

... And Our Flag Was Still There BNL Remembers September 11th

A year ago, our world changed. While not every one of us lost a friend or loved one in the attacks in New York, Pennsylvania, and Washington, D.C., we all have been affected in one way or another. At BNL, our reaction to the attacks was emotional, swift, and comprehensive. Our Fire/Rescue crew headed to the city for what was then a rescue operation at Ground Zero. Our Plant Engineering Division delivered a powerful generator to help work continue through the night, and our Radiological Assistance Program team helped check the rubble for radioactive sources.

Lab employees spontaneously and immediately donated a record 403 units of blood, and many in the BNL community organized relief efforts or volunteered at Ground Zero. Employees also raised \$69,558 for the September 11 Fund, matched by \$50,000 from BSA. All are to be commended for their actions in the days, weeks, and months that followed.

On the scientific research front, we have refocused our homeland security efforts and are working to transform great ideas into applied solutions. These activities, along with our ongoing nonproliferation programs, are now more vital than ever.

We all have our own memories of and feelings about that day and the year that has passed since. For me, with a daughter who watched the Twin Towers burn from a high floor on 54th Street, the event reminded me vividly of the horrors of World War II. For BNL, it has brought home the fact that as a large and very visible government facility within the metropolitan area, we share the vulnerability of New York City. We have all accepted the increased security procedures related to that fact.

So, as we remember the events of a year ago, we are saddened, but also wiser, energized for action.

— Peter Paul,
BNL Interim
Director

As well as we know where we were September 11, 2001, then we know today how far we have come since. In profound and lasting ways, we have changed as individuals, as a nation, and even as a Laboratory.

At Brookhaven National Laboratory, the people have seen the changes in security – badges on all, more powerful computer protections, and heavily armed guards at our gates, among other precautions. The programs at the Laboratory have seen closer scrutiny, tighter budgets, and an unsure future.

The changes at the U.S. Department of Energy have been similar. Security and budgets have tightened. And one aspect of the Department's science and technology mission has shifted – to scientific and technological applications for homeland security. Brookhaven clearly recognizes and is utilizing its capabilities to fulfill this mission. The Lab's people just as clearly recognize the enormity and urgency of this mission, as well.

On September 11, 2002, as we look back and mourn our losses, we also look forward. We look forward to what we can contribute to what has to be done for our nation, our Laboratory, and ourselves.

— Frank Crescenzo, Acting Area
Manager of DOE's Brookhaven Area Office

Just get me through September

It's all I can remember
Almost been a year
Finally visited the hallowed site
Liberty and Church Streets
Nothing in sight
Only emptiness and loneliness
Can't cry anymore
Just get me through September.

It's all I can remember
Lost four friends in a year's time
Memories are good and forever
Miss their presence and smiles
Cherished their friendship
Spoke silently to them
Can't cry anymore
Just get me through September.

It's all I can remember
No matter how hard I try
To forget or understand
Seemed only one way to do it
Prayed at Trinity Church
Asked God for peace
Can't cry anymore
Just get me through September. . .

In memory of Patrick,
Peter, Greg, and Pete

— Gerry Shepherd,
Safeguards & Security Division

On September 11th, at the BNL front gate, I asked in disbelief if a plane had hit the World Trade Center (WTC). Was the radio message I had heard a cruel skit? The nod I received from our police told all. I knew my husband and daughters were safe, but what about my siblings?

My brother Michael called me by 9:10 a.m., and we located my sister, whose 9:30 a.m. flight from Hartford, Conn., had been pulled off the runway. But our brother, Firefighter John Ceriello of FDNY Special Operations Command Squad 18, a squad formed to handle terrorist attacks in the new millennium, was at the WTC.

At the moment the South Tower collapsed, Michael was phoning me from a Brooklyn fire escape and saw the fall. We realized that we had almost certainly lost our brother.

Just before BNL's shutdown at 1 p.m., word came: John was alive, but his squad of seven had likely perished. John had been walking into the South Tower lobby when he looked up to see the building bowed. He survived, but ended up alone in an ambulance, saying a prayer while the North Tower too came down around him.

In the past year, the paralysis of that day has begun to lift. I have renewed respect for fire service and law enforcement. Helping the September 11th charities was easy, and my family also created a non-profit charity to benefit Squad 18 survivors.

The message of that day to me is simple. By going beyond what we think of as our capacities and volunteering, we can honor the heroism of September 11th.

— Gail O'Hern, Human Resources Division

INSIDE

RHIC & AGS Annual Users' Meeting, September 20, 21, 9 a.m.-5 p.m.

376th Brookhaven Lecture, BNL Historian Robert Crease on "Atomic Sinner: The Life and Career of J. Robert Oppenheimer," September 18, 4 p.m., in Berkner Hall

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.

September is Hispanic Heritage Month.
See 9/19 for an upcoming event.

— THIS WEEKEND —

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.

Wednesday, 9/18

*Noon Recital

Noon, Berkner Hall. Pianist Elizabeth Pridgen will perform music by Bach, Prokofiev, and Chopin. See announcement on page 3.

*376th Brookhaven Lecture

4 p.m., Berkner Hall. BNL Historian Robert Crease will talk on Robert Oppenheimer. See story on page 3. Refreshments will be served before and after the lecture.

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

- First 8-week series of lessons begins:
- 5-6 p.m. Quick-Start lindy & swing, \$40/person
 - 6-7 p.m. Intro A:cha cha, fox trot, mambo, merengue, \$30/person
 - 7-8 p.m. Syllabus peabody & quick-step review I & II, \$30/person
 - 8-9 p.m. Syllabus American tango & bolero IV, \$35/person

Registration: Marsha Belford, Ext. 5053 or belford@bnl.gov; Sue Perino, Ext. 2483 or perino@bnl.gov.

Thursday, 9/19

BAC Meeting

12:30-1 p.m., Berkner Hall, Room C. Brookhaven Advocacy Council Meeting, Open Session. www.bnl.gov/bac.

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_ags/users_meeting/.

Friday, 9/20

Newcomers' Hospitality Potluck

5:30 p.m., Rec. Bldg. All visitors, guests, and their families are welcome, especially newcomers to the Lab. Bring a dish to share for 6 people. Monique de la Beij, 399-7656.

Saturday, 9/21

Atlantic City Bus Trip

Bus leaves the Brookhaven Center at 8 a.m. for the Hilton Resort & Casino on the Boardwalk and returns at about 11:30 p.m. Tickets cost \$25 each, with \$9 coin return (age 18 and older only). Buy at the BERA Sales Office. Andrea Dehler, Ext. 3347, or Chris Carter, Ext. 2873.

*Spanish and Flamenco Music & Dance Concert

7 p.m., Berkner Hall. See page 4.

Sunday, 9/22

Walk for Beauty, Benefit Cancer Research

9:30 a.m., Meet at the U.S. Post Office on the Stony Brook Village Green to pick up a pink balloon before the start. All the BNL community is invited to join the Lab group participating in the 9th annual walk, which will benefit prostate cancer and breast cancer research. Kerry Mirabella, Ext. 2632, or Mirabella@bnl.gov.

BNL Remembers September 11th

Since the events of September 11th tested our spirit, values, and convictions, the members of the BERA Indo-American Association strongly felt the need to demonstrate our support of the victims of this terrible tragedy. So we approached Samir Chatterjee about performing a "Drums of Peace and Unity" concert at the Lab, an invitation which he generously accepted on behalf of himself and the accomplished drummers from around the world who perform percussion with him.

Despite the security concerns at the time, Lab Director Peter Paul and the Safeguards & Security Division wholeheartedly approved this event for October 5. In organizing it, we were overwhelmed with the support that we received from Dr. Paul, Safeguards & Security, and the rest of the community both inside and outside of the Lab: the Radio Shop, Quick Copy, Public Affairs, FLIK and 18 other respected ethnic food restaurants in the area, many BNL employees and community members, etc.

Attended by some 400 people, the evening began with the quiet and contemplative sharing of the food from around the world—from India, Japan, China, Italy, Turkey, and Pakistan. The drum concert afterwards was an extraordinary event, through which Samir Chatterjee and his drummers reinforced the strong sense of peace and unity felt by all in the audience. In solidarity and silence, we let the drums speak for us, as we mourned the loss of the innocents who were victim to September 11th. The more than \$12,000 that we raised was donated to the American Red Cross for the benefit of WTC survivors and families.

—Achyut Topé, Environmental Restoration

At my daughter's urging, I held her Sweet 16 birthday party at Windows on the World on the top floor of the World Trade Center. That was more than 12 years ago, but I remember the day well. I recall the view of the Statue of Liberty surrounded by serene waters on one side and the Big Apple's jumble of streets and buildings on the other, many skyscrapers dwarfed by the twin towers.

I still cherish that time—the day Alicia celebrated turning 16 with her girlfriends, all of them savoring an elegant brunch and each other's company, laughing and talking about inconsequential things that were important at the time, enjoying the urban vista—the teens feeling very sophisticated about being in this cosmopolitan spot, my feeling privileged to witness the enthusiasm of youth and my daughter's slow but sure journey toward adulthood.

I prefer to remember the World Trade Center in this way, but the images of the burning towers still creep into my consciousness. And that's how it should be. Let's celebrate life, but let's never forget the terror and bravery of 9/11.

—Diane Greenberg, Community Involvement, Education, Government, and Public Affairs



Remembering the view from the World Trade Center

—Roger Stoutenburgh, BNL Photography



Joseph Rubino A0030902

Remembering the World Trade Center — Joseph Rubino, BNL Photography

On the morning of September 11, I flew out of La Guardia on the 7 a.m. shuttle to Washington National, landing in time for an 8:30 a.m. meeting at DOE HQ. One of my colleagues arrived at 9:30, then promptly left the room—only to return to inform us that his wife had paged him to make sure he was all right. Two planes had flown into the WTC and one into the Pentagon. We gathered around a TV, watching the replay of the planes crashing into the towers, and then we witnessed live the first tower crumbling. We went outside to see downtown DC being evacuated. Cars were bumper to bumper all heading out of DC, just like a scene from the movie "Independence Day." You could see smoke from the Pentagon. Rumors circulated about the State Department's being bombed. People were walking around dazed, trying to find loved ones. The next morning, tanks and National Guardsmen were on the corners of the Mall. I took three days to get back to my family. Well-appreciated expressions of sympathy poured in from colleagues overseas. It affected us all in different ways, to the point that extra help was needed by my daughter's soccer league because many of the coaches were tied up in the recovery effort. It's these odd things that we will remember, just as we'll remember how we, the people, united and met the challenge.

—Kara DeCastro, Nonproliferation & National Security Department

Between September 11th and 12th, we lost touch with my brother Donald, a New York City firefighter. When he finally called home after being on duty for 36 hours, my family and I rejoiced to hear his voice and learn that he was safe. Those were the longest hours of my life. The weeks that followed were also stressful, as my brother continued to work long hours at Ground Zero. Now, each and every night since that dreadful day, when I go to bed, I give thanks that he is safe, and I say a prayer for the families who weren't so lucky.

—Jane Koropsak, Community Involvement, Education, Government, and Public Affairs

As we come up to the one-year anniversary of 9/11, I'll never forget the moments when my sisters called to tell my family that both of my brothers-in-law had gone to Ground Zero. Jim Newburg, who worked with the cadaver dogs from Great Neck Fire Department and Dennis O'Leary, an EMS worker from Levittown, were at the auxilliary. I had called my friend Steve Halderman to tell him, only to find out that his brother David was one of the firefighters who were missing. He was my hero from junior high school when some kid was picking on me on the school bus and David grabbed him and told him never to bother me again. The kid never did after that. David was lost on 9/11 in the North Tower. He was on the 31st floor, part of the human chain that fell. I want to say to Steve and his family how sorry I am for their loss. David will always be my hero. To all the families of 9/11, I am thinking of you all. And to all of the rescue workers, thank you: and God bless America. Your friend — Brenda Kernzer, Teachers Federal Credit Union

I was born and raised in New York City. On September 11th, over and above all the pain that we all shared, I also lost a dear part of my past.

In the 1970s, I was an electrician working on the super tankers that were being built in the Brooklyn Navy Yard. Every day, from the decks of these ships, I would look across the water to watch a pair of great structures grow until they scraped the sky.

Later, after work, I would often go across the Brooklyn Bridge to the completed World Trade Center and stand at its base, looking up at these great symbols of progress. I would ride the elevators to the top observation roof and observe city life from a new perspective. It was quiet, and you could see the world. I was impressed.

Years passed: I watched Phillipe Petite balance his way across a wire from tower to tower. Later I watched another daring individual climb one of the Twin Towers. He was called "Spiderman" by the media. These events were exciting memories for me, so much so, that in 1981, I chose to propose to my wife there. What better place to do that.

On that fateful September day, I watched with pain as events unfolded. A part of my life disappeared into memories. Fond memories.

—Artie Mango, Physics Department

Want a Three-Color Bulletin From a Single-Color Press?
Neil Jackson's the man!

Question: How did the single-color printing press that prints the Bulletin every week suddenly produce a three-color front page?

Answer: through the skill of BNL press person Cornelius "Neil" Jackson, who leads the Offset Printing Group in Photography & Graphic Arts of the Information Technology Division.

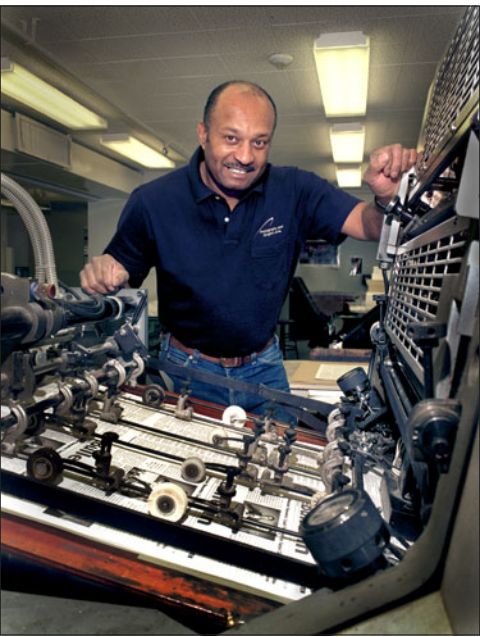
To print each of the three colors separately, the 7,000 copies of the Bulletin had to go three times through the press. But, without extreme precision of position and temperature, the registration of the finished product is affected. That is where Jackson's expertise comes in. For example, as the room warms up or cools, he might add extra ink or water to control ink flow to the plate. Constant monitoring and adjustments are essential.

Jackson had such a success with two colors — red and black — when he printed the

Bulletin's December 21, 2001, holiday issue, that the Bulletin confidently expected another successful "first." This time, three colors were needed, to show the American flag in red and blue, while the stories and other photos were in black. So, for this Bulletin, Jackson ran the paper through the press three times with such perfect precision that it looks as if it were printed on a single run.

Jackson joined BNL's print shop in April 1969, honing his skill on different presses as the Lab invested in more modern technology. Now, with Kevin Hester and Leon Lawrence, he regularly produces the Lab's single-color print jobs, adjusting the ink levels to help give sizzle to the photos and clarity to the print.

First-time three-color specials take longer to produce, but Jackson at the press can make it happen.



Roger Stoutenburgh CN3-228-01

New Volunteer Program Begins



The Community Involvement Office is launching a new program this month: Volunteers in Partnership (VIP).

Aimed at encouraging employees who are active in volunteer organizations outside the Lab, the VIP program has been established to provide networking opportunities, to help support employees with limited funding, and to advertise their volunteer efforts. The goal is to raise the community's recognition of BNL employees and retirees as good neighbors and valued community members.

Employees or retirees who have a project in mind are asked to write a brief summary of their idea, including: what the volunteer effort involves, the name of the benefiting organization, names of any staff members committed to the project, and a budget request. The project summary may be sent to VIP Program Coordinator Elaine Lowenstein in Bldg. 134, or elowenstein@bnl.gov, or submitted on line via the form at www.bnl.gov/community/vip/Default.htm.

A newly formed VIP Advisory Committee will review each project proposal to decide if it should be added into the program. The committee includes employees from scientific and support organizations, as well as a representative BNL retiree. Once the project is accepted, the program coordinator will work closely with project leaders to help to ensure their success.

BSA will provide funding for various eligible project expenses, such as permit fees and project materials. Funding up to \$300 is available for each project. Projects involving non-profit agencies that represent advocacy groups, special political interests, or a specific religious affiliation are not eligible for the VIP Program.

Arrivals & Departures

Arrivals

Mu-Chun Chen Physics
Stephen Gushue N&NS
Chulwoo Jung Physics
An Lam Biology
Federica Messer Physics
Kimberly Meyer Biology
Akio Ogawa Physics
Ming Tan Chemistry
Richard T. Thoel Plant Eng.
Gustavo Vazquez Env. Sci.

Departures

Christine Aidala Physics
Daniele Davino C-A
Matthias Gross-Perdekamp ... Chemistry
Jing-Huei Lee Chemistry
Ao Lin Chemistry
Robert Marascia Jr. C-A
Matthias Messer Physics
Sasa Prelovsek Komelj ... Physics
Xuehui Sun Material Sci.
Johan VanLierop Mat. Sci.
Baoshan Wang Chemistry

Crease Presents 'Atomic Sinner: J. Robert Oppenheimer' 376th Brookhaven Lecture, 9/18

J. Robert Oppenheimer, the controversial theoretical physicist who led the effort to build the first atomic bomb during World War II, and who was stripped of his security clearance during the Cold War in an excruciating trial, is the subject of the first Brookhaven Lecture this fall. The talk will be given by Lab Historian Robert Crease on Wednesday, September 18, at 4 p.m. in Berkner Hall. Crease will be introduced by Interim BNL Director Peter Paul.

Crease, who has given eight previous Brookhaven lectures, is departing from his usual subject, the history of BNL. His talk on "Atomic Sinner: The Life and Career of J. Robert Oppenheimer," was developed as a result of his completing a biography on Oppenheimer that was begun by physicist Abraham Pais. Pais, who also wrote award-winning books about Einstein

and Bohr, died two years ago at the age of 82, and Crease was asked to take over the Oppenheimer project.

As Crease will relate, Oppenheimer — whose nickname was Oppie — had a complex and enigmatic personality. Some people view him as a secular saint, a "Gandhi stretched up to six feet," while one eminent science historian characterizes him as "the second most loathsome and mendacious American physicist," losing out only to Edward Teller. The result, Crease says, is a "many-Oppie problem."

Crease, whose publications include *Making Physics: A Biography of Brookhaven National Laboratory 1946-1972*, is working on a sequel to that book,



Roger Stoutenburgh CNE-300-96

about the Lab's history from 1973 to the commissioning of RHIC. Crease also writes a monthly column, called "Critical Point," for *Physics World*, which often mentions BNL. For 2002-3, Crease has been named a Senior Fellow at MIT's Dibner Institute for the History of Science & Technology.

Refreshments will be offered before and after the lecture. Those who wish to join Crease for dinner at a restaurant off-site after the lecture may contact Liz Seubert, Ext. 2346.

Get to Know Your Lab! Visit STAR, RHIC

Employees, facility users, retirees, and their families are invited to visit the tunnel of the Relativistic Heavy Ion Collider (RHIC) and one of RHIC's large detectors, STAR, on Friday, September 27, on a lunch tour organized by the Community Involvement Tour Program.

Meet at the upper lobby of Berkner Hall at noon. Parking is limited, so participants are asked to take the BNL van provided. The tour will return to Berkner Hall by 1 p.m. Call Elaine Lowenstein, Ext. 2400, for more information.

Tennis Tournament

Attention, BNL community tennis players: register in the BERA Sales Office by Tuesday, 9/17, for this year's annual Tennis Tournament, which starts next Wednesday, 9/18, and runs through 10/4. The tournament may include men's singles and doubles, women's singles and doubles, and mixed doubles, depending upon the number of participants. The draw will be posted at the Sales Office and the courts. The entry fee is \$3 per person for each event.

For more information, call Joe Carbonaro, Ext. 5139, or Ken Perkins, Ext. 2147.

Flu Shots Next Week

Flu vaccine will be offered to all eligible employees at the Occupational Medicine Clinic, Bldg. 490, during the week of October 14, as follows:

Time	Last Name
9:30-10:45 a.m.	A to G
11 a.m.-noon	H to M
1- 2:15 p.m.	N to S
2:30-4:30 p.m.	T to Z

For more information about the flu vaccine, call Ext. 3670, and ask to speak with a nurse.

Warehouses Close 9/17 & 18

On Tuesday and Wednesday, September 17 & 18, the warehouses will be closed and no pick tickets will be filled during the annual physical inventory. For urgent stock withdrawals, call George Dioguardo, (pager) Ext. 6300, or Ron Ondrovic, Ext. 4553.

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 more information, go to www.bnl.gov/rhic_ags/users_meeting/

Noon Recital, 9/18 Elizabeth Pridgen Plays Bach, Chopin



Pianist Elizabeth Pridgen will perform music by Bach, Prokoviev, and Chopin in the noon recital on Wednesday, September 18, in Berkner Hall.

Currently a graduate student at the Juilliard School, Pridgen performed for Georgia Public Television and CNN News while still in high school. She won scholarships from the Pro-Mozart Society of Atlanta and the Georgia Music Hall of Fame, and has performed as soloist with the Columbus (GA) Orchestra and the Atlanta Community Orchestra.

Noon recitals are open to the public. Box lunches may be brought into the auditorium.

Training Workshops for Literacy Volunteers

The Literacy Volunteers of America (LVA) offers tutor-training workshops in local libraries to teach volunteers how to help adult students improve their ability in English. Knowledge of a foreign language is not necessary. LVA will hold a training workshop at the Lab if enough BNLers express an interest. Training classes are typically held one evening per week, for 6 to 8 weeks, at a cost of \$25.

For more information, contact Jen Lynch, BNL's English for Speakers of Other Languages Program Coordinator, Ext. 4894, or lynch@bnl.gov. To contact the LVA directly, call 286-1649.

Service Awards

The following employees celebrated BNL service anniversaries during July 2002:

40 YEARS

Robert Liegel Physics

35 YEARS

Robert McGonigle Info. Tech.
George Murdock C-A

30 YEARS

John Dunn Biology
Merle Pringle Plant Eng.
Theresa Clark Plant Eng.
Robert Bari Energy Sci. & Tech.
Douglas Gillette Mat. Sci.
Peter Soo Energy Sci. & Tech.

25 YEARS

Betsy Sutherland Biology
Jon Sandberg C-A
Paul Moskowitz N&NS
Robert Kiss NSLS
Catherine Green Info. Svcs.
Arlene Rementer Physics

20 YEARS

Daniel Sullivan Magnet
Biays Bowerman Env. Sci.
John Orris Plant Eng.

10 YEARS

John Shanklin Biology
Gail Donoghue CEGPA
Joseph Greco NSLS
Robert Reynolds Envi. Sci.
Roger Bonati C-A
Stephen Boose Physics
Andrew Mingino NSLS
Thomas Vogt Physics

Calendar

(continued)

— 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

Long-Term Care Planning Seminar

Noon. Berkner Hall. As part of the "Money Talks" series of seminars, American Express Financial Advisors, Inc. will talk about long-term care planning, including 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. Joyce Wund, Ext. 7516, jwund@bnl.gov.

Thursday, 9/26

BERA Softball League Party

6-10 p.m., East Wind Caterers, Wading River. **Last day to buy tickets is Friday, 9/13.** Tickets are at \$25 for the first 100 paid softball players and \$40 thereafter for players and guests at the BERA Sales Office in Berkner Hall. Sue Cataldo, Ext. 4461, cataldo@bnl.gov.

Thurs. & Fri., 9/26-27

BERA Book Fair

10 a.m.-3 p.m., Berkner Hall. Fun reading, from children's stories, cookbooks, best-sellers, etc. New, hardcover books will be in stock and sold at up to a 70 percent reduction. Credit cards and checks accepted. BERA Sales Office, Andrea Dehler, Ext. 3347.

— WEEK OF 9/30 —

Thursday, 10/3

BERA Bridge Club

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

Saturday, 10/5

Defensive Driving

9 a.m. to 3:30 p.m., 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.

— WEEK OF 10/14 —

Wednesday, 10/16

377th Brookhaven Lecture

4 p.m., Berkner Hall, Elio Vescovo, National Synchrotron Light Source Department, will give the next lecture, title to be announced.

Thursday, 10/17

BERA Bridge Club

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

Post 9/11 Stress

If you continue to experience psychological distress one year after the events of 9/11, or are concerned about other personal difficulties, then the clinical psychologists of the Employee Assistance Program invite you to make a confidential appointment. Call Ext. 3456.

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.

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.

LABORATORY RECRUITMENT - Opportunities for Laboratory Employees

NS2404. SR. ADMINISTRATIVE ASSISTANT (A-5) — Requires a minimum of eight years' related Laboratory experience, extensive knowledge of BNL policies and procedures and DOE requirements in multiple functional areas. Excellent organization, communication, and interpersonal skills and demonstrated ability to manage multiple priorities in an extremely fast-paced environment required. Proficiency with MS Office products, including Word, PowerPoint, Excel, and Outlook necessary. Knowledge of BNL management and budgetary systems, including ATS, CCTS, PeopleSoft Travel and WebReq highly desirable; HR, accounting and contracting experience a plus. Will report to the Director, Environmental Management, operating with minimum supervision, utilizing initiative and discretion in handling complex matters. Will also provide support to ER Group Managers as requested. Will act as EM point-of-contact and liaison for internal and external inquiries; interface with senior Laboratory management and external stakeholders on sensitive and/or confidential matters; will generate and distribute reports, and consolidate comments from Group Managers. Will coordinate directorate-wide meetings and reviews; serve as Records Management Coordinator; review internal and external requests on Director's behalf, forwarding to appropriate staff for action and completion and will supervise work of others. Environmental Management Directorate.

TB7441. OFFICE SERVICES ASSISTANT (CW-2) — Requires familiarity with Laboratory organization and physical layout, basic computer skills in data entry and database queries and good communication skills. Will perform customer service at the main gate temporary visitor's reception center from 7 a.m. to 3:30 p.m.; will screen visitors by verifying identity against gate access list and issue temporary identification badges and vehicle placards. Will coordinate with sponsors to validate guests' needs for access, provide directions and answers to questions, and coordinate with the Security Police Officers at the gates as necessary. Safeguards & Security Division.

TB2403. TECHNICAL SPECIALIST (two positions, T-2) — Requires an AAS degree in a scientific or technical field or equivalent capabilities, plus at least four years' pertinent experience, of which at least two years are expected to be with the Laboratory as Principal Technician. Specific experience in the use of core-boring equipment, sample chain of custody control, sample counting techniques (ISOCs), and equipment operation such as forklifts, manlifts and hand-held tools is desired. Responsible for work activities associated with decontamination and decommissioning (D&D) of the Brookhaven Graphite Research Reactor (BGRR). Work activities include packaging and movement of radioactive and hazardous material, decontamination of contaminated areas and equipment, and the collection, handling, analysis and control of samples. Environmental Management Directorate.

OPEN RECRUITMENT — Opportunities for Laboratory employees and outside candidates.

MK2758. ASSOCIATE SCIENTIST — Requires a Ph.D. in materials science and extensive experience in the investigation of flux pinning in superconductors; both experiments and theory. Will carry a basic study of flux pinning in high-Tc superconductors and independent investigation of electromagnetic properties of superconductors pertinent to high-current applications. Under the direction of M. Suenaga, Materials Science Department.

MK2351. ASSISTANT SCIENTIST — Requires a Ph.D. in physics, nuclear physics or equivalent experience with emphasis on accelerator operation, system integration and nuclear physics experiments. Five

years or more of postgraduate experience working with accelerators, nuclear detectors, and electronics is required as is knowledge of basic operational systems; VMS, UNIX, LINUX and Windows. Familiarity with fast nuclear electronics (FERA) is desirable. Will work with large detector arrays. Excellent communication skills and the ability to work independently with limited direct supervision are strongly desired as is ability to work within a team setting. Will work closely with scientific staff in assisting and participating in development, installation, and commissioning of a tandem proton accelerator. The project involves assembling a proton accelerator and testing and evaluating its operational characteristics for the purpose of producing resonance gamma radiation for elemental interrogation of small and large volumes. Applications include nuclear spectroscopy in bulk material for analysis and imaging, medical applications, and development gamma resonance technology in general. Duties include reviewing control systems, supervising mechanical assembly, operating the accelerator, performing beam experiments, and participating in target and detector design. The work requires operation of an accelerator and familiarity with computer systems and nuclear electronics. Other expectations include preparing publications, reports, and proposals, and presenting the results at professional meetings. Under the direction of L. Wielopolski, Environmental Sciences Department.

MK3058. ASSISTANT PHYSICIST — Requires a Ph.D. in condensed matter physics or related field and experience in neutron scattering techniques and building neutron instrumentation. A background in project management is desired as is expertise in synthesis and characterization of new materials. The position is with the Center for Neutron Science and research will involve the development and implementation of neutron scattering instrumentation as well as the involvement in synthesis and characterization of new materials. Current projects include a proposed time-of-flight inelastic instrument to be constructed at the Spallation Neutron Source and relocation of the US-Japan inelastic instrument to the HFIR reactor at Oak Ridge National Laboratory. Under the direction of S. Shapiro, Physics Department.

MK3059. POSTDOCTORAL RESEARCH ASSOCIATE — Requires a Ph.D. in condensed matter physics and experience with Fourier transform and grating spectrometers, infrared optics and materials, as well as cryogenic systems. A strong background in designing and setting up experiments is desirable. Research will involve the study of the optical properties of highly-correlated systems under pressure using diamond anvil cells (DAC). The use of strong-focusing optics in transmission and reflectance geometries will be explored, and conventional and synchrotron light sources will be employed. This work will be interdisciplinary and will build upon existing expertise with DAC's within the Physics Department and be related to new materials synthesis, and may involve studies of correlation effects in nanoscale systems. Under the direction of C. Homes, Physics Department.

MK2803. POSTDOCTORAL RESEARCH ASSOCIATE — Requires a Ph.D. in radiation biology, biochemistry or molecular biology. Research will focus on studying radiation-induced DNA damage clusters—recently discovered lesions that may be the origin of radiation lethality and mutagenicity in mammalian cells. (See Sutherland *et al.*, PNAS USA 97:103-108; *Biochemistry* 39:8026-8031; *Rad. Res.* 157:611-616; *Nucleic Acids Res.* 30:2800-2808). Potential for studying cluster hazard to space travelers in NASA-funded Heavy Ion Radiobiology program. May involve travel to collaborating institutions. Under the direction of B. Sutherland, Biology Department.

MK2804. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in biophysics, biochemistry, or related field. Experience with transmission electron microscopy and image analysis is a plus. Will be involved in research to determine the structures of a number of biological macromolecular complexes. This work will involve biochemistry, cryo-electron microscopy and digital-image processing. Facilities available include a new 200 keV FEG TEM, and access to the STEM facility and National Synchrotron Light Source. Under the direction of H. Li, Biology Department.

MK2725. POSTDOCTORAL RESEARCH ASSOCIATE — Requires a Ph.D. in chemical physics, physical chemistry or a related discipline and experience with high vacuum equipment, and some combination of the following experimental techniques: time-of-flight mass spectrometry, ion imaging, high resolution spectroscopy, photoionization spectroscopy, nanosecond or cw lasers and molecular beam techniques. Research will include the development and application of novel imaging mass spectrometric probes of complex molecules in mixtures. Under the direction of A. Suits, Chemistry Department.

NS2722. SCIENTIFIC ASSOCIATE I (P-8, term appointment) — Requires a Ph.D. and five years' related experience or an MS and seven years' related experience and the ability to work independently with minimal supervision. Responsibilities include maintaining and upgrading slow controls and monitoring for the PHOBOS experiment as needed, implementing software infrastruc-

ture changes for PHOBOS as needed, such as implementing new data formats, improving the database interface and improving code efficiency. Chemistry Department.

NS2063. SCIENTIFIC ASSOCIATE I (P-8, part-time, term appointment) — Requires an MS, or equivalent, and a minimum of 10 years' experience in a physical science or engineering field; x-ray scattering and spectroscopy background; and at least three years' experience at a synchrotron are required. Basic mechanical, vacuum, electronic, and computer skills are required. Will support any of the soft x-ray and hard x-ray beam lines under the auspices of the NSLS User Science Division (USD), as well as new beam lines to be developed in these areas. Responsibilities will include the maintenance and operation of these beam lines, their end-stations, and associated equipment, including x-ray optics, goniometers, diffractometers, magnets and detectors. Will also participate in instrumentation and methods R&D, spanning the full range of soft x-ray and hard x-ray techniques utilizing synchrotron radiation. Will also participate in upgrades and continued development of the USD soft x-ray and hard x-ray beam lines (spectroscopy, diffraction, scattering and imaging). National Synchrotron Light Source Department.

NS2065. SCIENTIFIC ASSOCIATE POSITION (P-5, term appointment) — Requires an MS in a physical science or engineering field, three years' related experience; some x-ray background is important ad experience at a synchrotron is helpful. Computing and basic mechanical, vacuum, cryogenic, and electronic skills are desirable. Will support diffraction beam lines, principally X6B, by interacting with beam line scientists and users, coordinating efforts related to experiment changes and overseeing instrument alignments ensuring calibrations and operational status of beam line and experimental equipment, including x-ray optics, goniometers, crystals, and area detectors. Will also participate in x-ray diffraction instrumentation and methods R&D. National Synchrotron Light Source Department.

MK2788. RESEARCH SERVICES ASSOCIATE (CW-2 — term appointment/part-time) - Requires high school degree plus relevant science coursework, preferably college level, and related experience in a laboratory environment. Will provide laboratory assistance to neuroimaging program. Specific tasks include: harvesting neural tissue, embedding and cryosectioning this tissue, histological processing of tissue, stereotaxic surgery, behavioral testing, and general laboratory maintenance. Medical Department.

NS2113. SENIOR TECHNOLOGY ENGINEER (I-8) — Requires BSEE (MSEE preferred); excellent systems engineering skills, a minimum of 8 years' experience, including hands-on design of digital hardware, excellent communication skills and experience with project planning and scheduling. Familiarity with high density programmable gate arrays and design tools for schematic capture and simulation a must. Experience with advanced microcomputer bus interfacing is necessary; embedded microcontroller hardware/firmware design and development systems experience a plus. Knowledge/experience with analog signal interfacing desirable. Will be involved in the design and development of state-of-the-art, real-time accelerator distributed controls system and data acquisition systems for the Brookhaven Collider-Accelerator complex. Collider-Accelerator Department.

NS2468. ADVANCED TECHNOLOGY ENGINEER (I-7) — Requires a bachelor's degree in information technology, physics, or closely related field and five years' experience in support of large-scale scientific computing. An advanced degree and experience in HEP/NP computing are highly desirable. Knowledge of and experience with LINUX and/or Solaris system support and administration, including networked file systems and other distributed computing tools and utilities, required. Programming/scripting experience using modern programming techniques and languages such as C++, Java, Python, and Perl, as well as experience with large scale RAID and robotic tape systems, and facility level experience in cyber security are all desirable as is experience with Globus-based computing Grid technology. Will participate in the analysis of HEP/NP user community requirements and the design, development and operation of the computing facilities, including both local computing fabric and wide-area Grid infrastructure, necessary to satisfy those requirements. Physics Department.

NS2469. GROUP LEADER (I-9, term appointment) — Requires a BS degree or equivalent experience in computer science or physics (a Ph.D. is highly desirable), at least eight years of relevant experience, a strong background in programming using C++, FORTRAN, and GEANT3, several years' experience in heavy-ion physics, and good communication skills. Position is with the STAR Experiment at RHIC, which is seeking a new leader of the collaboration's event and detector simulation efforts. Will manage a team of people working on maintenance and further development of the detector simulation software; will actively participate in code development;

BERA Hispanic Heritage Club Presents Concert, 9/21

Spanish Flamenco Music, Dance



The BERA Hispanic Heritage Club will present a Spanish Classical and Flamenco Concert at Berkner Hall on Saturday, September 21, at 7 p.m., featuring the Sol y Sombra Spanish Dance Company. The gypsy flamenco of Andalucia mixes the rich traditions of Spain's Arabic, Moorish and Hebrew past with both South American and indigenous Spanish music to create this exciting and dramatic art form. In the BNL concert, the dancers will be accompanied by musicians and singers.

Buy tickets in advance at the BERA Sales Office, Berkner Hall, at \$10 for adults, and \$5 for chil-

dren under 12. At the door, tickets for adults will cost \$12. Cash or checks will be accepted.

For more information about the concert, call Ext. 3347.

On-Site Security Exercises Under Way

Over the next several weeks, the Safeguards & Security Division will conduct another round of on-site training exercises, both during and after usual working hours. The Police Group's tactical response teams will actively train around the clock, and some of the exercises will include participation by local law-enforcement agencies. Therefore, employees will see an increased number of BNL police, various other uniformed officers, and marked vehicles on site at any given time as the exercises commence.

BNL Food Drive

Remember: donate canned goods this September using the food bins provided in each building. Hungry people in Brookhaven Town depend on BNLers' generosity.

Hospitality Committee Potluck Party, 9/20

To welcome everyone back after the summer vacation, especially newcomers to the Lab, the Hospitality Committee invites all visitors and guests and their families to a potluck party on Friday, September 20, starting at 5:30 p.m., in the Recreation Hall. Bring a dish to share for six people. For more information, call Monique de la Beij, 399-7656.

Learn to Dance



Lindy & Swing!

8 weeks of lessons start
Next Wednesday, 9/18

Register now for beginners

• 5-6 p.m. quick-start lindy & swing, \$40/person

• 6-7 p.m. intro cha cha, fox trot, mambo & merengue, \$30/person

Offered by the BNL Dance Club, lessons are held in the North Ballroom, Brookhaven Center. For more information, contact Marsha Belford, belford@bnl.gov or Ext. 5053.