the Bulletin

BROOKHAVEN NATIONAL LABORATORY

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Four Win BNL's Engineering Award

At the BNL Employee Recognition Award Ceremony held on January 26, Michael Bebon, BNL's Deputy Director for Operations, presented the FY2005 Engineering Award of a plaque and $5,000 to four employees, Ove Dyling, Joseph Harder, Alan Raphael, and John Skaritka.

The award recognizes distinguished contributions to BNL's engineering and computing objectives over one or more years. Contributions may be in any engineering or computing disciplines. Nominees are evaluated on the exceptional nature and level of difficulty of the contributions as well as their benefit to the Lab. The winners of the award are featured below.

Roger Stoutenburgh D0970105

Ove Dyling

Ove Dyling is a senior project engineer in the Project Coordination group of the Plant Engineering Division. He has worked as a licensed professional architect for 23 years, and has managed building and infrastructure design and construction activities for numerous major projects at BNL.

Dyling's outstanding achievements have been so successful that he is regularly assigned to manage BNL's most complex and technically demanding infrastructure and research support projects. He is cited for his architectural vision, which has provided a visible and long lasting benefit to BNL. An example of his work is the Science Education Center on Brookhaven Avenue, with its glass lobby and round lecture hall.

(continued on page 2)

Joseph Harder

Joseph Harder, who is a research engineer I in the Instrumentation Division, is cited for his outstanding contributions in the area of electronic circuit design, particularly for development of analog and digital electronic circuits for high precision measurements.

Over a number of years, he has produced specialized circuits that have been recognized as landmark achievements in precision measurement. Among these were a fast time-to-digital converter for synchrotron radiation studies at the National Synchrotron Light Source, a dual-range flash analog-to-digital converter for the PHENIX experiment at the Relativistic Heavy Ion Collider (RHIC), and a gated baseline restorer and anode preamplifier for a 120 degree neutron

(continued on page 2)

Alan Raphael

Alan Raphael, a project engineer in the Engineering and Construction Services Group of the Plant Engineering Division, is recognized for his record of performance on some of the most challenging civil engineering projects at BNL. He has been instrumental in completing numerous projects including the Central Steam System Improvements, Central Chilled Water Facility, Waste Management Facility, numerous environmental restoration projects, and storm water flooding issues at the collider complex.

As an invaluable resource, Raphael is often specifically requested by departments to resolve critical civil engineering issues. He also serves as Chair of the BNL Site Development

(continued on page 2)

John Skaritka

John Skaritka, a project engineer I in the National Synchrotron Light Source (NSLS) Department, was cited for a body of work that contains seminal as well as sustained contributions. His many achievements speak collectively to outstanding breadth, creativity, drive and dedication in support of BNL missions.

Skaritka was the sole mechanical engineer for BNL's Accelerator Test Facility (ATF) for many years, making key contributions to the design of elements of the accelerator and experiments that were essential to the success of those projects. He contributed to the design of ATF Gun III and Gun IV, regarded now as standard in the world and running at many other facilities.

(continued on page 2)

Copper vs. Copper at RHIC

Middleweight matchup to provide control data in exploring new form of matter

Although budget news for 2006 is uncertain, present 2005 operations at BNL's Relativistic Heavy Ion Collider (RHIC) are in great form. In their search for evidence of a new form of matter not seen since the Big Bang, RHIC scientists have begun using a new experimental probe, collisions between two beams of copper ions. The use of these intermediate size nuclei is expected to result in intermediate energy density — not as high as in earlier RHIC runs colliding two beams of gold ions, but more than was produced more recently by colliding a beam of gold ions with much lighter deuterons.

"To completely understand the phenomena we are observing at RHIC, we have to look at what happens over a range of system sizes and collision energies," says Samuel Aronson, Physics Department Chair and an experimenter at RHIC, who will assume the Associate Laboratory Directorship for High Energy & Nuclear Physics on April 1.

RHIC scientists agree that the collisions of two beams of gold ions, called gold-gold collisions, have produced some very intriguing data that indicate the presence of a new form of matter — hotter and denser than anything ever produced in a laboratory. Furthermore, data from the deuteron-gold collisions confirm that the hot, dense matter the scientists are seeing in the gold-gold collisions is made in the collisions; that is, it is not an intrinsic property of the gold ions themselves, because it is not observed in the deuteron-gold collisions.

"The copper experiments will provide another control, or basis for comparison, that will help us understand how the new phenomena we are observing can be turned on and off, and under what conditions," Aronson says.

The copper physics run, which started on January 11, is expected to end on March 23. RHIC will then start polarized proton collisions at 100 billion electron volts of beam energy until June 25.

Meanwhile, RHIC scientists are still analyzing more than a million gigabytes of data gathered since RHIC started collisions in June 2000, much from the most recent gold-gold run conducted in 2004. These data should help scientists describe in more detail the properties of the new form of matter being observed in the gold-gold collisions, and perhaps settle on how best to characterize it. — Karen McNulty Walsh

For more information, go to www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=05-05.

Peter Horton CN9-97-98

Aerial view of the RHIC ring. RHIC is funded primarily by the Office of Nuclear Physics within DOE's Office of Science. Additional RHIC funders are at http://www.bnl.gov/rhic/funding.htm.

New, Nondestructive Soil-Analysis Device Measures Carbon, More, *In Situ*

With funding assistance from DOE's Office of Science and the National Energy Technology Laboratory, Lucian Wielopolski of the Environmental Sciences Department (ES) has developed a device that can measure carbon and other elements in soils non-destructively and *in situ*.

The device is mounted on a cart and is field-deployable. It was created as part of the Lab's ongoing effort in carbon sequestration in the free-air CO_2 enrichment (FACE) facility, and could have national and international implications for both agriculture and the environment. Sudeep Mitra, also of ES, assisted Wielopolski in his research.

Housed on site at the Lab's newly constructed Soil Analysis Facility, Bldg. 487, that opened in December 2004, the instrument employs different methods of neutron activation to determine how much carbon is sequestered in soils. Over the past year, it has been undergoing modifications and field tests on site and at the FACE facility in North Carolina. Plans call for it to be used jointly by scientists from the U.S. Department of Agriculture and DOE facilities in Alabama and from the University of Tennessee.

"In the past, soil carbon measurement was done by taking samples from small cores or large excavations back to the lab," Wielopolski said. "Now, with this device, we can sample a large volume at the site so that normal lateral fluctuations are smoothed out."

Unlike other soil carbon measurement technologies, which are destructive, Wielopolski's device allows for multi-elemental soil analysis. It can also be used in a scanning mode, allowing scientists to obtain average values of a large area.

The device may be of particular interest to farmers worldwide, who have been switching in increasing numbers from conventional agriculture methods that turn the soil to what is called "no-till" farming. Since carbon generally improves soil fertility, it will allow farmers to determine when soil conditions are ideal.

There is another reason the farmers may want to keep track of how much carbon is present in their soils.

"Photosynthesis sequesters carbon in the root systems of plants and finally in the soil," Wielopolski said. "Switching from till to no-till agriculture increases carbon sequestration and farmers will want to be able to verify the amount of carbon stored. Since carbon sequestration removes carbon from the atmosphere, thus mitigating the global warming, this will allow the farmers to receive carbon credits."

Pursuant to the Kyoto Treaty on reducing greenhouse gas emissions, "carbon credits" will be available to farmers whose soil contains large amounts of sequestered carbon. Polluting industries are allowed fixed amounts of carbon dioxide emissions, after which they will have to buy carbon credits, now being actively traded on stock exchanges from Europe to Chicago.

The technology is also the subject of a CRADA with the XIA Company of California. In the future, Wielopolski and Mitra look forward to using tagged neutron beams by applying the associated particle neutron time-of-flight technique that could provide vertical profiles as well as the current total carbon in a volume of soil.

"It would be a quantum technological jump," Mitra said. "I have used this technique to measure carbon in live sheep."

— Kay Cordtz

Roger Stoutenburgh D0180205

Lucian Wielopoloski (right) and Sudeep Mitra are seen in BNL's new Soil Analysis Facility with the new device that measures carbon and other elements in-situ and nondestructively.

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 Recreation Bldg. and at the laundry, both located in the apartment area.*
- *Contact names are provided for most events for more information.*
- *Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.*

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes
Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule. html for schedule. Jen Lynch, Ext. 4894.

Mondays: BNL Gospel Choir
5:15-7 p.m. Berkner Hall. All faiths are welcome. www.bnl.gov/bera/activities/choir/.

Mondays & Wednesdays: Pilates
Mon., Noon-1 p.m. in the Rec. Hall; Wed., 5:30-6:30 p.m. in the Rec. Hall. Christine Carter, Ext. 5090.

Mondays & Wednesdays: Yoga
Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Mon., Tues., & Thurs.: Kickboxing
$5 per class. Mon., noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., noon-1 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. North Room. Registration is required. Christine Carter, Ext. 5090.

Mon., Wed., & Fri.: Tai Chi
Noon-1 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Tuesdays: Welcome Coffee
10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Cindy Ottemann, 849-2646.

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

Tuesdays: Jiu Jitsu Club
6:30-7:30 p.m. in the gym. All levels, ages 6 and above. $10 per class. Tom, Ext. 4556.

Tuesdays: Toastmasters
1st and 3rd Tuesday of each month , 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmstrs/default.htm.

Tuesdays & Thursdays: Aerobics
5:15-6:30 p.m., $5 per class or $40 for ten classes. Rec. Hall. Pat Flood, Ext 7886.

Tuesdays & Thursdays: Aqua Aerobics
5:15-6:15 p.m. Eight-week session. $20 to attend once a week; $40 to attend twice a week. Ext. 2873 for more information.

Tuesdays & Thursdays: Jazzercise
Noon-1 p.m., Rec. Hall. Preregistration is required. Christine Carter, Ext. 5090.

Tues., Thurs., Fri.: Upton Nursery School
8:30-11:30 a.m. Rec. Hall. Two- and three-day program avail. 727-8082 or Ext. 5090, for information.

Tues., Wed. & Thurs: Rec Hall Activities
5:30-9:30 p.m. General activities, large-screen TV, ping pong, chess, games, and socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group
10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Kati Petreczky, 821-4131.

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

Wednesdays: Open Chess Night
5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

Wednesdays: Dance Lessons
5:15-8 p.m. Brookhaven Cntr., North Room. BNL Ballroom Dance Club hosts lessons, beginner to adv. John Millener, Ext. 3853.

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

***Thursdays: FreshDirect Delivery**
3:30-5:30 p.m., Berkner Hall parking lot.

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

Fridays: BNL Social & Cultural Club
6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

— NEXT WEEK —

Monday, 2/21

Presidents' Day. Lab Closed.
The Lab will be closed in honor of Presidents' Day. No Bulletin will be published on Friday, February 25.

Wednesday, 2/23

BWEN/BWIS Brown Bag Lunch
Noon-1 p.m. Berkner Hall, Room D. Join Brookhaven Women Engineers Network (BWEN) and Brookhaven Women in Science (BWIS) for a brown bag lunch during an open-discussion networking session. Coffee & cookies offered by BWIS.

***BSA Noon Recital**
Noon, Berkner Hall. Na-Young Baek and Yukiko Sekino, cello & piano. All are welcome at this free recital, sponsored by BSA and open to the public.

Weather of 2004 — Third Driest Year on Record at BNL

Long Islanders scarcely used umbrellas in 2004, the third driest year on record at BNL. With 35.86 inches of precipitation, 2004 contrasted sharply with 2003, the third wettest year on record, with 63.11 inches of precipitation. The normal yearly precipitation in the area is 48.49 inches.

BNL has been recording weather statistics since 1947. Lab meteorologist Victor Cassella, Department of Environmental Sciences, characterized the weather of 2004 as consistently within the normal range. "We had no droughts, no blizzards, and no hurricanes on Long Island last year. Snowfall was above average, but we had few extremes in temperature. We never reached 90 degrees, and we had no record low temperatures."

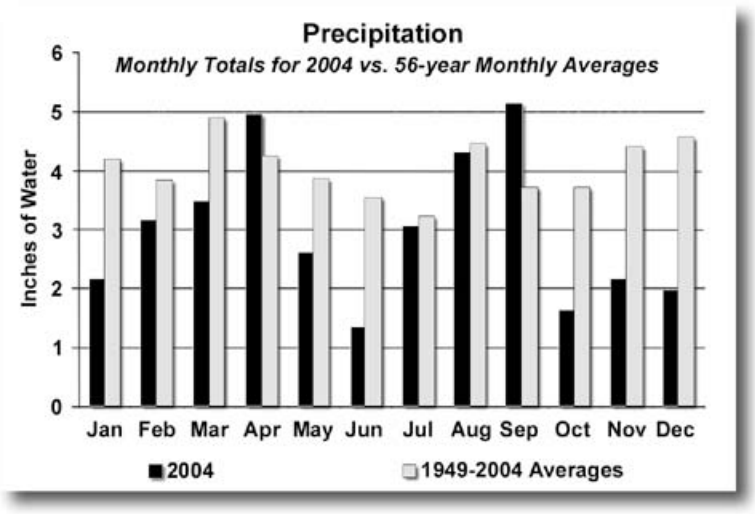
On June 9, the thermometer hit 89.5 degrees Fahrenheit (°F), the highest temperature of the year, but not a record for that date. On May 12, the record high reading was 86.5°F, beating the 1991 record of 85°F for that date. On Halloween, trick-or-treaters enjoyed unseasonably warm weather with a high of 73°F, which tied the record for that date set in 1950.

Twenty-three tropical storms and hurricanes developed in the Atlantic Ocean in 2004, of which five hit Florida. Long Island was spared the brunt of these storms, although the area did get tropical effects — wind and rain — from some of the storms.

Total snowfall in the October 2003 to April 2004 snow season was 60.2 inches, well above the average snowfall of 30.4 inches for the winter season at BNL. The 2002-2003 winter season brought 62 inches of snow, making the last two winter seasons the only two consecutive years in which the Lab had more than 60 inches of snow.

Cassella correctly predicted last year that we would have "one of our most snowy seasons" during the winter of 2004. For 2005, he predicts normal to slightly above normal snowfall, with a pattern of extremes in temperature during the year.

— Diane Greenberg



On-Site Clinical Laboratory Services

At the Occupational Medicine Clinic (OMC) on site in building 490, employees may have blood and urine collected for tests ordered by their personal physician. Quest Diagnostics will bill the insurance carrier for services rendered. The carrier should not bill the employee for a co-pay for these tests.

Two requirements are:

- The employee must produce his or her health insurance card to OMC at the time of the test or it will not be done.
- The employee must also bring a signed prescription from his or her doctor identifying the test(s) ordered and the doctor's name, address and telephone number. Results are returned to the doctor, not to OMC.

If you have any questions, call OMC, Ext. 3670.

Presentation of Engineering Awards *(cont'd.)*

Ove Dyling *(cont'd.)*

Major building additions designed by Dyling have helped the expansion of the National Synchrotron Light Source, known as one of the most frequently used research facilities in the DOE complex. Currently, he serves as design manager for one of BNL's most important projects, the Center for Functional Nanomaterials. Dyling coordinated all engineering efforts from conceptual design through detailed design and will see the facility through construction and start-up.

Joseph Harder *(cont'd.)*

detector now at Los Alamos National Laboratory.

In each case, Harder's elegant approach resulted in a circuit with a level of performance previously unknown in the field. His circuits have become "workhorse" components in several prominent projects and are known for extreme stability and reliability as well as unmatched accuracy, reflecting his thoroughness and attention to detail. Harder continues to develop circuits which will play a crucial role in new detectors being developed for research at RHIC and elsewhere.

Alan Raphael *(cont'd.)*

Committee, which makes full use of his knowledge, sound judgment, and expertise in deciding appropriate use and development of the BNL site. His many accomplishments have included three landfill caps, a railroad extension, several soil and tank removal projects, and two groundwater treatment systems.

Raphael has been challenged countless times with civil engineering problems on high value, high visibility projects. In each case, he demonstrated expertise and sound judgment in finding creative, cost-effective, and lasting solutions.

John Skaritka *(cont'd.)*

He was also the mechanical engineer in charge of coordinating all mechanical design, fabrication, and installation activities at the Source Development Laboratory, resulting in a state-of-the art facility that produced both a self-amplified spontaneous emission free electron laser and a high gain harmonic generation free electron laser.

Skaritka is also known for his considerable talent in supporting the NSLS User Science programs, recently, for example, in the construction of a unique instrument pivotal in research on three-dimensional strain mapping to study crack propagation and fatigue failure in alloys.

ANS Meeting, 2/23

At the next meeting of the Long Island Chapter of the American Nuclear Society (LIANS), the speaker, James Tarpinian, BNL's Assistant Laboratory Director for Environment, Safety, Health & Quality, will talk on "Three Mile Island Cleanup — A Health Physicist's Adventure." The meeting will be held on Wednesday, February 23, at the Brick House Brewery and Restaurant, 67 West Main Street, Patchogue. Appetizers will be served at 6 p.m., and dinner at 7 p.m. Tarpinian's talk will begin at 8 p.m.

The cost is $20 per person. Make reservations by Tuesday, February 22, by calling Arnie Aronson, Ext. 2336, and leaving a voice message.

Medical Screening for Former BNL Workers

As announced by DOE in a press release on February 9, former BNL employees and contractors who think they may have been affected by asbestos, radiation, or other substances while working at the Lab, can now be screened free of charge. Call DOE's Former Workers' Medical Screening Hot Line, 1-888-580-1746, for more information.

Updating Personnel Records — On the Web

The Employee Self-Service feature of the PeopleSoft Human Resources (PPS-HR) system enables BNL employees to view and update portions of their own personnel records. You will be able to review your benefits and paycheck, register as a facility user, change your W-4, review medical and dental plan information, update licenses and education information — all at your desk.

If you have not yet used this feature, spend a few minutes to review your records: It is important that records be up-to-date and accurate. Especially, review emergency contact information, which employees often forget to update, to their own disadvantage in an emergency such as suddenly becoming ill at work.

The link to the PPS-HR Employee feature is located on the BNL Homepage under Frequently Searched For - PeopleSoft HR, or https://hr88-prod-web1.b459.bnl.gov/psp/H8prod/?cmd=login.

Note: for those who are unaccustomed to computers: Open your browser, which is your connection to the internet, for example, Netscape, Internet Explorer, Safari, etc. Write the link in the Search section (usually right up at the top) and click "go." When you get through to the link, click on "Request/Forgot My Password." Insert your life number for the User ID, then follow instructions. A unique password will be mailed to your Lab e-mail address. Close the browser so that it will reset itself when you next use it. When your password arrives, open the browser again, go to the link, and use the password and your life number to log on to your PPS-HR account. Then, change any information that is incorrect.

PeopleSoft works with most browsers. If you should encounter any difficulty in accessing or processing changes, contact the ITD Help Desk, Ext 5522.

Service Anniversaries

The following employees celebrated BNL service anniversaries during November 2004.

35 Years
Morris Strongson ..... ITD

30 Years
Carol Ogeka ..... S&HS
Richard Spitz ..... C-AD
Joseph Buscemi ..... Plant Eng.
Hubbard Harris, Jr. ..... Plant Eng.

25 Years
Gregory Mack ..... BBSD
William Medeiros ..... ERD
Roger Davis ..... C-A
David Warburton ..... C-A
Craig Woody ..... Physics
Diana Votruba ..... Magnet
Sandra Asselta ..... C-A
Ellen Fredrickson ..... Budget
Peter Kohut ..... ES&T
John Lara ..... Biology

20 Years
Kerry Bonti ..... Medical
Robert Chanda ..... Ctrl. Shops
Louis Pergola ..... Ctrl. Shops
Edward Carley ..... Ctrl. Shops
Emanuel Garber ..... Physics
Dhruba Ghimiray ..... PPM

10 Years
Robert Ernst ..... Physics
Carrie Sauter ..... EENS
Edward Diaz ..... Plant Eng.
Tammy Heinz ..... Physics
Michael Wooley ..... Plant Eng.

The following employees celebrated BNL service anniversaries during December 2004.

40 Years
F. William Studier ..... Biology
Wesley E. Buxton ..... C-A
Peter Thieberger ..... C-A

35 Years
Marshall Newton ..... Chemistry

25 Years
Michael Tannenbaum ..... Physics
Judy Badal ..... ERD
Albert Queirolo ..... NNS
Raymond Ceruti ..... Magnet
Susan Walch ..... NS&T

20 Years
Carl Costantino ..... NS&T
Charles Miller ..... NS&T
Lawrence Hoff ..... C-A
Michael Jacobellis ..... C-A
Swapna Mukherji ..... Plant Eng.
Steven Gill ..... Internal Audit
Richard Hahn ..... Chemistry
Lenore Dudzick ..... Env. Sci.

10 Years
Michael Blewitt ..... Biology
Terence Healy ..... ITD

Arrivals & Departures

Departures
Masashi Kaneta ..... Physics

BNL's Internal Communications — E-Mail Workshops Expand the Lines

In a continuing effort to provide all employees with the skills needed to take advantage of e-mail and web technology, the Media & Communications Office in the Community, Education, Government and Public Affairs Directorate (CEGPA) partnered with the Information Technology Division (ITD) to establish e-mail accounts and conduct training sessions for employees who do not use those technologies as part of their standard work activities.

So far, 36 employees from the Plant Engineering Division's custodial staff and the Central Fabrication Services Division (CFS) have received e-mail addresses as well as web and e-mail training.

Says Christopher Manning, a CFS employee who recently received e-mail training, "My coworkers and I enjoy being able to read the Monday Memo and other BNL news and announcements on the Web. This is an important step in improving employee communications because it makes us feel more connected."

Adds Laurie Pearl of ITD, "This has been an integrated effort and good experience for everyone involved — the employees are excited about gaining e-mail access and they appreciate the time we have taken to make this happen."

The training sessions will continue until all employees who have expressed interest have been trained. — Jane Koropsak

Roger Stoutenburgh D0050205

With Jane Koropsak (front, center) of the Community, Education, Government & Public Affairs Directorate and Laurie Pearl (right) of the Information Technology Division are some of the welders and employees from Central Fabrication Services, taking a break from their usual work duties to attend BNL's one-hour e-mail training session: (from left) John Wilson, Elizabeth Deazley, Thomas Imperial, Gary Steul, Walter Ducoing, Mark Cohen, and Rich Savoy.

Lunchtime Tour Today: Weather or Not? 2/18

Today, Friday, February 18, the Employee Lunchtime Tour will visit the National Weather Service, located on site. All are invited to meet at noon in the upper lobby of Berkner Hall. Lab buses will transport you to the tour, returning to Berkner by 1 p.m. The group will see various instruments and discuss the way the weather is forecast using the Doppler Radar. No reservations are needed. For more information, call Elaine Lowenstein, Ext. 2400.

BSA Noon Recital, 2/23

Na-Young Baek and Yukiko Sekino

At the BSA Noon Recital on Wednesday, February 23, cellist Na-Young Baek and pianist Yukiko Sekino will perform in Berkner Hall. Both in Stony Brook University's graduate program, Baek and Sekino are each prize-winners as soloists before they joined in their present partnership.

All are welcome to this free recital, sponsored by BSA and open to the public. Visitors of age 16 and over must carry a photo ID.

One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Wednesday, February 23, Tuesday, March 8; Wednesday, March 9; Tuesday, March 22; and Tuesday, March 29, to answer employees' questions about your financial matters.

He will help you:

- Understand the importance of protecting your assets against inflation
- Find the right allocation mix for you
- Learn about TIAA-CREF retirement income flexibility
- Compare lifetime income vs. cash withdrawal options.

For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625. (Note: not the on-site Ext. 4625.)

Travel & Exercise Talk, 2/25

Join Jennifer Gatz, exercise physiologist, on Friday, February 25, noon-1 p.m. in Berkner Hall, Room B, where she will present the Health Promotion Program-sponsored talk, "Travel and Exercise." The talk will include descriptions and demonstrations of different types of exercises, as well as simple stretches that can be done while seated on a plane or in the office. Check your mailbox for registration forms for this talk. For more information, contact Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

Main Gate Traffic Flow Changes

As part of an on-going effort to improve traffic safety at the Main Gate, a permanent change to outbound vehicle speed and traffic flow (merging) will be implemented in February. The intent of these changes is to reduce the chance of injury to Safeguards and Security personnel, who must currently cross two lanes of westbound traffic to inspect outbound vehicles.

Permanent changes will be made to the posted outbound vehicle speed from the curve coming off of Upton Road (southbound) and entering onto Princeton Avenue (westbound), along with a permanent change to the outbound traffic flow pattern. Vehicle speed will initially be reduced from 35 miles per hour (mph) to 20 mph. As vehicles approach the security booth the speed will be further reduced to 15 mph. After exiting the booth and vehicle inspection area, the posted speed limit will rise to 35 mph. Along with the changes to the posted vehicle speed, traffic safety cones and signs will be placed that direct drivers to merge into the left lane as they approach the booth.

Some of these changes have already been implemented. However, over the next few weeks, employees will see permanent signage installed. New lane markers (pavement striping) will be installed when weather permits.

Attn.: All On-Site Drivers Blue Stickers *Required* by March 1

All BNL employees must have a new, blue vehicle sticker displayed in their vehicle no later than March 1. Stickers are issued in Bldg. 30, the Brookhaven Center, Mondays and Wednesdays, from 8:30 a.m. to 5 p.m., and Tuesdays, Thursdays, and Fridays from 8:30 a.m. to 1 p.m. To obtain a sticker, employees must show their BNL ID badge, driver's license, and vehicle registration.

On-Site Service Station

Has your vehicle's timing belt been renewed? The on-site station, Upton Industries, Inc., will be glad to install a new one if needed. The station also offers battery checks, NYS vehicle inspections, oil changes, and all mechanical repairs, done while you are at work. Call Ext. 4034.

Benefits Office Reminder

Student Status Proof

All medical/dental plan participants are reminded to submit an updated proof of student status to the Benefits Office, Bldg. 185, for the upcoming college semester. The Benefits Office will submit this to the insurance company on your behalf. To be eligible for benefits, children over age 19 must be unmarried, a full-time student, primarily supported by you, and attending an accredited college or university. For more information, call the Benefits Office, Ext. 2877 or 5126.

Cradle of Aviation BERA Bus Trip, 3/5

All are invited on a bus trip to the Cradle of Aviation Museum and IMAX movie theater in Garden City on Saturday, March 5. The bus departs the Brookhaven Center parking lot at 9 a.m. and returns from Garden City at 5 p.m. Buy tickets at the BERA Store in Berkner Hall, at $15 for adults, $13 for children (ages 2 to 14) and seniors. Included is bus fare, museum fee, Mars Virtual Voyage ride, and an IMAX big-screen movie. For more information, see www.cradleofaviation.org.

Bus Trip to NYC, 3/12

The Hospitality Committee invites all on a bus trip to Manhattan on Saturday, March 12, leaving the Recreation Hall in the apartment area at 9:30 a.m. and leaving the city at 5 p.m. The cost for adults is $10, children 2-12, $5; payment, in cash only, must be in advance. To arrange payment, contact Hanna Herman at haniaherman@yahoo.com or 849-2249.

Calendar

(continued)

Thursday, 2/24

***Foot Screening by Appointment**

9-11:50 a.m. Occ. Medicine Clinic, Bldg. 490. Also on March 4. Podiatrists Ben Dimichino and Brian Fanno. Schedule appointments with Michael Thorn, Ext. 8612 or mthorn@bnl. gov.

Friday, 2/25

***Travel & Exercise Talk**

Noon-1 p.m., Berkner Hall, Room B. See notice below, left. Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

***Tsunami Relief Potluck Dinner Dance**

6:30 p.m. midnight, Brookhaven Center North and South rooms. Bring food to share with six people, and come and sing Karaoke and dance, etc. sponsored by many BERA clubs and BNL groups. See notice on page 4. Tickets, $25, at the BERA Store. All proceeds will be donated to tsunami victims relief funds.

Saturday, 2/26

***Tsunami Benefit Concert**

7 p.m., Berkner Hall. sponsored by the BNL Music Club, the concert will feature many local musicians, including some from BNL . See notice on page 4. All proceeds will be given to the American Red Cross.

Sunday, 2/27

Spa Treatment at Gurney's Inn

Christine Carter, Ext. 5090, ccarter@bnl.gov.

— WEEK OF 2/28 —

Monday, 2/28

IBEW Meeting

6 p.m., Knights of Columbus Hall, 41 Horseblock Rd., Centereach. 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.

Thursday, 3/4

***Foot Screening by Appointment.**

9-11:50 a.m. See entry, February 24.

Saturday, 3/5

Bus Trip to Cradle of Aviation Museum

9 a.m.-5 p.m. $15/adult, $13/seniors and children. BERA coach to museum in Garden City. See notice, below, left.

Gathering of the Slides Blues Concert

8 p.m., Berkner Hall. Featuring the Kerry Kearney Band, Little Toby Walker, and the Kane Daily Band. See notice, page 4. Tickets at $10 each are at the BERA Sales Office in Berkner.

— WEEK OF 3/7 —

Wednesday, 3/9

BSA Noon Recital. 'Simply Gershwin'

Noon, Berkner Hall. Pianist Paul Bisaccia and tenor John Whitley perform music of George Gershwin. This free recital was previously scheduled in January, but postponed due to illness. All are welcome. Visitors to the Lab age 16 and over must carry photo ID.

Saturday, 3/12

***Hospitality Bus Trip to Manhattan**

9:30 a.m. The Hospitality Committee invites all on bus trip to Manhattan. Luxury bus leaves from the Rec. Hall in the apartment area at 9:30 a.m. and leaving the city at 5 p.m. Adults, $10; children 2-12, $5; cash payment in advance only. To reserve and arrange payment, contact Hanna Herman at haniaherman@yahoo.com, or 849-2249.

— WEEK OF 3/14 —

Wednesday, 3/16

402nd Brookhaven Lecture

4 p.m., Berkner Hall. Ben Burr of the Biolog Department will talk on "Genetic Engineering: What's the Fuss?" All are welcome to this free lecture, open to the public.

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.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK4057. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in chemical engineering, materials science or chemistry and experience in handling air-sensitive materials, Schlenk techniques and spectroscopic characterization. Prior experience in working with pressure vessels, kinetic data collection and analysis is a plus. The project involves design and synthesis of water-soluble transition metal complexes for evaluation as hydrogenation catalysts. The goal is ultimately to couple the catalytic cycle to biological hydrogen production systems. Under the direction of D. Mahajan, Energy Sciences & Technology Department.

TB3410. RESEARCH ENGINEER II (P-7, term appointment) - Requires a master's degree in a related field and 5 years' experience that includes at least two years' experience with the MARKAL-MACRO codes. Knowledge and experience of water issues as they relate to energy supply and demand is desired. Will manage and deliver expertise in support of the Department of Energy and other Federal and State agencies' energy/environment/economic modeling activities. Will be expected to work closely with customers and develop solutions to customer needs, assist in formulating revisions and new features for the MARKAL-MACRO model, prepare briefings and make presentations as requested, and contribute to technical papers for journals and conferences. Energy Science & Technology Department.

Motor Vehicles & Supplies

04 FORD F-150 - Payload pkg., hkd. up for campg. + 2001 26 ft. S/brook Travel Trailer, all opts. 3,900 mi. $33,500/neg. Ext. 3476.

02 CHEVY CAMERO - 35 Aniv. ed., a/c, a/t, 8 cyl., 325 h.p., abs, 2dr. hbk., cass/cd, a/bags, coupé, 29K mi. $19,500/neg. 462-4416.

99 MERCEDES-BENZ E320 - lthr. int., awd, pwr. m/roof; Bose am/fm, cass/cd, garaged, 73K mi. $21,500. Ext. 5896 or 744-0960.

99 MERCEDES C280 - black/tan lthr., m/roof, traction control, Bose 6CD sound, garaged, excel., 36K mi. $14,500. Peter, Ext. 2913.

95 FORD THUNDERBIRD LX - ABS, a/t, p/l, p/p, tinted sun roof, Michelin tires. Excel. cond. 90K mi. $3,000/neg. Esther, 399-4509.

95 ACURA INTEGRA GS-R - black lthr., 5spd., catback, AEM intake, 6 disk Rockford sub, more, 165K mi. $5,500/neg. 804-8018.

94 BUICK PARK AVENUE - 6-cyl. all opts. leather int., m/roof, excel. cond. 65K mi. $6,000/neg. Joseph, Ext. 7316 or 929-0668.

94 LINCOLN - Town Car, lthr. int., loaded, am/fm/cass, 10-disc CD, 12 spkrs., phone, s/roof. $4,500/neg. 729-3399 or 516-446-1670.

92 LINCOLN - Town Car, Pres. Ed., $1,850/neg.; 88 Chev. S-10, 5-spd. new exh., bdlnr., more, $750 neg. Don, Ext. 5329 or 878-2215.

Furnishings & Appliances

BED - mattress, boxspring, & frame w/wheels, full size, excel. cond. $100. Raman, Ext. 7402 or 924-1605.

COMPUTER DESK & CHAIR - wood-grain desk w/stor. & chair, $30; metal shelving, $35; pics avail. Donna, Ext. 2826 or 475-3478.

FREEZER - Woods 11.2 cu. ft. upright freezer. White, working 100%, excellent condition. Best offer. Sal, Ext. 3749.

FURNITURE - 2 coffee tbls., leather sectional, dining room tbl. w/6 chairs, dresser w/mirror, $400 for all, neg. 821-3416.

Audio, Video & Computers

COLOR TV - 27" RCA color w/remote & stand. $100/all. Sydell, Ext. 3389 or 727-6385.

COMPUTER REPAIR - Certified & experienced technician. Hardware repair & upgrades. Spyware/virus removal. Dan, 928-8389.

MACPLUS - $15. Dejan, Ext. 3078.

TAPE RECORDER - reel-to-reel, Ampex Fine Line F-44, c.1960s, stereo, all tube, manual, works well, $50. Peter, Ext. 2913.

Sports, Hobbies & Pets

ANIMAL CAGE - lg. dog cage, black, used for golden retriever $50. Warren, Ext. 2080 or 751-5245.

NIKON DI H - digital camera, 2 batteries & charger, flash, strap. Boxes included. Mint cond. $1,200. Joe, Ext. 2384.

TRAILER - 1994 Viking Dlx270 pop-up, rfrg, heat, awng, batt, 2Qbeds, slps 6, new tires/rims, lift sys, dlr. maint., $3,100. 516-510-7859.

Tools, House & Garden

DEHUMIDIFIERS - Three. Old but work well. $75 for all. Will separate. Joseph, Ext. 7316.

Car Pools

BELLPORT/E. PATCHOGUE - new or existing. Bill, Ext. 3859.

Wanted

BASSOON - any condition, but playable preferred. Dan, Ext. 2121.

BUNK BEDS - 473-5551.

CARPENTER'S HELPER - reliable, needed for all home improvement. Own transp. & valid driver's lic. req'd. Brett, 252-1088.

FURNITURE FOR DISABLED HOME - Need items in good cond., for developmentally disabled people. Karen, 878-1178.

GUITAR - acoustic, reasonable. Ext. 2346.

LAPTOPS - will pay cash for used laptops. Will also buy a non-functioning laptops. Dan, Ext. 3928 or 678-8502.

STEREO - amplifier & speakers. Michael, Ext. 4947.

TICKETS - U2 tickets at Madison Square Garden, Sat., 5/21, 8 p.m. Vera, Ext. 5843.

Miscellaneous

DOOR - new pre-hung 6-panel, $40; Fisher stereo and speakers, $20; 2 old straight-back kitchen chairs, $10. Ext. 7459 or 929-1981.

DOZER BLADE - Sears 48", used for garden tractor, ask $125. 689-9214.

GYM EQUIPMENT - Leg press/hack squat machine, mint condition with 600 pounds of Olympic free weight, $700. John, Ext. 7018.

TEXTBOOK - Engineer-in-Training Ref. Manual, 8th Ed., M. Lindeburg. Hard cover. For PE exam. Like new, $40. Ext. 5648.

TYPEWRITER - Xerox Memorywriter w/supplies, $65; pine oval coffee table 48x24, $25; Ab Roller, in box, $12. Barbara, Ext. 2585.

For Rent

CENTER MORICHES - 1 bdrm, full bath, eat in kitchen. Separate apt. 1 mo. sec, + rent. Utililities extra. $750/mo. George, 878-1178.

EAST PATCHOGUE - lg. ground-level studio apt., full kitchen, lg. f/p, off-street parking, nice area. $950/mo. Dayna, 776-1676.

MEDFORD - 2 bdrm. upstairs apt., bath, kit., l/r, priv. ent., no pets, elec., heat & water incl. $950/mo. Marie, 475-2068.

MEDFORD - 3 rm. apt., priv. deck, no smkg./pets, util., cable incl., 1 mo. sec., suitable for 1 person. $850/mo. Ernie, 344-3498.

RIDGE - 1-bdrm. apt., eik, full bath, pvt. ent, cable TV, no smkg/pets, 1 mo. rent & sec. req., avail 3/1, rent incl. all. $1,000/mo. 821-3416.

SHOREHAM - lg. 1-bdrm., full bath, eik, outside ent., util. incl. $1,000/mo. 806-3926.

SHOREHAM - 3-bdrm house, 2 full bath, d/r, l/r, eik, all util. incl. $2,000/mo. Steven, 806-3926.

YAPHANK - new bsmt. apt., avail. 3/15, bdrm., lvg. area, eik, full bath. no pets/smoking, all utils. incl. except phone. $1,200/mo. Matt, 238-5038.

For Sale

MANORVILLE - townhouse, Silver Ponds, 7 yrs. old, 2 bdrm., 1-1/2 baths, att. gar., cent. a/c, swimming pools, club house, gym,. 10 min. to Lab. $329,000 751-9729.

SHOREHAM NORTH - Col., 4 lg. bdrms., 2.5 baths, l/r, d/r; bsmnt; 2-car gar., landscaped; energy effic.; SWRSD; nr. BNL. $399,900. Barbara, Ext. 5896 or 744-0960.

Happenings

ICE SKATING - Join us for adult skating practice & ice dance fundamentals at area rinks. Beginner skaters welcome. 804-9474.

GOSPEL - "An Evening of Gospel," on Saturday, Feb. 26, 8 p.m., Jeanne Rimsky Theater, 232 Main Street, Port Washington, will feature BNL's Frances Ligon as soloist. Tickets, $15, (516) 767-6444 or boxoffice@landmarkonmain street.org.

Sat., 4/9, join bus leaving from APS, other side of W. Floyd Pkwy, to Marshall's Creek Flea Market in PA, other outlets also, 6 a.m.-midnight. Antiques, crafts, furniture, jewelry, clothes, etc., can be put in bus. $40/person. Contact Marie Sauer, sauer@ridge.aps.org by 3/15.

In Appreciation

On behalf of Paul Akins and his family I would like to extend a heartfelt thank you to all who were so generous in Paul's time of need. His family is very appreciative and expresses their deepest gratitude. Thank you all. — John Passaro

To all who have prayed, cried, and shared my burden, my sincerest thanks. My mother was blessed with a quiet, peaceful passing. — Mary van Gemmeren

To all my friends at BNL, thank you for all of your prayers and support at a very difficult time. It is very much appreciated. Our son, Sam Jr., is doing well.
— Patria Cortes and the Cortes family

African Healing Dance Workshop, 2/24

On Thursday, February 24, the African American Culture Club & the Ago Amé will sponsor an African Healing Dance Workshop, from 12:15-1:15 p.m., in the Brookhaven Center North Room. The theme of the workshop will be "Rejuvenation through hope." All are warmly welcome: no dance experience is necessary. For more information, call Sarah Assmagan, 804-9474.

Wanted: BERA Board Nominees

A Nominating Committee has volunteered to accept names of four candidates to run for two BERA Executive Board positions, each open for a four-year term, May 2005 to 2009. During elections in March, BERA members will vote on the four candidates to fill the two BERA Executive Board positions.

If you would like to run for the Board, contact a committee member: Ruth Comas, Ext. 3545; Dave Dale, Ext. 2976; Augie Hoffmann, Ext. 3884; Mike Loftus, Ext. 2960; Renée McNeil, Ext. 8278; Carmen Narvaez, Ext. 3254; Ed Sperry, Ext. 2697; Michael Thorn, Ext. 8612; or Susan Wong, Ext. 7988. On March 7, at an 11 a.m. meeting in Berkner Hall, Room C, those who have contacted committee members will present their biographies to the committee for selection.

'The Gathering of the Slides III,' 3/5

Concert at BNL features the Kerry Kearney Band, Little Toby Walker, and the Kane Daily Band

"The Gathering of the Slides III," a blues concert featuring the Kerry Kearney Band, Little Toby Walker, and the Kane Daily Band, will be held on Saturday, March 5, at 8 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Back for a third year at BNL, the Kerry Kearney Band brings down the house with their unique, high-energy sound, which has headlined in several music festivals, including the Riverhead Blues Festival. Winner of the prestigious 2002 Memphis International Blues Challenge Award, Little Toby Walker is a gifted finger-style guitarist, singer, songwriter and storyteller. The Kane Daily Band brings a mix of blues-oriented classic rock'n'roll and Delta and Chicago-oriented blues to their act.

Tickets cost $10 each, at the door or in advance at the BERA Sales Office on weekdays, from 9 a.m. to 3 p.m.

Tsunami Benefit Concert, 2/26

Local musicians sponsored by the BNL Music Club

Michael Herbert D01 50205

Among the performers at the Tsunami Benefit Concert will be the Chaparrals blues band, (from left) Kenny Byrnes, BNL's Michael Herbert and Joe Carbonaro, Tom Goeller, and Brian Brooks.

A benefit concert for the relief of the tsunami victims in south Asia will be held on Saturday, February 26, at 7 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert will feature a wide variety of local musicians. All concert proceeds will be donated to the American Red Cross. All visitors to the Lab age 16 and over must bring a photo ID.

The performers include Larry Hunter, veteran singer, songwriter and multi-instrumentalist, who is a member of the blues/rock band Great Ceasar's Ghost; a Japanese drumming group, Ryu Shu Taiko, offering an exciting blend of martial arts, folk dance and drumming; teen songwriter and singer Caitlyn Amanda, accompanied on guitar by songwriter-arranger Henry Diaz, a BNL Music Group member; Jim Dexter, a local studio guitarist and recording artist with an eclectic blend of acoustic influences who hosts a weekly radio show on WUSB 90.1 FM; and the Chaparrals (see above), a local blues band featuring two more Lab members: Joe Carbonaro, vocals and harmonica; and Michael Herbert, bass.

Tickets cost $10/adults and $5/children 12 years old or younger and students with a student ID. Buy tickets at the BERA store in Berkner Hall, weekdays, 9 a.m.-3 p.m., or at the performance.

Tsunami Relief Event
Potluck Dinner Dance, 2/25

On Friday, February 25, put on elegant formal attire to honor the occasion, pack some delicious food — enough to share with six people — and attend a "potluck" dinner dance at the Brookhaven Center, 6:30 p.m.-midnight. The event is being sponsored by BERA's Afro-American Club, Asian-Pacific American Association, Ballroom Dance Club, Hispanic Heritage Club, Indo-American Association, and Bodybuilding Club, English for Speakers of Other Languages, and the BNL Hospitality Committee.

The evening will begin in the south room, where the potluck dinner will start at 6:30 p.m., followed by Karaoke, with a "Best Karaoke Singer" award given at 10 p.m. In the north ballroom, a free dance lesson will begin at 7:15 p.m., followed by general dancing at 8 p.m., dance presentations 9-9:30 p.m., and more general dancing to follow. Buy tickets, at $25 each, at the BERA Store, or from sponsoring club organizers. The proceeds will be donated to benefit victims of the tsunami tragedy.

Post-Valentine Dance Tonight, 2/18

Live Music with Louis del Prete and his band 'Fame'

Tonight, Friday, February 18, the BNL Social & Cultural Club and the BNL Ballroom Dance Club will sponsor a dance with live music by Louis del Prete and his band 'Fame' at the Brookhaven Center North Ballroom. Fame, which plays ballroom, Latin, swing, hustle, etc., is led by Louis del Prete, a well-known Long Island dance instructor, who has taught workshops at BNL. He runs popular dance venues such as Mirelle's in Westbury, and regularly hosts Dancers-at-Sea cruises.

Tickets may be bought at the door only. The cost of $12 covers food (long hero), coffee, tea and entertainment. A cash bar will be available at the Center bar.

Daffodil Days

BERA is selling daffodils at $10 a bunch of ten flowers to benefit the American Cancer Society. Pick up your bouquet during the week of March 14. Paid reservations are being taken at the BERA Store in Berkner Hall, Monday-Friday, 9 a.m.-3 p.m.

Defensive Driving, 4/2

The six-hour defensive driving course offered for Saturday, March 12, 9 a.m.-3:30 p.m., in Berkner Hall, Room C, is already filled. Another course is scheduled for Saturday, April 2. The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families, at $30 per person. To register, send a check by March 28 to NYSTA, in care of Don Kelley, P.O. Box 185, Selden, NY 11784. Include your phone number in case you need to be contacted.

the Bulletin

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On the World Wide Web, the Bulletin is located at www.bnl.gov/bnlweb/pubaf/bulletin.html. A Weekly Calendar listing scientific and technical seminars and lectures is found at www.bnl.gov/bnlweb/pubaf/calendar.asp.

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