

## BSA Distinguished Lecture The Aging Process

A BSA Distinguished Lecture on "Puzzles and Paradoxes of the Aging Process" will be given on Wednesday, November 14, by award-winning biomedical gerontologist Caleb Finch, a professor at the University of Southern California's Ethel Percy Andrus Gerontology Center. Finch's books include *Longevity, Senescence and the Genome*, and *Chance, Development and Aging*.

The lecture will begin at 4 p.m. in Berkner Hall. The lecturer will be available for a book signing afterward.



**Caleb Finch**

For more information on the lecture, see *The Bulletin*, August 31, 2001, at [www/bnl.gov/bnlweb/pubaf/bulletin.html](http://www/bnl.gov/bnlweb/pubaf/bulletin.html).

## Peter Paul Named BNL Interim Director

Brookhaven Science Associates (BSA) has appointed Peter Paul, BNL's Deputy Director for Science & Technology, as BNL Interim Director, effective October 26. John Marburger resigned as BNL Director after the U.S. Senate confirmed him as Director, Office of Science & Technology Policy, on October 23. Marburger had served as BNL Director and BSA President since 1998.

While Paul serves as Interim Director, a committee composed of two members of the BSA Board of Directors, William Madia and Robert McGrath; and Donald Engelman, Chair of the BSA Science & Technology Steering Committee, is working to identify potential candidates for the next BNL Director. His or her appointment will be recommended to



Roger Stoutenburgh CN7-209-01

DOE by the 16-member BSA Board of Directors.

Paul commented, "I am proud to serve as Brookhaven's Interim Director and to continue the exemplary management that John Marburger brought to this Labo-

ratory. BNL's scientific programs are first-rate, and its progress in environmental remediation and communications under Dr. Marburger's leadership have been praised by both the public and the Department of Energy."

Peter Paul received a Ph.D. in experimental nuclear physics from the University of Freiburg in 1959. Then, he became a research associate and an acting assistant professor at Stanford University in 1960. In 1967, he joined Stony Brook University's (USB) Department of Physics. He became Distinguished Service Professor in 1992 and served as Chair of the Physics Department from 1986 to 1990, and from 1996 to 1998.

As Director of USB's Nuclear Structure facility, Paul developed and constructed the university's superconducting heavy-ion linear accelerator. Paul has served as BNL's Deputy Director for Science & Technology since March 1998, when BSA took over the Laboratory's management.

A Fellow of the American Physical Society, Paul was a member of the DOE/National Science Foundation Nuclear Science Advisory Committee from 1980 to 1983, and served as chair of the committee from 1989 to 1992. He is the author of about 170 refereed articles in nuclear and accelerator science journals. In 1983, Paul was honored as the recipient of the Alexander von Humboldt Senior Scientist Award. — Diane Greenberg

## Reilly Awarded by *Popular Mechanics*

James Reilly, now retired from BNL's Chemistry Department but still active in groundbreaking research at the Lab, has been awarded a 2002 Design & Engineering Award by *Popular Mechanics* magazine.

The awards, given annually, honor innovation, invention, design, and engineering in five fields covered by the magazine. Reilly was cited in the science category for his work on developing a new metal alloy that promises to improve the performance of rechargeable batteries. He and sixteen other winners will be featured in the December issue of the magazine.

Said *Popular Mechanics* Editor-in-Chief Joe Oldham, "Our Design & Engineering Award is the highest honor we can bestow. And our editors were particularly stingy this year, in that only seventeen recipients were chosen. The winners are truly the best of the best."

Said Reilly, "This recognition by *Popular Mechanics* is particularly grati-

fying at this point in my life, since I retired shortly after this work was completed. I wish to note the essential contributions of my co-workers, John Johnson, Gordana Adzic, Tom Vogt, and Jim McBreen, without whom this work would not have been possible. I also thank the administration of Brookhaven National Laboratory for offering me a Guest Scientist Appointment after my formal retirement, which permits me to continue to be active in this field."

Reilly and his team were recently awarded a U.S. patent for their work on the new alloy. For more on the patent, see <http://www.bnl.gov/bnlweb/pubaf/pr/bnlpr072601a.htm>.

— Karen McNulty Walsh



Roger Stoutenburgh CN8-87-01

Holding a sample of the new alloy is James Reilly, with (clockwise from front, left) Gordana Adzic and James McBreen, both of the Environmental Sciences & Technology (ES&T) Department; Thomas Vogt, Physics Department; and John Johnson, ES&T.

## IBM Research at the NSLS

### Making Denser, Faster Computer Chips

IBM scientist  
Jean Jordan-  
Sweet  
inspects  
silicon  
germanium  
samples using  
the micro-  
diffractometer  
at beam line  
X20 at the  
National  
Synchrotron  
Light Source.



Joseph Rubino CN8-175-01

The IBM Research Division has been studying micro-electronic computer chips and their component materials at the National Synchrotron Light Source (NSLS) since its commissioning in 1982. Chips are the smooth rectangular or square electronics packages that comprise the microprocessor and memory in a computer, mobile phone, or any number of "smart" appliances. Each microprocessor chip contains many hundreds of thousands of electronic devices — mainly transistors — embedded in many layers of various materials, including silicon, insulators, and metals.

Currently, IBM makes devices with some features that are only a few atoms thick. IBM researchers at the NSLS are looking at ways to make these devices even smaller and faster. Electrical signals are transported through smaller devices more quickly and with less effort, which translates to faster, cheaper, and more efficient computers.

(continued on page 3)



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 M. Kay Dellimore, 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.

HEALTH CARE, DEPENDENT DAY CARE REIMBURSEMENT ACCOUNTS DEADLINE 11/30

Enroll now in these accounts. Forms are available in Bldg. 185. For more information, contact the Benefits Office, Ext. 2877.

— EACH WEEK —

Mondays: Arts & Crafts

1 p.m., Rec. Bldg. Hospitality event. \$1 per class. "Basic Photography" begins Monday, November 19. Participants should bring their camera and a few photographs that they have taken. Marcia Leite, Ext. 1040, mhsleite@hotmail.com.

Mondays: BNL Gospel Choir

5:15-7 p.m. Rehearsals in Berkner auditorium. Seeking new members, all faiths. Frances Ligon, ligon@bnl.gov, Ext. 3700; Sydell Lamb, lamb@bnl.gov, Ext. 3389; www.bnl.gov/bera/activities/choir/.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Hospitality event. Come and meet friends. The first Tuesday of each month is special for Lab newcomers and leaving guests. Hospitality Chair Mimi Luccio, 821-1435.

Tuesdays: Toastmasters

Meetings are held the 1st and 3rd Tuesday of each month at 5:30 p.m. and on the 4th Tuesday at 12:05 p.m. in Bldg. 463. Guests and visitors are always welcome. www.bnl.gov/bera/activities/toastmasters/default.htm.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club

North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053; Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553; Sue Perino, perino@bnl.gov or Ext. 2483.

Wednesdays: Cooking Exchange

10 a.m., Rec. Bldg., Hospitality event. Every third Wednesday. \$1 per evening covers the cost of ingredients. Marcia Leite, Ext. 1040, mhsleite@hotmail.com.

Wednesdays: Weight Watchers

noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923.

Wednesdays: Yoga Practice

12-1 p.m., Rec. Bldg. Free. Ila Campbell, Ext. 2206.

Wednesdays: Stretch

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

Thursdays: Falun Dafa Class

Free, 12-1 p.m., Rec. Bldg. Falun Dafa refines the body and mind through exercises, meditation. www.falundafa.org.

Tuesdays & Thursdays: Aerobics

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

Tues. & Thurs.: Aqua Aerobics

5:15 p.m. \$2 pool fee per class or pool pass. Mary Wood, Ext. 5923.

Mon. Tues. & Thurs.: Cardio Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

Mon., Wed. & Thu.: Tai Chi

12:15 - 12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, bradley@bnl.gov.

— THIS WEEKEND —

Friday, 11/9

Globe Meeting

For information about the next meeting of BNL's gay and lesbian club, GLOBE, contact Debbie Bauer, Ext. 5664, or Mike

Lessons Learned Program Helps Lab Improve Operations



Roger Stoutenburgh 02081001

Pictured outside Berkner Hall after the awards luncheon, this year's Lessons Learned award winners and program organizers are: (front row, from left) Kathy Carney, Waste Management Division (WMD); Charlie Dimino, Independent Oversight Office (IO); Peggy Sparrow, IO; Joyce Mortimer, IO; Peter Paul, Interim Laboratory Director; Pat Sullivan, Radiological Controls Division (RCD); Chuck Schaefer, RCD; Dave Passarello, Collider-Accelerator Department; Doug Ports, Performance-Based Management & Integrated Assessment Office; John Boccio, Energy, Environment, & National Security; Mike Gaffney, Magnet Division. (Back row, from left) Steve Layendecker, RCD; Steve Coleman, WMD; Robert McNair, IO; Terry Monahan, Safety & Health Services Division (SHS); Tom Sheridan, Deputy Director for Operations; Tom Dilgen, Magnet; Mike Buckley, National Synchrotron Light Source (NSLS); Nick Gmur, NSLS; Ed Sierra, IO; Joe Levesque, Emergency Services Division; and Otto White, SHS.

Nine authors who drafted seven lessons learned (LL) communications over the last fiscal year were presented with monetary awards by Peter Paul, Interim Laboratory Director, and Tom Sheridan, Deputy Director for Operations.

In addition to the nine award recipients, 15 authors of 21 lessons learned received special recognition for their work at an awards luncheon held on October 15 in Berkner Hall.

The LL program at BNL identifies sources of information relevant to work or opera-

tions, analyzes that information for both good and adverse work practices, and then takes appropriate actions in response to these improvement opportunities.

According to Ed Sierra, BNL's LL Program Coordinator, "Successful organizations improve their operations by learning from their own experiences and from the experiences of others."

Sierra explained that a job going particularly well is often not reported. "But, by documenting cases where outcomes

are desirable, we can retrace our steps when faced with similar tasks in the future," he said.

Sierra continued, "Everyone who submitted lessons learned communications this past year has helped to share knowledge derived from experience, which will promote desirable future outcomes and minimize the occurrence of undesirable ones."

To encourage participation in the LL Program, Sierra — acting on the advice of Patricia Bender, Plant Engineering Division, who attended one of Sierra's LL presentations — ini-

tiated an incentive program this past March. A Lab-wide call for LL communications was made with posters and an announcement in the *Monday Memo*.

The winning lessons were selected after all the lessons were evaluated against specific criteria.

To participate in this year's LL Incentive Program, which began on October 1, contact Ed Sierra, Ext. 4080. To read last year's award-winning LL communications go to <https://sbms.bnl.gov/lessons/ll00t011.htm>. — John Galvin

2001 winning Lessons Learned communications:

- **Glovebag System Used to Remove Large Contaminated (Radioactive) High Efficiency Particulate Air Filters:** Patrick Sullivan, Radiological Controls Division (RCD); Thomas Roberts, Department of Environmental Sciences
- **Destructive Power of Propane Tanks Involved in Fires:** Joseph Levesque, Emergency Services Division
- **The Use of Backpacks Reduces Potential Fall Hazard:** Patrick Sullivan, RCD; David Robbins, Safety & Health Services Division
- **Release of Lighting Fixture PCBs:** Thomas Dilgen and Michael Gaffney, both of the Magnet Division

- **Historical Process Knowledge Prevents Inadvertent Disposal of Radioactive Material as Nonradioactive Waste:** Patrick Sullivan, RCD
- **Successful Implementation of the Family Assessment Tracking System at Collider-Accelerator Department and National Synchrotron Light Source:** Michael Buckley, National Synchrotron Light Source; David Passarello, Collider Accelerator Department
- **Fork Lift Operations on B-25 Box Leads to Radioactive Material Spill:** Steven Coleman, Waste Management Division

No Turkey-Time Tremors for the Wild Turkeys Trotting on Site

Thanksgiving means a traditional turkey dinner to most Americans — but the wild turkeys on the BNL site will be safe from the dinner table. In fact, all Long Island wild turkeys are protected by the New York State Department of Environmental Conservation (NYSDEC), which has banned turkey hunting in order to bring back the wild turkey population on Long Island.

In the early 1990s, the NYSDEC transported 49 wild turkeys to Southaven Park in Shirley, only a few miles from the Lab, to reestablish the birds in the area. BNL has been monitoring the turkey population on site to help assess the success of the program.

Tim Green, Cultural and Natural Resources Manager, BNL Environmental Services Division, who is in charge of the wild turkey count on site, said that the birds appear to be thriving on the BNL site. He first started tracking the turkeys in 1999 based on reports of sightings from employees and his own investigations. Since then, the population has grown from about 150 to approximately 250 this year.

Mature male wild turkeys, or toms, stand as tall as 2 1/2 feet and weigh up to 25 pounds. Females, or hens, are smaller, and weigh about 9 to 12 pounds. The toms have a long beard of feathers on

their chest, and their body is dark brown and black. The hens have a rusty brown body.

According to Green, wild turkeys' diet consists of insects during the spring and summer and acorns in the fall and winter. Chicks hatch in June or July. The chicks are precocious and start running immediately. Within a few weeks, they start to fly.

"At one time, the wild turkey was prevalent throughout the U.S.," Green said. "In fact, Benjamin Franklin wanted to make it the national bird. It's a smart bird, usually hard to track."

Also, the wild turkey is a fast bird, flying at speeds of 40 to 55 miles per hour, and running at about 12 miles per hour. But, Green said, "They don't fly very far, and they can be seen around the Lab site not only on the ground, but roosting in trees."

"If you see the wild turkeys on site, please don't feed them," Green asks. "We want to keep the wild turkeys wild. Feeding them makes them dependent on humans."

Green asks that if you spot wild turkeys on site, you notify him at [tgreen@bnl.gov](mailto:tgreen@bnl.gov), or Ext. 3091. He would like to know the number of adults and young, their sex ratio and the locality. So far, the largest spotting was 69 wild turkeys at one time. — Diane Greenberg



Roger Stoutenburgh 02081001



IBM Research at the NSLS  
Computer Chips (cont'd.)

“When devices are so small, individual components can behave in unusual ways. For example, what is normally a conductor may act as an insulator when it is small enough,” says Jean Jordan-Sweet, an IBM researcher stationed at beam line X20 at the NSLS. “We study the behavior of these component materials at the atomic level. Using x-rays, we examine all the materials in chips, from silicon to insulators, copper, and tungsten, and we look at how the materials interact and how the small features behave. These data are needed for designing better devices.”

Jordan-Sweet and her collaborators employ several diffraction techniques at X20 that are especially suited for investigating the structural behavior of a wide range of materials in microelectronics. In all types of x-ray diffraction, x-rays bounce off a crystalline sample at specific angles and strike a detector. The diffraction patterns are then mathematically analyzed to determine the structural arrangement of atoms in the sample.

One technique that Jordan-Sweet uses is microdiffraction, to study defects and strain — the squeezing or stretching of atomic spacings — in films and

“It’s getting harder to make . . . progress, but the NSLS gives us the measurement capabilities we need.”

devices made of silicon-germanium. This material is being developed for use in strained silicon transistors. Electrical charges can pass through thin layers of strained silicon much faster than they pass through relaxed silicon. Therefore, strained silicon grown on silicon germanium is ideal for making high-speed devices, and, thus, more efficient computers.

The IBM researchers use a microdiffractometer with high-intensity x-rays that are the size of several microns to probe extremely small features in materials. When the samples are scanned, defects can be seen by a change in intensity of diffracted x-rays.

Jordan-Sweet notes the progress in making denser chips over the last decade: “In 1988, IBM researchers using x-ray lithography techniques at the NSLS demonstrated that they could make devices with features that were 0.5 microns long, while manufacturers, including IBM, were actually producing devices having minimum feature sizes of one micron. Today, devices are made by fairly conventional methods that have features of under 0.2 microns.”

Chips are further improved, Jordan-Sweet explains, by advances in materials and processes, such as converting from aluminum to copper conductor lines, or adding an insulating layer between the silicon wafer and the devices grown on it.

“It’s getting harder to make that kind of progress,” Jordan-Sweet adds, “but the NSLS gives us the measurement capabilities we need to develop materials to meet the challenge of improving computer chips in the future.” — Diane Greenberg

USB Multifaith Event, 11/15

Sheng-Yen, an international figure in Zen Buddhism and author of 90 books on the topic, will speak at a multifaith event, “Healing, Reconciliation, and World Peace,” at Stony Brook University’s (USB) Student Activities Center auditorium, on Thursday, November 15, at 7 p.m.

Representatives from USB’s Interfaith Center, including Rabbi Joseph Topek of the Hillel Foundation for Jewish Life, Sister Sanaa Nadim of the Islamic Society of North America, and Brother Clark Berge of the Protestant Campus Ministry, will join Sheng-Yen to discuss “Conflict and Harmony.” All are welcome to this free event.

All are invited to the

**Lab Community**  
**2002 Art and Crafts Show**  
*sponsored by the BNL Art Committee*

Monday-Wednesday, November 19-21  
Berkner Hall, Room B  
Daily, 11:30 a.m.-1:30 p.m.

An evening reception will be held on Monday,  
November 19, 5-7 p.m.  
Refreshments will be offered.

Hospitality Events

St. Martin Party, Sunday, 11/11

The party starts at 4:30 p.m. at the Recreation Bldg. See details in the calendar (at right). Call Simone Oppenheimer, 929-0043.

Thanksgiving Dinner, Saturday, 11/17

The Hospitality Committee invites everyone to a Thanksgiving dinner on Saturday, November 17, at 5:30 p.m. in the Recreation Bldg. See details in the calendar (at right). Call Hospitality Chair Mimi Luccio, 821-1435, or Shashi Somanu, Ext. 1064.

Retirement Counseling

A TIAA-CREF representative will visit BNL on Wednesday and Thursday, December 12 & 13, to answer employees’ questions regarding the TIAA-CREF retirement plan. You might ask about:

- TIAA and CREF differences
- allocating funds between TIAA and CREF
- options, flexibilities with TIAA/CREF
- retirement options

To arrange a 45-minute appointment, call Duane Walden, (800) 842-2733, Ext. 7289 (not the on-site Ext. 7289).

Arrivals & Departures

Arrivals

Antonio Hammil .....	C-A
Peter Koello .....	C-A
Peter Louie .....	NSLS
Allyson Ngyuen .....	Biology

Departures

Divine Adika .....	Medical
Carole Asnaghi .....	Biology
Diane Giff .....	ISD
Stephen Gushue .....	Chemistry
Claire Lynga .....	Chemistry
Jurgen Schaffner-Bielich .....	Physics
Alan Smith .....	ITD
Gerard Tanguay .....	Reactor
Lynn Warkentien .....	Medical

Fire Hydrant Flushing  
November 26-30

To improve and maintain the quality of the Lab’s water, fire hydrants will be flushed Monday to Friday, November 26-30, as follows:

- Mon.: Upton Road through the apartment area
- Tue.: Cornell Avenue and its cross streets
- Wed.: Brookhaven Avenue
- Thu.: Bell Avenue
- Fri.: Rutherford Drive and Lawrence Drive.

For more information, call Marsha Belford, Ext. 5053, or Bill Chaloupka, voice pager 0552.

God Bless America  
Written at Camp Upton

The song titled *God Bless America* was written by Irving Berlin after he had been drafted in 1918 to Camp Upton, now the site of BNL. Berlin had intended the song for his World War I show about the army, *Yip! Yip! Yaphank*, but it was not considered lighthearted enough to be included in the production.

According to Mary Ellin Barrett in her book *Irving Berlin — A Daughter’s Memoir*, her father reworked the song for Kate Smith, who sang it first on November 11, 1938.

The song “seemed just right for the ominous uncertain autumn of 1938,” shortly before the start of World War II, noted Barrett. She recalled that Berlin had “added a verse about storm clouds gathering across the sea, made a couple of lyric and melody changes in the chorus, and there it was, ‘God bless America, land that I love . . .’”



Irving Berlin (above) appeared dressed as a soldier in Act II of his 1942 revue *This Is the Army*, which he also wrote at Upton.

‘Money Talks,’ 11/15

A talk on “College Funding Options” will be given by American Express financial planning advisors at noon in Berkner Hall, Room B, Thursday, November 15.

BSA Scholarship  
Application Deadline

November 15 is the deadline for 2002 BSA Scholarship applications for children of regular employees to study toward an academic degree. For more information, call Bonnie Hulse, Human Resources Division, Ext. 2885.

Safeguards & Security Reminder

Key points for conducting Lab business safely & securely

BNL’s Safeguards & Security Division (SSD) reminds employees that while Lab police officers have implemented additional security measures, there are steps that employees should be taking to help maintain the heightened security at the site. SSD Manager Russel Reaver urges employees to use caution when discussing the Lab.

While recognizing that scientific research relies on the open and free exchange of information, Reaver encourages all employees to be certain that they know whom they are talking to before releasing information about the Lab. The validity of telephone and e-mail requests

for information can be verified by checking directories and calling the listed number back.

Employees are also reminded to be careful in discarding material in the trash. Says Reaver, “If you don’t want the world to read it, information should not be placed in the trash without being shredded.”

“There are people willing to go to great lengths to gather information about the Lab that is carelessly or inadvertently made available to them,” said Reaver. “Ensuring that sensitive and proprietary information is protected and, when no longer needed, properly destroyed, is everyone’s responsibility.”

Calendar

(continued)

Loftus, Ext. 2960.

Saturday, 11/10

BERA Shopping Trip

All day shopping at Franklin Mills Discount Mall, Philadelphia, PA. 200 or more stores, no tax on clothes. Bus leaves Brookhaven Center at 7 a.m., returns about 10 p.m. Reserve at \$20 each person from BERA Sales Office.

Sunday, 11/11

\*St. Martin Party

4:30 p.m., Rec. Bldg. Hospitality event. Come, participate in the old German and Dutch tradition of a St. Martin party. Each child should bring a lantern for the parade. Adults should bring a dish to share for the potluck dinner, which will follow the parade. Simone Oppenheimer, 929-0043.

—WEEK OF 11/12—

Wednesday, 11/14

Oscilloscope Demo

9:30 a.m. - 2:30 p.m., Berkner Hall. See the new Tektronix TDS500 Series Digital Phosphor Oscilloscope (1 GHz and 500 MHz models) demonstrated by Exphil Calibration Labs. Other test equipment from Tektronix, Agilent, Fluke, AEMC, Pomona, Hioki. Gary, 563-3520.

Divorced & Separated  
Support Group

noon-1 p.m., Berkner Hall, Room A. Mary Campbell, Ext. 4776, maryc@bnl.gov.

Rifle & Pistol Group Meeting

noon, 2nd Floor Conference Room, Bldg. 120. Jim Durnan, Ext. 5993.

BSA Distinguished Lecture

4 p.m., Berkner Hall. Caleb Finch, University of Southern California, Ethel Percy Andrus Gerontology Center, will present “Puzzles and Paradoxes of the Aging Process.” Finch will also be available for book signing. (See page 1.)

Thursday, 11/15

Brookhaven Advocacy  
Council Meeting

Open Session, 12:30-1 p.m., Berkner Hall, Room C. Nancy Warren, Ext. 7548.

Money Talks Seminar

\*Noon, Berkner Hall. “College Funding Options” talk will replace “Long-Term Care Insurance,” which will be rescheduled. Joyce Wund, Ext. 7516.

Saturday, 11/17

\*Thanksgiving Dinner

5:30 p.m., Rec. Bldg. Come with your favorite dish to share. Turkey, traditional dishes, and soft drinks will be provided. Mimi Luccio, Hospitality Chair, 821-1435, or Shashi Somanu, Ext. 1064.

—WEEK OF 11/26—

Monday, 11/26

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.

Wednesday, 11/28

Divorced & Separated  
Support Group

noon-1 p.m., Berkner Hall, Room D. Mary Campbell, Ext. 4776, maryc@bnl.gov.

Noon Recital

noon, Berkner Hall. Trio Fantastique presents music by Bach, Mozart, and Ibert.

—WEEK OF 12/3—

Wednesday, 12/5

Money Talks Seminar

“Pre-Retirement Estate Planning” More information to follow: Joyce Wund, Ext. 7516.

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. Please enter the 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.



# Calling All Carollers

Starting after Thanksgiving on Monday, November 26, all members of the Lab community, including retirees, guests, and families, are invited to meet in Berkner Hall auditorium at noon sharp on Mondays and Thursdays to rehearse for the annual Christmas/Holiday concert in the Cafeteria, which will be held mid-to-late in the week of December 17.

Singers are urgently needed for all parts: soprano, alto, tenor, and bass. All who like to sing are urged to join. It is not necessary to be able to read music: this choral group meets for enjoyment — of its members first, and of its audience — second!

For more information, contact  
Liz Seubert, Ext.  
2346, lseubert@  
bnl.gov.



## 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/JOBS/jobs.html](http://www.bnl.gov/JOBS/jobs.html).

**LABORATORY RECRUITMENT** – Opportunities for Laboratory employees.

TB2357. OFFICE SERVICES ASSISTANT (CW-2, Term Appointment) - Requires a minimum of a High School diploma and two years related work experience. Familiarity with MS Office is necessary. Under close supervision, will carry out basic office assignments primarily relating to the Isotope Production Office. Responsibilities will include processing isotope sales orders under prescribed DOE guidelines, maintaining sales records, tracking and reporting data, and performing data processing and general clerical functions. On an as-needed basis, will also assist other administrative groups within the Department. Medical Department.

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

MK8057. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in computer science, applied mathematics, physics or other scientific discipline and strong computing skills. Experience in C++ and object oriented programming desired, with knowledge of OpenGL, WireGL or MPI a plus. The Data Analysis and Visualization Group is seeking a candidate for a computational research position. Will join a team participating in many areas of data analysis and visualization, with applications to biology, x-ray computed tomography, medical physics, high energy and nuclear physics, condensed matter physics and lattice computations. Will play a major role in the development of a parallel and cluster visualization software for the optimization and compute intensive interactive visualization of large data sets, with applications to volume rendering, particle simulation, data mining and computational fluid dynamics. Under the direction of M. McGuigan, Information Technology Division.

MK2319. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in x-ray crystallography or structural biology and a

background in x-ray crystallography, structure determination, molecular modeling or web/database designing is preferable. Experience in scientific programming and computing languages such as C, C++, FORTRAN, Perl, Java, XML, and Python. Research program involves developing computational methods and software for high-throughput structure determination in structural genomics (<http://asdp.bnl.gov/>). The Biology Department is part of New York Structural Genomics Research Consortium ([www.nysgrc.org](http://www.nysgrc.org)) and has excellent facilities at the National Synchrotron Light Source. Under the direction of J. Jiang, Biology Department.

TB2356. MEDICAL ASSOCIATE III (P-3, Term Appointment) - Requires a bachelor's degree in biology with a minimum of 5 years' related experience in tissue culture of eukaryotic cells, biochemistry, cell biology and molecular biology. Experience in handling animals (primarily rodents), basic knowledge of, and demonstrated skills in, anesthesia, euthanasia, microsurgery, and necropsy in rodents is necessary; good communication skills and the ability to work in a group setting are important. Under general supervision, will support experimental studies on radiation biology and neurotoxicology, as well as assist the logistic support of NASA users in the execution of heavy ion radiobiology experiments using AGS-BAF beam lines. Responsibilities include the maintenance and operation of tissue culture facilities, set-up of laboratories as well as performing routine computer operations. Medical Department.

TB2016. TECHNICAL SPECIALIST POSITIONS (T-2) - Requires an AAS degree in industrial hygiene (IH), engineering, physical or life sciences or equivalent. Must have at least three years of specialized experience with a minimum of half of that time concentrated in IH services. Certification or the ability to be certified for OSH, NYS asbestos, NYS Lead, and OSHA hazardous waste site worker is highly desirable. Experience in enforcement of safety and occupational health standards or related codes are desirable. Tasks include inspections and investigations of a wide variety of operations and environments in the workplace for compliance with OSHA standards and ACGIH guidelines. Will perform safety inspections in workplaces and monitor work activities for health and safety regulation compliance. As needed, will assist health physics personnel in radiological data gathering as trained and directed. Safety & Health Services Division.

# Sharing From the Heart United Way Campaign Kicks Off

The 2002 BNL United Way campaign kicked off on Wednesday, November 7. Pledge cards are being sent to all employees and retirees, and Susan Monteleone, chair of this year's United Way campaign, hopes that Lab employees will continue to give generously.

"Many of us gave without hesitation to various funds for the victims of the World Trade Center," said Monteleone. "And these contributions helped ease their suffering. But there are many worthy service agencies that rely all year round on our United Way contributions. They are well deserving of our aid. So, please, let's not fail them. Our goal this year is \$115,000. I know that in our goodness and kindness, we can meet or surpass this goal and continue to help those far less fortunate than ourselves."

Used by one out of three Long Islanders at some time in their lives, the more than 160 services helped by United Way funding ensure that whenever people need outside assistance — care for seniors, guidance for youth, training for the disabled — help is at hand.

Monteleone explained that Beth Blevins, Co-Chair of this year's drive, is heading the volunteer program. With supervi-

sory approval, employees can volunteer for a minimum of two hours, one of which can be a work hour, at a United Way agency. BSA will donate \$20 per employee hour, up to a ceiling of \$10,000. To find out which agencies want volunteers, contact Blevins, [blevins1@bnl.gov](mailto:blevins1@bnl.gov) or Ext. 5630.

In addition, Linda Sinatra, [sinatra@bnl.gov](mailto:sinatra@bnl.gov) or Ext. 6042, is heading a Holiday Raffle effort to be held at Berkner Hall on December 12 and 13. This year, many people are making holiday gift baskets or theme baskets to donate for the raffle. If you cannot make a whole basket, you may be able to contribute items that are useful to someone else's basket.

BNL will also be collecting items for Haven House/Bridge, Inc., a shelter for the homeless. Tiffany Minter and Sharon Jones are collecting donations (see flyer below).

For more information, contact your department or division's United Way captain. Send your pledge form to Liz Mogavero, Bldg. 510A. A special raffle will be held to award prizes to early donors. Get your pledge form in by December 1 to be eligible. Additional information may be found at [www.bnl.gov/bnlweb/unitedway.html](http://www.bnl.gov/bnlweb/unitedway.html).

### BNL COLLECTION FOR HAVEN HOUSE / BRIDGES

### AN EMERGENCY SHELTER FOR THE HOMELESS

Contact Sharon Jones, Ext. 2493 (8801) or  
Tiffany Minter, Ext. 2345 (8134) for:

- A Collection Box for Your Building
- Collection Pick Up
- Comments, questions, etc.

## Radio City Holiday Show

Buy tickets for the Holiday Extravaganza at the famous Radio City Music Hall in New York City. The BERA-sponsored bus trip takes place on Sunday, December 9. 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.