

## Israel Named Internal Audit & Oversight Director

Mark Israel was named BNL's Director of Internal Audit & Oversight, effective January 12. In his new position, Israel is responsible for directing financial and business operations reviews for the Lab. He also conducts independent institutional assessments to measure the adequacy of work performance and to promote improvements. The Lab has about 2,600 employees and a total annual budget of about \$500 million.



Roger Stoutenburgh D0660203

Mark Israel

Israel's office serves as an independent resource for conducting internal audits and studies, coordinating outside audit activities, and providing expert information and guidance on effective internal controls and prudent business practices. All audits are conducted within the framework of the international standards set by the Institute of Internal Auditors.

"Since I have been working at Brookhaven Lab for 33 years, I am very familiar with the business processes, procedures and lines of communication needed for my new position, and I believe that I have built a level of credibility between myself and my customers," Israel said. "I look forward to balancing their needs, minimizing risk for the Lab, and meeting the ever-changing challenges of audits and oversight assessments."

Israel's customers include the Laboratory Director and his senior management team, the Brookhaven Science Associates (BSA) Board, and DOE. BSA manages and operates BNL, and its 16-member

Board of Directors is composed of five members appointed by the Research Foundation of the State University of New York, five by Battelle, and one each from six of the nation's premiere research universities: Columbia, Cornell, Harvard, Massachusetts Institute of Technology, Princeton, and Yale.

A certified public accountant, Israel received a BBA in accounting in 1969 and an MBA in finance in 1978, both from Adelphi University. From 1968 to 1971, he was an accountant at Arthur Andersen & Co. Certified Public Accountants in Manhattan, and from 1971 to 1974, he was a senior financial analyst for American Airlines in Lake Success, NY. He joined BNL in 1974 as an internal auditor, advanced to several supervisory auditing positions, and, in 1987, became the Lab's Fiscal Officer. He has served as Interim Director of Internal Audit & Oversight since September 2006.

Israel is a member of the DOE Financial Management Improvement Council, comprised of members of the DOE financial community and nine of its contractors. He is also a member of the New York State Society of Certified Public Accountants, for which he chaired several of the society's tax committees; the American Institute of Certified Public Accountants; the Institute of Internal Auditors; and the Institute of Management Accountants (IMA). He also was the former president of IMA's Long Island, Suffolk Chapter.

— Diane Greenberg

## BNL Honors Five Employees With Engineering Awards



Joseph Rubino D0360107

The winners of the FY2007 Engineering Award are: (back, from left) Edmond Desmond, Physics Department; Richard Biscardi, National Synchrotron Light Source Department; and Alexander Pendzack, Collider Accelerator Department (C-A); (front, from left) Gary McIntyre, C-A; and Shigeki Misawa, Physics.

At the Fiscal Year 2007 BNL Employee Recognition Award Ceremony held on January 10, Lab Director Sam Aronson and others congratulated 15 BNL employees for their talent and dedication, which won each awardee \$5,000. The five Science & Technology winners were featured in the Bulletin of January 26, 2007, and the achievements of the five Brookhaven Award winners will be described in an upcoming Bulletin. Deputy Laboratory Director for Operations

Michael Bebon presented the five Engineering Awards to: Richard Biscardi, National Synchrotron Light Source Department; Edmond Desmond, Physics Department; Gary McIntyre, Collider Accelerator Department (C-A); Shigeki Misawa, Physics; and Alexander Pendzack, C-A. The purpose of the award is to recognize distinguished contributions to the engineering and computing objectives of BNL over one or more years. The five Engineering Award honorees are featured below.

### Richard Biscardi

National Synchrotron Light Source (NSLS) Department chief electrical engineer Richard Biscardi was awarded for

the wide variety of technological and safety contributions he has made to BNL. During the course of his career, Biscardi has served as the engineering

steward of almost all of the NSLS electrical systems. He also served as manager of the x-ray ring before becoming the head of the Electrical Systems section and chief electrical engineer. During the span of this extraordinary range of responsibilities, Biscardi made contributions that helped keep the NSLS at the technical edge, including working with Jack Bittner to develop a new method for determining transverse electron beam position.

The so-called Bittner/Biscardi receivers have been widely

(continued on page 2)



SIXTY YEARS  
OF DISCOVERY  
1947-2007

BROOKHAVEN  
NATIONAL LABORATORY

BNLers will be seeing this special logo (above) throughout 2007 as the Lab community celebrates BNL's 60th anniversary. The "60 Years of Discovery" logo will appear in the Lab's print and online communications, as well as on commemorative items marking this important milestone.

"I think this design captures the dynamic spirit of Brookhaven's rich scientific legacy," said BNL Director Sam Aronson. "This is an exciting year for us, and seeing this special logo should give us all a sense of pride in being associated with one of the world's great research institutions."

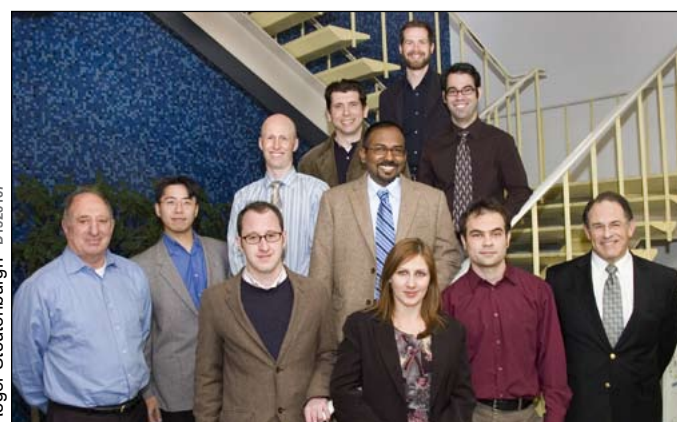
Staff can download various versions of the logo at [www.bnl.gov/PGA/logo.asp](http://www.bnl.gov/PGA/logo.asp), and a Microsoft Word template for Lab memos and preprinted letterhead will be available in the near future.

## State Senator LaValle Visits Today, 2/9

The Lab community is invited to hear State Senator Ken LaValle speak today, Friday, February 9, at 10:15 a.m. in Berkner Hall. Senator LaValle was instrumental in obtaining low-cost electric power rates for BNL, as well as a commitment from New York State to fund the Joint Photon Sciences Institute, which will complement NSLS-II. All are encouraged to come show support for his efforts.

## BNL Goldhaber Fellows of 2007

At a Mini Symposium held on January 25, BNL Director Sam Aronson (far right) and Goldhaber Distinguished Fellowship Program Administrator Leonard Newman (far left) are pictured with the current nine BNL Goldhaber Fellows, who talked about their work and future plans during the symposium. The Goldhaber Fellows are: (from left) Kuo-Wei Huang, Mathew M. Maye, Paul Sorensen, Alexander Milov, Devicharan Chidambaram, Ioana Raluca Gearba, Jason Olfert (top, back), Kyle Cranmer, and Adrian M. Gozar. Awarded to candidates with exceptional talent and credentials who have a strong desire for independent research at the frontiers of their fields, the Gertrude and Maurice Goldhaber Distinguished Fellowships were created four years ago with funding from Brookhaven Science Associates. The appointees work in close collaboration with members of the BNL scientific staff who serve as their mentors. For more information on the symposium agenda and the Fellows, see <http://intranet.bnl.gov/today/fellows.asp>.



Roger Stoutenburgh D1520107

## OHSAS 18001 Celebration in Berkner, 2/15

All employees, users, and guests are invited to celebrate BNL's OHSAS 18001 registration. The event will be held on Thursday, February 15, 3-3:30 p.m. in Berkner Hall lobby. OHSAS 18001 is an internationally recognized health and safety management system of excellence, and BNL is the first Lab in the DOE complex to achieve full OHSAS 18001 registration. Light refreshments will be served. For more information, contact Maria Beckman, Ext. 5483.

## CALENDAR OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (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, 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.

**Mondays: BNL Social & Cultural Club**  
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, [alforque@bnl.gov](mailto:alforque@bnl.gov).

**Mondays: Pilates/Yoga**  
12:15 p.m., Rec. Hall. Ext. 5090.

**Mondays & Thursdays: Kickboxing**  
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

**Mon., Tue. & Thu: Ving Tsun Kung Fu**  
Noon-1 p.m., Brookhaven Center, North Room. Taught by Master William Moy. Tuition. Scott Bradley, Ext. 5745 or [bradley@bnl.gov](mailto:bradley@bnl.gov).

**Mon., Thurs., & Fri.: Tai Chi**  
Noon-1 p.m., Brookhaven Center North Rm. Adam Rusek, Ext. 5830, [rusek@bnl.gov](mailto:rusek@bnl.gov).

**Tues. & Thurs: Jazzercise**  
Noon, Rec. Hall. Ext. 5090.

**Tuesday & Thursday: Aerobic Fitness**  
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, [flood@bnl.gov](mailto:flood@bnl.gov).

**Tuesday & Thursday: Aqua Aerobics**  
5:15 p.m., Pool. Ext. 5090.

**Tuesdays: Welcome Coffee**  
10 a.m.-noon, apartment area gazebo. First Tuesday of every month is special for Lab newcomers and leaving guests. Lisa Yang, 979-3937.

**Tuesdays: BNL Music Club**  
Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

**Tuesdays: Jiu Jitsu Club**  
6:30-7:30 p.m. Gym. All levels, ages 6 and above. \$10/class. Tom, Ext. 4556.

**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/](http://www.bnl.gov/bera/activities/toastmasters/).

**Tue., Wed. & Thu: Rec Hall Activities**  
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

**Wed. & Fri: On-Site Play Group**  
10 a.m.-noon, Recreation Bldg. An infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238.

**Wednesdays: Ballroom Dance Class**  
Brookhaven Center, N. Ballroom. Instructor: Giny Rae. Arup Ghosh, Ext. 3974; Donna Grabowski, Ext. 2720; or Vinita Ghosh, Ext. 6226.

**Wednesdays: Weight Watchers**  
Noon-1 p.m. Michael Thorn, Ext. 8612.

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

**Wednesdays: Pilates/Yoga**  
5:15 p.m., Rec Hall. Ext. 5090.

**Thursdays: Reiki Healing Class**  
Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.

**Fridays: Family Swim Night**  
5-8 p.m. BNL Pool. \$5 per family.

**Fridays: BNL Social & Cultural Club**  
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. 7-11:30 p.m. North Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, [alforque@bnl.gov](mailto:alforque@bnl.gov).

### CIGNA: Tuesdays, Bldg. 400

A CIGNA Healthcare representative will be on site in Human Resources, Bldg 400, on Tuesdays, to assist you with any claims issues that you have been unable to resolve yourself. Janice Petgrave will be available for 30-minute meetings, by appointment only, 10 a.m.-1 p.m. Bring all pertinent documentation to your meeting. To schedule, call Linda Rundlett, Benefits Office, Ext. 5126.

## 2006 — Warmest Year on Record at BNL

While two late December blizzards paralyzed the Midwest, Long Islanders were enjoying mostly mild temperatures with no snow during the entire month. According to weather statistics recorded at BNL since 1949, 2006 brought the warmest December on record for Long Islanders with a monthly average temperature of 40.9 degrees Fahrenheit (°F), as well as the warmest November, with an average temperature of 48.6°F.

In fact, with an average annual temperature of 53.2°F, 2006 was the warmest year ever recorded at the Laboratory.

"For the last decade, we've had above-normal yearly temperatures at Brookhaven Lab," said meteorologist Victor Cassella of the Environmental Sciences Department. "I think that trend will continue, along with fairly frequent major weather events, including heavy rain, strong winds, and periods of



Roger Stoutenburgh 02000402

drought. Fortunately, weather forecasting is more precise than ever, and meteorologists can keep the public informed so that those affected will be prepared to handle these events."

With total annual precipitation of 61.59 inches, 2006 was the fourth-wettest year on record at the Lab. The most rainfall occurred on April 22-23, when 5.25 inches of rain

soaked the ground. A severe thunderstorm on July 18 brought 1.5 inches of rain and wind gusts of 72 miles per hour, causing power outages. October 27-28 brought another 3.5 inches of rain to the area.

Snowfall in the 2005-2006 snow season was 30.5 inches, slightly below the average seasonal snowfall of 31.2 inches and far below the 78.5 inches of snowfall

recorded in the 2004-2005 snow season. On February 11-12, some 14 inches of snow fell on the Lab site, and 26.9 inches of snow fell in New York City, an event remembered as the "North American blizzard of 2006."

In contrast to the 2005 hurricane season, which brought numerous tropical storms and hurricanes to the U.S., including the devastating Hurricane Katrina, none of the five hurricanes or five tropical storms that developed in the Atlantic hit the U.S. mainland in 2006.

While no record daily low temperatures were set in 2006, three record daily highs were recorded. On January 21, the thermometer hit 57°F, beating the record of 53.5°F set in 1979. August 1 brought a high temperature of 96.5°F, 1.5 degrees higher than the previous high set in 1999, and the temperature climbed to 99.5°F on August 3, beating the record set in 2005 by three degrees. — Diane Greenberg

(cont'd)

### BNL Honors Five Employees With Engineering Awards

adopted at other facilities and are the basis for a commercial product (Bergoz receivers). They also were an enabling technology for the global orbit feedback system pioneered at the NSLS, which provided unprecedented beam stability. Biscardi has also leveraged his extensive knowledge to help the Lab develop practical methodologies to address issues in electrical safety. The BNL Engineering Award acknowledges Biscardi's tangible contributions to the technology base of the Laboratory, as well as his efforts in promoting a safe and healthy working environment for his colleagues.

— Kendra Snyder

#### Edmond Desmond

Edmond Desmond, an applications architect in the Physics Department, is one of the key software engineers responsible for the design of the PHENIX data acquisition software. He played a central role in the design and construction of almost every part of the PHENIX online software, from the early conceptual designs to the development of models and prototypes to the present implementation of one of the fastest data acquisition systems in the world. Throughout this endeavor, he contributed many of the principal ideas and essential methodologies, and then worked tirelessly to bring the highest standards of software engineering to the project. While his contributions to PHENIX have been recognized as extremely valuable for several years, his achievements during the past year were exceptional, and his work was outstanding in integrating the online Level 2 filtering in the farm of computers making up the Event Builder. Also, his software to

configure and control writing data has streamlined offline analysis and led to more rapid production of physics results. This work contributed directly to the success of the PHENIX experiment, since the high rate data acquisition system has enabled the great physics reach of the PHENIX experiment to observe rare processes through the unparalleled quantity of data recorded. — Liz Seibert

#### Gary McIntyre

Gary McIntyre, a senior project engineer in the Collider-Accelerator Department (C-A), is recognized for his outstanding performance in using his engineering, organizational, and supervisory skills to complete a variety of engineering projects. For 18 years, he has served BNL in roles of steadily increasing responsibility and is now the Group Leader for the Relativistic Heavy Ion Collider (RHIC) Mechanical Support Group and Lead Engineer for the newly formed Energy Recovery Linac (ERL) and e-cooling projects. He has been the engineer for critical components in the Alternating Gradient Synchrotron (AGS) and RHIC vacuum system, and his success in completing the RHIC magnet installation was critical to the overall project. His significant efforts have included his work as group leader for RHIC magnet and Siberian Snakes installation and on the multi-million dollar AGS Vacuum System Accelerator Improvement Project. At the ERL, he was instrumental in developing the novel ultra-high-current superconducting RF cavity and helped coordinate many key facility requirements. Focused on quality, testing, and safety, McIntyre has successfully tackled many challenging engineering as-

signments with high dollar value and/or critical schedule outcome. He has demonstrated sound engineering judgment and ability on all of these projects, along with the skill to utilize people and resources efficiently to complete these tasks. — Liz Seibert

#### Shigeki Misawa

Shigeki Misawa, a Manager I in Physics, is the primary author of the cyber-security and data storage architecture of the Relativistic Heavy Ion Collider and US ATLAS Computing Facilities, which serve as primary computing facilities of the two corresponding BNL physics programs. His contributions to the design and implementation of the overall architecture of these facilities, over many years, were vital to their success. These contributions include cyber-security defenses, an authentication and authorization system, and the mass storage system. The challenge was to set up a unified up-to-date underlying architecture for facilities that are being established over a period of several years within the context of very rapidly evolving computer technology. Misawa's thorough understanding of leading edge computing technologies made it possible to adopt high-performance, secure solutions that allow effective access to massive amounts of data by world-wide distributed collaborations. Extensive technology tracking permitted him to anticipate technical directions in many cases, adapt the architecture when unexpected technologies appeared, and realize a high degree of technical coherency in the facilities. His contribution to these facilities has significantly enhanced their security, performance, robustness, and

scalability. They are now serving the computational and data storage needs of a combined community of 2,500 physicists in 30 countries. — Liz Seibert

#### Alexander Pendzick

Alexander Pendzick, a Research & Development Manager 2, heads the Facilities and Experimental Support Group in the Collider-Accelerator (C-A) Department. He is recognized for his outstanding accomplishments in project management, engineering, design, construction and operations in support of the C-A experimental program. Pendzick received the Brookhaven Award in 1995 in recognition of his many accomplishments up to that time, but his exceptional achievements since then in completing many challenging tasks either as a lead engineer or as the engineering group leader have earned him new recognition.

Pendzick's engineering, design, and construction successes have supported many areas. These include a very wide range of contributions to the five Relativistic Heavy Ion Collider (RHIC) experiments: BRAHMS, PHENIX, PHOBOS, PP2PP and STAR as well as Alternating Gradient Synchrotron (AGS) experiments and beam lines, and the NASA Space Radiation Laboratory. Pendzick is the lead C-A engineer for the conventional facilities of the EBIS Project, which is the first stage of the evolution of RHIC. For example, he and his group designed, specified, and provided oversight for the construction effort that completed the beam line penetration between the LINAC and Booster tunnel needed for EBIS. He also continues to serve on various BNL committees to improve the health and safety for all at BNL. — Liz Seibert

### Pick a Summer Student

Student applications for the summer 2007 undergraduate science internship programs sponsored by DOE's Office of Workforce Development for Teachers & Scientists are now available for review on an electronic database. Contact Kathy Gurski of the Office of Educational Programs (OEP) at Ext. 4503 or [gurski@bnl.gov](mailto:gurski@bnl.gov) for the database address and passwords.

Selections for the first round choices must be submitted by February 28. Students will be here for ten weeks, from June 4 to August 20. Stipends, housing, and travel are funded through OEP with a \$1,000 cost share requested from the hosting department. See [www.bnl.gov/education/](http://www.bnl.gov/education/) for more information.

### Cashier Hours Change — Now Open AM

Effective immediately, the Cashier's Office, in Bldg. 134, will be open from 9:30 a.m. until 11:30 a.m. Previously, the hours were 1:30-3:30 p.m.

### Retirement Counseling — TIAA-CREF

A TIAA-CREF consultant will visit BNL on Tuesday, Wednesday, and Thursday, February 13-15, to answer employees' questions about their financial matters. For an appointment, call Arlene Lyons, (866) 842-2053, Ext. 4629.

# Battelle, BNL Sponsor FIRST LEGO League Tournament Plainview Students Win BNL-Sponsored Award

About 350 middle school students, primarily from Long Island, learned about nanotechnology at the FIRST LEGO League Tournament held at Longwood High School on January 21. The tournament is an international program created in a partnership between a not-for-profit organization called FIRST (For Inspiration and Recognition of Science and Society) and the LEGO Group, the world's sixth largest toy manufacturer, based on their belief that fun and learning go hand-in-hand.

The tournament at Longwood engaged students in scientific research and hands-on robotics design, with an emphasis on nanotechnology and how it can solve real-world problems. Battelle and BNL were the primary sponsors of the tournament, and School-Business Partnerships of Long Island, Inc., coordinated the event.

Nanotechnology is a new frontier in science that promises to impact many facets of society, from computers to medicine. Later this year, BNL will open the Center for Functional Nanomaterials, which will provide scientists with state-of-the-art facilities to study materials at nanoscale dimensions – typically, a few billionths of a meter, or about 10,000 times smaller than a human hair.

"It was inspiring to see the enthusiasm of all the youngsters in the tournament," said



Accompanying the award-winning Plainview Long Island Robotics Club members are (center, back) Emilio Mendez, Director of BNL's Center for Functional Nanomaterials; (far right) Gail Donoghue, head of BNL's Science Learning Center; and team coaches (back row, from center to right) Jeffrey Sass, Stephanie Stern and Lisa Cohen. (Image courtesy of Mesmerize Productions.)

Emilio Mendez, Director of BNL's Center for Functional Nanomaterials, who was a keynote speaker at the event. "Perhaps some of them will build a career in nanoscience. Personally, I am looking forward to the opening of the new nanocenter at Brookhaven Lab, where about 300 scientists from the Northeast will perform cutting-edge research in the field."

Some of the 35 teams in the tournament built robots to perform specified tasks using robotic toolsets manufactured by LEGO. Other teams created written and oral research projects based on their studies of nanotechnology. Most teams participated in both the hands-on contest and the research component.

The Long Island Robotics Club of Plainview won the Technology Transfer Award sponsored by BNL. The Plainview group presented a research project in which they developed a storybook, a nano-board game, and a fact book titled "How Can Nano Technology Help the Earth and Things That Live On It?"

Gail Donoghue, a BNL judge, said, "The team that won the Brookhaven award presented their research in a very understandable and fun format, and their project will be displayed in the Lab's Science Learning Center." More than 28,000 visitors, mainly students from local elementary and middle schools, engage in science-related activi-

ties at the center each year.

A team from Windham, New Hampshire, won both the first-place Robot Performance Award and the most prestigious Champion's Award, and they will have the opportunity to participate in the FIRST LEGO League World Festival, to be held April 12-14, 2007, in Atlanta, Georgia.

First-place winners also included: a team from Port Washington, who won the Research Project Award; Bayport-Blue Point, who won the Robot Design Award; another Plainview team, who won the Teamwork Award, and Longwood Middle School students, who won both the Rising Star and Judges' Awards. — Diane Greenberg

## Arrivals & Departures

— Arrivals —

Imke Bodendiek..... NSLS  
Kimberley Elcess.....IP&SR  
Michael Ernst..... Physics  
William Garber..... CMP&MS  
Huan Guo..... Env. Sci.  
Boris Morozov..... Physics  
Michael Pedersen..... Plant Eng.  
Fabien Tarrade..... Physics  
Scott Yuan..... C-A  
Patricia Wescott..... Plant Eng.

— Departures —

James Alduino..... C-A  
Gary Gross.....Dep. Dir. for Ops  
Zoran Radovic..... CMP&MS

## Affordable Dining at the Center

At the Brookhaven Center, Bldg. 30, the Center Restaurant is open 5-10 p.m., Monday through Thursday. During the work week, a full menu of dinners is offered 5-8 p.m., with a more limited menu available 8-9 p.m. In addition, there are nightly dinner specials, 5-6:30 p.m., with soup or salad, choice of several entrées, glass of wine or soda, dessert, and coffee or tea — all for \$10.95 or \$9.95 plus tax (no take-out). Or, on Wednesdays, have 10 oz. of ribeye steak, vegetable, and starch of the day, with a 7 oz. Budweiser, for \$11.95 plus tax; on Thursdays, have a menu burger or sandwiches at half-price; and on Fridays, enjoy a free buffet, 4:30-6:30 p.m., with a 7 oz. Bud for \$1, or mixed drinks at half price.

## BSA Noon Recital: Anna Stoytcheva, 2/21

On Wednesday, February 21, at noon in Berkner Hall, Anna Stoytcheva, winner of the "Ettore Pozzoli" International Piano Competition, will play works by Brahms and Rachmaninoff. Sponsored by BSA, the company that manages BNL, noon recitals are free and open to the public. Visitors to the Lab of age 16 and older must bring a photo ID.

## Then & Now Then

The official contract creating BNL was signed between Associated Universities, Inc., and the newly formed Atomic Energy Commission on January 31, 1947, but planning for the Lab was already well under way. A prime goal was to build a nuclear reactor, the first built for peacetime atomic research, to be available to the

scientific community of the Northeast. Lyle Borst, the supervisor of research at the second nuclear reactor constructed during the war, the X-10 at Oak Ridge, came to Upton to lead design and construction of the Brookhaven Graphite Research Reactor (BGRR), still visible now as Bldg. 701, on Rutherford Hill. More "then" photos of this

great facility will be shown in the next Bulletin, before the final "now." Meantime, here are two of the first. The fascinating story of this time at the Lab is in *Making Physics*, which includes physics, chemistry, life sciences, and more. Written by Lab historian Robert Crease of Stony Brook University, it is for sale at the BERA Store. History and

many photos of the BGRR are on the BNL homepage at [www.bnl.gov/bnlweb/history/resources/bgr\\_pics.asp](http://www.bnl.gov/bnlweb/history/resources/bgr_pics.asp). The Bulletin also asks for tales of old times and the loan of old photos of places and people, to be scanned for publication and returned. Please contact Liz Seubert, [lseubert@bnl.gov](mailto:lseubert@bnl.gov) or Ext. 2346 with stories or photos. — Liz Seubert



At the controls of a crane belonging to H.K. Ferguson Company, the contractor that built the Brookhaven Graphite Research Reactor (BGRR), BNL project leader Lyle Borst ceremoniously scooped out a bucketful of earth at the groundbreaking ceremony on 11 August, 1947.



In October 1948, the BGRR construction site was toured by (from left), George Pegram, Columbia University; Harold Dodd, president of Princeton University; Frank Fackenthal, Columbia; either\* Karl Hartzell, Associated Universities, Inc., or\* Henry Smyth, Princeton; David Gurinsky, BNL; Leland Haworth, BNL Director; Dwight Eisenhower, president of Columbia; Charles Seymour, president of Yale University; William Watson, Yale; George Brakeley, Princeton; Edmund Sinnott, Yale; and Isidor I. Rabi, Columbia. \*Any thoughts on this ID problem? Contact [lseubert@bnl.gov](mailto:lseubert@bnl.gov), Ext. 2346.

## CALENDAR

— TODAY —

Today, Friday 9

**Talk by State Senator LaValle**  
10:15 a.m. Berkner Hall. All are encouraged to attend the talk by State Senator Ken LaValle, who was instrumental in obtaining low-cost electric power rates for BNL and more. See notice, page 1.

— WEEK OF 2/12 —

Wednesday, 2/14

**\*Blood Drive**  
9:30 a.m.-3 p.m. Brookhaven Center. Your gift of life is very much needed. For information on how to make an appointment to donate, see page 4.

Thursday, 2/15

Women, Food & Relationships  
Noon-1 p.m. Berkner Hall, Room B. "The Hungry Heart: Women, Food & Relationships," talk by Nancy Losinno, Employee Assistance Program Manager. Register with Michael Thorn, Ext. 8612.

**\*OHSAS 18001 Celebration**  
3-30 p.m. Berkner Hall lobby. All are invited to come celebrate BNL as the first Lab in the DOE complex to achieve full OHSAS 18001 registration, an internationally recognized health and safety management standard. Light refreshments.

— WEEK OF 2/19 —

Monday, 2/19

**Lab Closed for Presidents' Day**  
No Bulletin this week.

Tuesday, 2/20

**BJ's Wholesale Club**  
11 a.m.-1 p.m. A BJ's rep will have special offers for new and renewing club members.

Wednesday, 2/21

**\*BSA Noon Recital**  
Noon. Berkner Hall. Pianist Anna Stoytcheva will play. See notice at left.

**Brookhaven Lecture**  
4 p.m. Berkner Hall. Yangang Liu, Environmental Sciences Department, will talk on "Aerosols, Clouds, & Climate — From Micro to Macro." All are welcome to this free lecture. Visitors to the Lab of 16 and older must carry a photo ID.

Saturday, 2/24

**\*Gathering of the Slides V, Blues**  
7 p.m. Berkner Hall. Great blues. See notice on page 4.

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.

## Service Anniversaries

The following BNLers celebrate service anniversaries during December 2006.

30 years  
Donald Gates..... Info. Tech.  
25 years  
Theodore D'Ottavio..... C-A  
20 years  
Charles Gardner..... C-A  
Richard Geib..... Plant Eng.  
10 years  
William Licciardi..... Physics  
Galathara Kahanda.....Chemistry  
Charles Beihl.....Fiscal  
Cheryl Burke.....Fiscal  
Carol Rooney...Env. & Wste Svcs.

Addition

The Bulletin regrets having inadvertently omitted a previous Service Anniversary announcement. Among BNLers celebrating service anniversaries in July 2006 was:

20 years  
Mark Opisso.....S&SD

## 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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at [www.bnl.gov/HR/jobs/](http://www.bnl.gov/HR/jobs/).

The Deputy Director has exempted the following positions from the freeze.

**OPEN RECRUITMENT** – Opportunities for Lab employees and outside candidates.

**MK4142. POSTDOCTORAL RESEARCH ASSOCIATE** – Requires a Ph.D. in condensed matter physics or chemistry and familiarity with scientific computing and programming desirable. Will be expected to conduct theoretical investigation of the self-assembly of correlated electronic nanomaterials and their optical, magnetic, and transport properties using computational “first-principles” methods and quantum many-body techniques. Under the direction of W. Ku. Condensed Matter Physics & Materials Science Department.

**MK4466. POSTDOCTORAL RESEARCH ASSOCIATE** – Requires a Ph.D. in organic chemistry with experience in organic synthesis and interest in applying chemistry to problems in the biological sciences. Must be interested in participating in NIH and/or DOE sponsored research focusing on radiopharmaceutical research and development. Employment is contingent upon successful completion of a background check by the Drug Enforcement Agency. Under the direction of J. Fowler. Medical Department.

**MK4454. ASSISTANT MEDICAL SCIENTIST (S-1)** – Requires a Ph.D. in radiation biology, neurobiology, molecular biology or related field, postdoctoral experience, experience in cell culture, and good communication skills. A willingness to work with U.S. and international investigators is essential. Extended and irregular hours may be required in order to support users. Must be willing to travel to national and international scientific conferences/meetings. A strong background and/or expertise in radiation biology and previous experience in accelerator-based radiobiology, or in carrying out research away from the home institution are desirable. As part of a NASA sponsored project, will join a team of heavy ion beamline scientists providing expertise, support and guidance to NASA-sponsored radiobiology investigators at the NASA Space Radiation Facility and at the Medical Department Long-Term support facility (<http://bnl.gov/medical/NASA/LTSF.asp>). For additional information see: <http://www.bnl.gov/medical/Personnel/Guida/Guida.htm>. Employment is contingent upon successful completion of a background check by the Drug Enforcement Agency. Under the direction of P Guida. Medical Department.

**MK4312. POSTDOCTORAL RESEARCH ASSOCIATE** – Requires a Ph.D. in computer science or physics and excellent communication skills. Experience and/or knowledge fundamentals in a Grid environment would be an asset. Position is with the RHIC/STAR experiment with primary duties including work on a cross-project research/industry. Research will be carried in the RHIC/STAR and with the Open Science-Grid (OSG) communities as a Java/web services developer. This project is aimed at developing and integrating user level job tracking and monitoring Grid services components and technologies. STAR is a large collider detector experiment at the Relativistic Heavy Ion Collider to search for a new state of matter thought to have existed shortly after the creation of the universe. Under the direction of J. Lauret. Physics Department.

**MK3764. POSTDOCTORAL RESEARCH ASSOCIATE** – Requires a Ph.D. in theoretical, physical or computational chemistry or a related field, experience in electronic structure calculations and a thorough understanding of the theory underlying the methods. Experience in the following areas is desirable: computational characterization of transition-metal complexes and organometallic compounds, computational elucidation of reaction pathways in homogeneous catalytic processes,

theoretical characterization of the thermodynamics of proton-and electron-transfer reaction in solution, including electrochemistry. A strong background in physical inorganic chemistry is a plus. Research will explore the production of solar fuels (methanol, hydrogen) through low-energy paths using photochemically produced hydride donors on transition-metal complexes. Under the direction of J. Muckerman. Chemistry Department.

**NS3533. TECHNICIAN (TW-2, reposting)** – Requires a high school diploma or equivalent capabilities plus several years' relevant work experience. Position involves working on both Saturday and Sunday and off-hour shifts during the regular workweek. Under close supervision, performs semi-routine technical support functions. Will monitor and correct real-time facility problems during off-hours shift for RHIC/US ATLAS Computing Facility. With a general knowledge of principal hardware and software components of the facility, based upon established procedures, will troubleshoot problems as reported by monitoring systems or users. As necessary, will direct significant problems to appropriate technical experts. In addition, will participate in general operation of the facility, documentation of its services and communication with its users. Physics Department.

### Motor Vehicles & Supplies

**04 FORD EXPLORER XLT** - 4dr., 4x4, a/t, 6cyl., new tires, auto start, tow pkg., more, excel. 78K mi. \$11,750. 926-6421.

**03 HYUNDAI TIBURON** - 6-spd., sports pkg., fully equipped, excel. cond. 30K mi. \$11,000. Ext. 5149 or 929-0961.

**99 NISSAN SENTRA GXE** - 4cyl, a/t, p/w, a/c, cd player, good cond. 108K mi. \$3,500. Peter, Ext. 2879 or 806-9257.

**98 CHEVY MONTE CARLO** - 6cyl., 2dr., a/c, sbwoof, ampl., abs, c/c, p/s, must sell 110K mi. \$850/neg. Pavel, Ext. 5497 or 882-9729.

**98 DODGE GRD CARAVAN** - 6cyl, a/c, cd, c/c, p/l, rec. tuned trans. & eng. 170K mi. \$1,800/neg. Patrick, Ext. 4638 or 872-8961.

**97 HONDA ACCORD LX** - 4cyl., a/t, good cond., new trans. 195K mi. \$3,800/neg. Ext. 7696 or 236-3414.

**95 FORD WINDSTAR** - 6cyl, a/t, dual a/c, p/w, p/s, p/l, a/fm/cass, abs, r/rack, orig. ownr, gd cond. 100K mi. \$1,680/neg. Ext. 3294.

**95 TOYOTA COROLLA** - a/t, a/c, am/fm/cass, air bags, abs, p/s, p/l, p/w, gd cond. 137K mi. \$2,400/neg. Etsuko, Ext. 4356.

### Boats & Marine Supplies

**21' REGAL SF CUDDY** - rebit MC eng., trailer, swim pfm, fishfinder, vhf, 2 fish wells, porto potty. \$3,000/neg. Joseph, Ext. 3082 or 585-0655.

### Furnishings & Appliances

**CRIB** - Baby Italia, pecan w/drop side, converts to toddler bed, excel. cond., \$150; mattress, \$40. Alex, Ext. 3037.

**HEADBOARD & FOOTBOARD** - for twin size bed, solid maple. \$30. 286-1018.

**FLORAL WREATH** - extra lg., blue & pink hydrangeas, beautiful. \$40. Mary, Ext. 3670.

**STOVE** - gas, GE Spectra mdl XL44, over-size oven, spec. burners, 30wx26dx47h, like new. \$300. Ext. 3492 or 734-2593.

**TV CENTER STAND** - shelves and cabinets, assembled but never used, opening for 32" TV. \$40. 289-4327.

### Audio, Video & Computers

**COMPUTER** - Compaq desktop, hd broken, but fixed you get Windows 95, Intel Pentium III & DVD. \$5. Molly, Ext. 2362.

**GUITAR** - Fender Alexxus 30 model acoustic guitar, mahogany back & sides, new strings, excel. cond. \$250. Ext. 2913.

**PIANO** - Winter upright, good cond., needs tuning after move. Was \$1,000 reduced to \$700. 286-1018.

**TV** - 65" Mitsubishi big screen HDTV, good cond., you pick up, Ridge, make offer. 924-6395.

### Sports, Hobbies & Pets

**SKIS & BOOTS** - Head 190cm w/Salomon 800 bind, \$35; Salomon size 11, \$25. Ben, Ext. 5879.

**UNUSED GAMES** - unopened 300 poker chip set, 4 decks of cards, 2 Madlils books, Jax game. \$15 all. Molly, Ext. 2362.

### Miscellaneous

**BOOTS** - Men's, western style, tan colored elk hide, worn twice, size 10 1/2, cost over \$200, sell for \$25. Peter, Ext. 2913.

**CAMPING GEAR** - water container to hold extra water for campers, used 4 times, paid \$100, ask \$75. Mary, Ext. 3670.

**DRESS COAT** - full-length 100% green wool dress coat, fully lined, Donnybrook brand, size 4 petite. \$40. Molly, Ext. 2362.

**ELECTRIC HEATER** - Honeywell baseboard heater, adj. thermostat, 2 heatg levels. 1000/1500W, 40" long, \$25. Ext. 3217.

**HIGH CHAIR** - for kids, made by Cosco, vg cond., white w/blue pattern. Ask \$30. Lisa, Ext. 7524.

**WEIGHT BENCH** - brand new, Weider Pro 220 w/leg curler, 110 lbs. wts, you pick up. \$120. Mark, Ext. 2238 or 828-6459.

### Community Involvement

**HABITAT FOR HUMANITY** - New Orleans, please make donation for SB students helping rebuild, 4/1-8. Carlos, 516-606-3797.

### Wanted

**2 KNICKS TICKETS FOR BERA TRIP** - Tues., 3/20. Has anyone two extra tickets avail.? TY!. Nicole, Ext. 5098 or 525-4416.

**CAR BOOSTER SEAT** - suitable for 4-yr. old child. Ext. 2984.

**CLOTHING RACKS** - for gift to Cutchogue United Methodist Church Thrift Shop. Will pick up. Susan, Ext. 3492 or 734-2593.

**HOMESCHOOLING PARENTS** - I need advice from homeschooling parents who live in Longwood School District. Tom, Ext. 7448 or twtwtw@optonline.net.

**POOL TABLE** - and a washer and dryer. Mike, Ext. 6090.

**VIOLA** - reasonably good quality (or better), French origin preferred but not essential. Peter, Ext. 7657.

**VOLUNTEERS** - BNLers who need support in their volunteer efforts can call on Volunteers in Partnership. VIP Committee, Ext. 4458.

### For Rent

**E PATCHOGUE** - 1-bdrm. apt., pvt. ent., kit., l/r, bath, walk to water, heat/water incl. 1 mo. sec. \$950/mo. 484-2990.

**MEDFORD** - 1-bdrm. bsmt. apt., pvt. ent., l/r, kit., full bath, all util, internet & cable incl., no pets/smg., 15 min. to BNL. \$875/mo. Betty, Ext. 3562 or 758-2653.

**MIDDLE ISLAND** - room in t/house, share kit., bath, l/r, armties. incl. pvt. prkg., igp, clubhse, nonsmg female pref., incl. all. \$650/mo./neg. Francine, 662-8239.

**N. SHIRLEY** - 1-bdrm. apt., grd level, fully furn., pvt. ent., 4 min. to Lab., util. incl., single, no pets/smg. \$800/mo. 281-3479.

**NESCONSET** - 1 furn. rm. in 2-bdrm. apt, share bath, kit. & l/r, short term, avail. Feb 11 - Apr 22. \$185/wk. Mark, Ext. 2247.

**PORT JEFF STATION** - lg. studio apt., lg. closet, full kit., full bath, sep. ent., cable, heat, water, elec. incl., off-str. park., easy access to 347, SB train. \$850/mo. 988-1147.

**SHIRLEY** - lg. 1 bdrm., kit., l/r, full bath, pvt. ent., cable incl. + util., 10 min. to BNL, no pets/smg., 1 mo. sec. \$900/mo. Maria, 399-1756.

**YAPHANK** - fully furnished studio apt., 4 miles from Lab, high speed internet, all incl., avail. 2/1. \$850/mo. 924-3049.

### For Sale

**BROOKHAVEN** - 4-bdrm., 2-bath cape, cac, oil ht., full bsmt., 2-car gar., new kit. & baths, by wooded preserve, peren. & organic veg. gardens. \$459,000 286-2505.

**MEDFORD** - Blue Ridge Condo devel., indr, outdr. pools, tennis, golf, updated 3 bdrm., 1.5 bath, l/r, d/r, kit., 2-lvl deck, on 6th hole. \$334,900/neg. Ext. 3995 or 696-4366.

**MILLER PLACE** - 4/5 bdrm, 3300 sq ft, cac, d/r, l/r, den, 2.5 baths, s/s appls. granite, w/d frs, f/p, full bsmt., 3/4 fenced acre w/pond. \$775,000/neg. 642-8043.

**SHOREHAM** - 5-bdrm., 2-bath ranch, move-in cond., brand new appl., dr/way, cac, heating syst. & hwh, f/p, ins, fenced yard, 18x18 shed. \$369,900/neg., 848-8072.

**WADING RIVER** - 4 bdrm., 2 1/2 bath, very lg. kit., den with f/p, formal d/r and l/r, lg. front porch, 2-car gar., full bsmt., excel. cond. \$589,000 Julie, 929-4153.

### On-Site Services

**ENTERPRISE RENT-A-CAR** - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see [www.enterprise.com](http://www.enterprise.com).

**ON-SITE SERVICE STATION** - All vehicle services, NYS inspections, new batteries, tires, timing belts, repairs, etc., done while you are at work. Ext. 4034.

### In Appreciation

Thank you all very, very much. You are all very, very special. — Leon

### Defensive Driving, 2/17

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held on Saturday, February 17, in Room B, Berkner Hall, 9 a.m.-3:30 p.m. Organized by the ESH&Q Directorate, and delivered by EAS Associates, the course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$30 per person.

Preregistration is required. To register, call Edward Sierra, 821-1013, and leave a message with your phone number. For more information, call Sarah Wiley, Ext. 4207.

### Valentine's Day Blood Drive, 2/14

BNL will hold a blood drive on Valentine's Day, Wednesday, February 14, 9:30 a.m. - 3 p.m. at the Brookhaven Center. Donors must be 16 to 75 years of age, in good health, and weighing over 110 lbs. Restrictions may apply to individuals from the United Kingdom and Europe. Donors should have photo identification and know their social security number. To make an appointment, log on to the Human Resources webpage, click on "Blood Drive" and select "Schedule an Appointment." For more information, contact Susan Foster, Ext. 2888, or Liz Gilbert, Ext. 2315.

### 'The Gathering of the Slides V' Concert, 2/24 With the Kerry Kearney Band, Little Toby Walker, Kane Daily Band & Dee Harris

"The Gathering of the Slides V," a blues concert featuring the Kerry Kearney Band, Little Toby Walker, the Kane Daily Band, and Dee Harris will be held on Saturday, February 24, at 7 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID. Tickets cost \$15 each and may be purchased at [www.ticketweb.com](http://www.ticketweb.com) or at the BERA Store. Buy early — "The Gathering of the Slides" concerts are often sold out.

Back for a fifth year at BNL, the Kerry Kearney Band brings down the house with their unique, high-energy sound known as "Psychedelta." Kearney's electric band features Kearney on slide guitar, Tony Campo on keyboard, Frank Celenza on bass, Eileen Murphy on drums, and Charlie Wolfe on harmonica. The band has been featured in many local clubs, New York City venues, and several music festivals, including the Riverhead Blues Festival.

Winner of the prestigious 2002 Memphis International Blues Challenge, Little Toby Walker is a gifted finger-style guitarist, singer, songwriter and storyteller whose music draws from traditional and contemporary blues, western swing and ragtime.

The Kane Daily Band brings a mix of blues-oriented classic rock'n'roll and Delta as well as Chicago-oriented blues to their act. Besides Daily on slide guitar, the Kane Daily Band features bassist George Ellert and drummer Dave Cobb.

A guitar player for over 30 years, Dee Harris plays in local clubs, such as The Barefoot Peddler, Greenvale, and the Cherrywood Café, Wantagh.

### Come to the Holi Festival of Colors, 3/10

The BERA Indo-American Association (IAA) invites all to a Holi Function, a festival of colors, on Saturday, March 10, at Berkner Hall. Audiences will welcome spring by enjoying traditional songs, dances, and music from the Indian subcontinent. The cultural program will start at 1:30 p.m., an intermission and snack will start at 3:30 p.m., and the cultural program will resume at 4 p.m. More information on the event is available at the Holi Function Homepage: <http://www.bnl.gov/bera/activities/iaa/holi2007/>.

### Performers Needed

If you or your family or students are interested in performing in this show, apply by Thursday, 2/15, at [www3.bnl.gov/bera-iaa/holi/event\\_form.php](http://www3.bnl.gov/bera-iaa/holi/event_form.php). You will be notified by e-mail if your request to perform is accepted.

### Science, Arts, Cultural Displays

The IAA would appreciate the offer of displays related to the science, arts, culture, etc. of the Indian subcontinent. Please apply with a description of your idea at the above web address.

### Tickets

Make all reservations, including modifications and cancellations, on the web at [www3.bnl.gov/bera-iaa/holi/reserve\\_form.php](http://www3.bnl.gov/bera-iaa/holi/reserve_form.php). Tickets are: \$6/adults; children 3-12/\$3. Infants may attend free, but include the infant's name in your reservation, for insurance purposes. After March 2, prices rise by \$1. Tickets are subject to availability and are not confirmed until paid.

### Change in BERA Board Voting

Brookhaven Employee Recreation Association (BERA) was founded more than 50 years ago to promote fitness and social activities at BNL. The BERA Executive Board is responsible for suggesting and governing trips, activities, clubs, events, and policies. All employees & guests at BNL may be voted onto the Board.

BERA traditionally begins the election process each January for positions on the Board. However, to save time and labor, the current BERA Executive Board has voted unanimously to hold elections every two years, a decision approved by Christine Carter, BERA Recreation Supervisor. The next elections will now be in March 2008, with four Board positions available. For more information on the BERA organization and the roll of the Executive Board, see the Administrative Manual at [www.bnl.gov/bera](http://www.bnl.gov/bera).

BERA members are employees and retirees of BNL, BSA, the DOE Brookhaven Site Office, and members of their immediate families; persons with BNL or BSA guest, user, and visiting appointments, and members of their immediate families; employees of permanent on-site employers (such as the cafeteria, credit union, Upton Post Office, etc.), and members of their immediate families. You are a BERA member when you receive your photo ID badge and life number. For assistance with BERA related questions or for more information, call the Recreation Office Ext. 2873.

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

Bldg. 134, P.O. Box 5000  
Upton, NY 11973-5000  
phone: (631) 344-2345  
fax: (631) 344-3368  
e-mail: [bulletin@bnl.gov](mailto:bulletin@bnl.gov)