

## Lab Director Holds All-Hands Meeting

BNLers joined Laboratory Director Sam Aronson in-person and online for an all-employee meeting held in Berkner Hall on Tuesday, November 23. As the meeting progressed, a common theme emerged: every employee has an important role

in ensuring a bright future for Brookhaven National Laboratory. Aronson updated the Lab community on its safety progress (*story below*), introduced the BNL Values & Behaviors (*see page 3*), and discussed the Lab's 10-Year Strategic Plan (*story below*).



Roger Stoudenburch D2211110



Watch a replay of the meeting:  
<http://www.bnl.gov/video>

# BNL's 10-Year Strategic Plan

By Lab Director Sam Aronson

Brookhaven National Laboratory's 10-Year Strategic Plan is, in a sense, a living document, revised annually, that guides our mission and asserts where the Lab will be most effective in serving the goals of the U.S. Department of Energy's Office of Science.

We use this annual revision to assess our progress, adjust for new challenges, and set our path for the next fiscal year. I'd like to take this opportunity to introduce our updated plan.

BNL's story of outstanding scientific achievement spans more than six decades. The key to our continued success is a strategy that defines our mission and vision, our core scientific capabilities, and how these capabilities connect with the major activities and initiatives we plan to undertake. In other words, our vision defines what we want to be, our mission defines what we intend to do, and our strategy defines how we plan to do it.

Our plan also details crucial infrastructure investments and opportunities for growth outside those core capabilities.

This summary provides a high-level look at our strategy, capabilities, and initiatives. The list of facilities, projects, and research directions is not all-inclusive; instead it is meant to be a broad outline of our priorities for future research — areas

where additional funding and effort will be expended to reach institutional goals.

### The Decade Ahead

As we move through the next decade, the Lab's vision is to be the "provider of choice" for world-class science and facilities in support of the U.S. Department of Energy's Office of Science and its mission to enable breakthroughs that ensure a successful future for our nation. To us, this means excellence in all aspects of our work — from science, to safety, to project management, and more.

The Laboratory's mission for the coming decade focuses on three broad areas: (1) advancing fundamental research in nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time; (2) applying photon sciences and nanomaterials research to energy problems of critical importance to the nation; and (3) performing cross-disciplinary research to understand the relationship between climate change, sustainable energy, and the Earth's ecosystems.

How do we do this? By pursuing the evolution and continued scientific leadership of the Lab's user facilities — the National Synchrotron Light Source (NSLS), Relativistic Heavy Ion Collider (RHIC), and Center for Functional Nanomaterials

## BNL's Major Scientific Initiatives

### Photon Sciences

BNL facilities will help researchers explore solutions to the grand energy challenges faced by the U.S. and open new regimes of scientific discovery.

### QCD Matter

The study of quantum chromodynamic (QCD) matter can illuminate the evolution and behavior of the universe.

### Energy

The Lab's energy research will draw on considerable scientific expertise and leverage BNL's world-class facilities to help reduce the carbon footprint of the energy economy.

### Physics of the Universe

BNL seeks to achieve intellectual and technical leadership in the energy, intensity, and cosmology frontiers of physics.

### Climate, Environment, and BioSciences

Brookhaven Lab is well-suited to address some of the most challenging scientific questions related to achieving a sustainable future.

Read more on p. 2

putting in place the organizational changes, service models, and streamlined processes that support these ambitious strategic outcomes.

### Core Capabilities

Over several decades, BNL has developed expertise in specific areas of science and associated applications through the conception, design, construction, and operation of advanced facilities like the Alternating Gradient Synchrotron, RHIC, NSLS, and CFN. These capabilities include:

- Particle and nuclear physics
- Accelerator science and technology
- Condensed matter physics and materials science
- Chemical and molecular science
- Climate change science
- Biological systems science
- Applied nuclear science and technology
- Applied materials science and engineering
- Chemical engineering
- Systems engineering and integration
- Large-scale user facilities and advanced instrumentation

The Laboratory defines its mission — what we intend to do — in terms of these core capabilities, which represent areas of science we are truly excited about.

(CFN) — and focusing on five major activities built on our existing core capabilities.

In addition, we've developed a comprehensive, multi-year plan, called the Blueprint, to enable us to realize our long-term vision and goals. Reaching across the science and technology directorates, operations, and

stakeholder relationships, we seek to expand the Lab's applied sciences portfolio, especially in energy and climate sciences, significantly expand Work for Others, address leadership capabilities and expectations, revitalize infrastructure, improve safety, and enhance operational performance. The Blueprint is

## A Call for All: Safety Commitment

Safety was a top priority in Lab Director Sam Aronson's talk at the November 23 all-employee meeting.

"I need your nonstop commitment to safety," he said to the many BNLers both in Berkner Hall and watching online. "The first step is to not give up on our safety effort — as individuals, as a group, and as an institution."

Aronson thanked all employees for the record-setting safety performance in fiscal year 2010 when the Lab reduced serious injuries by 50 percent.

"Let's now look forward and think how we'll continue this trend," he said. "We must continue to improve."

This commitment to safety requires action from everyone at the Lab, from every employee up through the leadership, he explained. Aronson noted that safety performance goes right to the heart of the Lab's growth strategy, the success of the Blueprint, future investment, and jobs.

Part of this commitment comes in the form of a new proactive and positive safety culture: "If you see something,

say or do something."

"This effort can also be in the form of everyday things, too, such as walking carefully and holding handrails," he said.

Aronson also said he had high expectations for safety commitment from the Associate and Assistant Laboratory Directors (ALDs) and each of the Lab Directorates. Members of each Directorate's Safety & Operations Council will discuss incidents and best practices, and ALDs will report back to the Director's Safety & Operations Council each month.

— Will Safer

## Annual Protective Action Drills

By Mike Pena, Manager, Office of Emergency Management

Twenty minutes of your time could save a life. The fire alarm sounds: Do you know what to do? Most of us have participated in fire drills since preschool or kindergarten, and the drills have not changed much since. That's because they have been proven to be effective and save lives.

BNL is required by DOE orders, the Occupational Safety and Health Administration, and the New York State Building Code to conduct annual protective action drills. Beyond the requirements, it is a "best practice" for individuals to be prepared for emergencies. Recent building evacuation drills have been very successful and are a good learning experience. Small challenges have been

incorporated in the drills to test the occupants' knowledge of alternate fire exit locations. We've heard some "moans and groans" about employees being pulled away from their work, but everyone has participated.

There is no "best time" to conduct building evacuation drills — anytime is appropriate. Yes, your work will be temporarily disrupted and you will have to evacuate the building and/or assemble in your designated area. You will have to report in for accountability. But being prepared for an emergency will be 20 minutes of time well spent.

The only people who really enjoyed participating in the evacuation drills are the people who have experienced a real...

See *Annual Drills* on p. 4



# BNL’s Major Scientific Initiatives

## Physics of the Universe

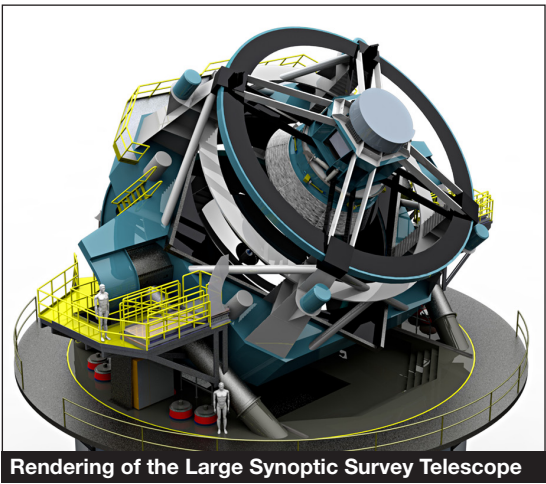
Brookhaven seeks to help answer questions about the nature of matter and the world around us by achieving intellectual and technical leadership in experiments at three physics frontiers:

### Energy Frontier

- Brookhaven is the U.S. host laboratory for the ATLAS collaboration at the Large Hadron Collider (LHC) at CERN (Switzerland/France) and also is a key player in ATLAS computing, data analysis, and detector performance. BNL physicists will advance these efforts as the LHC collides protons at ever-increasing energies, and will assist in the hunt for supersymmetric particles — a leading candidate for dark matter and hidden symmetries.
- Following on the Laboratory’s long tradition of innovative developments in accelerator science and technology, BNL scientists are a driving force in the conceptual development of a muon collider — a potential next-generation accelerator that would pursue a precision understanding of physics and early-universe symmetries beyond the Standard Model.

### Intensity Frontier

- As a partner in the Daya Bay Neutrino Experiment in China, BNL builds on its historical strength in the physics of neutrinos — uncharged elementary particles that “oscillate,” or switch, between three types. Daya Bay will try to measure the unknown parameter  $\theta_{13}$  that characterizes mixing between the lightest and heaviest neutrinos.
- BNL researchers will further explore neutrino properties with the Long Baseline Neutrino Experiment, which will send a beam of neutrinos from Fermi National Accelerator Laboratory to the Deep



Rendering of the Large Synoptic Survey Telescope

Underground Science and Engineering Laboratory in South Dakota. Brookhaven is leading the development of a water Cerenkov detector for this experiment, which will explore the role neutrinos might have played in establishing the asymmetry between matter and antimatter in our universe.

### Cosmology Frontier

- Brookhaven is leading the development of a multi-gigapixel focal plane detector for the Large Synoptic Survey Telescope (LSST), a huge telescope in Chile designed to image the entire visible southern sky. Based on the data collected from LSST and precursor studies, BNL researchers will help determine the dark matter distribution in the universe and the nature of dark energy.

Read more online: <http://www.bnl.gov/10yr-plan/physics.asp>.



Rendering of NSLS-II

## Photon Sciences

Major advances in energy technologies — such as the use of hydrogen as an energy carrier, the widespread use of solar energy, or the development of the next generation of nuclear power systems — will require scientific breakthroughs in developing new materials with advanced properties. A key barrier to progress is the absence of non-destructive tools that will give researchers the ability to “watch” the system dynamics of a wide range of materials with nanoscale resolution — on the order of billionths of a meter.

To fill this need, Brookhaven is building National Synchrotron Light Source II (NSLS-II), a light source with exquisite sensitivity that will produce x-rays 10,000 times brighter than the Lab’s current NSLS.

Scheduled for completion in 2015, NSLS-II will allow the characterization of the atomic and electronic structure, chemical composition, and magnetic properties of materials in a wide range of temperatures and environments. Its unique aspects will help researchers explore solutions to the grand energy challenges faced by the nation, and open up new regimes of scientific discovery, such as:

- The correlation between nanoscale structure and function
- The science of emergent behavior — looking at properties, laws, or phenomena that occur at the macroscopic, as opposed to the microscopic, scale
- The mechanisms of molecular self-assembly
- The structure and function of large molecular assemblies and machines, a critical challenge for structural genomics research and drug design

Findings in these fields will pave the way to discoveries in physics, chemistry, and biology — advances that will ultimately enhance national security and help drive the development of abundant, safe, and clean energy technologies.

NSLS and NSLS-II give Brookhaven leadership in photon sciences. Together with the Center for Functional Nanomaterials and the New York Blue supercomputer (jointly run with Stony Brook University), these facilities form a set of complementary tools that amplify the impact of Lab programs in nanoscience, energy science and technology, and life sciences.

Read more online: <http://www.bnl.gov/10yr-plan/photon-sciences.asp>.

## 21<sup>st</sup> Century Energy Security

Brookhaven’s energy research over the next decade will draw on considerable scientific expertise and leverage the Lab’s world-class facilities to help reduce the carbon footprint of the energy economy. Partnerships with industry, other National Labs, and universities — including the Advanced Energy Center at Stony Brook University — will be a key component of the Lab’s strategy, ensuring that our efforts are well informed by and focused on overcoming the key challenges to deployment.

Reducing carbon can be achieved via two pathways: by improving the generation, transmission, and storage of electricity as a way of displacing the use of fossil fuels, and also by developing sustainable chemical conversions to generate renewable fuels. Brookhaven’s program will address the low-carbon challenge via both pathways through the study, design, and refinement of:

- Materials for electricity generation and conversion, particularly solar energy conversion devices and catalysts to improve the efficiency of fuel cells
- Materials for energy storage for large-scale implementation on the nation’s electricity distribution grid, to facilitate more widespread use of intermittent renewable energy sources such as wind and solar
- Materials for electricity transmission, including strongly correlated materials such as superconductors able to carry electric current with no energy loss
- Sustainable chemical conversions, such as the



Researchers at the Center for Functional Nanomaterials

use of solar energy to generate fuels from abundant materials, or the use of electrical energy to create new fuels

Much of this research will take place at the Center for Functional Nanomaterials (CFN) and National Synchrotron Light Source (NSLS)/NSLS-II, which house an outstanding and complete set of complementary tools to synthesize, probe, and understand nano-structured materials and interfaces with unprecedented precision and resolution. The New York Blue supercomputer at BNL will provide computational support for theoretical studies and modeling; and partnerships with the Department of Energy and New York State will cultivate and foster collaborative, interdisciplinary R&D.

Read more online: <http://www.bnl.gov/10yr-plan/energy.asp>.

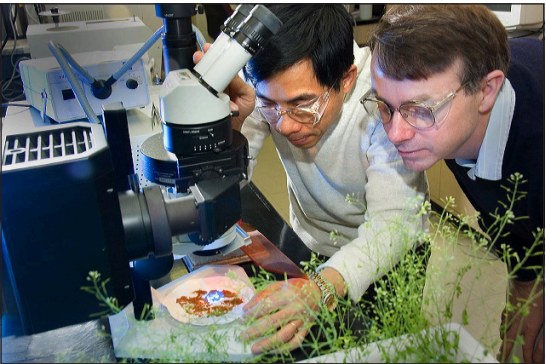
## Climate, Environment, and BioSciences

With the formation of a new Environment and Life Sciences (ELS) directorate to consolidate BNL’s strengths in plant sciences, imaging, and climate studies, the Lab is well-suited to address some of the most challenging scientific questions related to achieving a sustainable future. This work will focus on developing cross-disciplinary research and technology programs that seek to understand the relationships between climate change, sustainable energy, and ecosystems, with the ultimate aim of providing input for more informed climate change management strategies, approaches to adaptation, and policy decisions.

Critical outcomes from this work will include:

- Significantly improved climate models based on high-quality data and clear identification of the key parameters
- Quantitative data on terrestrial greenhouse gas emissions produced by rising global temperatures
- New sustainable feedstock options for producing biofuels, including methods to make plant matter easier to convert into energy and ways to direct plants’ conversion of sunlight into high-energy fuels

This research will draw on expertise from across



Brookhaven researchers investigating methods to make plant matter easier to convert into energy

the Laboratory with experiments being conducted at the National Synchrotron Light Source (NSLS) and NSLS-II, the Center for Functional Nanomaterials, the Biology Department, and in field studies — including a revamped multi-factor Free Air Carbon Dioxide Enrichment (FACE) experiment — with computational support coming from the New York Blue supercomputer.

Read more online: <http://www.bnl.gov/10yr-plan/climate.asp>.



Physicists examining the radiofrequency cavity system at the Relativistic Heavy Ion Collider

## QCD Matter

Discoveries at Brookhaven have enriched physicists’ understanding of quantum chromodynamics (QCD), the theory that describes the so-called “strong” interactions of quarks and gluons and illustrate ways in which the study of QCD matter can illuminate the evolution and behavior of the universe.

During the next decade, Brookhaven will continue its leadership role by enhancing and expanding its Relativistic Heavy Ion Collider’s (RHIC) ability to conduct precision studies of QCD matter to:

- Quantify properties of the perfect liquid quark-gluon plasma, including details about its phase transition and role in the cosmos
- Explore the role of gluons and gluon self-interactions in protons, neutrons, and nuclei
- Probe what determines the key features of QCD and their relation to the nature of gravity, cosmology, and string theory
- Map the universal properties of a dense gluon force field predicted to exist at the heart of all visible matter
- Search for the missing source of proton spin among “soft” gluons

This research program will require the full utilization of RHIC with continuous accelerator and detector upgrades, including a phased path toward addition of an electron energy recovery linac to RHIC (creating eRHIC) for high-energy electron-nucleus collisions. Brookhaven is working with U.S. and international partners to build support for this program as a natural extension of the Lab’s existing core capabilities in nuclear physics, accelerator science, instrumentation, data distribution, and analysis. The program will serve not just RHIC’s existing international user base of more than 1,000 scientists, but also a much broader research community exploring the connections of QCD matter to cosmology, astrophysics, and other fundamental interaction theories, including string theory — while also continuing to serve as a vital training ground for the next generation of scientists.

Read more online: <http://www.bnl.gov/10yr-plan/QCD-matter.asp>.



Our values express the enduring principles and beliefs that define our culture. They guide our behavior and performance and establish a standard against which our actions can be judged – as individuals and collectively as Brookhaven National Laboratory.

# Brookhaven National Laboratory

# Our Values

## Leadership

We model our values through our actions.

We communicate our expectations and Laboratory requirements and know how well they are being followed.

We motivate and empower individuals to reach their full potential through opportunities for growth and recognition.

## Integrity

We honor our commitments; we do what we say we will do.

We follow Lab policies and procedures.

We are ethical, open, and transparent.

## Responsibility

We hold ourselves and each other accountable for our actions and for delivering on our expected results and commitments.

We are contributing members of our community and value our stakeholders and their perspectives.

## Innovation

We strive to pioneer new directions and achieve revolutionary breakthroughs in science and operations.

We embrace a questioning attitude and are open to diverse points of view.

We take initiative and strive for continuous improvement.

## Safety, Security, and Environmental Stewardship

We take actions to ensure the health, safety, and welfare of ourselves, our co-workers, our guests, and the community.

We protect and sustain our environment.

We protect our people, our assets, and national security.

We raise concerns and act to prevent injuries, operational events, and insults to the environment.

## Respect

We value diversity and create an open, supportive, and respectful workplace inclusive of people and their differences.

We recognize the important role each of us plays in the success of the Laboratory.

## Teamwork

We work cooperatively and supportively across organizational boundaries with the Laboratory goals as our top priorities.

We value our many partnerships that contribute to the advancement of science, technology, and education.



VeljkoFest, 12/9

On Thursday, December 9, BNL will hold “VeljkoFest,” a forward looking scientific symposium covering some of Instrumentation Division Head Veljko Radeka’s current and future projects. The symposium will be held in the Large Seminar Room of Bldg. 510. All are welcome.

Register at <http://www.bnl.gov/veljkofest/>.

Gorman-Metz Scholarship Alert

Application forms for the 2011 Gorman-Metz Scholarship are now available and can be picked up at the Diversity Office, Bldg. 400B. The competitive scholarship awards a one-time sum of \$5,000 each year to a student who has a disability and is matriculating toward a graduate or professional degree. Preference will be given to studies in science, engineering, and math. (Students with disabilities attending undergraduate schools may apply. However, they will be given consideration only in years when there are no graduate applicants.) Scholarship applicants who wish to undertake a course of study that does not fall within the above guidelines may be deemed eligible if the Gorman-Metz Scholarship Committee approves the course of study.

To be eligible, the applicant must be the son or daughter of a current or retired employee of BNL or the son or daughter of an employee who died while in regular service at BNL. In the case of unrelated dependent children, including the children of domestic partners, eligibility will be established if the employee regularly claims the child as a dependent for income tax purposes, or if the child normally resides in the employee’s household, which must include the two-year period immediately prior to applying for a scholarship. The applicant must also be a college senior who will graduate during the current academic year and who will enter graduate school the following fall. Current enrolled graduate students are also eligible. For applications, please see Marge Hughes in the Diversity Office, Bldg. 400B. The closing date for receipt of applications is March 2, 2011. The scholarship will be awarded in May 2011.

Homeless Veterans Need Help — 1-1-1-Event, 12/16

On Thursday, December 16, 11 a.m. to 1:30 p.m., please bring: 1: a gently used item of MEN’s clothing, or 1: a dollar donation, or 1: a non-perishable food or MEN’s toiletry, to Berkner Hall lobby. All items collected will benefit the Suffolk County United Veterans, who run a shelter for homeless veterans in Yaphank. The Brookhaven Veterans Association members will transport all items to the shelter. Please go through your closets with a big open heart. We will gladly accept more than one of any of the items requested. Cash donations will go toward adopting a shelter or house where the homeless veterans live. For more details, see [www.scuv.org](http://www.scuv.org) or contact Scott Bradley, Ext. 5745, [Bradley@bnl.gov](mailto:Bradley@bnl.gov).

Suggested items: coats, hats, gloves, scarves, suits, ties, and dress shirts (to go on an interview), sweatpants and sweatshirts, underwear, T-shirts, jeans, white athletic socks, sneakers; paper plates, paper cups, napkins, toilet paper, paper towels, wind-up alarm clocks, lamps, socks, new underwear, canned goods, towels, washcloths, twin size: sheets, pillow cases, blankets, pillows, mattress covers. Any large items, e.g. microwaves, fridge, oven, TV sets, DVDs, VCRs, dressers, nightstands, etc. can be picked up from you later.

**Annual Drills from p. 1**  
...emergency in their work place. It saved their lives. Don’t wait until a real event to start looking for that alternate exit or how to report that you are safely out of the building.

You will never know if the sounding alarm is a drill or an actual emergency. So, *please*, treat every alarm as an actual emergency — and evacuate the building.

**Building Fire Alarms:**  
When the building fire alarm sounds, you are to leave the building at the nearest exit and proceed outside to the designated assembly area.

Make sure your work area is in a secure condition, take your coat and car keys, and evacuate.

Classified Advertisements

**Motor Vehicles & Supplies**  
04 GMC SIERRA – 42K mi. LIKE NEW,1/2TON,2WD,Automatic, W/Hard Shell, Tow Pkg,White, 1 Owner, Great Work Truck, Pics Avail - Must Sell. \$6,900 neg. Victor, Ext. 4860 or vsoria@bnl.gov.

Arrivals & Departures

— Arrivals —	
Matthew Bird .....	Chemistry
Emil Bozin .....	CMP&MS
Christel Colon .....	HR/OMC
Bartosz Frak .....	C-AD
Michael Lopez .....	Energy/Utilities
— Departures —	
Richard Deem .....	ES&T
Andrew Gordon .....	Physics
Warren Hirzel .....	C-AD
Mihai Radulescu .....	Photon Scis.
Liyuan Zhang .....	CMP&MS

United Way of Long Island in Action... Meet Ivan Rodriguez

Every year, BNLeers give to the United Way of Long Island. They volunteer their time, bake cookies for the bake sale, buy raffle tickets at the holiday auction, hold fundraisers, and fill out pledge forms to contribute in the year to come. In early 2011, BNL will give the sum of this year’s contributions to United Way, which will then put them to use. But how? And who is helped?

Eighty-three cents of every dollar contributed to the United Way of Long Island goes to more than 100 agencies and the United Way’s own programs, all to support education, income and financial stability, and health here on the island.

Ivan Rodriguez — a 24-year-old from Freeport, Long Island — is one of those thousands of Long Islanders whose life has been changed, thanks to the United Way.

Rodriguez started working in construction at 16 after dropping out of high school to help support his family, which included a younger brother with autism. In those days, he installed sheetrock, spackled, and painted, but he also got into some trouble, was found guilty of petty larceny, and spent time in jail.

Today, Rodriguez is using his old construction experience and picking up new expertise as he learns about energy efficiency and green technology as a member of the United Way’s YouthBuild program.

“It’s not what I was — it’s what I’m doing now, thanks to YouthBuild,” said Rodriguez. “YouthBuild has taught me a lot — about teamwork, how to work well with others, and how to listen to good advice.”



YouthBuild Long Island is the local chapter of a nationwide United Way program that has also received support from DOE. YouthBuild recruits young men and women, like Rodriguez, who are between the ages 16 and 24 from low-income communities. They are helped toward earning their high-school diploma or GED and also get work- and non-work related counseling and on-the-job training as they build green, energy efficient, affordable housing and weatherize existing homes to be more energy efficient.

“YouthBuild Long Island provides young people with the transformative opportunity to continue their education and learn valuable job skills so they can get on the path to a more productive, rewarding future,” said Rick Wertheim, Senior Vice President of Housing Initiatives at United Way of Long Island.

Wertheim added, “Additionally, this program — under United Way’s income platform — enables United Way to help create a future ‘green-collar’ workforce to meet the demand

Upcoming Events For the United Way

**Holiday Auction and Yard Sale:** Wednesday–Thursday, 12/8–9, from 11 a.m. until 2 p.m. Berkner Hall lobby (Bldg. 488). Drawings will be held on 12/9 at 2 p.m.

**Craft and Bake Sale:** Wednesday, 12/8 from 1 until 4:30 p.m. NSLS (Bldg. 725)

**Gift Wrapping:** Wednesday–Friday, 12/15–17, from 11 a.m. until 2 p.m. Berkner Hall lobby (Bldg. 488)

**Bake Sale:** Thursday, 12/16, from noon to 3 p.m. Bldg. 400 lobby

**Children’s Swim Carnival/ Pizza Party:** Saturday, 12/18. Pool (Bldg. 478)

The most up-to-date information for these upcoming fundraisers can be found online: <http://intranet.bnl.gov/unitedway/fundRaising.asp>.

for more environmentally responsible housing as well as help build a more sustainable, financially stable local workforce.”

There is less than one month left until the end of BNL’s 2010 United Way campaign, but there are still opportunities to contribute to its programs that help Long Islanders, including Rodriguez and the other members of YouthBuild Long Island. Whether you contribute by completing a pledge form, or logging your time spent volunteering in the community through the Volunteer Work program, or joining in one of the upcoming fundraising events on site, please help the United Way however you can.

— Joe Gettler

BSA Noon Recital: Guitarist David Starobin, 12/15

Guitarist David Starobin will perform on Wednesday, December 15, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab age 16 and older must bring a photo I.D.

*Soundboard* magazine recently wrote that Starobin is “arguably the most influential American classical guitarist of the twentieth century.” Composers, including Elliott Carter, George Crumb, Lukas Foss, and Milton Babbitt have dedicated new works to David Starobin, producing a repertoire of more than 350 new scores. He has performed these works throughout the world, collaborating with ensembles including the New York Philharmonic, San Francisco Symphony, Chamber



Music Society of Lincoln Center, and the Emerson and Guarneri Quartets. Starobin’s recordings have received numerous honors, including three Grammy nominations.

David Starobin began his guitar studies with the Puerto Rican guitarist Manuel Gayol. While a student at the Peabody Conservatory of Music, he worked closely with pianist Leon Fleisher and was a frequent participant in the Marlboro Music Festival. Between 1993 and 2004 Starobin chaired the guitar department at the Manhattan School of Music, where he currently teaches. In 1981, he founded Bridge Records, Inc. His work for Bridge as performer, producer, and executive producer has earned three Grammy awards and 20 Grammy nominations.

At the Lab, Starobin will perform original works for guitar, ranging from *Etudes* by Sor to five American preludes in rag and blues idioms.

— Jane Koropsak

...9.9hp OB, Life lines, Custom storage cradle. Too many extras to list. Please contact me. \$2,900 neg. Sal, Ext. 5055.

**Furnishings & Appliances**  
BOOKSHELF HEADBOARD – New, Black, Full. Pick-up. \$100; Black Vinyl...

...Couch, like new. pick up. \$200. Eileen, Ext. 7823, 205-8759 or pinkston@bnl.gov.

CHEST – light yellow color. 5 drawers. \$15. Pic here: <http://tinyurl.com/22ptcj4>. Ext. 4360. Wei-Fu, wfchen@bnl.gov.

COMPUTER CHAIR – Black, good...

...condition, \$50. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.

COUCH – Sectional couch, 9’x9’, green, good condition. \$25. John, Ext. 3222, 929-4101 or skinner@bnl.gov.

See *Ads & Services* in The Bulletin supplement.

This week, The Bulletin continues on pages 5 & 6, see additional supplement.



## CALENDAR

Today, Friday, 12/3

### \*Asian Tea House Lunch

Noon, Bldg. 463, Biology, Seminar Room 157. United Way fundraiser: tea, fried rice, noodles, dumplings, almond cookies, more. \$5 for a great lunch. All are welcome.

### \*Science Gifts Sale

Noon-2 p.m. Bldg. 935. The Science Learning Center will sell science-based gifts for all ages.

— WEEK OF 12/6 —

Wednesday, 12/8

### \*Holiday Auction, Jewelry, Yard Sale

11 a.m.-2 p.m. Berkner Hall lobby. Gift baskets, raffles, interesting yard-sale items, all sold to benefit the United Way.

### \*Craft & Bake Sale

1-4:30 p.m. National Synchrotron Light Source lobby, Bldg. 725. To benefit United Way.

Thursday, 12/9

### \*Holiday Auction, Jewelry, Yard Sale

11 a.m.-2 p.m. Berkner Hall lobby. Gift baskets, raffles, interesting yard-sale items, all sold to benefit the United Way. Drawings for winners at 2 p.m.

### \*VeljkoFest

1-6 p.m. Physics Bldg. 510, Large Seminar Room. A scientific symposium covering Instrumentation Division Head Veljko Radeka's current and future projects. All are welcome. Register at <http://www.bnl.gov/veljkofest/>. See p.4.

— WEEK OF 12/13 —

Wednesday, 12/15

### \*BSA Noon Recital

Noon. Berkner Hall. Guitarist David Starobin will perform, sponsored by Brookhaven Science Associates. All are welcome to this free public event. Visitors to the Lab of 16 and older must carry a photo ID.

### \*Gift Wrapping

11 a.m.-2 p.m. Berkner Hall lobby. Gifts will be wrapped, to benefit the United Way.

### Brookhaven Lecture

4 p.m. Berkner Hall. Ping Liu of the Chemistry Department will give a talk titled "Towards Catalyst Design From First Principles." All are welcome to this free public event. Visitors to the Lab of 16 and older must carry a photo ID.

Thursday, 12/16

### Book Event by Books Are Fun

10 a.m.-2 p.m. Berkner Hall lobby. Children's books and educational products, cookbooks, NY Times best sellers, music collections, stationary, discount prices.

### \*Gift Wrapping

11 a.m.-2 p.m. Berkner Hall lobby. Gifts will be wrapped, to benefit the United Way.

### \*Bake Sale

Noon-3 p.m. Bldg. 400 lobby. All proceeds to benefit the United Way.

Friday, 12/17

### \*Gift Wrapping

11 a.m.-2 p.m. Berkner Hall lobby. Gifts will be wrapped, to benefit the United Way.

Saturday, 12/18

### \*Children's Swim & Pizza Carnival

11 a.m.-1 p.m. Lab Swimming Pool. Children's party to benefit the United Way. \$10/child, who must be accompanied by an adult. Advance ticket sales only, no tickets at the door. Buy tickets at the Recreation Office Bldg. 400, Ext. 5090, or at the pool, by 12/17.

# To Bldg. 935 and Beyond Exploring BNL's Science Learning Center

Explore Building 935 at BNL on any given day and you are likely find children tickling invisible ivories on a keyless piano, glaring at tiny ticks for the first time through a microscope, or steering miniature rovers across a harsh Mars-like landscape.

Building 935 is marked on BNL's site map as the Science Learning Center. It is a large, colorfully painted warehouse-like building filled with fun, interactive exhibits that demonstrate basic scientific principles. The structure actually was an old warehouse before BNL's Office of Educational Programs moved its learning center from Bldg. 701 and set up shop there in 1997. Today, the building is only one of the locations at the Lab where the Science Learning Center introduces students from kindergarten through high school to science and BNL's cutting-edge research.

"Most people associate BNL's Science Learning Center with the actual building. It's really much more than," explained Bernadette Uzzi of BNL's Science Learning Center.

Uzzi worked in the private sector for more than 12 years testing soil, air, and water in the environmental field, as well as doing research and development involving an assortment of waxes, but in 2004, she also began teaching science to children at the Long Island Science Center in Riverhead. One day, a friend who worked at BNL informed her of a teaching job that had opened at the Lab, and by 2006, Uzzi was teaching science lessons at BNL's Science Learning Center as a per diem instructor. She became the Science Learning Center Coordinator in 2007.

With Supervisor Gail Donoghue, Educators Kahille



Members of BNL's Science Learning Center staff, including (from right) Supervisor Gail Donoghue, Coordinator Bernadette Uzzi, Educators Susan Frank, Kahille Dorsinvil, and Kaitlin Thomassen, Student Collaborator Erin O'Hare, and Administrative Supporter Menzel Smith-Jones

Dorsinvil, Susan Frank, and Kaitlin Thomassen, and Administrative Supporter Menzel Smith-Jones, Uzzi coordinates nearly 40 hands-on programs at BNL's Science Learning Center, which typically hosts about 35,000 Long Island students and teachers per year in Bldg. 935 and two laboratory classrooms in Bldg. 801.

The Science Learning Center's programs are tailored for students in grades one through 12 and address New York State Math, Science, and Technology Standards and National Science Education Content Standards. The programs demonstrate basic scientific principles and introduce age-appropriate concepts relating to ongoing scientific experiments at BNL's state-of-the-art facilities, including the Center for Functional Nanomaterials, National Synchrotron Light Source, and Relativistic Heavy Ion Collider.

At the Science Learning

## Science Gifts Sale Starts Today, 12/3

The Science Learning Center will hold its annual "Holiday Science Store" so the Lab community can buy science-based items and gifts for kids of all ages. The store will be open from noon until 2 p.m. on three Fridays in December: 12/3, 12/10, and 12/17, in Bldg. 935.

Center's different locations, classes of young students can learn basic science topics, such as measurement, electricity and circuits, and magnetic levitation — and students in middle and high school can perform experiments that include nanoscience, cosmic rays, and transferring genetic materials. This year, the Science Learning Center is also offering a new lab on solar energy. All the Science Learning Center's programs are hands-on and many are free for school classes.

"This is a dream job for me," said Uzzi. "I always loved

science. After having my own children, I learned how much I enjoyed sharing the excitement of science — and now I share that excitement with thousands of students every year."

BNL's Science Learning Center is open for field trips throughout the year and it hosts camps and college interns during the summer months. The Science Learning Center is also open to the public once per year through the Lab's Summer Sundays program. Teachers interested in scheduling a visit should call (631) 344-4495. — Joe Gettler

## American Red Cross Lifeguard Training

Early next year, BERA will offer American Red Cross lifeguard training. Those who successfully complete the program will receive certifications in lifeguarding, waterfront lifeguarding, CPR for the professional rescuer, automated external defibrillator (AED) usage, and first aid.

**Fee:** \$325 (includes \$50 nonrefundable deposit)

A mandatory swimming pre-test will be held on Saturday, January 8, 5-7 p.m. or Sunday, January 9, 10 a.m. – 1 p.m. It will include a water test, general information and registration.

To register for training, you must: be at least 15 years old; pass a swim test of 500 yards, 200 yards front crawl (freestyle); 300 yards alternating breaststroke, backstroke, and sidestroke. You must tread water for 10 minutes. Also, start in the shallow end, swim 25 yards, retrieve a diving brick from a depth of 9 feet, and return the brick within 1 minute 40 seconds (timed). You must also attend all eight sessions, no exceptions.

**Class dates:** January 23, 30; February 6; 13; 20 or 27, pick one; and March 6, and 13 at the pool in Bldg. 478 from 10 a.m.-3 p.m.

Call 921-6218 for more information and to register. If you decide to take the training, send your name, address, phone number, and a check for \$325/person made out to cash to: Lifeguard Training, P.O. Box 502, Upton, NY 11973. Candidates who fail the mandatory pre-test will be given one more chance to qualify at a later date. If the candidate fails again, \$50 of the fee is not refundable.

## TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will be on site on December 8, 9, 16, and 21 to answer employees' questions about their financial matters. For an appointment, call 1-800-732-8353 or go to <http://www.tiaa-cref.org/bnl> and select "set up a meeting."

## Defensive Driving Course: Two Parts, 12/13 & 16

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday and Thursday, December 13, in Berkner Hall Room B and December 16, in the Brookhaven Center South Room, from 6 to 9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$33 per person. Preregistration is required. To register, call Ed Sierra, Ext. 4080 or 821-1013, and leave a message. Or take a New York DMV approved course (Use code: "SAVE10" for \$10 discount) online: <http://www.lidrivessafe.com/>.

## BERA-IAA Annual Cultural Event, 12/18

On Saturday, December 18, from 3 p.m. in Berkner Hall, the BERA Indo-American Association will hold a function open to the public that showcases the rich culture and traditions of the Indian subcontinent through music, dance, and the arts. Authentic Indian snacks and a semi-formal Indian dinner will be served. To reserve a ticket, go to <http://www.bnl.gov/bera/activities/iaa/bera-iaa-2010>. Tickets are: adults, \$18; children of 4-12, \$10, and are fully refundable if cancelled by December 12. You can pay through PayPal using credit cards. Visitors to the Lab of 16 and older must carry valid photo ID.

## BERA Events: (More at [www.bnl.gov/bera/](http://www.bnl.gov/bera/))

**Food, Toy Drives:** Put canned goods, unwrapped new toys in the marked bins in Bldg. 400 lobby. Cash/checks welcome. Ext. 5090.

**Nutcracker:** by Seiskaya Ballet at the Staller Center, 6 p.m., Sun. 12/19, \$27 per person, adult or child, (normally \$35/\$29).

**BERA Holiday Party:** Fri., 12/10, Rock Hill Country Club. \$55 includes open bar, dinner buffet, DJ dancing, door prizes. Buy tickets at the BERA Store by Tuesday, December 7.

**Cake & Cookies With Santa:** Mon., 12/13, 7 p.m., Rec Hall (Bldg. 317). Families must get tickets at the Recreation Office in advance.



## Classified Advertisements

### Ads & Services from p.4

DISHWASHER – Whirlpool Gold, a lot of features, tan/bisque color, excellent condition. \$40. Ext. 5132.

FURNITURE (MOVING SALE) – glass dining table w/4 chairs, \$25; glass coffee table, \$15; sm. wood side table \$3; all...v/gd cond, in Coram. Lei, 515-451-5291 or lding@iastate.edu.

KRUPS COFFEE GRINDER – Model GVX2-12, Regularly \$84, like new, \$20. Nancy, Ext. 4567, 516-241-4598.

MOVING SALE – Love Seat-bluish grey, pet/...smoke free home \$25, coffee table & end tables \$15. Ext. 3387, abagaria@bnl.gov.

TV STAND – Fits 50 in., 2 stained glass shelves, silver trim on front, pic avail. Like new, \$50. Thomas, Ext. 5740, 655-2198 or nolan@bnl.gov. WASHER & DRYER – Kenmore Washer; Whirlpool Dryer - both gd cond - Pick-up. \$300/ pair. 205-8759.

### Audio, Video & Computers

CHEAP XBOX, PS3 ETC – Selling Xbox 360 250gb HD w/Kinect \$353.45 til 12/31 new PS3 250gb hd Ltd Lighting Edition \$353.45 til 12/31 \*\*new\*\* 357-996.

SONY 53 – Sony KP-53V80 53” projection TV - vg condition. Pick-up. \$300. Eileen, Ext. 7823, 205-8759 or pinkston@bnl.gov.

### Sports, Hobbies & Pets

ALTO SAXOPHONE – Olds. Recently checked & repaired/adjusted. Perfect working order. Quick sale, \$250. Scott, Ext. 7313, 553-2477 or seberg@bnl.gov.

ORANGE HUNTING SUIT – size sm, ask/\$50, pics upon request. Tony, 275-0694 or irachel@bnl.gov.

PITTIE MIX PUPPIES/MOM – Friendly pitbull (3 yrs old) & 7 pit mix puppies through Pibbles and more animal rescue. Available 12/11/10. Info, pics from mash@bnl.gov.

POODLE PUPPIES (STANDARD) – Litter of 11, 7 males, 4 females, black or cream colored, 10 weeks old, AKC papers incl. Pics available. 516-241-4598.

SURFBOARD – BIC 7'6". Good for beginner. \$150. Michael, 878-9384 or mdrowe@optonline.net.

SURFBOARD – Natures Shapes, 6'8" Quad Fish, Q82 model, custom epoxy, white gloss with black pin lines, rear traction pad, like new, pics available, asking \$325. Scott, sbronson@bnl.gov.

### Tools, House & Garden

LIGHT BULBS – New GU10 track lighting (50 watt) bulbs, 12 bulbs for \$10. Paul, Ext. 2899 or porfin@bnl.gov.

DINNERWARE – Grapevine by Pfaltzgraff, 8pc setting, s/p shakers, sugar&creamer, caketand, meat platters, serving bowls, gravy boat, cooler glasses. Pd \$450, all \$200. Pics avail. Sonya, skiss@bnl.gov.

SNOW BLOWER – MTD, Heavy Duty, 28", 10.5 HP, Elect start, Multi-speed pwr Dr,4-way Chute, 4 yr old, seldom used, well-m'tained, \$250. Ext. 2337 or jo@bnl.gov.

### Miscellaneous

DOUBLE STROLLER – MacLaren Twin Traveler, gd. cond., very portable, foam handles, lockable wheels; w/headrests, foot muffs, plastic rain protector. \$170.Carol, Ext. 3667, 928-6955.

ELECTRIC GENERATOR – Brand new, never used Dewalt BS1525W, 10hp Briggs & Stratton Engine. Originally \$1,000; asking \$400. On Wheels, move anywhere. Frank, Ext. 5920, 793-8233.

GENERAL HOUSEHOLD ITEMS – patio chairs 4-\$15; side wooden storage table \$10, standing fan w/remote/\$10, steam iron \$10, mixer \$5, juicer \$10. Ext. 3387 or abagaria@bnl.gov.

GITAR – used Yamaha FG200, \$49/obo. Robert, Ext. 4637.

KNIT HEADBANDS – Purchased a bunch as gifts. Have excess. \$5 each. See pictures at http://escondite.tripod.com/. Ext. 5322.

### Community Involvement

RENAISSANCE/EARLY MUSIC GROUP – Looking for fellow musicians to start an early music ensemble. If interested please contact Justine Haupt (call or email below) or Peter Siddons (x2738). Justine, Ext. 2114 or jhaupt@bnl.gov.

### Happenings

CHRISTMAS BAZAAR – CHRISTMAS BAZAAR Saturday, Dec 4, 10 am - 4 pm, Handmade Crafts and Chocolates, Baked Goods, Visit with Santa, Local Crafters & Merchants, 185 South Country Rd. Bellport,NY. Rolf, rolf@bnl.gov.

CRAFT & BAKE SALE AT NSLS – Dec 8 (1-4:30 pm), NSLS Lobby Bldg 725. Baked goods, handcrafted items, jewelry for sale by Photon Sciences staff to benefit United Way. Raffles for jewelry & lottery tree. mhanson@bnl.gov.

### Free

FREE COACH & TWIN BED – In very good condition. The bed includes mattress, box and frame. In Coram, you pick up. Lei, 515-451-5291 or lding@iastate.edu.

SONY 29" TV – SONY 29" TV, good condition, includes remote, pick-up at Lab. Yugang, Ext. 5674 or yuzhang@bnl.gov.

### Wanted

DONATIONS FOR HOLIDAY BOUTIQUE – NEW...

...& GENTLY USED jewelry, leather goods & accessories are needed for the United Way Boutique. Deliver donations to ITD, B/515 Rm 2-35. Alexa, Ext. 5555.

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 pantries/Kent Animal Shelter. Kathleen, Ext. 3161 or kratto@bnl.gov.

FIREARMS – Wanted old or new firearms, fair \$\$ paid. Joe, Ext. 3783, 487-1479.

FIREPLACE TOOLS – Does anyone have any they do not need anymore? Thanks. Sabine, Ext. 4340.

MBR FURNITURE & COFFEE TABLE – Looking for country style queen size master b/r furniture and wood coffee table at reasonable price. Photos appreciated. Susan, slattuca@bnl.gov.

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

### For Rent

ORLANDO, FL – Timeshare avail 2/18/11 - 2/25/11. 3 Bdrm Villa w/all amenities. Sleeps up to 12. www.orangelake.com. \$1,500/wk neg. Jenn/Mike, 926-4935 or jsmith@lawrenceceilcorp.com.

BROOKHAVEN HAMLET – Room for rent and use of quiet house, w/d, kitchen, cable for TV w/high spd modem. Private backyard. Available from Jan 15, 2011. \$485/mo. includes all. 286-4028.

BROOKHAVEN HAMLET – 3 bdrms, dead end country lane, walk to bay, 2 bath, large EIK, + util and one mo. sec. \$1,500/mo. Jeb, 286-0204, suzy183@optonline.net.

CENTER MORICHES – sm 3 bdrm hse, south of Montauk H'way, 1car gar, close to all, storage, gd for couple util not incl. \$1,100/mo. George, 325-2549 or murdock381@hotmail.com.

MASTIC – new apt, 1bdrm kit/lr combo, full bath, priv ent, quiet area, own thermostat, util incl, nr LIRR, no smkg/pets, walk to shop, 8 min to Lab 1mo sec, avail Dec 31. \$750/mo. 335-4907.

MASTIC BEACH - quiet, secluded, 3-bdrm, 2 full baths, house with l/r, eik, w/d hookup. i mo. sec. \$1,750/mo., utils not included. 255-8445.

MEDFORD – 1 bdrm, kit/lr combo, full bath, priv. entr./driveway, quiet area, own thermostat, utilities incl, no smkg/pets, 8 min to Lab, 1mo sec/1 mo rent, available immediately. \$875/mo. 245-9609.

PATCHOGUE – Small 2 bdrm cottage. Fenced in yard. \$1,250/mo plus utilities. Betty, 475-1961 or irachel@bnl.gov.

RIDGE – Apt. for rent on horse property, non-smoking, single person, 1 bdrm, l/r, large full bthrm, kitchenette, priv. entr. and private fenced yard. all included. \$975/mo. Wayne, 924-0002.

RONKONKOMA – Great 1 bdrm. apt. side entrance, ground level, 15' ceilings w/sky lights. large full kit. Private wing of v. large house. 7 min RR, 15 min to Lab. \$1,050/mo. Joseph, 241-6063.

SHOREHAM – share a house with professional. Large furnished bedroom, 7 miles from BNL, internet, TV etc, \$650/mo. includes all. 516-380-2650 or gg19582003@gmail.com.

WOODSTOCK, NY – Yr round rental; perfect wkend retreat. Renovated carriage house; studio apt w/full Kitch, garage, all utilities incl. \$850/mo. Ira, 367-9717.

### For Sale

BUYPORT – Grt. S. Bay area, 2,300 sq. ft. ranch, approx. 1 acre, priv., wooded, 3 bdrm, 2+half ba, den, lr/dr, kit, util rm, scrnd porch, carport, excel schls. \$585,000 or \$2,300/mo. 617-332-6264.

CALVERTON – 7 rms, 2 bdrm, 2 full baths, kit, d/r, oversized l/r w/ vaulted ceilings, lots of potential and character just in need of some TLC! \$280,000 neg. Joe, 591-2772.

ROCKY POINT – 10 rms, 4 bdrms, 3 bath, eik w/ granite cntrops, l/r w/tp & wet bar, d/r, fin bsmt, a/c, 2-car gar, 42x12' deck, igp, igs, 0.92 acres. \$455,000 neg. 742-7053.

SHIRLEY – 436 Lockwood Dr. Newly Renovated Colonial. Spacious 4 Bdr, 3 full bth, IGR, Hdwd floor, New appliances, 2 c garage, 1/2 acre. Longwood SD, minutes to Lab. \$329,990. Larry, 516-383-7006.

### On-Site Services

On-site service station: under new management since early this year, provides gas, oil changes, all sorts of vehicle maintenance and repairs, and New York State inspections, all conveniently while you are at work. Specialty services such as windshields and collector car service are also available. Call to schedule an appointment, Ext. 4034.

### Services

Services are neither screened nor recommended by the Bulletin.

35MM SLIDE SCANNING – www.pictureperfectscans.com scans & color corrects 35mm slides, photos, negatives & converts them to DVD. Music slideshows avail, Port Jeff. Dianne, 928-6469.

A+SINGER W/DUO – Swinging Singer w/ piano/guitar and percussionist. Performing in LI & Manhattan since 1992, weddings & events. Good Prices. Yvette, yvette@yvettemalavet.com.

A1 SPRINKLERS – complete lawn irrigation service, Spring start ups, new installations, repairs, pipe pulling, free estimates, quality work. Michael, 284-2277.

AIRPORT SERVICE – need ride to any airport or NYC call Lincoln, discounts to BNLers, all luxury cars. Tony, 589-5555.

ALL PHASES HOME & YARD WORK – No job too large or small, reasonable rates. To schedule an estimate call Theresa, 714-1629.

APPRAISALS - RESIDENTIAL – Single & Multi-Family/Condo/co-op, Tax Grievance, purchase or refinance of home, etc, Marian Cardone, Certified & FHA Approved, www.MC-Appraisals.com. 806-4482.

ATTORNEY – Real estate closings, matrimonial/custody, wills & estates, other matters, office located 15 minutes from BNL, discounted rates for BNL employee & families. Free consultation. Anna, 513-6688 or annamartin63@yahoo.com.

AUTOMOTIVE SERVICE – All makes and models, foreign and domestic, 30 years dealer experience, factory trained professional, Lab discount. bill, 681-3061.

BABY SITTING – college student home for summer w/9yrs experience from newborn-12yrs of age. Carolyn, 613-514-5447.

BABY SITTING – 16 yr old avail to baby sit your toddler/elementary (3-11 yrs old) school child on wkends. References provided on request. 828-6321 or sharuc@msn.com.

BABY/PET SITTER & DOG WALKER – 14 yrs experience w/newborns & older as well as special needs. BS in Animal Behavior from Purdue University. Ref avail. Sarah, 603-6114 or sarahrseiler@gmail.com.

BABYSITTER – Experienced & responsible 26yr old BNL Admin Assit avail to watch your children wk/nights/wkends. I have much experience and references available immediately. Michelle, 767-9755.

BABYSITTER – Experienced, responsible, 16 year old will babysit evenings and weekends in your home. Miller Place/Rocky Point/Mt. Sinai area. 806-6378.

BABYSITTER/MOTHER'S HELPER – 14 yr old Longwood Honor Student with Babysitting Certification available to watch your child(ren). Your home or mine: nights-weekends-summer-time-school breaks. Alexis, 924-6395.

BABYSITTER/PET SITTER – I am a HS Junior (16 yrs old) and I am experienced and responsible. Available on weekends and some weeknights. Shoreham-Wading River area. 744-2095.

BOAT STORAGE – Boat hauling & winter storage up to 28'. Trailered boats welcome. 631-680-0431.

BRICKWORK – Reset your existing walk or patio to look brand new, BNL discount, no job too small, call for free estimate. Tony, 736-7942.

BY THE BAY TUTORING – NYS Certified Educator & School District Employed. Tutoring students grades 1-5 in ELA test prep- Reading Writing-Math \$45/hr. Krissy, 419-6497.

CALLIGRAPHY – Will do penwork for wedding invites, big birthday bash, etc. Nina, 475-1297.

CAR DETAILING – make your car look its best, ALL phases of detailing, incl headlights, carpets, super wax, more! call for an appt. Chris, 960-6243.

CARPENTER/CONTRACTOR – All phases of home improvements. Specialize in custom kitchens, tile work. Landscape ponds and decks. 25 yrs exper. refs, pics avail, Lic/insured. Ray, 654-1970.

CATERING/PARTY PLANNING SERVICES – Will travel, taste test available upon request and appt. reasonable rates, references avail. Michelle, 774-9136.

CERAMIC TILE & MARBLE – Professional installation no job too small. Licensed and insured, free estimates. Tom, 909-1498.

CERTIFIED TEACHER – Available to tutor Elementary Ed. up to grade 6 and Literacy (Birth-12th grade); flexible schedule. \$35.00/hr. Refs furnished upon request. Call Agnes. 516-526-9091.

CHAINSAW SHARPENING – \$5/off saw or \$7/ on saw, any length chain, can have ready by next day. Peter, 631-772-4751 or prjhg@optonline.net.

CHILDCARE – High School student available for after school, weekend, summer childcare, all hours, lab vicinity, Manorville area, experience with young children. Mom works at Lab. Nicole, 672-5981.

CHIMNEY SWEEPING – Fireplaces, wood, coal and oil flue chimneys, stainless steel caps and liners avail, custom made stainless steel Pre-fab caps and chase pans. Lab discount. 821-5526.

CLEANING LADY – Cleaning lady is looking for work. You can call me if you want details. Thank you. 399-3638.

COMPUTER REPAIR – Certified Technician. Virus removal, PC tune-ups, new computer setup and home networking. Reasonable rates. John, 804-0980.

COMPUTER REPAIR – Expert service for your PC or Mac. No repair too small or large. Certified technician. Reasonable rates, discounts for Firefighters, EMS Personnel and Police. Jon Sadowksi, 651-1155 or jon@isitresources.com.

COMPUTER REPAIR SERVICE – 20% Discount for All BNL Employees! Spyware, Viruses, Web Design and More. See www.ECSLI.com for details. Jesse, 339-0327.

COMPUTER REPAIR SERVICES – Is your computer slow and freezing up? Are you having issues with hardware? Need your data recovered? If so, I specialize in solving your computer issues at affordable rates. Jeff, 682-0092 or jpcprepairs@gmail.com.

COMPUTER REPAIR/CONSULTANT – COMPUTER SERVICES, ALL – Home & business specialist. New system set ups, tune-ups, virus control, lessons from cert. business teacher. Plenty of references, reasonable rates. Jim, 821-2558.

DEFENSIVE DRIVING COURSE – Take a New York DMV approved course online: http://www.lidrivsafe.com. For more information or a traditional classroom schedule call Ed Sierra at 631-821-1013.

DJ ENTERTAINMENT – Tailored to your Affair: weddings, parties, anniversaries, sweet 16, birthdays, more. 40s to 2000s. CCM Reggeton, Merengue, Salsa, much more. Lights, party props, insured. Luis, 457-3506 or lulesdtaz@aol.com.

ELDERLY CARE – wkends, 24 yrs experience, live in/out, BNL Employee. Susan, 384-3147.

ELECTRICIAN – replace defective switches and outlets, upgrade service equipment, run additional circuits, lighting. Steve, 758-7002.

EXPERIENCED CHEMISTRY TUTOR – Ph.D. in Chemistry. Available evenings and weekends to tutor all chemistry topics from high school general chemistry through organic. Will work with you on price! 940-595-5356.

FITNESS AND NUTRITION – FOCUS ON YOURSELF FOR A CHANGE. Experience a progressive fitness methodology which guarantees you success, customized for your body and lifestyle. On location or in home. Jean, 707-2029 or tully\_jean@yahoo.com.

FREE FINANCIAL ADVICE – I can help answer and correct your financial issues.I offer free financial planning-other companies charge thousands of dollars. Call me to set up an appointment. Andrew Frey, 516-318-6656 or afrey@primerica.com.

FRENCH CLASSES – for children and adults (3-99 yo) on Sundays in Stony Brook University. Registration: http://www.schoolplus-tonybrook.org/. 615-4215 or schoolplus\_sb@yahoo.com.

GAS UTILITY SAVINGS – Save 10% a month off of your Natural Gas bill for both your personal and your business. Restaurants, Buildings, Houses, etc. If you use Natural Gas you qualify. It will take less than 2 minutes to show you the savings. Chris, 913-8169 or stroinc@gmail.com.

HAIR STYLIST – Professional - Men, women, children, I'll come to you! Call for appointment Dee's Awsome Cuts. 880-0898.

HANDYMAN – Lic & Ins. Free estimate. All work done professionally & with TLC. All manner of home repairs, gutting, renovations and carpentry. Bill, 281-4492 or frmh1@aol.com.

HANDYMAN – Expert service with attention to detail, dependable, on-time, excellent references. Discount for BNL employees, veterans, seniors. John, 365-4815.

HANDYMAN/CARPENTER – All Home Improvements. No job too big or small. Call Frank for a free estimate. 616-3020.

HOME IMPROVEMENTS – Home care co, we are here to help. All jobs lg or sm, call for more info, Lic&Ins. George, 878-1178.

HOME CARE - PRIVATE DUTY – Personal care & assistance including bathing, dressing, meal prep, medication reminders & general companionship. We work with Lic Nursing Agencies,CARING HANDS of the EAST END. 553-9741.

HOME IMPROVEMENT – All phases of home improvement, doors, windows, roofing, siding, power washing, painting, and decks. Licensed & Insured. Free Estimates. Joe, 889-2047.

HOME IMPROVEMENTS – Meticulous, if your home needs work or repairs, large or small, call Anthony, Lic./insured, lab references. 312-2670.

HOME/BUSINESS CLEANING SERVICE – Experienced Local Cleaning Person to CLEAN HOME or BUSINESS. Reasonable Rates! Will do windows & light yard clean-up. Lisa, 909-1928 or misterplai@yahooc.com.

HOME/OFFICE ORGANIZING – Wishing you were better organized? Missed bill payments? Lost keys? No time to organize your home? office? car? Simple cleaning/ironing. Call for appt. \$20/hr. Nina, 475-1297.

HOUSECLEANING – experienced reliable housecleaning, references avail. 872-2779.

INCOME TAX PREPARATION – Full accounting and tax services for businesses and individuals, personalized service at affordable rates, at your home or my office, 2042 North Country Rd., Wading River. Tomassa Rosini, CPA, 886-1545.

INSURANCE – Advice on full array incl auto, homeowners, boat, umbrella and life insurance. Christopher, 738-7300.

JUNK REMOVAL – demolition, and recycling services. We take it all away! Call Jared. 576-5220.

KNIFE SHARPENING – “NEW EDGE” quality knife and tool sharpening, BNL Discounts avail. Charles Reilly, 525-2950.

LAWNING & ROTOTILLING – please call for more info. Bill, 395-0414 or rizzitellow@yahoo.com.

LIMOUSINE SERVICE – Town cars, Limos, Vans, Hybrids, excel service and prices, www.aquariuslimos.com. 218-3122.

LOCAL DRIVEWAY PLOWING – call for estimate. Steve, 404-8109.

LONG ISLAND WEB DESIGN – Complete Website, Hosting & Email Packages. Get a custom website today at www.BlueBarnGraphics.com Stefan, 428-7246, 928-6469.

MAKEUP ARTIST – Professional makeup artist with affordable prices. Look on the web for samples at www.beautymakeupartistry.com, Middle Island, LI location, Proms, weddings, night on the town. 384-6972 or beautymakeup@optonline.net.

MUSIC LESSONS – Flute and saxophone lessons, \$20/half hr or \$30/hr. Jenn, 806-6378.

NIGHT TIME NOTARY – After hours notary, call for appointment or information. 838-9861 or nighttimenotary@gmail.com.

OFF THE TOP TREE SERVICE – All phases of tree work. Licensed/insured, free estimates, 957-6750 or 516-797-1080.

PARTY/EVENT SERVICE – Private Waitress-Several years experience in Service, Hotel Hospitality, Mgmt. Graduate of Culinary & Restaurant Mgmt Degree. Energetic,Reliable,Professional.Works w/all budgets. Danielle, 805-861-0038 or buldan85@gmail.com.

PERFECTION PLUS PAINTING – Sit back and relax. Help is on the way. Over 40 years' experience. One on One free estimate. No pressure sales. References available on request. BNL discount. Bill Struss, 764-4755.

PERSONAL FITNESS TRAINER – E.Setauket; Individually designed programs to meet your goals. Improve strength, conditioning, lose weight. knowledgeable, experienced. Reasonable rates. Bring a friend. Cory. 278-9076.

PERSONAL SHOPPER – Need help shopping for someone? Too busy for grocery shopping? Will help you shop and do errands. Great for senior citizens or those who cannot get around on their own. Linda, 399-1125.

PET GROOMING – Full service dog & cat grooming. Self service dog wash avail, also, pet food & supplies for all of your pets needs. Lindsey's Groom Room, 143 Main St. Kings Park. Lindsey, 292-2655 or ltgroomer@yahoo.com.

PHOTOGRAPHER & SERVICES – Freelance photography, all occasions. Family portraits, automobiles. Old Photo restoration. Negative & slides scanned to digital. 25 years experience. Rick, 874-4017.

PHOTOGRAPHIC ARTIST – Digital Event Photography; 42 years experience, Photo restoration, Member NAPP; Photoshop trained/ experienced, love to make your images pop; priced to suit call/email for info. Ron, 284-6008 or reolimages@optonline.net.

PIANO LESSONS – Professional Piano lessons by Experienced Piano Teacher Prep for NYS-SMA, Talent Shows and Annual Recitals for all ages. 627-3674.

PIANO LESSONS FOR BEGINNERS – licensed & retired music teacher. Comfortable home setting. 751-7023.

PINSTRIPING HAND PAINTED – Old school hand painted pinstriping, boat/custom lettering, airbrush, since 1990. Dominick, 576-5195.

POWERWASH SIDING – Army Veteran will powerwash and clean your siding, deck and driveway. Lowest prices available. For further details, please call 245-9609.

POWERWASHING – “AT YOUR SERVICE” Home exteriors, decks, patios. Discount for BNL employees/Veterans/Seniors. John, 365-4815.

PROFESSIONAL WRITING – Professional Writing Services including Resumes, College essays, Proofreading, Editing and Tutoring. Diana, diagal@hotmail.com.

SCHOOL DRUG, SMK.G. PREVENTION – Riverhead Comm Awareness Program, Inc needs Adult Volunteers to help teach our 09-2010 Pulaski St School Drug and Alcohol Prevention Program, call for details. Marilyn, 727-3722.

SCIENCE & LANGUAGE SCHOOL @ SBU – Enrichment Program for children ages 3-15 at Stony Brook U. Classes on Sundays: Math, Physics, Art, Russian, English, French (tests preparation). www.schoolplusstonybrook.org. Marina Polonskaya, 615-4215 or schoolplus\_sb@yahoo.com.

SNOW PLOWING – local, exits 62-66, call for estimate. paul, 978-6008.

STUMPS REMOVED-LAND CLEARING – Stumps properly removed w/the soil re-compacted and graded for plantings. using JD-450 with custom rake, \$160/hr. Tom, 878-1060 or thomasmuller@optonline.net.

TICK SPRAYS AND LAWN CARE – Professional tick sprays and lawn care, provided by MK Lawn care and Landscape Maintenance. Mark Kozakiewicz, 987-4445.

TUTOR – NYS Certified Earth Science Teacher. \$50/hr. Edward, 821-1013.

TUTOR – Mathematics teacher certified levels 7 thru 12, come to home or library. 827-2767.

TUTOR – NYS Certified-General Ed, Special Ed, & Literacy. PreK-6, remediation, enrichment, early literacy, comprehension & phonics instruction, math, NYS Assessment prep. Neg. rates. 922-1310.

TUTOR – Certified Teacher avail to tutor Elem Ed up to grade 6 and Literacy; birth-12th grd; flexible schedule, \$35/hr, Refs furnished upon request. Agnes, 516-526-9091.

TUTOR/READING – Now accepting new students! Certified teacher experienced in literacy and special education (grades pre k-6). East Patchogue area. Excellent references. Brandi, 872-0020 or brandi.decaro@tmo.blackberry.net.

VW & AUDI REPAIR – Certified VW tech w/7 yrs dealer experience. All types of repairs, maintenance to eng diag. Dealer parts only, no cheap aftermarket. Also repair many other