral presentations on their projects, while others displayed posters on their research. Projects ranged from identifying invasive species in the Long Island Pine Barrens to testing the Wading River Duck Pond and other local sites for the growth of algae.

Research results are posted on a website maintained by Brookhaven Lab. Land stewards, working with teachers



Roger Stoutenburgh 1510610

Some of the students who gave oral presentations about their Open Space Stewardship Program research included Albert G. Prodel Middle School students: (from left) Emily Weber, Kelly Wynkoop, Madison Hubner, Greg Schotte, Torny Cairo, and Alyssa Filanberi.

and students, have access to the data to help them better preserve and protect their property. The Laboratory prepares teachers for program by host-

ing workshops in the summer.

For additional information, please contact Mel Morris at mmorris@bnl.gov.

— Diane Greenberg

ISB Construction from pg. 1

...applications in the smart grid, batteries, and photovoltaics. As materials are the linchpin to energy technologies, the ISB will consolidate Brookhaven’s efforts in the synthesis and detailed characterization of bulk, thin-film, and nanomaterials and in device fabrication.

These efforts will be supported by an outstanding set of complementary tools at the Lab’s Center for Functional Nanomaterials (CFN), the National Synchrotron Light Source (NSLS), the New York Blue supercomputer, and at the future NSLS-II. There will also be important collaborations with Stony Brook University’s Advanced Energy Center and other assets within New York State.

For more detailed information, go to http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=1154.

— Peter Genzer

Almost Gone from pg. 1

...done in just 15 hours with zero injuries. We are all very proud of that.”

The crew worked on a Saturday to demolish the building and returned on Sunday to do some excavating and clean-up work.

Also under way is the demolition of the BGRR fanhouse. The demolition and decommissioning of the BGRR, including the removal of the iconic red and white stack, will continue for the next few months.

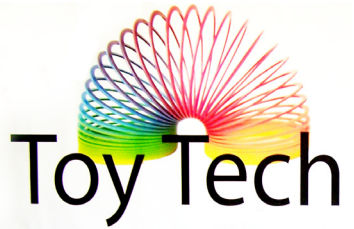
To further ensure a safe working environment, the crew spray painted some of the removed rebar blue so it was more visible to workers. Also, when workers in the construction area put a vehicle in reverse, they toot the vehicle’s horn.

“The construction site is fairly confined around a large hole that is surrounded by construction vehicles,” said Heckman. “A few simple beeps on the horn warn workers that there is a moving vehicle in the area. It’s a small step that reaps a big benefit.”

Lanny Bates, Assistant Laboratory Director for Facilities and Operations, added, “This collaborative team of Lab workers and contractors has proven that they made safety a top priority. We are pleased with their progress and elated that they have performed their work in an extraordinarily safe manner. We should all applaud them.”

— Jane Koropsak

Past and Present BNLers Share Science With the Future



At the Long Island Science Center now.

Never let anyone tell you that science is all work and no play. Not only the Science Learning Center on site, but also, the Long Island Science Center (LISC) in Riverhead with its new Toy Tech exhibit shows scientific exploration can be hands-on fun.

BNL physicist Peter Wanderer, with four BNL retirees, Gilbert DeGregory, John Glass, Royal Thern, and Erich Willen, as well as several members of the LISC board and staff, helped assemble the exhibit. As they set up tables, exhibit designer Ed Sobey decided where each item should go.

“Thanks to all our wonderful volunteers who shared their design and construction talents with us on June 30,” said Delia Gibbs, executive director of the LISC. “Their help was invaluable.”

Toy Tech has two components, educational and interactive. Visitors are encouraged both to look at and read about toys, and to take part in the showcases’ hands-on components.

For the educational portion, the outsides and insides of toys are visible. Some electronic devices are opened up to reveal their inner mechanisms and how they work. Observers can also

read about older toys’ origins and histories. Meanwhile, on tables devoted to interactive activities, toys like Lincoln Logs and Legos are scattered, ready to be used in any number of projects.

“Kids are encouraged to see what they can make with a wide variety of objects,” explained Wanderer.

In addition, Toy Tech includes other displays like a wind machine that blows a ball high into the air, kites and banners hanging from the walls, and classic modes of transportation for the under-16 set, including a red wagon and a two-wheel scooter.

The most popular showcases in this exhibit promote building projects. At the wind tunnel, visitors can construct and test “flying cones,” trying to make their creations hover. Another flying opportunity comes at the rocket launch, where children

can watch rockets of their own design lift off. Experimentation is encouraged: the flying cones and rockets can be tested, refined, and re-tested to make them soar better and higher.

Sobey designed Toy Tech as a traveling exhibit, with the objective of encouraging children’s curiosity about the world. The display’s educational and interactive components are focused on this goal at a variety of other host institutions.

The display came to LISC thanks to funding from the Downtown Riverhead Business Improvement District. This marks the first time that the Science Center has had a special summer exhibit.

One reason past and present BNLers support this exhibit is that it makes science accessible to younger observers. By showing them how things work and by pushing them to “experiment” on their own, Toy Tech encourages the next generation to take a scientific approach.

As Wanderer summed it up, “The idea is partly spontaneous play and partly seeing how things work on the inside — to get kids thinking about it.”

— Sophie Bushwick

Enjoy Safe Bicycling At BNL

BNL is a picturesque environment in which to enjoy a summertime bicycle ride on 5,321 acres with 29 miles of paved roads and 14 miles of unpaved roads. The Lab’s summer students, residents, visiting scientists, users and employees are all welcome to enjoy bicycling on site. When doing so, the Lab encourages everyone to keep safety ever present.

“Each year in the United States, approximately 800 people die in bicycle-related accidents,” said Ed Nowak, manager of the Safety and Health Services Division. “We want to ensure a bicycle ride at BNL remains enjoyable and accident-free.”

BNL requires all bicyclists on site to wear an approved helmet, and to adhere to traffic regulations: stop at red lights, obey signs, observe speed limits, and follow lane markings.

BNL’s safety intranet has a variety of one-minute Safety Topics, including a newly posted focus on bicycle safety, designed to provide important safety information relevant to the Lab population.

— Jim Green

Service Anniversaries

The following employees celebrated service anniversaries during March 2010:

— 35 Years —
Antonino Realmuto... Lab Protect.
Elizabeth Gilbert HR/OM
Elizabeth Mogavero..... Physics

— 30 Years —
Joseph Zebuda..... C-AD
Glaister Fraser Maint/Fab
Robert Danowski Maint/Fab
James Wegrzyn ES&T

— 25 Years —
Diana TeichBus. Systems
Triveni RaoInstrum.
Joseph Carbonaro.....NNS

— 20 Years —
Barbara JulianoFiscal
John Ellerkamp, Jr.S&HS
Nicholas Spinella..... Lab Protect.
Barbara CalleSite Servs.

— 10 Years —
Nicholas Kling..... C-AD
John Ritter C-AD
Kerry Mirabella C-AD
Matt CowanBiology
Mary Carlucci-DaytonNSLS-II
Pavel Oblozinsky ES&T
Antonio Chan Physics
Melanie Echmalian Physics
Joseph Dennington ... Staff Servs.

Remember the BNL Food Drive!

The following employees celebrated service anniversaries during April 2010:

— 35 Years —
Joel Scott..... C-AD
Pamela Manning..... C-AD

— 30 Years —
John Bohenek..... NSLS

— 25 Years —
Lynanne Di Filippo..... C-AD
Thomas Talerico C-AD
Daniel OldhamMagnet
Edward WhittleBiology
Frances Hille..... Budget
Joseph Gallitelli Lab Protect.
Eileen Morello NSLS
Juan Aguilarv Maint/Fab
Kelly Smith Physics
Regis Saitta..... PPM
Anthony Shane PPM
Vera Meier Staff Servs.

— 20 Years —
Sorin Badea..... C-AD
Richard Lutz..... Energy/Utils.
Philip Pizzo Energy/Utils.
William Schmitz Energy/Utils.
Thomas SperryFacil Ops.
Andrew Ackerman NSLS
Richard Alles..... Maint/Fab
Cynthia Salwen..... NNS
Dwayne Eleazer.....Site Servs.

— 10 Years —
Peter Ferrara..... Finance Dir.
David Dono Maint/Fab
Peter Guida..... Medical
Robert Pak Physics
Christopher Pinkenburg... Physics
Thomas GableSite Servs.

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.

STATIONARY ENGINEER, SR. - Under minimum supervision operates, maintains and repairs any heat generation equipment, facilities, and auxiliary and related equipment. May be required to assign, direct, or check the work of other personnel in connection with assigned responsibilities. Energy & Utilities Division. Apply to Job ID #15435.

OFFICE SERVICES ASSISTANT (CW-2) - Requires a high school diploma and a minimum of two years' relevant work experience. Responsible for performing secretarial functions using established guidelines and procedures. Working knowledge of web-based tools and Microsoft Office applications (Word, Excel, and Outlook) is required. Strong communication, organizational and problem-solving skills are a plus, as well as the ability to work independently, handle multiple and parallel projects, prioritize workload, and handle non-routine office matters. Excellent verbal and written skills are essential as is the ability to work well with all levels of management, staff, contacts within/outside the Laboratory, and outside vendors. Some knowledge of Laboratory policies, practices, and procedures in assigned functional area is required, including familiarity with BNL systems, such as PeopleSoft, to process travel and web requisitions. Reporting to the Science Learning Center Supervisor, the applicant will perform a range of secretarial duties with varying degrees of complexity; which include, but are not limited to, the education program scheduling process, data base management, web requisitions, credit card orders, processing travel authorizations, ordering program materials, maintaining confidential contract records, and supporting the Center's staff. Community, Education, Government, and Public Affairs Directorate. Apply to Job ID #15412.

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

FACILITY PROJECT MANAGER (15 positions) - (T-5/T-6/T-7 or P-5/P-7) - Requires an associate degree, preferably in Engineering, or equivalent acquired through considerable training and experience in a technical or professional field and demonstrated responsible technical leadership with a minimum of eight years of relevant facility management experience. A bachelor's degree in engineering or other relevant field is desired. Certification in Facility Management through the International Facility Management Association (IFMA) and/or Building Owners and Managers Institute (BOMI) or ability to obtain certification over time is required. Requires broad knowledge of facilities management and maintenance; experience with maintenance management systems; knowledge of work planning and control, as well as conduct of operations; analytical problem solving and decision-making skills; strong customer focus, excellent skills in oral and written communication, as well as interpersonal and coordination skills. Extensive working knowledge of building systems (heating, ventilation, air conditioning, power distribution, plumbing, cooling water systems, electrical, fire protection/detection systems, communications, etc) is also required. Knowledge of interface between conventional building systems and programmatic equipment is preferred. For complete description see <http://www.bnl.gov/HR/jobs/jobsCheck.asp>. Facilities Operations Office. Apply to Job #15409.

Motor Vehicles

07 NISSAN QUEST - 38.05K mi. 4/15/10, bought fr. Nissan Certified Pre-Owned. Factory warr for powertrain. \$18,499. Ext. 4244.

07 BMW 335i - 47K mi. 19" wheels, KW coilovers, massive brakes, 400+ HP, more. 100K CPO warr. \$27,500 neg. Ext. 3970.

06 CHEVY AVEO - a/t, a/c, am/fm, gd cond. \$5,600 neg. Greta, 516-449-0305.

05 SUZUKI GZ-250 - 13.5 mi. purchased new, never used. \$3,500 neg. Jim, Ext. 7912, 516-316-6346 or vaz@bnl.gov.

00 YAMAHA V-STAR 1100 CLASSIC - 13.5K mi. v/clean, new tires and brakes. \$3,750 neg. Marty, 300-7481.

00 TOYOTA CELICA - 114K mi. 5 Sp manual Tr., excel cond. Blue. Spoiler, M/roof. pwr wdws, lock. CD. \$5,200 neg. Ext. 7161.

99 TOYOTA COROLLA CE - 114K mi. 4cyl, 4dr, a/t, a/c, c/c, am/fm, cass, p/w, drives well, great cond. \$3,200 neg. 849-2249.

98 HONDA CIVIC EX - 118K mi. silver, 4cyl, 4dr, a/t, a/c, c/c, abs, p/b, p/w, p/s, p/l, am/fm/cd, new tires, \$3,250 neg. Ext. 2336.

Boats

28' RINKER FIESTA V 260 - '92 low hrs, prof. maint'd, new top & prop, 84 roller loadrite tandem trailer, \$9,400 neg. Ext. 4320.

26' WELLCRAFT NOVA SPYDER - 1987 spdbot, twin merc cruiser's, tandem trailer, gd cond, must sell. \$4,000 neg. 295-9405.

BERKNER HALL TALENT SHOW TUESDAY, 7/27

Talented summer students, Lab staff, and visitors are invited to take the stage at BNL's annual Summer Talent Show, to be held in Berkner Hall at 5:30 p.m. on Tuesday, July 27. Organized by the Office of Educational Programs, the show will feature students, BNL staff, and visitors who sing, play instruments, or share dramatic moments and comedy.

If you have a talent you'd like to share, contact Joseph Heard, jheard@bnl.gov or Ext. 4237. Interns who participate may win a prize. Or, come to watch: admission is free! Visitors to the Lab of 16 or older must carry photo I.D.

Volunteers: Please Help Out During 'Family Fun' Summer Sunday, 7/25

This Sunday, July 25, the Science Learning Center will be welcoming local families to have fun in learning about elementary science — and extra volunteers are needed to make sure that everyone has a good time. The volunteers will help staff engage the public in fun science activities and exhibits — many of which are related to BNL research. It's a chance for you to help the Lab, and gain outreach experience — and you'll get training, lunch, and a golf shirt to wear and keep! You'll be needed from 8:30 a.m. to 4 p.m. at the Science Learning Center, Bldg. 935.

If you have questions, contact Gail Donoghue, donoghue@bnl.gov or Ext. 2838. To sign on as a volunteer, contact Menzel Smith-Jones, mjones@bnl.gov or Ext. 4495. Thanks so much.

17' BOSTON WHALER MONTAUK - boat and trailer, engine shot. \$2,200 neg. Townsend, 748-3784 or tanschut@bnl.gov.

14' MCKEE BROS HENRY O - stable fishing craft, 75hp merc. oil injected, new prop, trailer w new winch. \$3,200 neg. 905-8808.

KAYAK - 12' sit on top mnstrm king fish, fishing mdl, w/pole holder, compass, crate, pdle, life jckt, Thule Carrier, \$650. Ext. 3823.

Furnishings & Appliances

#45 BLACK INK CARTRIDGES - Qty-5 HP for Canon 930, 932C printers, \$15/ea, \$65/all; AC units, 6200/ or 8200/Btu, \$35/ea. Ext. 4035.

BED FRAME - solid wood, q-size, no mattress and box, gd cond, \$120/neg. Wencan, Ext. 8061 or wxu@bnl.gov.

BOOK SHELF - new, white, only used 8 mos, \$40. Wencan, Ext. 8061, wxu@bnl.gov.

DRESSER & MIRROR - solid cherry, w/sep wall mirror, orig owner, 7 english dovetail drawers, pics. Sue, Ext. 4931.

MATTRESS - SERTA full size w/matching box spring/\$350, barely used, in great cond. Mary, Ext. 2711 or mchuc@bnl.gov.

MEDIA CENTER - Golden oak color, approx 2'x4'x6', rm for 30" TV horiz, solid oak, storage, \$300. Richard, Ext. 3932.

PRINCESS TODDLER BED - Disney, ask/\$35, P'cess Bin Organizer, ask/\$20, P'cess Mirror ask/\$35, all excel cond. Ext. 3924.

Audio, Video & Computers

IPHONE 16GB JAILBROKEN - w/Cydia, 16gb first generation, \$200. Matthew, milardo@bnl.gov.

OLYMPUS 25MM PANCAKE LENS - like new, list price/206, ask/\$150 incl box and warr card, pics avail. Scott, Ext. 2991.

SONY MUSIC SYSTEM, - silver color, v/gd working cond, external spkrs also avail, \$150/neg. Ext. 3387, 245-5297.

TV PANASONIC - 27", built-in VHS VCR, 6 yrs old, \$50. Michael, Ext. 2802, 849-2249 or mwherman@bnl.gov.

Sports, Hobbies & Pets

89 TERRY CAMPER - 29' w/master bdrm, sleeps 2 w/bunkbeds, kit table, new 6 spkr stereo, pics avail, \$5700/obo. Ext. 4931.

GI JOES & ARMY JEEP - w/trailer, excel cond, bought late 60's; best offer. signorel@bnl.gov.

WIND TRAINER - Bicycle, Kreitler brand, hardly used, 15 yrs old, \$25. Ext. 7114.

Tools, House & Garden

WIRELESS G ROUTERS - 2, in box/\$30; w/o bx/15; Tom, Ext. 3085.

Miscellaneous

STEAMER/SHREDDER - Toby clothes steamer \$70; Paper shredder \$10. Tom, Ext. 3085.

WEDDING GOWN - beautiful, brand new, white, size 14 runs sm, pd./\$800, ask \$400, must sell. Ext. 7216, 445-4027.

Yard & Garage Sales

MASTIC BEACH - Sat 7/24, 10a - 4p, 86 Pecker Av, off Mastic Beach Rd. Multifamily. Tools, hseware, pic frames, etc. Ext. 7114.

SHIRLEY - 7/24 and 7/25, household items, kitchenware, electronics, clothes, furniture, more. 12 Pheasant Way. 399-2925.

Car Pool

PLAINVIEW - 3-person car pool meeting in Plainview, needs 4th. 8-4:30. Ext. 6068.

Free

FREEZER - white, upright, 28"w, 29"d, 59"h. Ron, Ext. 7588 or prwivo@bnl.gov.

Wanted

CAR TRAILER - open deck. Rich, Ext. 7294 or gambella@bnl.gov.

SMALL EXERCISE BICYCLE - for apt, cheap/free. Melinda, Ext. 2280.

TICKETS - for Pre-Season Pittsburgh Steelers at Giants stadium for 8-21-10. Melissa, Ext. 2877 or bittrolf@bnl.gov.

TUTOR - Need help with intro to electrochemical engineering, mid-term in 2 weeks. Willing to pay if necessary. Anthony, 375-7628 or aharkins@bnl.gov.

Lost & Found

WEDDING RING - found 7/16 in gym. Jim, Ext. 6222 or marron@bnl.gov.

For Rent

CENTEREACH - newly renov hse, 4 bdrm, 2 full bath, kit w/new appli, lg bckdy, deck, patio, prv drwy, quiet, utils/lawn serv incl, avail 8/1, \$2,300/mo neg. 917-586-3254.

DAVIS PARK - only 1 wk left, 8/23-30th, spectac hse on Grt S. Bay, 2/40' decks, 2 bdrm, 2 ba, w/d, dir TV, int, outdr shower, gas grill, plus sec, \$2,600/wk. 344-5829.

MANHATTAN - Upper East Side, newly renov studio apt sep kit, avail Sept 1st. \$1,250/mo. 331-3785.

MASTIC - 15'x14' 1 bdrm apt, 30'x18' lg l/r, 1 eik, 1 full bath, incl heat/elec/cable/water, sep ent. \$900/mo. 806-9722.

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

MIDDLE ISLAND - sm 1 bdrm bsmt apt, own thermostat and prkg, sm pets OK, less than 5 mi from Lab, incl all, avail Aug 1st. \$800/mo. Jaime, 921-2399.

MIDDLE ISLAND - 1 bdrm apt, big space, 2nd flr w/deck, full kit&bath, 10min to Lab, no smkg/pets, elect, util not incl. \$1,100/mo. Mr. Luk (or Lei), Ext. 4635, 516-225-3848.

SHOREHAM - 1 bdrm, garden apt, 1st flr, indep ent/drwy, full bath, kit, l/r, attic, cac, no smkg/pets, 1 mo sec, elect not incl. \$1,150/mo. lino.miceli@verizon.net.

YAPHANK - 1 bdrm bsmt apt, 10 min from Lab, incl spacious kit, living area, full bath, 1st mo + 1 mo sec, you pay cable/phone, no smkg/pets. \$1,250/mo. 816-6424.

For Sale

BAYPORT - Gt. S. Bay, F. L. Wright style flat-roof house, .83 acr, v priv. 3 bdrm, 2 & half bath, den, lr/dr, kit, util. rm, screend prch, carport. Pssve solar, heat in flrs. 617-332-6264.

CENTER MORICHES - 3/lg bldg lots, 1.75- 2 acres, horses allowed, nice area, owner can hold mortgage. \$650,000. George, 878-1178 or murdock@bnl.gov.



Joseph Rubino 02330210

Lab Open on Summer Sundays Until 8/8

This Sunday, 7/25, Is Family Fun Day

Bring the family for a fun-filled day of hands-on science! Play with magnets, mirrors, and more at the Science Learning Center. Tour the galaxy in StarLab. Visit the new Science Book Nook. Let the Anti-Gravity show lift your spirit.

In addition, 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 the public by BNL during Summer Sundays, July 11 to August 8.

No reservations are needed to take part in Summer Sundays at Brookhaven 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.

The remaining Summer Sundays schedule follows:

August 1 — Storm Trackers: The National Weather Service

See how scientists at the National Weather Service forecast the weather and track storms across the New York metropolitan area. See a weather balloon up close and watch it soar at 3:30 p.m. Enjoy the Weather show.

August 8 — Atom-Smasher Extraordinaire: RHIC

Visit the Relativistic Heavy Ion Collider, a world-class particle accelerator where physicists recreate conditions of the early universe to study the fundamental forces of matter. Stump a physicist and be amazed by the wonders of Phenomenal Physics. This tour is appropriate for adults and children age 10 and over.

For information, call 631 344-2651, check <http://www.bnl.gov>, or search Facebook for Summer Sundays.

SHOREHAM - 3 bdrm fencd hse, ½ acre, SWRSD, renov, hrdwd flrs, open flrplan, designer kit/bath, sunrm, deck, hottub, Andersen EnergyStar, \$346,999 neg. 849-2493.

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

WARTEBURG, TN - Two 5-acre lots, 29 & 30, White Creek Acres, gated comm, Morgan Cnty, Knoxville, mtn views, runs into Obed Wild, Scenic River. \$110,000 neg. 821-1271.

Happenings

"KISS ME, KATE" OPENS NFCT - Cole Porter's hit opens Thurs, w/FREE Opening Night Receipt, 7pm. Runs 7/22-8/8. 8pm nights, 2:30 Sundays. All tx \$20, www.nfct.com or 298-NFCT. Ext. 2520.

CHICKEN BBQ - St.John's Ukrainian Cath Church, Sun., 8/8, 3-5 pm. Franklin St, off Roanoke Ave, Riverhead. Live music, raffle. \$15 adv, \$18 at gate, kids under 12- \$10. George, Ext. 5298.

COUNTRY WESTERN NIGHT - Stony Brook Fire Dept. Sat., 8/14, 6:30-11:30 pm.

Incl Steak Dinner, unlimited wine, beer, soda & line dancing under stars. Tickets \$25/person. Andy, Ext. 3024, 445-1105.

CRUISE - 7-Day Caribbean Cruise, Apr 10, 2011, to Cayman Islands, Cozumel, Isla Roatan & Belize w/2 fun days at sea. \$789.72 pp dbl occup balc. Deposit req'd. 399-3098.

DINNER/SHOW - Sat, Oct 16, to see "Joseph," in PA, dinner @ Good n Plenty, FINAL PYMTS DUE by July 30. 399-3098.

LAST CHANCE ANIMAL RESCUE - benefit at Palmer Vineyards, Aquabogue, July 24, 7:30 pm. View family film "UP" and adoptable pooches. Donation: Adults /\$20; Under 16/ \$10. Suzanne, 722-9463.

NORTH FORK CRAFT BEER/WINE/BBQ - Sat, 8/14, 2-6pm, Martha Clara Vineyards, Jamesport. Discount tickets avail at BERA Store \$45pp = \$12 off. www.northforkcraftbeerfestival.com.344-3347.

SHEN YUN PERFORMING ARTS - Chinese New Year Show, Lincoln Cntr, Jan 6-16/2011, 5,000 years in making, ten nights only, www.ChineseArtsRevival.org Brilliant, Inspiring, Glorious. George, Ext. 4033.



Roger Stoutenburgh 00950710