

## ASERTTI Fall Meeting Held at Brookhaven Lab

**State energy programs nationwide track path from discovery to deployment**

BNL and the Long Island Power Authority (LIPA) co-hosted three dozen representatives of energy-related organizations in 12 states during the annual Fall meeting of ASERTTI, the Association of State Energy Research and Technology Transfer Institutions. From October 4 through 7, participants heard speakers on a variety of topics in the field and also visited parts of Long Island.

It is traditional for the host organizations to sponsor many of the talks. LIPA opened the meeting with a panel discussion of the company's energy efficiency and renewable energy program. In another of the morning sessions, Deputy Lab Director Doon Gibbs gave an overview of BNL's core energy research activities, followed by Walter Copan from the Office of Technology Commercialization & Partnerships, who detailed the Lab's approach in moving technologies from R&D to deployment. Copan pointed out that BNL has the highest revenues for patent royalties in the national lab system. Associate Lab Director Gerald Stokes reiterated these themes in his talk on the final day, in which he

ASERTTI works to increase the effectiveness of energy research efforts in contribution to economic growth, environmental quality, and energy security.

described his vision for the new Global and Regional Solutions Directorate.

Other BNL speakers included Tom Butcher from the Energy Resources Division, who described the new solar thermal project at the Brookhaven Center. The large conference room in which the meeting was held is the space most directly affected by the so-called combi-system, combining solar collectors, located on the roof of that end of the building, and a biodiesel-fueled boiler to power the new radiant-heat floor. The following day, attendees heard Assistant Lab Director Pat Looney discuss plans for the construction...

See *ASERTTI Mtg.* on p.2

## New Beam Source For BNL Accelerators

**Modern, compact ion injector will feed new kinds of particles to RHIC and NSRL**

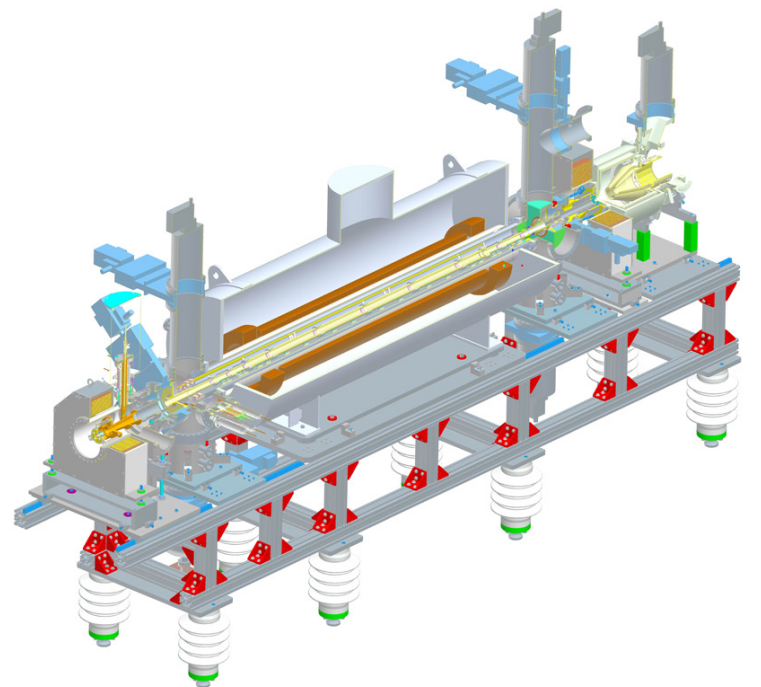
A new source of ions will soon be the starting point for the beams entering two major research facilities at BNL — the Relativistic Heavy Ion Collider (RHIC), where physicists are recreating conditions of the early universe to learn more about the forces that hold matter together, and the NASA Space Radiation Laboratory (NSRL), where scientists study the effects of space radiation to help find ways to protect astronauts. The new facility, the Electron Beam Ion Source (EBIS), will produce and accelerate beams with greater versatility than the current system, allowing studies with new kinds of ions previously unavailable to the researchers. EBIS recently received formal approval from DOE to start operations.

"This new system uses EBIS and two small accelerators as a replacement for the Tandem Van de Graaff accelerators, which have been running successfully for 40 years, but with certain limitations when it comes to producing ion beams for RHIC and NSRL," said Jim Alessi of the Collider-Accelerator Department (C-AD), leader of the group that designs and operates "pre-injector" accelerator systems at BNL. For example, because the Tandems must start with negatively charged ions — atoms with one extra electron — they can only produce beams from about half the elements in the periodic table. EBIS can start with positive ions or even neutral atoms, allowing the creation of ion beams from almost any element.

For the RHIC program, physicists are most interested in creating and colliding beams of uranium ions because of their football shape and large number of protons and neutrons. Head-on collisions of two tiny uranium ions positioned like colliding spiraling footballs would produce a speck of matter with even greater energy density than the spherical gold ion collisions currently creating a hot soup of quarks and gluons at RHIC. This higher energy density will allow scientists to study the evolution of this early-universe substance over a wider range of conditions than has been previously accessible at RHIC.

Head-on collisions with the uranium ions oriented vertically, like footballs prepared for a kick-off, are also of great interest: They will permit scientists at RHIC to separate the effects of extremely hot matter formed when two spherical gold ions overlap only partially on impact (forming a similar football-shaped interaction region) from effects of the ultra-strong magnetic fields produced in such non-head-on collisions.

At NSRL, scientists are interested in testing the effects of



A cut-away of the EBIS pre-injector. The central "trap" region, where electrons are stripped off atoms to create positively charged ions, is 1.5 meters long.

As with the gold ion collisions at RHIC, which have used less gold than is found in a single wedding ring over RHIC's ten years of operations, the amount of uranium used will be extremely small and not pose any radiation risk to either BNL staff or the public. "A handful of soil typically has more naturally occurring uranium than we'll be using in a year at RHIC," Alessi said. Also, EBIS will use the dominant naturally occurring form of uranium, U238, which cannot "split" and sustain a nuclear chain reaction as U235 can.



ions of noble gases like helium, neon, and argon, because these are common components of galactic cosmic rays and could pose a significant risk to astronauts on long-term space missions.

Another major advantage is that EBIS can feed beams of different ions to each facility at practically the same time. Said Alessi, "We can provide one type of beam to RHIC and, one second later, we can provide a different type of beam to the NASA program. We can switch back and forth between different types of beams quickly, so the two programs can schedule their experiments and run simultaneously, independently of

one another, rather than having to use the same kind of ions at the same time or plan their runs sequentially."

EBIS works by trapping atoms or ions in an electrically charged chamber inside a 1.5-meter-long cylindrical superconducting magnet. The voltage holds the charged ions in the chamber while an electron beam generated at one end passes through, systematically stripping electrons off the trapped atoms. For helium gas, there are only two electrons to be stripped off to create a beam of helium ions, where each has a 2+ charge. For gold — the heaviest ion collided at RHIC to date — the ions start off with one electron already stripped off, but they are held in the trap until 32 electrons have been removed, resulting in a beam where each ion has a net charge of 32+.

"The longer you hold the beam in the trap, the more electrons you can strip off," Alessi said. When the desired number of electrons is removed (that is, when the desired charge state has been reached), the voltage is turned off and the beam is released from the trap. The ion beams then move from EBIS...

See *Beam Source* on p.2

BNL Colloquium, 11/16

## The JACoW Collaboration: Accelerator Community's Open Archive

**John Poole of CERN will present the story of the development of JACoW activities and facilities from conception to today**

On Tuesday, November 16, John Poole of CERN, Switzerland, will present a talk at 4 p.m. in Berkner Hall on "The JACoW Collaboration: Creator of the Accelerator Community's Open Archive."

The Joint Accelerator Conference Website (JACoW) was originally created for the publication of the proceedings of the Asian, European and North American Particle Accelerator Conferences.

From the early ideas conceived at the beginning of the electronic publication era, JACoW has grown to become a global collaboration serving the international accelerator community.

Poole will describe the development of the collaboration from its birth — which has strong ties to BNL — and explain who and what it is today. JACoW provides much more than the website with its specialized search engine through event organization tools (Scientific Program Management System), automated proceedings production and support for conference organizers —

these features will be presented. Proceedings production and the reasons for the technical requirements for preparation of JACoW papers will be explained, illustrated by a number of examples. The talk will conclude with a brief look to the future in terms of development of the collaboration and its services and the question of long term archival.

John Poole started work at Daresbury Laboratory in the UK as an accelerator physicist and subsequently came to BNL to work on the Isabelle/CBA accelerator. With the demise of the CBA collider project, he left to go to CERN, where he worked on various accelerators including the Intersecting Storage Rings, the Super Proton Synchrotron, the Large Electron Positron (LEP) Collider, and the Large Hadron Collider.

While at CERN, he started electronic publication of the Chamonix LEP Performance Workshops, which led to the publication of EPAC96 on the web and subsequently, the idea of Ilan Ben Zvi of BNL...

See *JACoW Collab.* on p.2



CALENDAR  
OF LABORATORY EVENTS

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

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes

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

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

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

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

**Tuesdays: Zumba**  
Noon–1 p.m., in the gym (Bldg. 461). Registration required, Ext. 2873.

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

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

**Tuesdays & Thursdays: Aerobic Fitness**  
5:15–6:30 p.m. in the Rec. Hall (Bldg. 317). \$5 per class, or 10 classes for \$40. Pat Flood, Ext. 7886 or [flood@bnl.gov](mailto:flood@bnl.gov).

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

**Tuesday & Thursday: Aqua Aerobics**  
5:30–6:30 p.m., Pool (Bldg. 478). Registration required, Ext. 2873.

**Wednesdays: Ballroom Dance**  
5:15 p.m., 6:15 p.m., and 7:15 p.m. N. Ballroom, Brookhaven Center (Bldg. 30). <http://www.bnl.gov/bera/activities/dance/default.asp>.

**Wednesdays: Pilates**  
5:30–6:30 p.m. at the Rec Hall (Bldg. 317). Registration required, Ext. 2873.

**Wednesdays: Play Group**  
10 a.m.–noon. Meet at Rec Hall (Bldg. 317). Parents meet while infants/toddlers play. For events, see <http://www.meetup.com/BNL-Playgroup/>, or call Ext. 2873.

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

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

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

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

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

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

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

Beam Source from p. 1

...through two small linear accelerators that bring the beam up to the energy needed for injection into the next accelerator — the Booster and then NSRL or the Alternating Gradient Synchrotron and then RHIC.

The high charge achieved in EBIS greatly simplifies the entire acceleration process. “If you have more charge on the ion, then it gets higher energy for the same voltage in the accelerator. So by producing an ion with a charge of 32+ in the case of gold, the energy it gets across a fixed voltage is larger than it would be with a lower charge. Since you need lower voltage to accelerate the ions, then you can do this over a much shorter distance — 10 feet vs. about 80 feet in the Tandems — resulting in a more compact accelerator.”

That compactness along with the modern accelerator technol-

The Value of  
Tier 1 Safety Inspections

By Steve Kane, Safety Engineering Group Manager

We don't want you to worry about safety here at BNL.

Instead of worrying, we ask that you be aware of your surroundings as you go about the work you do every day. The purpose of our Tier 1 Safety Inspection program is to help you with that and is the overall goal of all Environmental, Safety & Health professionals here at the Lab.

A recent video featuring Keith Klaus, Safety Engineer for the Photon Sciences Directorate, demonstrates precisely what a Tier 1 Safety Inspection should be. He notes the all-important postings on work-area doors. He considers the work environment and makes recommendations for maintenance or repair before a problem occurs. He considers the real work process of the lab space and reminds the users to be vigilant.

And that's the most important lesson. Be vigilant. Its the small changes in our work space and environment that are the most insidious. Dramatic changes are easy to notice and therefore are the most obvious for priority remediation. But normal wear and tear to tools, surfaces, and other objects, or minor changes to a work process, are what we need to watch for most closely and what we need to take care of right away. Don't keep a list of safety concerns you need to address for a later date or time. Take care of those issues and concerns now. The result will be a safe and secure environment where you and your colleagues may conduct your work without risk of property damage and injury.

Tier 1 Safety Inspections are scheduled for offices and work spaces at different frequencies depending on the type of work conducted. If you have questions about safety in your work area, don't delay. Reach out to your ES&H coordinator or Field Safety Representative today and get the answers.

Learn more about BNL's Safety & Health Services at <http://www.bnl.gov/esh/shsd/>.



Watch the *Tier 1 Safety Inspection* video, filmed by Lab Videographer Alex Reben, on BNL's Safety website: <http://intranet.bnl.gov/safety>

ASERTTI Mtg. from p. 1

...of the largest photovoltaic solar array in the northeast U.S. on the BNL site. The 200-acre area will house a field of crystalline solar voltaic modules on 160,000 to 170,000 panels that will produce 32 megawatts of electricity for the Long Island grid. The project is expected to be completed next fall.

In addition to the BNL presenters, experts in energy-efficient buildings and the Superior Energy Performance standard looked at recent progress in the field. Brad Holomon from ASERTTI's Commercial Buildings Committee gave an overview of the newly expanded DOE Commercial Buildings Program. Hydrofracking, the capture of natural gas from shale using injection of water and chemicals under high pressure, and a particularly controversial topic in New York State this year, was discussed by Ron Edelstein of the Gas Tech-

nology Institute. Edelstein said that problems range from small, mom-and-pop operations flying under the regulatory radar, and larger companies wishing to guard information about what they inject for proprietary reasons.

On the lighter side, participants were treated to tours of the Lab's big machines, a wine and cheese reception at the Science Museum, and an afternoon of bike riding and winery tours.

“Hosting the ASERTTI fall meeting was a great opportunity to discuss research needs with state energy organizations,” said Bill Horak, head of BNL's new Department of Nuclear Sciences & Technology and the Lab's representative on ASERTTI for the past ten years. “In the future, the new Sustainable Energy Technologies Department under Pat Looney will serve as the focal point for BNL's interactions with these organizations.” — Kay Cordtz

ogies used in EBIS and the two linear accelerators will make the new pre-injector system easier to operate and maintain. “Once we finish commissioning and debugging the system, EBIS will be extremely reliable,” Alessi said.

EBIS will begin providing helium ions to researchers at NSRL this fall. The first uranium collisions at RHIC may take place as early as late winter 2010 or spring 2011. Meanwhile, and even after EBIS starts operating, the Tandems will continue to provide beams for a community of outside scientists who use that facility for dedicated research on electronic components for industrial and space applications.

“EBIS is a very compact heavy ion accelerator with many other possible applications than producing beams for RHIC. Its successful development is the result of the initial ideas and vision

of former Brookhaven physicist Krsto Prelec, the focused and dedicated research effort of Jim Alessi and his group, and also the support for long-term accelerator R&D from the DOE Office of Nuclear Physics within the Office of Science,” said Thomas Roser, Chair of BNL's Collider-Accelerator Department (C-AD).

EBIS was jointly funded by NASA and the DOE Office of Science.

“The construction of EBIS would not have been possible without the joint support of NASA Johnson Space Center and the DOE Office of Science,” said former C-AD Chair Derek Lowenstein, one of the key people who worked to make EBIS a reality. “It is a superb example of the ability of two funding agencies with differing mission needs to bring a state-of-the-art facility to fruition.”

— Karen McNulty Walsh

JACoW Collab. from p. 1

...for the creation of JACoW. From 1998, around 10-15 percent of Poole's time was allocated for electronic publication activities, which allowed him to work with the JACoW collaboration and help with the production of the proceedings for the EPAC series. Having retired from CERN in 2008, Poole is still an honorary staff member of CERN and is running a company that carries out scientific and technical editing, nuclear safety and licensing consultancy, and electronic publication of legacy proceedings on JACoW.

Service Anniversaries

The following employees celebrated a service anniversary during July 2010:

— 50 Years —	
Arnold Aronson.....	ES&T
— 35 Years —	
Asher Etkin.....	C-AD
Robert Doty .....	EE&NS
Peter Wanderer....	Nuc/Part.Phys.
Upendra Rohatgi .....	N&NS
— 30 Years —	
Michael White .....	Chemistry
Richard Wilke.....	Env.Scis
Dennis Reuter .....	En./Utils.
Peter Takacs .....	Instrum.
— 25 Years —	
Tracy Blydenburgh .....	C-AD
LawrenceVogt.....	C-AD
MichikoTanaka.....	ISD
Leonard Pharr.....	NSLS
D. Peter Siddons .....	NSLS
Christopher Jung....	Mod.Proj.Off.
Terry Jones .....	CEGPA
Eva Callister.....	P&PM
Isidro Garcia .....	P&PM
— 20 Years —	
Steven Bugros .....	C-AD
Gene-Jack Wang .....	Life Scis.
Mark Sabat .....	En./Utils.
Robert Petricek.....	S&HSvcs.
Kelly Backofen.....	CEGPA
Igor Pogorelsky .....	Physics
James Callihan .....	Site Svcs.
Monica Jackson .....	Training
— 10 Years —	
Ila Campbell.....	C-AD
John Guercio .....	C-AD
Ian Ballantyne .....	ITD
Andrew Ferguson .....	ITD
James Fung .....	ITD
Philip Marino.....	NSLS
Joseph Sullivan .....	NSLS-II
Yuke Tian .....	NSLS-II
David Free.....	Physics
Irina Sourikova.....	Physics
Gene Van Buren.....	Physics
Beth Evely .....	Qual.M
Geraldine Townsend....	Rad.Contr.
Stephen Townsend.....	Rad.Contr.

Arrivals & Departures

— Arrivals —	
Can Erdonmez.....	SET
Rubi Gul .....	NP&NS
Andrew James.....	CMP&MS
Vesna Stanic .....	Photon Scis.
— Departures —	
Pedro De Castro Faria Salgado .....	Physics
John Reddy.....	ITD

Defensive Driving:  
Two Parts, 11/1, 4

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday and Thursday, November 1 and 4, 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.lidrivesafe.com/>.

In Memoriam

**Frederick Altrui**, who joined the Supply & Materiel Division as a warehouseman on February 23, 1965, and moved to the Purchasing Division as a buyer in 1976, died at 69 on July 29, 2010. He had retired as a contracts administrator on March 31, 2000.

**Dominick Salimando**, who became an intermediate technician in the Physics Department on October 14, 1963, and retired from the Alternating Gradient Synchrotron Department as a technical associate I on May 14, 1993, died at 79 on May 26, 2010.

**Alessio Mezzina**, who joined the Department of Applied Science on March 20, 1978, as an engineer, and retired from that department on December 31, 1989, died on May 31, 2010. He was 86.

**Edward Erhardt**, who became a steamfitter A in the Plant Maintenance Division on October 9, 1961, and retired from the Plant Engineering Division on October 13, 1993, as a heating services supervisor, died on June 25, 2010. He was 77.

**Pierre Grand**, who joined the Mechanical Engineering Division on August 1, 1964, as an associate mechanical engineer, and retired from the Department of Nuclear Energy on May 31, 1990, as a mechanical engineer, died on July 1, 2010. He was 78.

**Richard Tache**, who became a pile operator trainee in the Reactor Division on June 24, 1963, and rose to a technician IV before his retirement on September 29, 1995, died on July 2, 2010. He was 71.

**Lewis Friedman**, who joined the Chemistry Department as an associate scientist on October 1, 1948, and retired after almost 48 years on April 30, 1996, died at the age of 88 on September 10, 2010. He had been named a chemist with tenure in 1952, and was made a senior chemist in 1964. After retiring, he served as a guest consultant until June 1997.

**Richard Watson**, who joined the Physics Department as an associate physicist on June 1, 1965, and retired on January 15, 2002, died on September 13, 2010. He was 78. He had been named a physicist in 1968, received tenure in 1969, and was made a senior physicist in 1978. From December 1, 2002, to November 30, 2005, he was a science consultant to Physics.

**Kenneth Riker**, who came to BNL as a junior technician on January 30, 1961, and after joining the Alternating Gradient Synchrotron Department in 1966 and moving to the National Synchrotron Light Source Department in 1984 as a senior technical specialist, died at 79 on September 18, 2010. He had retired on July 6, 1992.

*Families, friends, and colleagues are asked to send their memories of life experiences, contributions, and achievements of BNL retirees or employees who have died to appear in the BNL Obituary page on the web. To enter an obituary, e-mail the article and photo to [bulletin@bnl.gov](mailto:bulletin@bnl.gov), with “Obituary” in the subject head. If you are unfamiliar with e-mail and need assistance, contact Liz Seibert, Bldg. 400C, (631) 344-2346.*





# A Special Moment With a Lab at the Lab

Daisy Yuhas, an intern working in the Community, Education, Government, & Public Affairs Directorate, enjoyed a special moment with a yellow Labrador retriever, just one of the puppies-in-training from the Smithtown Guide Dog Foundation (GDF), when the puppies visited the Lab on October 8 as part of a training exercise.

“There were so many dogs — poodles, black labs, yellow labs, and a German shepherd,” said Yuhas. “It was hard to decide which one to hug first!”

With logistical help from David Peter and Brian Buckheit of the Lab’s Protection Division, employees of the GDF,

together with volunteers and dog handlers, have visited the Lab on several occasions as part of a training program for these special pooches.

“The Lab is a perfect place to begin training the dogs in how to act in crowds and perform simple exercises like crossing the street,” said Buckheit. “I want to thank everyone in my department and at the Lab who helps us coordinate these visits. I know the GDF greatly appreciates our efforts.”

In about a year, once their training is completed, these special dogs will be given to visually impaired individuals.

— Jane Koropsak

## Exhibits Needed: BNL Art/Crafts Show, 11/22-24

BNL artists, photographers, sculptors, and crafters — exhibits are needed for the Art Society’s show in Berkner Hall, Room B, 11/22-24, 11:45 a.m.-1:30 p.m. Employees, retirees, facility users, guests, and family members 15 years and older may contribute up to three pieces. Pictures and photos must be fully ready to hang. Bring exhibits to Room C, Berkner Hall, on Friday, 11/19, 2-4:30 p.m. To register, send your name, home phone, Lab Ext., BNL contact name, the type of your art/craft; and give its title if you have one, to Bob Chrien, [chrien@bnl.gov](mailto:chrien@bnl.gov) or Bldg. 510A, or to Liz Seubert, Bldg. 400, [lseubert@bnl.gov](mailto:lseubert@bnl.gov), by Monday, November 8.

## BERA Trips

Buy tickets at the BERA Store in Berkner Hall, weekdays, 9 a.m.-3 p.m. Tickets are non-refundable. For more information, see <http://www.bnl.gov/bera/recreation/events.asp>

**Christmas Spectacular at Radio City:** Sun., Dec. 5. Leave BNL at 9:30 a.m., and leave after show at about 4 p.m. \$80 per person\* includes bus, ticket, and about three hours to do as you please.

**BERA Holiday Party:** Fri., Dec. 10, at Rock Hill Country Club in Manorville. Tickets are \$55 each and include a full open bar, dinner buffet, DJ dancing, and door prizes. Dress up and meet your friends there for a fun evening.

**NYC-Do-As-You-Please Trip:** Sunday, December 12. The drop-off and pickup location will be in the Bryant Park area, between 40th and 42nd Streets and 5th and 6th Avenues. Leave BNL at 11 a.m., and leave NYC at 7 p.m. \$15 per person\*, adult or child.

\*Children under age 2 go free if they sit on a parent’s lap.

## BSA Noon Recital, 11/3 Pianist Vassily Primakov

Pianist Vassily Primakov will perform works by Chopin and Rachmaninoff on Wednesday, November 3, at noon in Berkner Hall. Sponsored by BSA, the concert is free and open to the public. Visitors to the Lab of 16 and older must bring photo I.D.

Keyboard virtuoso Primakov came to New York at 17 to pursue studies at the Juilliard School. There, he won the William Petschek Piano Recital Award, presenting his debut recital at Alice Tully Hall. He won both the Silver Medal and the Audience Prize in the 2002 Gina Bachauer International Artists Piano Competition, and also won First Prize in the 2002 Young Concert Artists International Auditions. In 2007, he was the Classical Recording



Foundation’s “Young Artist of the Year,” and in 2009, his *Chopin Mazurka* CD was named “Best of the Year” by National Public Radio.

— Jane Koropsak

## Access Restrictions for Solar Farm Construction

BP Solar and its contractors will soon begin construction of the 200-acre Long Island Solar Farm on BNL site. This exciting new project — the largest of its kind in the Northeast — will bring Long Islanders a significant source of renewable energy and provide the Lab with unique opportunities for research. However, during construction, a large portion of the southeast part of the site is closed to Lab employees who bike, walk, or run there. Brookhaven Avenue will be closed east of the former Waste Management area and that closure will extend north to East Fifth Avenue, effectively closing off the former Biology Fields area. This area will be under control of BP Solar and its contractors and, as with any construction area, will be off-limits to all employees who are not authorized by DOE or BP Solar to be there. As a quick guide:

- **S. of Princeton Avenue and along the S. Boundary Road: open.**
- **S. of the ball fields to E. Princeton Avenue: closed**
- **Brookhaven Avenue E. of the former Waste Management Area: closed**
- **E. Fifth Avenue E. of First Street: closed**
- **E. Fire Break S. of E. Fifth Avenue: closed**
- **Gate at North Street: This is BP Solar’s construction entrance and may not be used by BNL employees.**
- **Firebreak roads between S. Sewage Treatment Path and E. Fifth Avenue will be blocked off at E. Fifth Avenue.**

See map below.

After construction is complete next year, Princeton Avenue, South Boundary Road, the East Fire Break, Brookhaven Avenue to South Boundary Road, Prince Path, and East Fifth Avenue will all be re-opened for general use. Each of the six units of the Long Island Solar Farm will be independently fenced for safety and security reasons.

For more details, see the Monday Memo of October 25.

## Brown Bag Lunch About Solar Farm, 11/5

BNL employees who are interested in learning more about the project are invited to a brown bag lunch meeting on Friday, November 5, from noon to 1 p.m., in the Hamilton Seminar Room, Chemistry, Bldg. 555. At the meeting, BNL’s Mark Toscano will provide a project overview and answer questions.

## CALENDAR

### — WEEK OF 11/1 —

#### Monday, 11/1

**\*Defensive Driving, Part I**  
6-9:15 p.m. Brookhaven Center South Room. Preregistration required. See p.2.

#### Wednesday, 11/3

**\*BSA Noon Recital**  
Noon. Berkner Hall. See left.

#### Thursday, 11/4

**\*Defensive Driving, Part II**  
6-9:15 p.m. Brookhaven Center South Room. Preregistration required. See p.2.

#### Friday, 11/5

**\*Brown Bag Lunch on Solar Farm**  
Noon-1 p.m. Hamilton Room, Bldg. 555. All are welcome. See notice below, left.

### WEEK OF 11/8

#### Friday, 11/12

**BrookhavenSphere/ITD Seminar**  
11 a. m. Conference Room, Bldg. 490. Victor Skormin, Binghamton University, will talk on “Emulation of Active Immune Response in a Computer Network.” STIXNET, a virus, will also be discussed. All are welcome. For more information, see <https://brookhavensphere.bnl.gov/wiki/index.php/>

### WEEK OF 11/15

#### Tuesday, 11/16

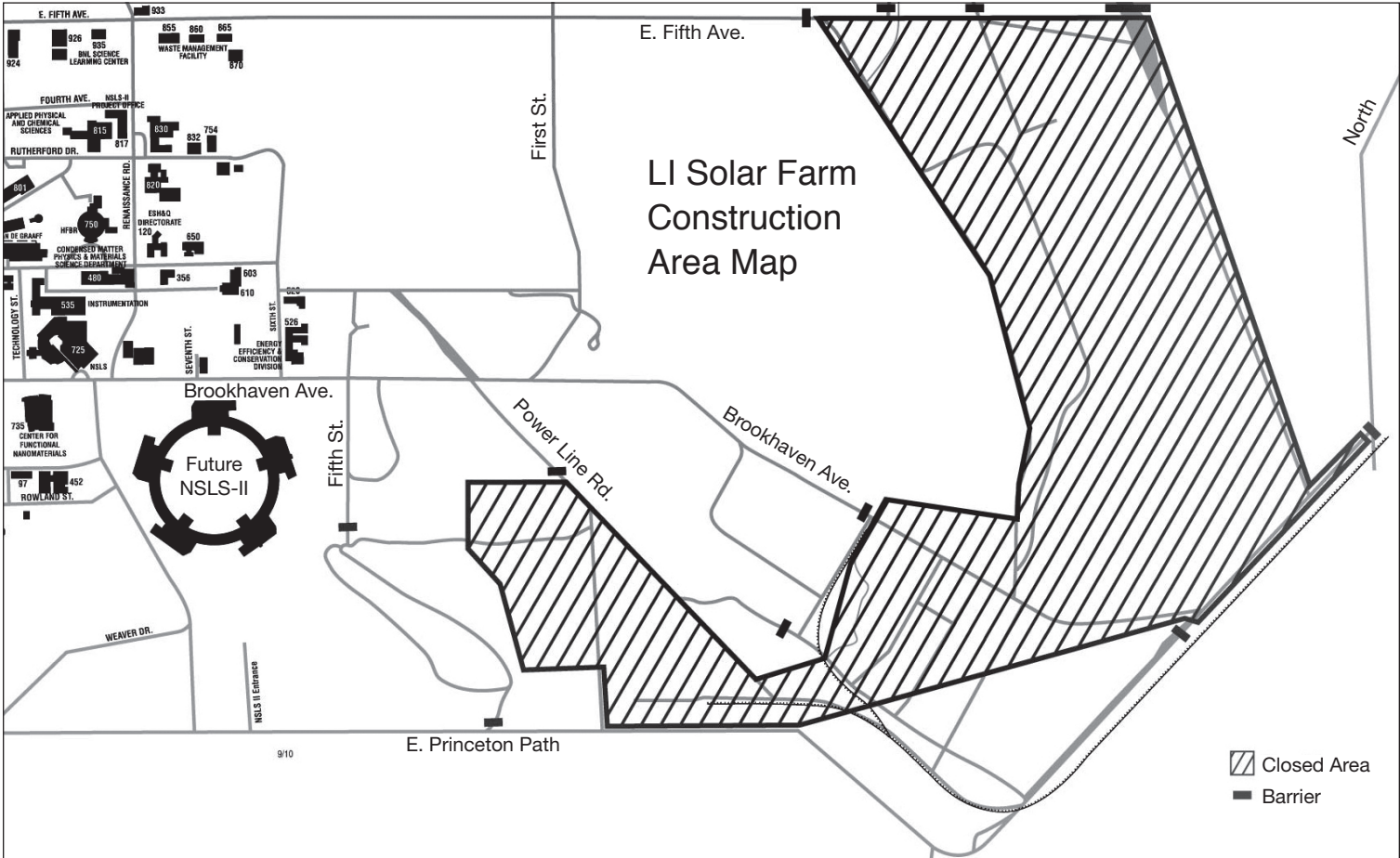
**\*Voyage: Northwest Passage**  
Noon. Berkner Hall. Retiree Eric Forsyth will show a video of his 11-month cruise through the Northwest Passage and beyond. All are welcome. See p.4.

**\*BNL Colloquium on JACoW**  
4 p.m. Berkner Hall. John Poole of CERN, Switzerland, will talk on “The JACoW Collaboration: Creator of the Accelerator Community’s Open Archive.” All are welcome. See story, p.1.

#### Wednesday, 11/17

**BSA Noon Recital**  
Noon. Berkner Hall. Stony Brook Opera will perform opera scenes. This free event is sponsored by BSA and open to the public. Visitors to the Lab of 16 and older must carry a photo I.D.

**463rd Brookhaven Lecture**  
4 p.m. Berkner Hall. Joseph Indusi, Nonproliferation & National Security Department, will talk on “It’s No Secret: 58 Years of National Security Programs at BNL.” All are welcome.





## Classified Advertisements

### Placement Notices

Access many more current job openings at [www.bnl.gov/HR/jobs](http://www.bnl.gov/HR/jobs) and see also <http://www.bnl.gov/HR/careers/>. To apply for a position, go to [www.bnl.gov](http://www.bnl.gov). Select "Job Opportunities," then Search Job List."

**LABORATORY RECRUITMENT** - Opportunities for Laboratory employees only.

**PESTICIDE APPLICATOR** - Apply pesticides and assist in animal control in accordance with Integrated Pest Management Practices. Must be a driver C/C 531 and meet the requirements of the Job Assessment form. Individual will perform duties and responsibilities of a Driver and participate in Driver OT opportunities in accordance with the OT List. Must satisfactorily complete the required 30-hour core course of instruction and core exam and the required 10-hour category specific instructional exams. Site Services Division Please submit Employee Transfer form to Diana Hubert, Bldg. 400B referring to Job ID # 15554

### Motor Vehicles & Supplies

06 HONDA ACCORD GXL - 61K mi. Heated seats, leather, multi-CD. \$12,950. Rhonda, 516-443-1043.  
04 GRAND MARQUIS GS - 70K mi. Silver Gray, leather interior, garaged, well maintained. \$7,800 neg. 588-5670.  
02 MAZDA MPV - 128K mi. minivan, a/c, a/t, p/w, p/d, p/m, new mats/cat-conv. Mst sell, moving 413-4406. \$3,500 neg. Ext. 4073.  
00 HYUNDAI ELANTRA WGN - 118K mi. GLS, p/l, p/w, a/c, CD, vgd mech cond, smll cosmetc dmge. \$700 neg. bathe@bnl.gov.  
99 VW CABRIO - 76K mi. Mech. sound, new timg belt, brakes,low mileage. Leather int. \$4,500 neg. Ext. 4720, 775-0828].  
98 SATURN SL2 - 18.4K mi. 4 dr, 4 cyl, a/t, power windows, locks, alarm, dk blue. \$1,300. 466-7139.  
97 FORD F 150 - 148K mi. White, 2 door, well maintained. \$2,500 neg. Beth, 344-3552 or epetersen@bnl.gov.  
CARGO COVER - for 1996 and similar year Subaru Impreza Outback models. Stephen, Ext. 4475 or plate@bnl.gov.  
LADDER RACK - Hvy dty for 6'6" short bed. Over-the-cab arm is for a 3 dr f350. Removable back arm. \$500. Ext. 8363.

### Marine Supplies

BOAT TRAILER - Tandem Axle Trailer / Disc Brakes. StarBoard. 4,800 lbs. 21' - 24'. 32 roller. Vg cond. \$1,100. Ext. 2599.

### Furnishings & Appliances

ARMOIRE - Grt cond. Med. wood finish. w/4 drawers - two inside, two outside. 38"x w x63"h x18"d. Pics. \$50. Kris, Ext. 7850.  
BED - double, excellent condition, photo available, u-pick-up in Queens, \$50. Diane, Ext. 2347 or greenb@bnl.gov.  
CLOTHES RACK - in chrome w/beige cloth protective cover/\$20. Pics available. Nina, Ext. 5894, 475-1297.  
COFFEE TABLE - Ikea, light wood, 36"x22"wx18"h, gd cond, photo available, \$10. Ext. 8191 or ksnyder@bnl.gov.  
COMPRESSOR - for home air conditioner; nearly new, \$150 or best offer. Michael, 878-9020 or sivertz@bnl.gov.  
COMPUTER TABLE - barely used, from Ikea, \$80/obo. Ext. 3387, abagaria@bnl.gov.  
COUCH, LOVESEAT & TABLES - multi-colored, cranberry and brown, pics available, \$750. Rhonda, 516-443-1043.  
DANCE SHOES - Girls black hip-hop sz. 6, Artstone tap shoes w/heel, tan sz. 7.5 and 9. vg condition. \$5 each. 645-1349.  
DESK - Gray, melamine, 30"dx45"w, 2 drwrs (one can hold files). Ask \$50. pics avail. gacks51@hotmail.com. 821-2507.  
DINING TABLE - w/six chairs, & extension leaf. Two host chairs have arms. Ask \$120/obo. Ext. 3387, abagaria@bnl.gov.  
DISHWASHER - SS interior, best offer; Range hood,\$5; Double-sided Fireplace. Karl, Ext. 3116.  
ELECTRIC GRILL - Indr/Outdr, gd cond, clean. 30\$. TV 26" Sharp, works well, 25\$. Carmit, 413-4407, cpelleg@bnl.gov.  
IKEA GLASS-DOOR DISPLAY CABINET - Brand new, w/all parts, black-brown color. ask \$45. Scott, Ext. 2991, syuan@bnl.gov.  
KITCHEN ITEMS - 4-cup coffee maker and a mixer/grinder for sale. Both go for \$50/obo. Ext. 3387 or abagaria@bnl.gov.  
LIVING ROOM - Incls 2 pc sectional sofa, 2 end tables, 1 coffee table, a two-pc wall unit & 2 table lamps. Best offer. 588-5379.  
LOVE SEAT - Off-white fabric, 62"l x35"w x27"h, picture available, \$20. Ext. 8191 or ksnyder@bnl.gov.  
LOVE SEAT & COFFEE TABLE - One love seat for \$60/obo and three coffee tables for \$50/obo. Ext. 3387.  
MATTRESS - Tempurpedic Delx, q/sz, used 2 yrs, v/gd cond, w/cover. w/or w/out platform bed. U-pic-up. \$700. Ext. 7114.  
OAK DINING TABLE - antique, ca. 1920. Diam. 54 in., w/pedestal, cntr leg. Ext to 10 ft. w/6 leaves, to seat 10-12. \$800. 878-0898.  
OAK HALL TREE - excellent cond, pics on request, asking \$300. 744-4847.

PLATFORM BED/HEADBOARD - Qu. 2 pc. platform, storage hdbrd, white formica. \$50. 645-1349.

RECLINER - green, excel cond, photo avail, u-pick-up in Queens, \$50. Ext. 2347.  
SHOWER/TRANSFER BENCH - for handicapped, like new, \$10. Ext. 7114.

SOFA, LOVESEAT, FUTON, - sofa,\$50; l'seat, \$50; futns qu. (\$20) & tw. sz (\$20); maple frame(\$50), will help move. Milind, Ext. 3327.

TV - Toshiba tube TV, gd cond, 22-in screen, 25 ins wide. \$20. Ext. 8191 or ksnyder@bnl.gov.

TV/VCR - 27" RCA, grt cond. 834-9655.

### Audio, Video & Computers

42" LCD TV - Insignia. 5 mos old. \$600/obo; TV table, \$80/obo. Sony Music syst & Samsung DVD, \$50. Ext. 3387.

CAMERA - Kodak Play Sport camera, brand new, unopened. \$100. 928-5185.

IPAD/MACBOOK PRO - iPad 64gig Wi+3G: \$600. MBP: 17" scrn. OS 10.5, 2.66GHz, 4GB Mem, 320GB HD. \$1500. 291-0580.

WIRELESS NETWORK CARD - PCI adaptor, works w/wireless b, g or n, in orig box w/install CD & manual, \$10. Ext. 2913.

YAMAHA KEYBOARD/KARAOKE - Ymaha PSR-K1 61 Keys Karaoke keyboard ask \$200. 379-0742 or rrje4019@msn.com.

### Sports, Hobbies & Pets

CROSS-COUNTRY SKIS - set for boot sz 41mm (US 7.5-8), poles, skis, boots. Gd beginner set. Ask \$69 all. 284-6008.

INCLINE WORKOUT BENCH - Ladies Danskin w/weights (3 to 8 lbs.)excel. cond ask \$75. 744-4847.

PAINTBALL KIT - \$70 - Hard plastic case incl. gun, hopper, 20 oz. CO2 can, oil, barrel, cleaner. Lee, Ext. 5866, 718-838-0799.

PRO PHOTO BACKPACK - Think Tank Rotation360. Mint. Incl rain cover. See it: [www.rotation360.com/](http://www.rotation360.com/). \$225. Ext. 3584.

SKI BOOTS, SKIS - Wmen/jr Ski bts: Lange Comp70 - szs 7, 8.5, 10, \$30 ea. Skis: Fischer (137cm); Elan(150 cm), \$30 ea. Eli, Ext. 7179.

SKI JACKET - Columbia, ladies L, worn once, fuschia outer, sep inner purple fleece, teal green trim, pic avail. \$80. Ext. 7114.

SURFBOARD - Natures Shapes, 6'8" Quad Fish, Model Q82,custom epoxy, pics, ask \$325. Scott, sbrnson@bnl.gov.

WATER SKIS - YOUTH - O'Brien Youth Water Skis. Excel cond. \$40. Ext. 2599.

WOOLRICH HUNTING COAT - Blaze orange, size XL w/game pouch in back. Worn once, \$75. Tony, Ext. 6153, 516-971-0164.

### Tools, House & Garden

16' WERNER EXTENSION LADDER - Aluminum D716-2, max workg lngth 13', excel cond. \$48.00. Linda, Ext. 2733, 395-6784.

DEWALT 6-1/2" SAW 18 VOLT - Model DW939 6-1/2"18V circ saw w/charger. Good cond. \$45. Ext. 6153, 516-971-0164.

SCROLLING SABER SAW - NEW Craftsman, Light, blades, edge guide, bag. Many features. Ask \$45. Mike, Ext. 2947.

SEWING MACHINE - Kenmore, full-size, gd cond, serviced 3 years ago, not used much since. \$25. Kathleen, Ext. 7114.

### Miscellaneous

125 GAL AQUARIUM - still being used. \$300 for tank & metal stand. Many extras, may sell if price is right. William, 484-9888.

BOOK - Aesthetic smile-makeover guide. An enlightening guide in oral aesthetics to plan smile makeover. \$75. mjones@bnl.gov.

AMAZON GIFT CERTIFICATE - \$225 sell for \$210. 456-1753.

COMFORTER SET - Yellow, orange, pink, w/throw pillow, white netted ceiling tent, \$25. Set/4 corner shelves \$10. 645-1349.

BOY'S SUIT - Navy blue, jacket & pant sz. 10 slim, white dress shirt sz. 8. Used 1x. vg condition \$20 all. 645-1349.

N. ROCKWELL REPRODUCTION - Authorized canv. of "Mainstreet at Christmas" 30"x9" incl. frame, ask \$99. 284-6008.

PIANO - Upright. Needs tuning. Best offer. 588-5379.

SHOES - 2 prs new ladies' high-heel patent shoes, sz 9W, 1 red, 1 white, \$15/both pairs. Kathleen, Ext. 7114.

YOUTH GUITAR - Brand new - child never used it. \$70. Pamela, Ext. 5218 or ciufo@bnl.gov.

### Community Involvement

HOLIDAY ADOPT A FAMILY - Habitat for Humanity is looking for individuals, groups, or organizations to adopt a Habitat family for the holidays. Beth, 924-4966 or beth@habitatsuffolk.org.

THANKSGIVING BASKET PROGRAM - Habitat for Humanity seeks donations of food baskets and \$\$ to provide families a tradit. holiday meal. Beth, 924-4966.

THANKSGIVING FOOD DRIVE - To benefit local soup kitchen. Items needed: canned veggies, instant potatoes, stuffing, gravy, cranberry sauce, mac & cheese, rolls, dessert, turkey coupons, etc. jenn@bnl.gov.

### Free

TREADMILL - Pro-form Cross Walk MX, large, 9 yrs old, works well. Must pick up in East Quogue. setlow@optonline.net.

### Wanted

BOAT STORAGE - Looking for a safe location to store a 22" boat on a trailer for the winter. Ext. 3965, 655-5080.

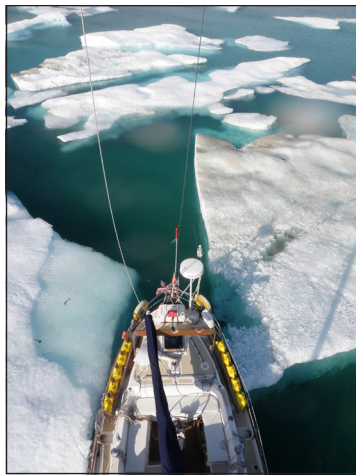
DOG CRATE - Looking for a good used dog crate. Charlie, Ext. 4736.



## BREA Video at Noon, 11/16 Forsyth & Fiona Challenge Northwest Passage

On Tuesday, November 16, at noon in Berkner Hall, retiree Eric Forsyth will present a video depicting his 11-month cruise in his yacht, *Fiona*. The voyage took him from Long Island to Greenland, the Northwest Passage, and through the Bering Strait to the Aleutian Islands. From there, the boat sailed across the Gulf of Alaska to

San Francisco. After a brief stopover, the cruise continued to Mexico, Costa Rica, the Panama Canal, Colombia and home through the Windward Passage, thus completing a circumnavigation of North America. Frequent reference is made to early explorers who pioneered the discovery of the Northwest Passage.



There are exciting scenes, Forsyth says, as *Fiona* became trapped in pack ice for three days. All are welcome to this presentation, sponsored by the Brookhaven Retired Employees Association, BREA.

As all sailing adventurers who have seen Forsyth's earlier videos of his voyages will agree — don't miss it!

## Benefits Open Enrollment Continues Until 11/22

Open enrollment for medical and dental benefits, reimbursement accounts (health care, dependent daycare and transit commuter), life insurance, and the vacation buy plan continues through Monday, November 22. During this time, eligible participants may add or drop medical and/or dental coverage, change from one medical plan to another, add/drop family members covered, and/or sign up for the reimbursement account(s), life insurance, and the vacation buy plan. All changes made during the open enrollment period are effective January 1, 2011. For more information, visit <http://intranet.bnl.gov/memo/mmm.asp?IssueId=181&StoryId=2>.

### Extension of Dependent Medical Plan Coverage to Age 26

During 2010, dependent children have been covered under the BSA Medical Plan up to age 19. For those over age 19, proof of full-time student status has been required, and the maximum eligibility age was 23.

Eligibility for medical coverage for children under the BSA Medical Plan will change on January 1, 2011 under the Patient Protection and Affordable Care Act (commonly known as National Healthcare Reform). Beginning January 1, you will be able to enroll your child(ren) (up to age 26) whose coverage ended (or were not eligible for coverage) due to the limits indicated above.

Your child does not need to reside with you, does not need to be in school, can have medical coverage through their employer, and can be married.

In order to enroll your child in the plan, you must also be enrolled in the plan. If you are not currently enrolled in the Medical Plan, you may enroll yourself and your child during the Annual Open Enrollment period (with such elections effective January 1, 2011). Your child would be enrolled as your dependent under the insurance company that you select for yourself. You and your child must have the same coverage.

This year, the Annual Open Enrollment period began on Friday, October 22, and continues through Monday, November 22. Coverage will begin on January 1 and will continue until your child attains age 26 or, if earlier, the date the coverage would otherwise end under the terms of the plan. For more information, go to the Benefits website or contact the Benefits Office at Ext. 5126 or 2877.

If you enroll a child who has not been previously enrolled for medical coverage, a copy of the birth certificate or adoption papers is required before the enrollment can be confirmed. Such proof must be provided to the Benefits Office, Bldg. 400B, no later than November 30, 2010.

### In Appreciation

The family of Gertrude Spiro wishes to thank everyone for their kind expressions of sympathy at this difficult time.

### On-Site Service Station

The 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.

On the Web, the Bulletin is located at [www.bnl.gov/bnlweb/pubaf/bulletin.asp](http://www.bnl.gov/bnlweb/pubaf/bulletin.asp). A calendar listing scientific and technical seminars and lectures is found at [www.bnl.gov/bnlweb/pubaf/calendar.asp](http://www.bnl.gov/bnlweb/pubaf/calendar.asp).

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