

## Northeast Power Outage Hits BNL

On August 14, 2003, at approximately 4:10 p.m., BNL experienced a complete loss of power. This loss was a direct result of the widespread power disruption that affected much of the Northeastern United States and Canada.

Upon loss of site power, all the fire alarm panels came into alarm. The immediate action of the Fire/Rescue Group was to respond to two 911 calls reporting a smell of smoke, and three automatic fire alarms. Then they and Plant Engineering Fire Alarms electricians investigated and silenced scores of other alarms. Brookhaven Standard Operating Procedure for Loss of Site Power was implemented.

This excerpt from the Lab's Occurrence Report on the great blackout of last week set the scene for much activity.

Lab management activated an "Emergency Operations Facility" (EOF) in the Firehouse, which has 100 percent backup power coverage from diesel generators. Mike Bebon, Assistant Laboratory Director for Facilities & Operations, arrived at about 4:30 p.m. and took charge as Crisis Manager, and reports came in from all over the Lab and elsewhere so that informed decisions could be made about handling the power outage.

Others at the EOF included

Lab Director Praveen Chaudhari, and three of the other designated crisis managers: Deputy Lab Director for Operations Tom Sheridan, Assistant Lab Director for Finance & Administration Brian Sack, and Non-proliferation & National Security Department Chair Joseph Indusi. DOE Representative Frank Crescenzo of DOE's Brookhaven Area Office was

*"I was deeply impressed by the dedication of the emergency team. There were many serious decisions to be made in real time, and they were made with calmness and maturity."*  
— Praveen Chaudhari

present, as were Lab Emergency Supervisor Frank Marotta; Assistant Lab Director for Community Involvement, Education, Government and Public Affairs Marge Lynch; Plant Engineering (PE) Representative Lance Warren; Assistant Lab Director for Environmental Safety & Health and Quality Jim Tarpinian; and Security Representative Len Butera.

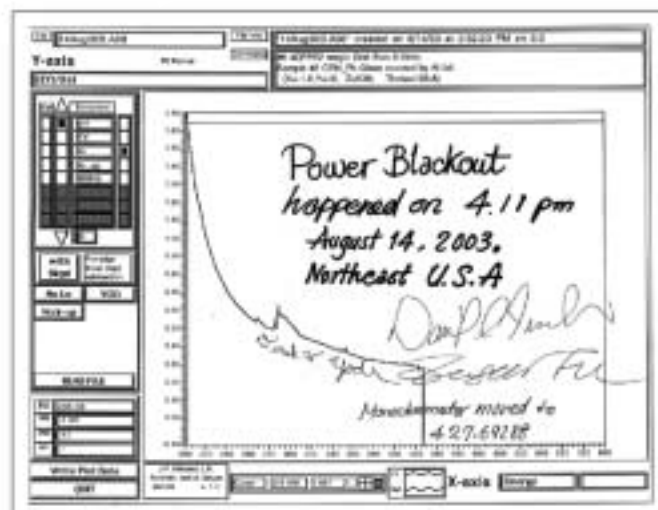
Said Bebon, "The Lab holds frequent practice emergencies, and although each event brings unique problems, having a well-organized team with established

roles makes any crisis easier to manage. Everyone did a good job and I was very proud of the way many difficulties were handled, especially by our people out in the field."

Just a few of the areas of potential concern were: life safety — was anyone on site trapped in an elevator? Were all security systems functional? Would lack of power to the condensate pumps flood the steam system? What about food and light for apartment area residents and emergency staff? Should visitors at the gates be sent home? What should be done about the clearance lights out on the meteorology and water towers?

"One extended question involved the Lab's opening hours on Friday," recalls Bebon. "A 3 a.m. call on Friday morning to Suffolk County's Emergency Operations Center told us that about 25 percent of traffic signals were still out on Long Island. We had 13 megawatts (MW) of power at 4:10 a.m., and LIPA believed that they could continue to supply more throughout the morning. I rang the Director, who had been at the EOF until late Thursday evening and was in touch by phone during the night. Based on what we knew at the time, he decided to open the Lab at 1 p.m."

Data graph from beam line U7A showing data drop to zero as power blackout hits the National Synchrotron Light Source.



The message on 344-INFO was updated and radio stations and others notified that BNL was closed until 1 p.m. except for essential personnel.

But, at 5:10 that morning, a LIPA system operator reported that BNL could expect no more than 13 MW for the rest of the day. LIPA was experiencing difficulties in starting up its units at Northport, Port Jeff, and Island Park. Their system-wide capacity was reduced by 1,200 MW. It was evident that opening the Lab would exceed the 13 MW limit, Bebon thought.

Crescenzo then relayed a message from DOE HQ requesting that the Lab remain closed all day on Friday. After a phone call to DOE Office of Science Director Raymond Orbach, Chaudhari extended the closure time to 5 p.m.

At about 12 noon on Friday, EOF staff, including Bebon, who had been at his post since the previous afternoon, were relieved by a new shift, headed by Sheridan as Crisis Manager.

Meanwhile, out in the field, much was happening:

### Richard Heese, Head of Operations, NSLS:

We lost power at 4:10, and I could hear the diesel generator start up immediately. The emergency generator keeps the vacuum pumps going, so we never lost vacuum. If that happens, we have to recondition the machine, which takes a good week.

PE keeps the tank full on the diesel generator. It also gives us power for emergency lights. Our computers are on UPS [uninterrupted power supply]. So we  
(continued on page 4)

## Schaefer to Head Rad Control

Charles Schaefer has been named manager of BNL's Radiological Control Division. A certified health physicist, that is, a scientist who specializes in radiological protection, Schaefer has 17 years of experience in health physics-related fields.

BNL formed the Radiological Control Division in 1999 to improve and raise the prominence of radiological control programs at the Lab. As head of the division, Schaefer is responsible for controlling, preventing and limiting exposure to radiation on the Lab's 5,300-acre site.

Says Schaefer, "Brookhaven is internationally recognized as a center of scientific excellence, and we need to insure that we maintain that same level of quality in all our operations. Although we already meet the required standards, I will work hard to make BNL a model of excellence in the area of radiological protection."

Schaefer earned a B.S. in Physics and Astronomy from the State University of New York at Stony Brook and an M.S. in Health Physics from the University of Florida. From 1986 to 1991, he supervised the operation of a Navy submarine pressurized water reactor, then worked as a radiochemical analyst for Environmental Physics, Inc. of Charleston, South Carolina, 1991-1993.

Schaefer joined the Lab in 1994 as a research associate, and became a technical supervisor in 1995. His primary responsibilities included implementing a comprehensive radiological protection program at the Relativistic Heavy Ion Collider, and supervising a team of radiological control technicians.

In 2001, he was promoted to Manager of the Facilities Support Section. Now, as the new manager of the Radiological Control Division, he will supervise a staff of 85 professional, technical and administrative staff, with a budget of about 9 million dollars.

— Jane Koropsak



Roger Stoutenburgh 00030803

## Nine Brookhaven Scientists Awarded Tenure

Brookhaven Science Associates granted tenure on June 1 to nine Brookhaven scientists. They are: Mark Baker, Chemistry Department; Leslie Bland, Physics Department; Christopher Homes, Physics; Jean Logan, Chemistry; Ron Pindak, National Synchrotron Light Source Department; David Schlyer, Chemistry; Subramanyam Swaminathan, Biology Department; Dejan Trbojevic, Collider-Accelerator Department; and Gene-Jack Wang, Medical Department. The Bulletin will feature a description of the accomplishments of each of the recent tenured scientists over the next few weeks.

### Ron Pindak

For his outstanding contributions and sustained high-quality original research in the study of complex fluids, with particular emphasis on liquid crystals, Ron Pindak, National Synchrotron Light Source (NSLS) Department, has been awarded tenure.

"Ron consistently picks fundamentally important problems to work on and has an ability to design experiments to get at the heart of an issue," said Steven Dierker, NSLS Chair and Associate Laboratory Director for Light Sources. "He has amply demonstrated the versatility and expertise to practice whatever technique is necessary, sometimes by collaborating with others to learn the technique before applying it on his own, and in other cases by playing a lead role in developing a new technique."

Pindak's early work in forming freestanding liquid crystal films led to his experimental verification of the hexatic phase, a new state of matter with order intermediate between that of a liquid and of a solid. Later, he and collaborators discovered and characterized the "Twist Grain Boundary Phase," the liquid crystal analogue of the Abrikosov flux lattice in superconductors with screw dislocations playing the role of flux vortices.

Pindak joined BNL in 2001 as a physicist after a distinguished 24-year career at Bell Laboratories. During his career at Bell Labs, he had led a collaboration at the NSLS which pioneered the use of resonant x-ray scattering to elucidate molecular order in chiral ferri- and antiferro-electric liquid crystals.

This required working in a low-energy x-ray region where air is very absorbing, so special instrumentation, a goniometer and x-ray polarization analyzer, which would operate in a helium atmosphere, had to be designed and constructed.

Said Dierker, "The unique insight provided by the measurements established by Ron's work has provided the motivation for developing this capability as a standard technique for the user program on one of the NSLS low-energy x-ray beam lines."

Most recently, Pindak has been a key contributor to the development of the Coherent Bragg Rod Analysis technique, which measures the phase of x-rays scattered by two-dimensional structures, such as epitaxial films or interfaces, to allow an absolute determination of the atomic positions. He is now exploring whether this technique can be extended to study two-dimensional protein crystals.

In addition, since joining the NSLS, Pindak has headed the Science Program Support Section of

the User Science Division, and taken the lead in developing a soft condensed matter program. He also served as the Interim Associate Director for the BNL Nanocenter. Currently, together with Lin Yang, he is developing a small angle x-ray scattering beam line and starting soft matter and biophysics research relevant to understanding nanoscale device fabrication and operation.

Pindak received his Ph.D. in physics from the University of Pennsylvania in 1975.

— Liz Seubert



Roger Stoutenburgh 02107025



Calendar  
of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (\*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See [www.bnl.gov/esol/schedule.html](http://www.bnl.gov/esol/schedule.html) for schedule. Jen Lynch, Ext. 4894.

Mon., Tues., & Thurs.: Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Christine Carter, Ext. 2873.

Mon., Thurs., & Fri.: Tai Chi

Noon- 12:45 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or [rusek@bnl.gov](mailto:rusek@bnl.gov).

Mondays: BNL Dance Club Ballroom, Latin & Swing Practice

5:30-7 p.m. North Ballroom, Brookhaven Center, except Lab holidays. Jean Logan, [jlogan@bnl.gov](mailto:jlogan@bnl.gov) or Ext. 4391.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Hall. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Monique de la Beij, 399-7656.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Singles Club

5:15 p.m., Brookhaven Center. Contact: Jean, Ext. 4391.

Tuesdays: BNL Dance Club Individual & Couples instruction

5-11 p.m. North Ballroom, Brookhaven Center. Ron Ondrovic, [ondrovic@bnl.gov](mailto:ondrovic@bnl.gov) or Ext. 4553.

Tuesdays: Toastmasters

1st and 3rd Tuesday of each month , 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. [www.bnl.gov/bera/activities/toastmasters/default.htm](http://www.bnl.gov/bera/activities/toastmasters/default.htm).

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$4 per class. Rec. Hall. Pat Flood, Ext 7886.

Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. Christine Carter, Ext 2873.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Svetlana Agafonova, 205-5065.

Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga Practice

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206.

Wednesdays: Open Chess Night

5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

Wednesdays: Exercise 101

5:15-6 p.m., Rec. Hall. \$4 per class or \$35 for 10 classes. Stretching, low-impact aerobics, and other exercises. Pat Flood, Ext 7886.

Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m. North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, [rudy@bnl.gov](mailto:rudy@bnl.gov).

Fridays: Jiu Jitsu Club

6-7 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

— THIS WEEKEND —

Saturday, 8/23

Bus Trip to the Cradle of Aviation

Bus departs the Rec. Bldg. at 1 p.m. and returns to BNL by 6 p.m. Tickets, at a cost of \$20 for adults, \$15 for children ages 2 to 14, include bus transportation, admission into the aviation museum, a virtual reality ride, and an IMAX big-screen movie. For more information and to purchase tickets, contact Jennifer Lynch, Ext 4894, or [lynch@bnl.gov](mailto:lynch@bnl.gov). For more information about the Cradle of Aviation/ IMAX movie theater, go to [www.cradleofaviation.org](http://www.cradleofaviation.org).

Sunday, 8/24

\*Summer Sunday Tour

10 a.m.-3 p.m. Tour features BNL's Emergency Services and Plant Engineering Divisions. For more information, go to [www.bnl.gov/bnlweb/pubaf/summer\\_sundays.htm](http://www.bnl.gov/bnlweb/pubaf/summer_sundays.htm).

— WEEK OF 8/25 —

Monday, 8/25

IBEW Meeting

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

# Outstanding BNL Mentors Honored



Joseph Rubino 0041 0803

Thirteen BNLees were honored with BNL/BSA Outstanding Mentor Awards at an on-site luncheon organized by the Office of Educational Programs (OEP). Mentors who worked with undergraduates during 2002 in a DOE-funded educational program — including the Community College Institute, the Pre-Service Teacher Program, and the Science Undergraduate Laboratory Internship — were eligible for the award, although mentors may not receive an award two years in a row.

The mentor honorees were nominated by their students and chosen by OEP staff. Commended for providing excellent educational experiences for undergraduate math, science, and technology students, the thirteen mentors were each given plaques signed by DOE Secretary Spencer Abraham. DOE, BNL, and BSA fund the annual mentor awards program, which began in 2002.

Mentors pictured are in the front row (second through sixth

from left): Ketevi Assamagan, Physics Department; Alfredo Temprosa, Information Technology Department (ITD); Onarae Rice, Medical Department; Michael Sivertz, Physics; Louis Peña, Medical; Gail Donoghue, OEP; and (front row, first on right) Daniel Van der Lelie, Biology Department. Other mentor honorees are: Upendra Rohatgi, Energy Sciences & Technology Department; Robert Bennett, ITD; Keith Lally, ITD; Kenneth Terry, ITD; Panayotis Thanos, Medical; and Patricia Bender, Plant Engineering.

With Laboratory Director Praveen Chaudhari (front row, first on left), joining the mentors are (front row) BNL's Marge Lynch; (back row, from left) Melvyn Morris, Brian Murfin, Ralph James, Frank Crescenzo of DOE's Brookhaven Area Office; and BNL's Samuel Aronson; Thomas Kirk; William Horak, Peter Bond, and Renée Flack.

— Diane Greenberg

## Cycletrons Club Family Picnic, 9/6

The Cycletrons, BNL's motorcycle club, invite all club members, their families, friends, and others who have an interest in motorcycles, to their 6th annual family picnic, to be held on Saturday, September 6 (rain date, 9/13) at noon at the gazebo by the softball fields.

Tickets cost \$5 per adult, children 12 and under are free. Hamburgers, hot dogs, salads, and soda will be available, with various games, a raffle, and much more. Buy tickets from Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; or Frank Cetero, Ext. 2012.

## 'Learn to Be Tobacco Free' Smoking Cessation Program at BNL, 9/9

The Occupational Medicine Clinic's Health Promotion Program is sponsoring an on-site smoking cessation program entitled "Learn to Be Tobacco Free," which is presented by the Suffolk County Department of Health Services and demonstrates a success rate of over 60 percent. The program will run for six consecutive weekly sessions from noon to 1 p.m. in the small conference room in Bldg. 490 beginning on Tuesday, September 9. To register, contact Michael Thorn, Ext. 8612, or [mthorn@bnl.gov](mailto:mthorn@bnl.gov).

## Ellis Island Trip Rescheduled for 9/21

As a result of the widespread power outage, (see story, page 1,) the BERA trip to Ellis Island and the Statue of Liberty, originally scheduled for Saturday, August 16, was rescheduled for Sunday, September 21. The luxury coach will leave promptly at 8:30 a.m. from the Brookhaven Center and return at 4:30 p.m. Some tickets now remain at the BERA Sales Office: \$39/adult, \$36/child over 5.

## Step Into Fall! New fitness program for first 250 registrants

Step into Fall is a new walking program organized by Health Promotion Program Coordinator Michael Thorn of the Human Resources & Occupational Medicine Division. The program is designed to help everyone, regardless of current activity level.

Those who "step into fall" will take a goal of eventually walking about four-and-a-half to five miles a day, using a pedometer to count their steps. Pedometers are provided at a discount price of \$6 each. For more information, see last week's Bulletin, and also, on September 8, 9, and 10, from 11:30 a.m. to 1:30 p.m., go to Berkner Hall, Room C, where you can get full details. You can bring a check for \$6 made out to BERA for your pedometer and instructions on how to use it. You will also get your log sheet for the program. Registration is limited to the first 250 participants who register and pay for a pedometer. Incentives will be provided during the program, and two drawings will be held for prizes for those who complete and submit the log of their activities.

## Arrivals & Departures

### Arrivals

Zhengwei Chai .....Chemistry

Thomas Graham ..... NNS

### Departures

Madina Gerasimov ..... Chemistry

Carol Ruth Kempf ..... NNS

Xianghong Liu ..... Chemistry

Charles Springer Jr. .... Chemistry

Karen Wagner ..... NNS

## Lincoln Center Craft Show, 9/14

Join BERA's bus trip to the Lincoln Center Craft Show on Sunday, September 14. Details are in the Calendar on page 3. Tickets, at \$10 per person, are available at the BERA Sales Office, weekdays, 9 a.m.-3 p.m.

## Pool Hours: Swim Less and More!

The swimming pool will be closed this weekend, August 23 & 24, and next weekend, Labor Day weekend, from August 30 through September 1.

Next week, August 25-29, the BNL Swimming Pool will be open all afternoon for BNL families, guests, and visitors, in addition to normal opening hours. The schedule during that week will be:

*Employee Lap Swimming*  
11 a.m.-2 p.m.

*BNL families, guests, visitors*  
2-8:30 p.m.

The Friday night family swim will be held as usual, at \$5 per family, 5-8:30 p.m. For more information on facilities, events, and BERA trips, see the BERA website at [www.bnl.gov/BERA](http://www.bnl.gov/BERA).

## Upton Nursery School Begins 9/9, 9-noon

The Upton Nursery School, a friendly cooperative nursery school run by parents, will begin on Tuesday, September 9. Lab employees whose children are ages 3 to 4 or who will be 3 by December 1, 2003, may register their children now. Two professional teachers hold classes on Tuesdays and Thursday, in the Recreation Building. For more information or to register, visit the school website at: [www.bnl.gov/nurseryschool](http://www.bnl.gov/nurseryschool), or contact Cathy Lavelle, 369-3098 or [lavellec@bnl.gov](mailto:lavellec@bnl.gov).

## Air Show Tickets Available at BERA Sales Office

Come see the New York Air Show, which will be held Friday-Sunday, September 19-21, at the Calverton Airfield. Admission is free on Friday, although there is a \$5 parking fee, when there will be a kick-off carnival and fireworks beginning at 4 p.m. Tickets for Saturday and Sunday's air show are available at the BERA Sales Office at \$13 for adults and \$8 for children — \$2 off the gate price.

The air show — which includes an A-10 tactical demo, aerobatic teams, F-14 and other military aircraft, skydiving, and more — begins at noon on Saturday and Sunday and concludes with a carnival each night.

For more information, contact Christine Carter, Ext. 5090, or [ccarter@bnl.gov](mailto:ccarter@bnl.gov).

## Coming Up Noon Recital, 9/17

Argentine pianist Mirian Conti will give a BSA Noon Recital on Wednesday, September 17, in Berkner Hall. Prize-winning musician Conti will perform works by Spanish composers. She will also discuss with the audience the musical style and significance of the works she performs.

The concert is free and open to the public. All visitors to the Laboratory age 16 and over must bring a photo ID.

## Retirement Counseling Fidelity Investment, 9/4

A Fidelity representative will be at the Lab on Thursday, September 4, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 45-minute appointments by calling (800) 642-7131.

## TIAA-CREF, 9/10, 9/17

A TIAA-CREF representative will visit BNL on two Wednesdays, September 10 and 17, and Friday, September 19, to answer employees' questions regarding the TIAA-CREF retirement plan, such as TIAA and CREF differences, allocating funds between TIAA and CREF, options, flexibilities with TIAA-CREF, and retirement options. For a 45-minute appointment, call Valerie James, (800) 842-2733, Ext. 7980 (*not* the Lab Ext. 7980).



# BNL's Earth Day Run, BSA, KeySpan All Donate \$ to Long Island Cares



Roger Stoutenburgh Dn14p7n3

Greg Fess, General Counsel in BNL's Legal Office (left) and BNL employee Peter Pohlot (right) present a check to Robin Amato representative of LI Cares. The \$1,100 check is from the proceeds produced from BNL's Earth Day Run. In addition, donations of \$1,000 each were made by BSA and KeySpan. LI Cares, located in Hauppauge, distributes food to pantries, making food available to the less fortunate in local communities. Says Pohlot, "As coordinator of the BNL Earth Day Run, I thought it was appropriate to make the donation to LI Cares, since they are a local organization that truly supports our communities." If anyone is interested in volunteering to help sort food donations, contact Pohlot, Ext. 5660.

## Classified Advertisements

### Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBSITE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at [www.bnl.gov/HR/jobs/default.htm](http://www.bnl.gov/HR/jobs/default.htm).

**OPEN RECRUITMENT** – Opportunities for Laboratory employees and outside candidates. MK3192. ASSOCIATE SCIENTIST (S-2) – Requires a Ph.D. in a scientific or engineering field, working knowledge and experience with the International Atomic Energy Agency (IAEA), hands-on experience in the design and operation of nondestructive assay (NDA) equipment and hands-on field implementation, maintenance, and support of NDA equipment especially in the areas of wet and dry storage of spent nuclear fuel. Additional requirements include hands-on in-the-field NDA expert support of IAEA inspections, development and use of x-ray backscatter tomography, and Monte Carlo simulation code development and use and experience with the State's System of Accounting and Control of Nuclear Material of an IAEA member state including the planning and execution of national safeguards inspections at LWR, CANDU, research reactor, and fuel fabrication plants. Will develop and upgrade national safeguards criteria and inspection procedures, develop remote monitoring systems integrating radiation measurements and video images and database development for safeguards information. Will develop research initiatives to promote international nonproliferation and to reduce global danger from weapons of mass destruction supporting National Nuclear Security Administration objectives. Must be able to obtain and maintain a Department of Energy Q clearance. Some domestic and foreign travel will be required. Under the direction of P. Moskowitz, Nonproliferation & National Security Department.

MK2500. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in civil, structural or mechanical engineering with experience in non-linear finite element analysis of steel and reinforced concrete structure or components. Experience in calculating the response of structures subjected to impact loads and in using probabilistic-based analysis is desirable. Research will involve structural analysis computer codes that are used to predict the seismic and dynamic response of structure and structural components with the purpose of assessing the safety of existing or proposed nuclear plant facilities. Work will involve one or more of the following programs: a) comparing the results of various seismic analysis methods with data from large-scale seismic tests of reinforced concrete shear wall structures; b) performing impact analysis to assess the response of spent fuel dry cask systems and support structures to various cask drop scenarios; c) the analysis of nuclear power plant structures and components in support of safety issues being pursued by the U.S. Nuclear Regulatory Commission related to the licensing of proposed advanced reactors. Under the

direction of C. Hofmayer, Environmental Sciences Department.

MK2836. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in chemistry, a strong background in computational chemistry and molecular dynamics, familiarity with Unix/Linux system management, proficiency in Fortran and/or C, and expertise in the use of ab initio quantum chemistry and density functional programs. Will participate in theoretical research in the Nanocatalysis Program with the focus on chemical reactivity on nanoparticles of early transition metal carbides and sulfides, as well as on metal nanoparticles. Additional focus will be on calculating the energetics and optimal geometries of clusters these materials and the reaction pathways of chemical reactions of chemical reactions that they catalyze. Under the direction of J. Muckerman, Chemistry Department.

NS2875. INDUSTRIAL SAFETY ENGINEER/PROJECT ENGINEER I (P-9) Requires a bachelors degree in safety engineering/safety science or equivalent, excellent communication skills (oral, written, and interpersonal) and strong background, including at least ten years experience, in industrial safety & health. Must have good knowledge of and ability to work with OSHA regulations, other external regulations and national consensus standards. Advanced degree and safety or health certification or engineering license are highly desirable. Candidate should be conversant with the Occupational Injury and Illness process including calculation of reportable rates and management of computerized injury tracking database and should be knowledgeable of ES&H Standards and Standards Based Management System requirements. Familiarity with DOE Orders highly desirable. Responsibilities include serving as a SHSD engineer and Subject Matter Expert for programmatic safety & health compliance and occupational injury management providing ES&H Coordinator support for the Superconducting Magnet Division and assisting in delivering industrial safety services to BNL operating and support organizations. Will advise organizations on industrial safety issues and assist in development of compliance strategies/implementation. Will assist line organizations in the Operational Readiness Evaluation/Accelerator Readiness Review process for start up or restart of facilities; and assist in the investigation of occupational injuries, illnesses, accidents, occurrences and significant exposures in compliance with DOE and other agency requirements. Must provide regular interface with Facility Support Representatives, ES&H Coordinators and others with worker protection responsibilities. Safety & Health Services Division.

### Motor Vehicles & Supplies

02 Honda Sportrax 90 ATV - 4 speed semi auto trans, yellow & black, ask. \$2000. John, Ext. 5912.

01 YAMAHA ROADSTAR - 1600cc, wind-shield, studded seats & saddlebags, excel. cond., ask. \$9000. Peter, 645-5844.

00 VOLVO S40 - green, excel. cond., \$14,500. Tom, Ext. 3085 or 744-4535.

99 FORD EXPLORER - Limited, V8, white, full time 4x4, a/t, all pwr., leather, p/seats, keyless, CD changer, 63K mi., \$13,500. Mike, 878-8585.

97 BUICK LASABRE - leather, white interior, a/t, a/c, p/d, p/w, CD, cass., keyless entry, alarm, warranty incl., 51K mi., \$6700. Susan, Ext. 4931 or 929-2867.

97 TOYOTA COROLLA - 4-dr. sedan, tan, a/t, a/c, p/s, am/fm, airbags, 73K mi., avail 9/22, ask. \$4,900. Yukiko, Ext. 4357.

97 SAAB 900S - 2.3L, 4-dr., ABS, sunroof, CD, c/c, airbags, alloy wheels, dir. svc'd., ex. cond., a/c, all pwr., 59K mi. \$6,650, below Bl. Bk. value. Edward, Ext. 2007 or 751-1474.

96 NISSAN ALTIMA GLE - loaded, gd. cond., 73K mi., \$5,500. Bill, Ext. 2350 or 924-1346.

95 COACHMAN MOTORHOME - rear kit, full-size bd. above cab, futon couch/bd., dinette/ bd. awning, a/c, heat, micro, refrig.-freezer, 23K mi., \$18,500. John, Ext. 7268 or 732-7568.

95 MITSUBISHI ECLIPSE RS - 2.0L, white/ blue, CD, a/c, a/t, moonroof, airbags, 131K mi., rear spoiler, runs well, tilt, \$3,500 obo. Alexander, Ext. 4992 or 925-586-3089.

94 FORD MUSTANG - a/t, a/c, p/s, p/b, p/w, metallic blue w/spoiler, orig. owner, extremely well maintained, very reliable, excl. cond. Tom, Ext. 5741 or 473-3760.

93 FORD THUNDERBIRD - black, V6, a/t, a/c, all pwr., 128K mi., good cond. \$1,500. Pam, Ext. 7286 or 956-1464.

93 LINCOLN TOWNCAR - Signature series, charcoal gray, leather, p/seats, a/t, a/c, p/s, p/b, p/w, CD changer, moonroof, 65K mi., \$5,500. Mike, 878-8585.

93 PONTIAC BONNEVILLE - a/t, sunroof, 164K mi. \$2,000. Ben, Ext. 4299 or 689-7326.

92 INFINITI M30 - a/t, a/c, all pwr., 109K mi., moonroof, leather, orig. owner. \$3,500. Herb, 928-0297.

92 TOYOTA TERCEL - 5spd., a/c p/s, p/b, exterior/interior gd. cond., need some mech. wk., ask. \$500. Bill, Ext. 2370 or 476-8338.

90 NISSAN 240SX - red, new tires & brakes, custom sound sys., very reliable. \$1,800. Claudia, 473-6142.

89 BUICK CENTURY- a/c, nice interior, gd. cond., high mi., \$2000. Chris, Ext. 3496 or 331-4380.

89 CHEVY CORSIKA - a/t, a/c, p/s, p/b, 38K mi., very clean, v.g. cond. \$1,850. Ed, Ext. 4188 or 472-2750.

88 JEEP CHEROKEE - Limited, 4 new tires, 135K orig. mi. & owner, \$2,950. Michael, 325-0447.

88 RALLYE JAMBOREE CAMPER - 23 ft., 38K orig. mi., new tires, sleeps 6, awning needs repair. Gary, 588-4804.

87 OLDS WAGON - blue, clean, runs well, must sell. \$400. Don, Ext. 4867.

86 OLDSMOBILE DELTA 88 - a/t, a/c, p/s, p/b, runs well, great car for local travel, needs painting. Helen, Ext. 2552 or 209-9621.

77 BONNEVILLE TRIUMPH - 5 spd., mint cond., runs well, 4,500 mi., ask. \$4500. Colonel, 281-8031.

71 NORTON - 750cc, v.g. cond., rare st. scrambler, 4,700 mi., ask. \$5,000, Colonel, 281-8031.

CAR-TOP CARRIER - Sears enclosed w/oversized dome, excel. cond., \$50. Carol, 744-8632.

UTILITY TRAILER - Pop-up camper chassis, wooden flr/sides, lights, gd. cond., \$100. Don, Ext. 7237 or 929-6571.

### Boat & Marine Supplies

23' PROLINE 231 - '95 w/trailer, 200hp, Mercury o/b, low hrs., depth/fish finder, am/fm cass., walk around, cabin, \$23,000. Dom, 277-1594.

15' BOAT & CANOE - aluminum Grumman Canoe w/paddles, excel. cond., \$425. Lloyd, 587-7876.

20' CRUISE INC. CUDDY - '79, 200hp, o.b. low hrs. on power head, many extras. \$5,500. Ed., cell 236-6041.

SUNFISH - needs minor fiberglass work. \$400. Anne, 751-1126.

WINSURFER - Beginner style, \$70, plus free lessons. Vyacheslav, Ext. 5437 or 929-4268.

### Furnishings & Appliances

AIR CLEANER SYSTEM - Duracraft indr. air cleaner, DA-1030, 150 sq. ft. & 3 times per hr. HEPA filter. ask. \$15. Ho, Ext. 7646 or 561-991-3499.

AUDIO STAND - silver, brand new, pd. \$200, ask. \$125. Mary, Ext. 2950.

BED - full size platform w/mattress, red mahogany nightstand, gd. cond., \$100. John, 399-4772.

BED - qu.-sz. platform w/matt., light oak, mirrored bridge w/lights & storage, built-in night tables w/above storage compartments, ex. cond. \$900. Carol, 744-5808.

CRIB - washed oak w/mattress, changing table, 4 drawer, dresser, 3½ yrs. old, excel. cond., \$150. Barbara 5165 or 727-1388.

COUCH & LOVESEAT - in floral chintz, ex. cond., call for details. Maryann, Ext. 4705 or 929-4978.

COUCH & RECLINER - navy blue matching set, gd. cond., moving, must sell. \$50/ both. Tirre, Ext. 3288 or 281-0360.

KITCHEN SET - almost new, all wood washed oak w/ tile top, 4 cushioned chairs & leaf, \$750. Bill, Ext. 2539 or 476-3819.

REFRIGATOR/FREEZER - college dorm size, \$35. John, 543-7065.

MATTRESS - full size + box spring, barely used., ask. \$200. Mary, Ext. 2950.

MICROWAVE - 1000 watt Panasonic, used for 1 yr., \$50. Jamal, Ext. 5805 or 431-2152.

SOFA - sectional, 2 mo. old, burgundy fabric, 2 end recliners w/pullout sofa bed w/ 10 yr. warranty. Paid \$2,500, ask. \$1,500. Bill, Ext. 2539 or 476-3819.

STOVE - 30" late-model Tappan gas stove, excel. cond., \$100 obo. Don, Ext. 7237 or 929-6571.

WATERBED - motionless, new liner, pine headbd. w/dual shelves, mirror, sheets, blankets, \$250. Tirre, Ext. 3288 or 281-0360.

WALL UNIT - 3 walnut col. sectional unit, 1 open w/middle storage, 1 w/glass dr. \$75; Maple color kitchen table w/2 leaves, 6 chairs, \$100. Tirre, Ext. 3288 or 281-0360.

### Tools, House & Garden

CAPTAIN'S BED - twin, honey oak w/2 drawers, \$40; Black & Decker toaster oven, perfect working cond., \$5. MaryAnn, Ext. 5124 or 758-0790.

CHIPPING HAMMER - Bosch; Hilti nail gun, less than 1yr., both \$750. Ann, Ext. 7009.

TREE HOUSE - free-standing, 6'x6' enclosed, 8' above ground, trap dr., ladder, climbing rope, windows, back dr., \$250 delivered in Suff. Cty. Don, Ext. 7237 or 929-6571.

VACUUM - for leaves. Billy Goat, 5hp, best offer over \$250. Tim, Ext. 208-0408.

### Sports, Hobbies, Pets

BIKE - new 20" wheels, \$30. Richard, 924-6751.

BIKES - (2) 20" Murray Mountain Bikes, over-sized, tubing tires, purple/red and deep blue, excel. cond., \$25 ea. Mary, Ext. 5124 or 758-0790.

BOXING EQUIPMENT - cowhide jump rope, heavy-bag gloves, ankle weights, all Everlast, \$20/all. Peter, Ext. 2913 or 516-978-0137.

CLARINET - Bundy, plastic body, Vandoren 5RV mouthpiece, \$160. Gary, Ext. 2576 or 589-5490.

COOKTOP - 3-burner stove, gd. cond., for RV, motor home, trailer, or pop-up, ask. \$75. Tim, 208-0408.

DOG KENNEL - chain link 10'x10'x6', tall, 1 yr. old, \$150. John, Ext. 2021 or 758-4770.

DRUMS - Table set, 2 World Beat, \$100. Corinne, 654-3697.

DRUMS - 2 Djembe Remo, 14" head and handmade 12" head, \$150. Corinne 654-3697.

EXERCISE EQUIPMENT - Rower, \$25, Life Rider Glider, \$30, Dual-action cycle, \$30, 2 Bikes like new, \$50 ea. Mike, 567-9362.

GOLF BALLS - clean, used, Titleist, Swoosh, \$2.50 for 10. Other brands, 10 for \$1.50. Larger quantities available. Pete, Ext. 5114 or 286-5918.

GOLF CLUBS - Wilson women's, never used, still wrapped, \$200. Jackie, 580-9642.

TROMBONE - Yamaha with F key. \$425. Maryann, Ext. 4705 or 929-4978.

TRUMPET - Jean Baptiste, Pt180, w/mute, \$100. Corinne 654-3697.

### Audio, Video & Computers

APPLE - Performa 6400/200 Avid Cinema Ed., Movie ed, Prtr., Scanner, Pwr. spkr., Trk-ball mse., removable Zip, graphics. board, All S/W incl.: Painter, Illust., Photoshop, extnl. CD drive, ask \$150. Ext. 7646.

COMPUTERS - Dell 2100, blk., 1.1Ghz CPU, 20Gb, HD, CDRW, 256mb RAM, \$400; Dell L1100cx (white) 1.1 Ghz CPU, 20Gb HD, CDRW, 256Mb RAM, \$350. Don, Ext. 7237 or 929-6571.

DAT RECORDER - Teac RD101T digital tape player/recorder, new in box w/cables and manual, \$125. Peter, Ext. 2913 or 516-978-0137.

### Miscellaneous

LOBSTER POTS - 2, professional type, \$10 ea. John, 543-7065.

SWING GLIDER - creative playthings back-to-back glider, plastic 2 seater, fits on any swing set, brand new, pd. \$75, ask. \$35. Mark, Ext. 4666 or 208-2910.

TICKETS - to U.S. Open Tennis. 6 tickets for 9/2 & 4 tickets for 9/4, day sessions, \$40 ea. Samanta, Ext. 4948.

### Free

CAT - 6 mo., calico, female, wonderful personality, wants to be someone's pet, Kathy, Ext. 3845 or 878-9592.

CATS - (2) both abandoned, urgently need homes, being looked after now by person with asthma. Maria, Ext. 3033.

FERRET - 2-yr.-old female needs home, preferably w/another ferret. Affectionate, playful, spayed, de-scented, healthy, comes w/cage if necessary. Tim, Ext. 3001.

PROJECTION TV - 45" Mitsubishi, needs work, you pick up, Bill, Ext. 2135 or 928-7446.

### Yard & Garage Sales

SHOREHAM - Randall Rd., 2 locations between St. Marks Church & Whisky Road, 8/30 and 8/31, multi-family/moving sale, tools, furniture, bedding, etc.

### Wanted

APARTMENT - 2-b/r. apt. in SWRSD. Single parent w/13 yr. old son, excel. ref. Don, Ext. 7237 or 929-6571.

MINI BIKE - gd. cond., 3.5-5 hp, Nick, 928-7042.

HOUSE - 2-3 bdrm., Wading River/Miller Place, 2 professional adults, 1 teenager. Steve 929-0269.

POOL COVER - For 18' above-ground pool, round, also pump & setup for filter & vac. of pool. Robert, Ext, 7238.

RESEARCH VOLUNTEERS - men and women who smoke cigarettes, ages 18 and over, are needed for MRI study. Strictly confidential, fee provided. 344-2773.

### For Rent

FARMINGVILLE - 2 bdrm house for 2 people, l/r, eik, bath, deck, garage, yard. No smoking/pets. \$1375 includes utilities, cable, lawn maintenance. Patricia 758-3952, lv message.

BOHEMIA - 2-bdrm. house, l/r, d/r, 1 bath, sep. gar., w/d, cable, yard, avail. 9/1, \$1,500/ mo. + util. Donna, 589-8964.

## Wanted: Basketball Players, Coaches

BERA is seeking a league coordinator, players, and volunteers to form a BERA basketball league. If you are interested, then contact Christine carter, Ext. 5090, or [ccarter@bnl.gov](mailto:ccarter@bnl.gov).

# Calendar

## Monday, 8/25 (cont'd.)

### Free Movie Night — Ice Age

7 p.m., Berkner Hall. The English for Speakers of other Languages Program will present the 2002 animated hit *Ice Age* starring Ray Romano, John Leguizamo, and Dennis Leary. The movie is rated "PG." Deepali Mitra, Ext. 5360.

## — WEEK OF 9/1

### Tuesday, 9/2

#### U.S. Open Tennis Trip

\$62 per person includes day session ticket and bus transportation. For more information, contact Rita Kito, Ext. 3320.

### Thursday, 9/4

#### Retirement Workshop

Noon, Berkner Hall. "Getting started on Your Retirement," presented by Fidelity Investments. Check your mailbox for registration forms. For more information, contact Joyce Wund, Ext. 7516.

### Saturday, 9/6

#### \*Cycletrons 6th Annual Family Picnic

Noon at the gazebo by the softball fields. \$5 per adult, children 12 and under are free. All are welcome. See notice page 2. For tickets, contact Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; or Frank Cetero, Ext. 2012.

## — WEEK OF 9/8

### Wednesday, 9/10

#### Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. BNers from 17 to 75 years of age, who are in good health and weigh over 110 pounds, are welcome. All donors should have photo identification and should know their social security number. For more information, or to make an appointment, contact Susan Foster, Ext. 2888, or [donateblood@bnl.gov](mailto:donateblood@bnl.gov).

### Thursday, 9/11

#### Community Advisory Council Meeting

6:30 p.m., Berkner Hall, Room B. Open to the public. For more information, see <http://www.bnl.gov/community/CAC.htm>.

### Sunday, 9/14

#### Bus Trip to Lincoln Center Craft Show

\$10 per person. See 400 displays of American crafts from all over the U.S. There will be food, music, craft demonstrations, and free time in New York City. Bus leaves BNL at 10 a.m. and departs NYC at 5 p.m. Purchase tickets at the BERA Sales Office, weekdays, from 9 a.m. to 3 p.m. For more information, contact Christine Carter, Ext. 5090.

## — WEEK OF 9/15

### Wednesday, 9/17

#### \*BSA Noon Recital, Pianist Maria Conti

Noon, Berkner Hall. Pianist Maria Conti will perform Spanish music. All are welcome. Visitors 16 and over must carry photo ID.

#### Brookhaven Lecture

4 p.m. Berkner Hall. Robert Crease, Lab Historian, will talk on a subject to be announced. All are welcome.

### Sunday, 9/21

#### \*Rescheduled: Ellis Island Bus Trip

Originally scheduled for 8/16, rescheduled for 9/21 as a result of the widespread power outage. \$39 per adult, \$36 per child, (over age 5,) includes bus, ferry, and tour. Bus leaves BNL at 8:30 a.m. from the Brookhaven Center and returns at 4:30 p.m. Pay at the BERA Sales Office.

## — WEEK OF 9/22 —

### Saturday, 9/27

#### Bus Trip to Storm King Art Center

\$12 per person. Bus leaves BNL at 10 a.m. for the Storm King Art Center and Sculpture Park. Bring picnic lunch and cameras. There are no food facilities, only vending machines. Purchase tickets at the BERA Sales Office, weekdays, from 9 a.m. to 3 p.m. For more information, contact Christine Carter, Ext. 5090.

*Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Enter information for each event in the order listed above (date, event name, description, and cost) and send it to [bulletin@bnl.gov](mailto:bulletin@bnl.gov). Write "Bulletin Calendar" in the subject line.*



# Northeast Power Outage Hits BNL

(cont'd.)

had time to shut down in an orderly manner. There was no damage to the NSLS.

The control room is always manned using shifts that work around the clock. So we kept watch there, and PE stayed in touch. We were allowed to go to full power late Friday night, but I decided to wait until Saturday morning.

Around 8 a.m. Saturday, people started to come in to go to work on getting the machine back on again. RF, power supply, microprocessors, diagnostics — had mostly everybody here. People come in. They're a pretty dedicated bunch.

We delivered beam in the UV ring on Saturday night at 11:45 p.m. It's a less complicated system, so it did better.

On Sunday, we had a power dip at 6:51 p.m. due to lightning strikes. We got the UV ring on again at 8:30 p.m., and, after 9 p.m., we delivered beam to the x-ray ring.

**Dan Fischer, materials scientist with National Institute of Standards & Technology at NSLS beam line U7A:**

We've already made up a little poster showing monochromator energy as a function of time, so can see when beam died. It looks like it fell off a cliff [see data graph on page 1].

Initially, we were hoping that it was temporary. We are used to small glitches and can survive those. But this was big and the beam dumped. So different pieces of the system have to be vented for long-term survival.

Power came on in Stony Brook late Thursday night, and I got back here a little after that. The systems all start on their own, so I wanted to make sure that everything was OK. So on Thursday, I worked to protect everything. On Friday, they wouldn't let us in. Then on Saturday, the whole team came here. We restarted computers, realigned things, and got everything ready to go should the machine come back on line. Sunday morning, we were the first beam line on line.

I'll have to reschedule the samples I didn't get to, but things are pretty good. I never expected to be back running so fast.

**Vivian Stojanoff, NSLS physicist, beam line X6A:**

We were preparing the beam line for a user. In a sense we were lucky: the user did not lose any samples. Our real loss was the protein samples that we keep in a freezer at -80 degrees Celsius and protein crystals that we grow in a controlled temperature environment in incubators.

None of these units is connected to the emergency power diesel generator. We are now checking to see if we can connect them.

We lost about a dozen protein samples, each representing between one to three months of preparation time for our collaborators from Canada and Europe. We will be checking on the crystals grown in the incubators in the next few weeks to see if they diffract or not. We keep other protein crystals in

liquid nitrogen, and I was able to come in to fill the dewars to keep them cold.

**Frank Telang, physician with PET studies, Medical Department:**

We were doing a two-day study of people who have gone through detoxification for alcohol. The patient, part of the normal controls, had come in from Connecticut.

This was the second day, when we give a stimulant with FDG [the radiotracer fluorine-18 fluorodeoxyglucose]. The subject is outside the scanner for 35 minutes for FDG uptake, then goes into the scanner for 30 minutes.

We were in the uptake phase, at minute 29, when the power went. The scanner runs on the UPS system. But no one was sure how long the power would last. So we made a quick decision to stop the uptake phase immediately and put him into the scanner. It worked! We were able to capture the data.

The patient was very relaxed. He was a perfect subject. So we got it all done. He and our nurse Bud Jayne stayed overnight at the guest house, which had no power, but I heard they went over to the apartments and had a nice time.

**Lance Warren, Manager of PE's Operations & Maintenance Division:**

With loss of power, we first go to our substations to see if the problem is on site or from outside. The Fire/Rescue Group knows first because the fire alarm computers sense it. If the failure is off site, we contact the district operators.

On Thursday, we knew it was big time. LIPA was so busy, we never got to speak to them for some hours.

That evening, they gave us one MW at about 10:30 p.m., we started restoring Lab power, starting with the apartment area. We switched on breaker by breaker, calling up LIPA, getting the okay for another couple of MW of power, switching another two breakers, calling back to see if that was still okay. Then they'd say, wait another 20 minutes and turn on another. Then we'd get back to them again, and so on all night.

We restored the last breaker, up in RHIC, at exactly 4:10 a.m., just 12 hours after the power stopped. At that time we were at 13 MW. They expected to get us some more power fairly soon.

Critical facilities are backed up with generators, but we don't have enough emergency generator power for the whole Lab. The Firehouse, the central steam plant and sewage plant are backed up 100 percent. But not all facilities can be backed up by a generator.

By about noon on Friday, I went home, along with a lot of people who'd been there all night and much of Thursday, and the next shift came in.

**Leo Somma, Superintendent of PE's Craft Maintenance & Service Group:**

On Friday morning, we were still limited to only 13 MW of

power and LIPA thought there was a chance we might have to lose some of that. We checked periodically throughout the day, but they could not allow us to use any more than 13 MW.

To limit the electrical load and to minimize the cooling load on the Central Chilled Water Facility (CCWF), PE personnel were sent to secure non-essential cooling loads in various buildings.

At about 8 p.m. that night, LIPA gave us permission to use another two MW. This allowed us to start another electric chiller at the CCWF and begin recharging the storage tank to build up reserve cooling capacity for the next day.

Then, at 11:40 p.m., we got the okay from LIPA to use our normal load. At this time, with RHIC and the AGS down for maintenance, that's about 25 or 26 MW. We could have had more, but we didn't need it. The NSLS control room was notified that they could plan to restart their beam lines on Saturday.

**Jeff Swenson, Staff Services Division Manager:**

FLIK did a great job providing sandwiches, drinks, and ice cream through Thursday night for all essential personnel called in, such as fire fighters, police, and Plant Engineering staff. FLIK also kept the Cafeteria and the Brookhaven Center open for normal hours on Friday.

Housing Office staff stayed late on Thursday and came in on Friday to help contractors who had to stay the night, and visitors who were due to arrive. Apartment residents had a lighted place to go to after Plant Engineering put the Child Development Center on a portable generator and opened it. The apartments got electricity back at 10:30 p.m. on Thursday evening, but before that, we heard, barbecues and a party spirit had cheered everyone up.

**Peter Bond, Interim Director of the Information Technology Division:**

The portions of the BNL telephone system supported by backup generators were not affected, however service to NSLS and the vicinity around Bldg. 701 could not be restored without backup generator power. Cellular telephone service was also disrupted for a period of time, as commercial carriers were inundated by cell phone users all trying to make calls at the same time.

The overall impact of the blackout was minimal to the Bldg. 459 data center. All critical Windows servers are connected to UPS, which gives people sufficient time to power them down without losing data or hardware. Also, our database servers use software integrated with the UPS so that they shut down automatically if there's an extended power outage.

The only damage was a catastrophic failure of a disk drive in our legacy HP3000 equipment, which houses the labor cost distribution system and the travel system. Thursday's input was lost. Repairs have been made and the

system restored with the data at close of business on Wednesday, August 13. We'll be researching ways to lessen the possibility of a recurrence.

*Editor's Note: According to Bond, the Lab experienced no problems in two vital areas: The RHIC computing facility was brought down in an orderly manner by the RHIC people. And the RIKEN BNL super-*

*computer in Bldg. 515 was already switched off for maintenance. "What good luck? Absolutely not!" said Bond, tongue-in-cheek. "What great planning!"*

— This story was reported by Liz Seubert, Mona S. Rowe, Karen McNulty Walsh, John Galvin, and Jane Koropsak, and written by Seubert.

THIS SUNDAY, 8/24

## Fire, Security, Plant Engineering



**Do not miss this week's tour this Sunday, August 24, when BNL's 2003 Summer Sunday Tours conclude with a tour of the Lab's Fire/Rescue and Police Groups and the Plant Engineering Division. Visitors to BNL will experience hands-on demonstrations, explore fire trucks, construction vehicles, and BNL's firearms simulator. Learn how to protect yourself from identity theft and have your children fingerprinted too.**

**In addition to the featured tour, visitors will see "Brain Matters," a hands-on exhibit on the brain, the "Whiz Bang Science Show," at 10:30 a.m., noon, 1:30 p.m., and 3 p.m., a poster on the 2002 Nobel Prize in Physics won by BNL scientist Ray Davis, and the Camp Upton Historical Collection: memorabilia from World Wars I and II.**

**Tour hours are between 10 a.m. and 3 p.m. Admission is free and no reservations are needed. To be admitted on site, all visitors age 16 and over must bring a photo ID.**

**Classified Advertisements are on page 3.**

### Blues Concert, 8/27

All are invited to an hour of acoustic music performance, sponsored by the BNL Music Club, on Wednesday, August 27, at noon in Berkner Hall where BNL's own blues singer Pamela Betti of *Black Cat Bone* will perform with Long Island blues man Joe Vicino of the *Smokedaddys*.

Betti got her start in Long Island's Blues scene at a Joe Vicino jam and they have been great friends ever since. The duo will perform some original songs as well as several well-known songs.

For more information, contact Joe Vignola, Ext. 3846, or [vignola@bnl.gov](mailto:vignola@bnl.gov).

