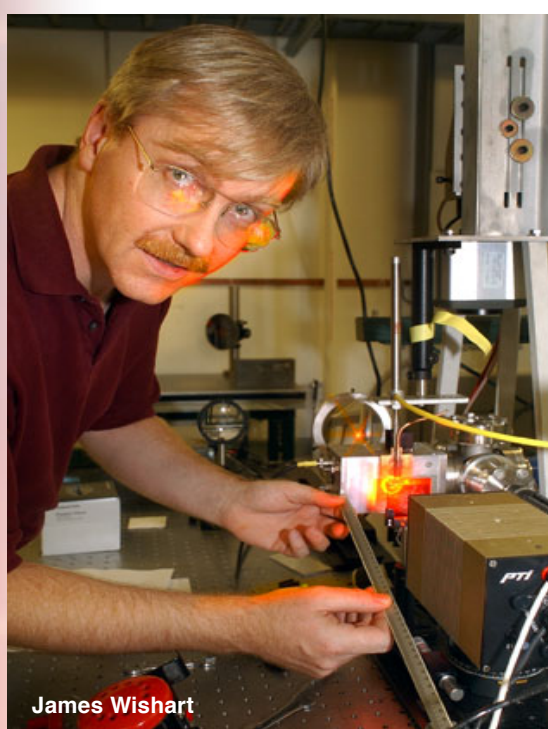


Brookhaven Spotlights

Issued periodically, Brookhaven Spotlights puts some of the latest newsworthy developments at BNL in the limelight. This month, the spotlight is on research that Lab scientists presented at the 224th American Chemical Society meeting, August 18-22, 2002. — Karen McNulty Walsh

New Class of Solvents May Clean Up Radioactive Waste



James Wishart

Scientists at BNL are investigating whether ionic liquids might be useful as solvents for cleaning up radioactive waste. The new solvents are made of positive and negative ions, as are sodium chloride and other common salts that form ordered crystalline solids. But the new solvents are liquid at room temperature because the ions are chosen so that they pack very poorly to form weak crystals.

Ionic liquids offer many benefits over traditional solvents, says James Wishart, Chemistry Department, because they don't evaporate or burn and can probably be used over and over again. Another reason that they might be useful in breaking down nuclear waste is that they often contain boron and/or chlorine, two elements that block neutrons from starting unwanted nuclear chain reactions.

But before ionic liquids are put to the test in cleaning up spent fuel and other nuclear waste, the scientists need

to know if these liquids can withstand the radiation. To find out, Wishart and his colleagues bombard samples of various ionic liquids with a beam of high-energy electrons generated by BNL's Laser Electron Accelerator Facility (LEAF).

The electron pulses and resolution of LEAF allow scientists to follow chemical changes within trillionths of a second and observe the reactions of the short-lived primary radicals produced by the radiation.

"Accumulation of radiation damage depends on the yields and reactivity of the primary species," Wishart said. "Looking at these fast reactions will allow us to determine which ionic liquids can tolerate radiation and how they can be made even more stable."

Wishart presented a talk on this work, which was funded by DOE's Office of Science, Division of Chemical Sciences, during the "Ionic Liquids as Green Solvents: Progress and Prospects" session.

Tweaking Charges and Spins in Oxides

When complex metal oxides are cooled to low temperatures, the charges and spins of the metal ions can arrange themselves in an orderly fashion. This ordering depends on the subtle details of the composition and may be advantageous in designing electronic devices and sensor applications.

In systematic studies over the last three years, scientists from BNL, Oslo University, and Ohio State University have characterized a particular family of oxides. The team has shown that minute variations in the oxygen stoichiometry, which are variations in the relative amount of oxygen, result in dramatically different ordering of charges and spins, or even the suppression of ordering.

Using high-resolution x-ray and neutron powder diffraction in combination with thermal, electrical, and magnetic transport measurements at the National Synchrotron Light Source, the research team has identified and characterized "transient phases." These phases exist only in a very narrow temperature range and when the material has a particular oxygen content. In particular, the high-resolution x-ray powder diffraction studies allowed the scientists to correlate minute lattice expansions with changes in magnetic and electronic properties.

"The fundamental understanding of these processes may help scientists in tweaking these properties so that the



Roger Stoulenburgh D0531201

materials may be applied in devices such as sensors, catalysts, and electronic components," said Thomas Vogt of BNL's Physics Department.

Vogt presented a talk on this research, which is funded by DOE's Office of Science, Division of Materials Science, during the "Metal Oxides" session.

Gold Nanoparticles Yield Better Catalysts

In the search for new catalysts to help break down air pollutants, scientists at BNL may have discovered the mystery behind a new "gold standard" — gold nanoparticles layered on ti-

tanium dioxide. Using a technique called high-resolution photoemission at the National Synchrotron Light Source, the BNL team has shown that the addition of gold, a notoriously

unreactive element, to titanium dioxide, a widely used industrial catalyst, changes the electronic properties of both materials.

The result is a catalyst that is five to ten times more reactive than ordinary titanium dioxide when it comes to adsorbing and destroying sulfur dioxide (SO₂), which is a common cause of acid rain.

"The two materials work cooperatively to dissociate the SO₂ molecule," said José Rodríguez, Chemistry Department.

Rodríguez and his team, including Gang Liu and Zheping Chang, are now investigating whether this gold-titania catalyst might also be effective at breaking down the deadly components of chemical weapons.

Liu, a postdoctoral fellow, presented this work, which was funded by DOE's Office of Science, Division of Chemical Sciences, during the "Nanoscience and Nanotechnology" session.



Zheping Chang, Gang Liu, José Rodríguez

Also of Interest at the ACS Meeting

Steven Dierker, Chairman of BNL's National Synchrotron Light Source Department (<http://nslsweb.nsls.bnl.gov/nsls/Default.htm>), gave an overview of synchrotron radiation, the facilities that produce it, and its most significant applications for research in the chemical sciences.



P.S. D5090502

Richard Hahn of BNL's Chemistry Department presented the latest results from the Sudbury Neutrino Observatory, which show evidence of neutrino oscillations (www.bnl.gov/bnlweb/pubaf/pr/2002/bnlpr042002.htm).



P.S. D1300602

Complete information about the 224th ACS meeting can be found at www.chemistry.org/meetings/boston2002.

Highlights From the August 2002 American Chemical Society Meeting

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. Bldg.) 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.

— NEXT WEEK —

Tuesday, 9/3

U.S. Open Tennis Trip

\$61 per person; includes ticket and round-trip bus transportation to the U.S. Open Tennis Championships. Bus departs from the Lab tennis courts parking lot at 8:30 a.m. and stops at the LIE exit 63 Park & Ride. Bus departs the National Tennis Center at 7:30 p.m. Paid reservations can be made at the BERA Sales Office in Berkner Hall, weekdays, from 9 a.m. to 3 p.m.

Thursday, 9/5

Cycletrons Meeting

4:45, Brookhaven Center.

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

Saturday, 9/7

Cycletrons 5th Annual Family Picnic

Noon to sundown at the gazebo. \$5 per person includes bar-b-que and door prizes. Free admission for children 12 and under. Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; Frank Cetero, Ext. 5741; or Nick Franco, Ext. 5467.

An Evening of Indian Classical Dance

4:30-7:30 p.m., Berkner Hall. Join the BERA Indo-American Association for an evening of Indian classical dance presented by Gargi Chattopadhyay, founder and director of the Omna Ancient Art Institute. Tickets cost \$7 for adults and \$5 for children. Buy them from: Achyut Topé, Ext. 5672, tope@bnl.gov; Kumi Pandya, Ext. 7734, pandya@sun2.bnl.gov; Abhay Deshpande, Ext. 8783, abhay@bnl.gov; or Sharadha Sambasivan, Ext. 4862, sharadha@bnl.gov.

— WEEK OF 9/9 —

Tuesday, 9/10

Static/Versatile Demo

11 a.m.-2 p.m., Berkner Hall. A representative from Static/Versatile will demonstrate vision/inspection equipment and medical soldering equipment. Sandy Fernandez, 218-0590.

Wednesday, 9/11

Rifle & Pistol Club Meeting

Noon, Conference Room, Bldg. 535. The use and availability of on-site ranges will be discussed as well as membership activities. Jim Durnan, Ext. 5993, Otto Jacobi, Ext. 2710, or www.bnl.gov/bera/activities/rpc/.

Thursday, 9/12

BNL Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. BNLers from 17 to 75 years of age, in good health, and weighing over 110 lbs. are welcome. All donors should have photo identification and know their social security number. Susan Foster, Ext. 2888, donateblood@bnl.gov.

Investment Advice

A Fidelity Investment Representative will be at the Lab to hold individual sessions with employees interested in learning more about their retirement-savings and investment options. To schedule one of the 45-minute appointments, call (800) 642-7131.

Friday, 9/13

Yankee Baseball Game

\$55 per person, includes ticket and bus transportation. Bus leaves the Brookhaven Center at 4 p.m. for the 7 p.m. Yankees vs. White Sox game. Prepaid reservations can be made at the BERA Sales Office in Berkner Hall on weekdays from 9 a.m. to 3 p.m.

— WEEK OF 9/16 —

Tuesday, 9/17

Minolta Business Solutions Demo

11 a.m.-2 p.m., Berkner Hall. A representative will present BNLers with Minolta's latest line of digital copying machines. Alfred Napolitano, (718) 752-6491.

'99 FACE Article Most Cited in 2001

Hendrey et al. in *Global Change Biology* Cited 26 Times

A note from Steve Long, Chief Editor of *Global Change Biology* (GCB) congratulated George Hendrey, Environmental Sciences Department, on the fact that his article, with BNL co-authors David Ellsworth (now at the University of Michigan), Keith Lewin, and John Nagy, "A free-air enrichment system for exposing tall forest vegetation to elevated atmospheric CO₂," in GCB Vol. 5, Issue 3, 1999, pp. 293-309, was cited 26 times in other journal articles, making it the most highly cited GCB article in 2001.

This finding was the result of GCB's analysis of articles published in GCB during 1999 and 2000, and the citations that they received in 2001. As Long explained, these are the years that are used by the Institute of Scientific Information (ISI), the publishers of *Science Citation Index*, in determining the impact of peer-reviewed journals. Of the 127 environmental science journals listed by ISI, GCB has been consistently ranked by Journal Citation Reports in the top three in terms of impact for the past four years, reaching the number one spot last year. On behalf of the GCB editors, Long thanked Hendrey for his contribution to this success. — Liz Seubert



Queens College Student Wins
Renate Chasman Scholarship

Queens College computer-science major Tamara Blain — who had to overcome depression and homelessness to be able to continue her education — has won the 2002 Renate W. Chasman Scholarship for Women.

Brookhaven Women in Science (BWIS) awards the scholarship annually to encourage women to pursue careers in science, engineering or mathematics. Named after the late Renate Chasman, a renowned physicist who worked at BNL, the \$2,000 scholarship is awarded each year to a re-entry woman — one whose college education was interrupted, but who has returned to pursue a degree on a half-time or greater basis.

Blain was presented with the award by BWIS at its annual scholarship reception, held on July 18.



Roger Stoulenburgh B1480702

Brookhaven Women in Science Scholarship Coordinators Loralee Smart, Collider-Accelerator Department (left), and Patricia Williams, Facilities & Operations Directorate, present Tamara Blain (center) with the 2002 Chasman Scholarship.

After earning a B.S. in biochemistry at Stony Brook University in 1995, Blain suffered a series of traumatic experiences that left her severely depressed. As she explained, "My self-esteem was extremely low as I took odd jobs and stayed with friends, often finding myself homeless. One winter I began staying overnight at Kinko's, as it was open 24 hours and was a respite from the cold. There I made friends who allowed me to use the computers free of charge at nights. As a result, I taught myself several graphic design programs and began to work freelance as a graphic designer. Thus began my love affair with computers."

Between 1996 and 2001, Blain pursued several career paths. She was a freelance Web developer at Investars.com and a freelance graphic designer. Also, she worked as a computer-services consultant at Kinko's, an intern at Sensenet, Inc., and a Web developer at Concrete Media, Inc.

In 1997, Blain enrolled at Lehman College as a computer science major, and, in 1998, she transferred to City College. Today, she is continuing her studies at Queens College, where she is also a research assistant, and she expects to graduate with a B.S. in computer science in December. She plans to go on to earn a Ph.D. so that she may teach computer science at the university level. She also would like to shape undergraduate curricula and write texts on specialized computer science topics. In addition, she wants to apply her computer knowledge and amateur inventor ability to the field of robotics in medical science, or to collaborate on biotechnology or nanotechnology projects. — Diane Greenberg

RHIC & AGS Annual Users' Meeting
'Talking Turkey at RHIC: Beyond First Collisions'
September 20-21, 2002

The Relativistic Heavy Ion Collider (RHIC) and Alternating Gradient Synchrotron Annual Users' Meeting will be held at BNL on Friday and Saturday, September 20-21, 9 a.m.-5 p.m. The meeting will focus on three themes:

Are we meeting the goals
that we had set for ourselves?

Fundamental and applied physics contributions
from the fixed-target AGS program
g-2 experiment • rare Kaon decay • NASA/radiobiology program

Upgrades and future high energy/nuclear facilities
EIC, RSVP • RHIC-II • RHIC detector upgrades

To register for the meeting, contact Kelly Guiffreda,
guiffreda@bnl.gov. For additional information,
go to www.bnl.gov/rhic_ags/users_meeting/

Coming Up
Brookhaven Lecture, 9/18

On Wednesday, September 18, Lab Historian Robert Crease will give the 376th Brookhaven Lecture, on Robert Oppenheimer, at 4 p.m. in Berkner Hall. All are invited. Refreshments will be served before and after the lecture.

Payroll to Close Noon to 1 p.m.

Commencing Monday, September 16, the Payroll Office will close for lunch at noon and reopen at 1 p.m. daily.

Since Payroll experiences a negligible volume of inquiries either by phone or at the office window during that time, this change is expected to provide more efficient service to the BNL community by ensuring that the office is fully staffed during peak volume hours. If a Payroll emergency arises, an alternate extension will be given on the regular Payroll phone, Ext. 2470.

Money Talks Seminar, 9/24
On Long-Term Care Planning

Join representatives from American Express Financial Advisors, Inc. on Tuesday, September 24, at noon in Berkner Hall, Room B, for a seminar on long-term care. Topics of discussion will include: different types of nursing-home care, alternative options to a nursing home, Medicaid income limits, gifting and look-back periods, spouse's financial responsibility, options to protect your estate, gift assets to individuals/trust, and life estate planning.

Check your mailbox for registration forms. For more information, contact Joyce Wund, Ext. 7516, jwund@bnl.gov.

Noon Recital, 9/18
Piano by Elizabeth Pridgen



BNLers are invited to the noon recital on Wednesday, September 18, in Berkner Hall for a performance by pianist Elizabeth Pridgen.

Pridgen began her piano studies at age five and is currently a graduate student at the Juilliard School studying with Joseph Kalichstein. She was graduated in May 2001 from the Peabody Conservatory of Music in Baltimore, Maryland, where she received the Azalia H. Thomas Prize, Virginia Carty DeLillo Award, and Pauline Favin Memorial Award.

Pridgen has soloed with the Columbus (GA) Orchestra, the Atlanta Community Orchestra, and the Georgia High School All-State Orchestra. For the last ten years, she has performed with her grandfather, violinist Martin Sauser, former concertmaster of the Atlanta Symphony Orchestra, for arts organizations and colleges in the southeast.

Noon recitals are free and open to the public. Bring your lunch and come and go as you please.

Science Exploration: BNL's New Kind of Summer Camp

During seven three-day sessions this summer, 140 children in the fourth, fifth, and sixth grades in Suffolk schools participated in a pilot “summer science camp” at BNL’s Science Museum.

“Having a summer-science camp gave us time to give more depth to our programs than is possible during the school year,” said Gail Donoghue, who heads the Science Museum Program in BNL’s Office of Educational Programs (OEP).

She continued, “The program was planned to promote scientific methods of inquiry by using a cross-curricular approach. The plan worked, and it was a rewarding experience for everyone. The only complaint we had was that it was too short!”

Donoghue explained that each of the three days at camp had a different focus: museum inquiry day, environmental day, and energy day. The children, who included some who are being home-schooled and children from Little Flower School, were taught by Museum staffers Kathleen Nasta, Ruth Fernow, Carol Otto, and Susan Sears.

In addition, Keith Power of the Superconducting Magnet Division donated time each week to give the students “what they obviously found to be an enthusiastic, exciting talk on energy,” said Donoghue.



Gail Donoghue, BNL’s Science Museum Program Head, identifies animal tracks with some of the summer-science camp students.

Also, two Energy Research Undergraduate Laboratory Fellowship (ERULF) students, Megan Dyer and Heather Kling, who were at BNL in an internship program managed by OEP, shared their environmental research with the children. Dyer and Kling’s BNL mentor, Tim Green of the Environmental Sciences Division, had also been helpful in the planning of the camp program, Donoghue said. “The children were very interested in learning what Heather was doing in a study with Tim Green on pond life, especially when she showed

them samples from BNL’s ponds,” commented Donoghue. Dyer, who was studying the deer population on site, taught the students how to understand and count deer tracks,” continued Donoghue. Dyer also told the children, for example, how many deer should be on a site of this size and the environmental consequences of having too many. A field study was made part of the program so that the science-camp students could find, identify and make molds of various animal tracks. Running the camp was also made much easier by the help

of two summer students, Lisa Polonski and Debbie Sims, from OEP’s Pre-Service Teacher (PST) program.

“It was a win-win situation: the student teachers got experience in learning how to use scientific methods of inquiry to teach science, and the children and the other Museum staff benefitted from the PSTs’ enthusiasm,” Donoghue said.

Donoghue was also pleased that, by their work at the science camp, the ERULF and PST participants showed the children that there are programs for students of all ages at the Lab.

About halfway through the summer, DOE’s Todd Clark and Brian O’Donnel from the Office of Science, which funds the ERULF and PST programs, visited the museum.

“The visitors congratulated us on the success of our work and spoke of perhaps introducing the idea of using PST students in other DOE facilities where a museum is already in place,” Donoghue said.

While this year’s program ended on August 23, Donoghue is making plans for the summer of 2003. “This year, we invited all Suffolk schools,” she said. “Next year, we would also like to have the camp open for one or two weeks for BNL children at the appropriate grade level. Some parents are already interested.” — Liz Seubert

Calendar

(continued)

Wednesday, 9/18

*376th Brookhaven Lecture

4 p.m., Berkner Hall. BNL Historian Robert Crease will talk on Robert Oppenheimer. Refreshments will be served before and after the lecture. More information will follow in a future issue of the Bulletin.

*Ballroom, Latin & Swing Dance Club: 2002-03 Wednesday lessons start

First 8-week series of lessons begins. See notice on page 4. For registration, contact Marsha Belford, Ext. 5053 or belford@bnl.gov; Sue Perino, Ext. 2483 or perino@bnl.gov.

Thursday, 9/19

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

Fri. & Sat., 9/20 & 21

*RHIC & AGS Annual Users' Meeting

“Talking Turkey at RHIC: Beyond First Collisions” For more information, see www.bnl.gov/rhic_ag/users_meeting/.

Saturday, 9/21

Atlantic City Bus Trip

Bus leaves the Brookhaven Center at 8 a.m. and returns at 11:30 p.m. See notice at left. Andrea Dehler, Ext. 3347.

Spanish and Flamenco Music & Dance Concert



7 p.m., Berkner Hall. Sponsored by the BERA Hispanic Heritage Club, the Sol y Sombra Spanish Dance Company portrays gypsy flamenco dancing. Tickets, \$10 adults, \$5 children under 12, available at the BERA Sales Office. At the door, tickets for adults, \$12.

— WEEK OF 9/23 —

Monday, 9/23

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.

Tuesday, 9/24

*Retirement Planning Seminar

Noon. Berkner Hall. American Express Financial Advisors, Inc. will present “What You Need to Know about Long Term Care Planning.” Check your mailbox for registration forms. Joyce Wund, Ext. 7516, jwund@bnl.gov.

Thursday, 9/26

*BERA Softball League Party

6-10 p.m., East Wind Caterers, Wading River. Tickets, at a cost \$25 for the first 100 paid softball players and \$40 thereafter for players and guests, can be purchased at the BERA Sales Office in Berkner Hall. See notice on page 4. Sue Cataldo, Ext. 4461, cataldo@bnl.gov.

— WEEK OF 9/30 —

Thursday, 10/3

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

— WEEK OF 10/14 —

Wednesday, 10/16

Brookhaven Lecture

4 p.m., Berkner Hall. Elio Vescovo, National Synchrotron Light Source. Topic to be announced.

Thursday, 10/17

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

— WEEK OF 10/21 —

Thursday, 10/24

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm.

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. Write “Bulletin Calendar” in the subject line.

Aqua Aerobics

Register for the next session of aqua aerobics, which starts on Tuesday, September 10, and Thursday, September 12. BNLers can register for Tuesday and/or Thursday classes that are held from 5:15 to 6:15 p.m. at the pool. Participants must pay a \$2 pool fee per class, or have a pool pass. To register, contact Mary Wood, Ext. 5923, or wood2@bnl.gov.

Defensive Driving

A defensive driving course will be held on Saturday, October 5, from 9 a.m. to 3:30 p.m. in Berkner Hall, Room B. The course is open to BNL, BSA, and DOE employees, BNL facility-users and guests, and their families.

To register, send a check by September 27 for \$26 per person, made out to Empire Safety Council, in care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. Include your telephone number in case you need to be contacted.

Cardio Kickbox Classes



BNLers are welcome to join the beginner-level cardio kickboxing classes, which will run on Tuesdays and Thursdays. The Thursday sessions begin on September 5 in the Brookhaven Center North Room and the Tuesday sessions start on September 10 in the Gym.

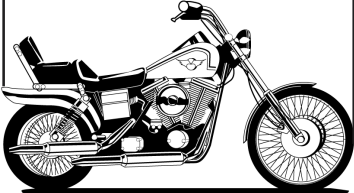
Intermediate-level classes will be held at noon in the gym, starting on Monday, September 9, and Thursday, September 12.

There is a \$5 fee per class, and all participants must register by contacting Mary Wood, Ext. 5923.

Cycletrons Motorcycle Club Family Picnic

The Cycletrons, BNL’s motorcycle club, invite all club members, their families, friends, and others who have an interest in motorcycles to their 5th annual family picnic on Saturday, September 7, at noon at the gazebo by the softball fields. Tickets cost \$5 per adult and children 12 and under are free. Hamburgers, hot dogs, salads, and soda will be available, as well as various bike games, horseshoes, volleyball, softball, relay races, a three-legged race, and much more.

To purchase tickets, contact Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; or Frank Cetero, Ext. 5741.



Arrivals & Departures

Arrivals

none

Departures

Katherine OnderdonkDO
Ming Wu Env. Sci.
Christine Murfitt NSLS

Holiday Closings

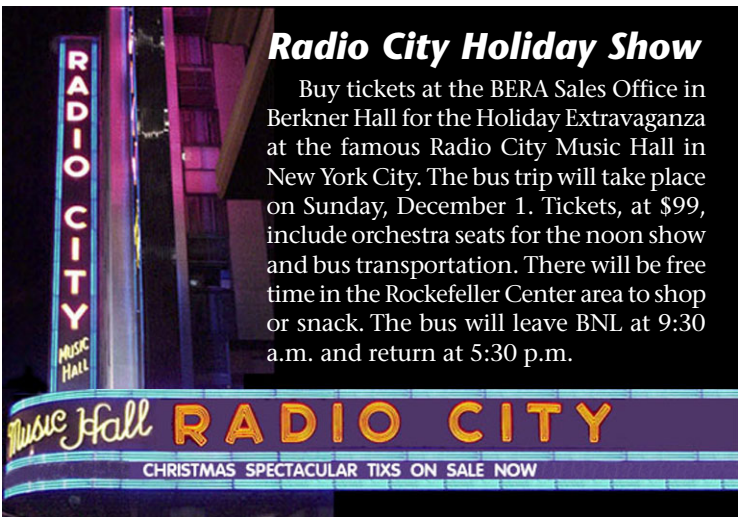
- The Cafeteria, Bldg. 488, will be open from Saturday through Monday, 8/31-9/2, 7:30 a.m.-2 p.m.
- The Center Club at the Brookhaven Center, Bldg. 30, will be closed on Saturday & Sunday, 8/31-9/1; and open on Monday, 9/2, 5-9 p.m.
- The Research Library will be closed from Saturday through Monday, 8/31-9/2.
- The swimming pool and gym will be closed for the Labor Day Holiday on Saturday through Monday, 8/31-9/2. They will be reopened on Tuesday, 9/3, 11 a.m.-2 p.m.

Pool Now Closed Sundays

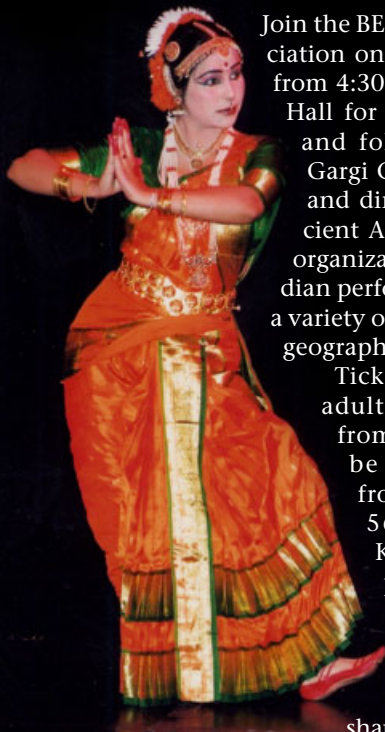
The swimming pool will be closed on Sundays until further notice. Daily and monthly passes are available for purchase at the pool.

Radio City Holiday Show

Buy tickets at the BERA Sales Office in Berkner Hall for the Holiday Extravaganza at the famous Radio City Music Hall in New York City. The bus trip will take place on Sunday, December 1. Tickets, at \$99, include orchestra seats for the noon show and bus transportation. There will be free time in the Rockefeller Center area to shop or snack. The bus will leave BNL at 9:30 a.m. and return at 5:30 p.m.



An Evening of Indian Classical Dance, 9/7



Join the BERA Indo-American Association on Saturday, September 7, from 4:30 to 7:30 p.m. in Berkner Hall for an evening of classical and folk dances from India. Gargi Chattopadhyay, founder and director of the Omna Ancient Art Institute, a nonprofit organization dedicated to the Indian performing arts, will present a variety of dances from numerous geographical regions in India.

Tickets, which cost \$7 for adults and \$5 for children from 5 to 12 years old, may be bought (cash only) from: Achyut Topé, Ext. 5672, tope@bnl.gov; Kumi Pandya, Ext. 7734, pandya@sun2.bnl.gov; Abhay Deshpande, Ext. 8783, abhay@bnl.gov; or Sharadha Sambasivan, Ext. 4862, sharadha@bnl.gov. Snacks are included in the price of

the ticket.

Seating is limited, so advance reservations are recommended. All visitors age 16 and over who enter the Lab must have a photo ID. For more information, call 631 344-5672.

Remembering 9/11 . . . Reflections Wanted

To commemorate the one-year anniversary of the national tragedies that followed the September 11 terrorist attacks, The Bulletin will publish reflections on 9/11 and its aftermath written by members of the Lab community. If you need help in expressing your thoughts, please feel free to call Liz Seubert, Ext. 2346, or John Galvin, Ext. 3505, for assistance. Submit your 9/11 reflection by Tuesday, September 3, to bulletin@bnl.gov or to The Bulletin, Bldg. 134.

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 JOBLINE, 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.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK3895. STAFF ASSISTANT TO THE DIRECTOR (M-1) - Requires a background in science, preferably at the Ph.D. level, with an interest in supporting and promoting the broad science program of the Laboratory. Must be well organized, have very good writing skills, have the ability to clearly and succinctly articulate information about BNL programs to sponsors and other interested parties, and be able to produce documents on time. Must enjoy working and teaming with others and interacting in a professional and efficient manner with staff inside and outside the Laboratory. In depth knowledge of Laboratory policies, practices and procedures desirable. The successful candidate will support the Director in the administration of the scientific program of the Laboratory. Additional responsibilities include maintaining the interface in policy and planning with the DOE Office of Science and other equivalent government offices; preparation of the annual Institutional Plan and other planning documents; leading the preparation and timely submission of large proposals; interfacing with the Human Resources Division to prepare promotional files for scientific personnel; interfacing with Associate Laboratory Directors and Scientific Department Chairs to prepare supporting materials for honors, prizes and awards. Director's Office.

MK3057. SCIENTIFIC STAFF POSITION – Requires a Ph.D. and a minimum of five years' experience past Ph.D. (more senior candidates will be considered), demonstrated leadership and innovation in collider physics analysis, experience with hadron collider analysis is desirable. Responsibilities will include focusing on the software development leading toward physics analysis of the ATLAS experiment. BNL has a leading role in ATLAS liquid argon calorimetry, the muon spectrometer, software and is the location of the U.S. Tier 1 computing facility. Will work with present staff to develop the capability for physics analysis. Under the direction of H. Gordon, Physics Department.

NS8963. ENVIRONMENTAL SCIENCE ASSOCIATE III (P-3, reposting) - Requires a BS in science/engineering, excellent oral and written communication skills, a general understanding of environmental science, knowledge of PC hardware/programs, the ability to work independently, and knowledge of and experience with mechanical/electrical systems. The ability to perform routine maintenance, troubleshoot, and formulate solutions to minimize experiment downtime is essential. Must be able to climb towers to heights of 100 feet and be willing to accept a flexible work schedule with protracted hours (including weekends). Will interact with scientists, tradespeople, and other professionals in the operation and maintenance of the Forest Atmosphere Carbon Transfer and Storage facility (FACTS-1) located in the Duke University Research Forest in Chapel Hill, NC. Environmental Sciences Department.

TB2116. TECHNICAL SPECIALIST (T-2) – Requires an AAS or equivalent in electronics technology, at least four years' relevant experience, good communication skills and the ability to work in a group setting; mechanical fabrication and assembly skills are highly desirable. In addition, must have experience in the construction and troubleshooting of analog/digital electronics, relay logic and Allen Bradley programmable logic controllers (PLCs). Must be motivated and be willing to accept responsibilities, be able to work mandatory overtime and be available for emergency calls during non-scheduled hours. Periodic shift work required. Will perform maintenance on Siemens motor/generator, high current and high voltage power supplies for the CAD accelerator complex. Collider Accelerator Department.

TB3008. ADMINISTRATIVE SECRETARY (A-2, ERAP eligible - \$500) – Requires a minimum of 6 years' relevant experience, knowledge of E-Way, PeopleSoft, Excel, Word, PowerPoint and Outlook, good communication skills, and the ability to organize, prioritize and implement assigned tasks. Responsibilities will include performing routine and non-routine administrative tasks for the QOL/BERA/Recreation Office.

Will assist in the coordinating, planning, and organizing of various meetings, programs, and initiatives within the Office, including, but not limited to, attendance and taking minutes at the QOL Steering Committee meetings, attending Hospitality meetings, coordinating book/video drive and farmer's market, status reports of projects, ordering equipment/supplies, creating and editing documents and notifications, and creating and tracking of ILR's and work orders. Position will require contact and coordination with all levels of Laboratory staff as well as liaison with outside organizations. Staff Services Division.

TB2381. SR. ADMINISTRATIVE SERVICES ASSISTANT (A-3) - Requires an AAS degree, or the equivalent, plus 6 years' administrative experience, proficiency in Word, and PowerPoint, excellent written and oral communication skills, and the ability to perform complex administrative tasks independently with changing priorities and deadlines. Familiarity with BNL systems and/or medical research a plus. Will perform administrative duties for the Office of Research Administration and provide secretarial support for the Institutional Animal Care and Use Committee. Director's Office.

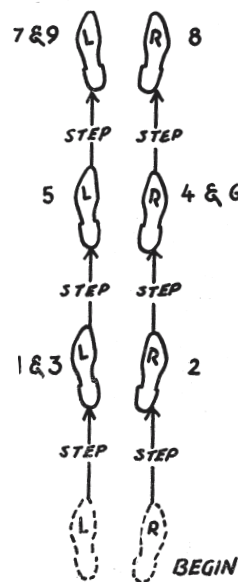
Softball Party

All softball players — adults only — are invited to the Annual BERA Softball League party, to be held at the East Wind Caterers, Wading River, on Thursday, September 26, 6-10 p.m.

Tickets are \$25 per person for the first 100 paid softball players — you must be on a roster — and \$40 for all guests and for any player after the first 100 tickets are sold. The price includes full open bar, cocktail reception, salad, two pasta specialties, four hot entrees, cake and coffee, and music by DJ John.

Everyone must have a ticket! Bring cash or a check made payable to BERA Softball to the BERA Sales Office by 3 p.m., Friday, September 13. No tickets will be sold after this time. If the minimum number of tickets has not been sold, all tickets will be refunded. For more information, e-mail softball@bnl.gov.

Two LEFT Feet?



Learn to DANCE!

Join the
BNL DANCE CLUB
8 weeks of lessons start
Wednesday
September 18th

North Ballroom, Brookhaven Center

Register now for

• 5-6 p.m. quick-start LINDY & SWING: beginners, 20 people max, 1 instructor, \$40/person

• 6-7 p.m. introductory CHA CHA, FOX TROT, MAMBO & MERENGUE: beginners, 50 people max, 3 instructors, \$30/person

• 7-8 p.m. syllabus PEABODY & QUICKSTEP REVIEW I&II: advanced beginners, 50 people max, 3 instructors, \$30/person

• 8-9 p.m. syllabus TANGO & BOLERO IV: intermediates, 44 max, 3 instructors, \$35/person

Beginner classes fill quickly, so sign up ASAP

Make checks payable to the BNL Dance Club and send to: Marsha Belford, Bldg. 134. For more information, contact belford@bnl.gov or Ext. 5053.