

Dierker Named Associate Laboratory Director For BNL's New Light Sources Directorate

Steven Dierker, a forefront scientist and administrator in synchrotron light research, has been named Associate Laboratory Director for the new Light Sources Directorate at BNL. Dierker, who has been Chair of the National Synchrotron Light Source (NSLS) Department, will also retain that position.

The NSLS at BNL is one of the world's most widely used scientific facilities. Each year, about 2,500 researchers from more than 400 universities, companies, and government labs use its bright beams of x-rays, ultraviolet light, and infrared light for research in such diverse fields as biology and physics, chemistry and geophysics, medicine and materials science. For example, scientists have used the NSLS to produce images of the AIDS virus as it attacks a human cell, develop a method for breast cancer detection that is more accurate than mammogra-

phy, and create a method to make faster, denser computer chips. The facility has 175 employees and a current annual budget of about \$38 million.

"I am pleased about the continued growth of the NSLS Department," Dierker said. "Since its commissioning in 1982, the NSLS has continually updated and expanded its capabilities to remain at the forefront of science. Now we are proposing a major upgrade — essentially a new light source at Brookhaven."

BNL created the new Light Sources Directorate and promoted Dierker to his present position because of the importance of upgrading NSLS facilities within the next decade.

The project represents the next major step in the Lab's long history of building and operating world-class scientific facilities and is expected to have enormous impact in the life sciences, materials

and chemical sciences, nanoscience, geoscience, environmental science, and other areas. Advanced light source capabilities would also complement the Center for Functional Nanomaterials at Brookhaven, which is due to be built starting in 2005 and to become fully operational by 2008.

After earning B.S. degrees in both physics and electrical engineering in 1977 from Washington University, Dierker earned both an M.S. and Ph.D. in physics from the University of Illinois, Urbana-Champaign, in 1978 and 1983, respectively. In 1983, he joined the Semiconductor and Chemical Physics Research Department at AT&T Bell Laboratories (now Lucent Technologies), and, in 1990, he joined the University of Michigan, where he was Professor of Physics and Applied Physics. He joined BNL in May 2001 to become Chair of the NSLS.

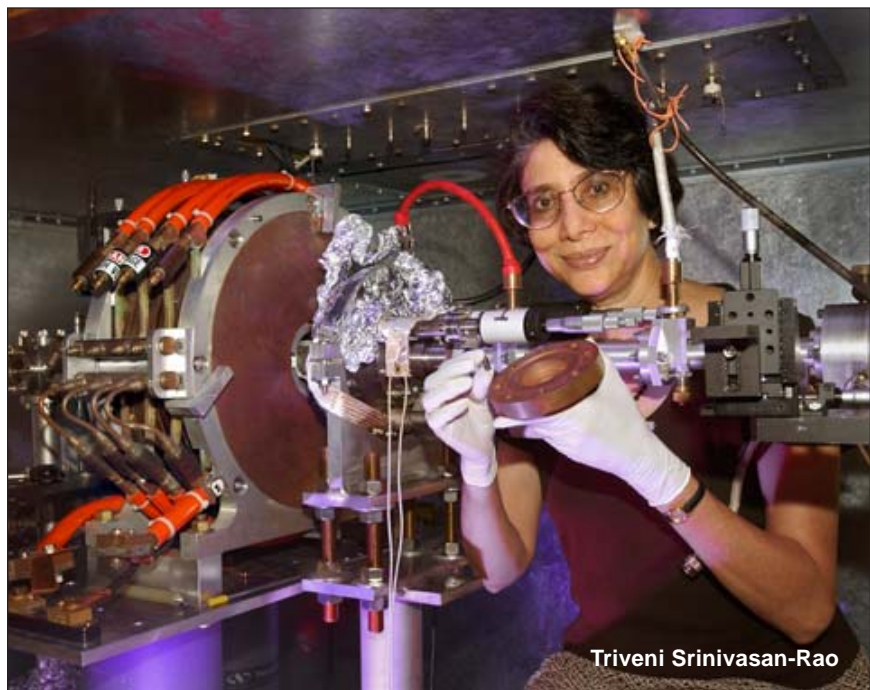
(continued on page 2)



Steven Dierker

Roger Stoutenburgh D0030501

Taking Steps Toward Brighter Beams



Triveni Srinivasan-Rao

Roger Stoutenburgh D1550703

Triveni Srinivasan-Rao of the Instrumentation Division recently received two patents on inventions that may yield higher-quality electron and photon beams for a variety of research and industrial applications. Such beams would be complementary to those available at facilities like the National Synchrotron Light Source (NSLS) at Brookhaven.

The first invention (U.S. Patent No. 6,459,766 B1) is a new type of photon generator, which can be used to produce short, bright vacuum ultraviolet and extreme ultraviolet photon beams on a scale that would be relatively inexpensive and could fit into a small laboratory. It consists of a high-energy electron gun, a laser, focusing optics, and a closed-loop circulating ring. When a beam of electrons from the electron gun enters the circulating ring, it interacts with pulses from the laser. Energy transferred from the electrons to the photons in the laser beam pumps up the energy of the laser photons, producing very bright photon beams at higher energy. If you start with a very high-quality electron beam and a high-quality femtosecond infrared laser, for example, you can get a very high-quality, focused beam of femtosecond x-rays.

"The idea of colliding electrons with lasers to pump up the energy is not new," says Srinivasan-Rao. It has been investi-

gated and used in a number of facilities, including BNL's Laser Electron Gamma Source (LEGS) facility. "But our invention makes this process more efficient by putting the electrons in a circulating ring where they can interact repeatedly with the laser."

In her design, the laser pulse is focused with optics to interact with the electron beam at two points on opposite sides of the circulating ring. As electrons make eight to ten trips around the ring, two pulses of photons are produced on each trip.

Because the entire device can fit into a small room and be built for less than the cost of a single beam line at a large synchrotron like the NSLS, industrial users should be very interested in the technology, Srinivasan-Rao says. They would have access to the device 24 hours a day, seven days a week, and could also tailor-make it to produce the wavelengths needed for materials characterization studies or manufacturing processes such as lithography and micro machining. Such a small-scale device would allow them to test their ideas before they commit to using a beam line at a larger synchrotron facility, Srinivasan-Rao says.

The second invention (U.S. Patent No. 6,524,170 B2) is a method for preparing

(continued on page 2)

New Boron Compounds For Experimental Cancer Therapy

BNL's Michiko Miura, Medical Department, and Daniel Slatkin, retired from the Medical Department, have received U.S. Patent No. 6,566,517 for new chemical compounds they've developed that might be of use in the treatment of certain cancers of the brain, head, and neck.

Like previous compounds developed at Brookhaven for an experimental treatment known as boron neutron capture therapy (BNCT), the new compounds contain the element boron and become concentrated in tumor cells. When exposed to a beam of slow neutrons, the boron-10 atoms "capture" the neutrons, creating secondary particles that kill cells in the immediate vicinity. Because the concentration of boron in normal tissue is lower, normal cells suffer much less damage.

The new compounds have another benefit: They contain atoms of copper and bromine,

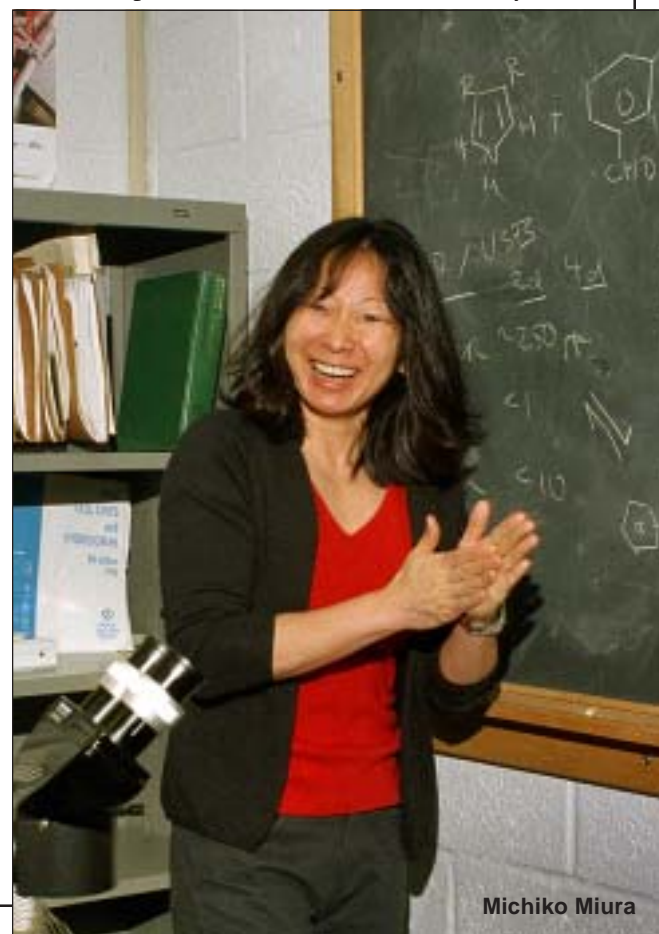
which have isotopes that can be imaged by positron emission tomography (PET) and single photon emission computed tomography (SPECT). Imaging studies will allow scientists to measure the amount of these "tracer" atoms — and therefore the amount of boron compound — in tumor and normal tissues. That information will help them fine-tune the treatment to achieve the optimum radiation dose to the tumor while sparing healthy normal cells.

While BNCT is still in the experimental phase, if it proves to be effective it could offer several benefits over conventional radia-

tion therapy, not the least of which is that it would be administered in a single treatment, as compared to the course of 30 sessions often needed with conventional radiation therapy. Scientists are currently testing the effectiveness of clinical BNCT in the U.S. (Massachusetts Institute of Technology), Sweden, Finland, the Netherlands, and Japan, and will be soon in the United Kingdom.

The compounds were developed with funding from DOE, Office of Science, Division of Biological and Environmental Research, and are licensed for commercialization by Psime Pharmaceuticals, Ltd. of Middlesex, United Kingdom. They might also be useful in another type of cancer therapy, known as photodynamic therapy, in which lasers and photosensitizers destroy tumor cells.

— Karen McNulty Walsh



Michiko Miura

Roger Stoutenburgh CN7-1-01

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. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, 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.

Mon., Tues., & Thurs.: 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. Christine Carter, Ext. 2873.

Mon., Thurs., & Fri.: Tai Chi

Noon- 12:45 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Mondays: BNL Dance Club Ballroom, Latin & Swing Practice

5:30-7 p.m. North Ballroom, Brookhaven Center, except Lab holidays. Jean Logan, jlogan@bnl.gov or Ext. 4391.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Hall. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Monique de la Beij, 399-7656.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Singles Club

5:15 p.m., Brookhaven Center. Contact: Jean, Ext. 4391.

Tuesdays: BNL Dance Club Individual & Couples instruction

5-11 p.m. North Ballroom, Brookhaven Center. Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553.

Tuesdays: Toastmasters

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

Tuesdays & Thursdays: Aerobics

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

Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. Christine Carter, Ext. 2873.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Svetlana Agafonova, 205-5065.

Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga Practice

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206.

Wednesdays: Open Chess Night

5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

Wednesdays: Exercise 101

5:15-6 p.m., Rec. Hall. \$4 per class or \$35 for 10 classes. Stretching, low-impact aerobics, and other exercises. Pat Flood, Ext. 7886.

Wednesdays: Dance Club Group Lessons

6-9 p.m. North Ballroom, Brookhaven Center. Series 4 lessons start 4/9. Marsha Belford, belford@bnl.gov or Ext. 5053.

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.

Fridays: Jiu Jitsu Club

6-7 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

— THIS WEEKEND —

Friday, 7/25

*Blues Concert, Sam Taylor, Wolfe

8 p.m. Berkner Hall. See notice, page 4.

Sunday, 7/27

*Summer Sunday Tour

10 a.m.-3 p.m. This Sunday is "Family Fun Day." for more information, see notice on page 4 or visit www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— NEXT WEEK —

Monday, 7/28

*EAP Outreach Program

Noon, Berkner Hall, Room B. Join bereavement social worker Joanne Archer as she presents the Employee Assistance Program "Understanding and Navigating the Path of Grief." See notice, page 2. For more information, contact Linda DiPierro, Ext. 2733.

Battelle, BWIS Award Four Female High School Students

In what has become an annual ceremony at BNL, four female high school students who excel in science or mathematics were each given a \$1,000 award to encourage them to pursue careers in those fields. The award was established in 1999 by Battelle, the Ohio-based corporation that partners with Stony Brook University to manage the Lab through Brookhaven Science Associates, and by Brookhaven Women in Science (BWIS), a not-for-profit group at BNL whose aim is to promote the advancement of women.

This year, students from four school districts surrounding the Laboratory were chosen by their schools to receive the award. They are: Alison Castaneda, Longwood High School (front, third from right); Margaret Mars, Riverhead High School (front, fourth from right); Amy Morgenstern, Shoreham-Wading River High School (back, right); and Amelia Poquette, William Floyd High School (back, left). With the students are BNL Director Praveen Chaudhari (right) and (from left) BWIS board members Loralie Smart, Pam Mansfield, Patricia Williams, and Vinita Ghosh.

— Diane Greenberg



Roger Stouenburgh 03A40503

Battelle Gives \$5,000 to William Floyd Students As Contribution Toward Robot Built With BNL Assistance



Joseph Rubino 03A00403

Some of the approximately 50 students from William Floyd High School who participated in the FIRST (For Inspiration and Recognition of Science & Technology) Robotics Competition accompany Battelle representative Gregory Fess (third from left, front row) as he presents a check to the school district to help sponsor its participation in the contest. In addition, 20 engineering and fabrication staff members from the Lab helped the team build their robot for the contest.

The FIRST competition provides high school students with hands-on experience in solving a prescribed engineering problem in a competitive game environment. In 2003, more than 20,000 students representing over 800 teams took part

in FIRST competitions. The William Floyd team came in fifth in the LI regional contest, competing among 34 schools. The team also won the Daimler Chrysler Award for showing the best team spirit.

In the photo, the students are accompanied by their William Floyd School District advisors Mike Whelan (far left, front), Chris Ryon (far right, front), and Karen Poidomani (left, second row); and mentors from BNL's Central Shops: Elizabeth Deazley (right, second row), Joe Mond (second from left, back), Chris Manning, (second from right, back), Stan Doskoez (far right, back), and Fred Walhert (far left, back).

— Diane Greenberg

Steps Towards Brighter Beams

(cont'd.)



niobium, a superconducting material, to increase its photoelectric yield. This niobium might be used in a superconducting radio-frequency (rf) injector to produce electron beams with much higher average current than available at present, a property that is highly sought after by scientists trying to develop Free Electron Lasers.

Making a high average current rf injector is a challenge because as the beam current increases, the rf power needed to accelerate the electron beam also increases. Since normal conducting materials are resistant to the flow of electricity, part of this power is lost to heating the material. More rf power means more loss, more heat, higher temperatures, and a complicated design. So scientists are interested in making rf injectors out of superconducting materials like niobium, which have extremely low resistance and, therefore, low heat loss.

One problem has been that niobium does not readily emit electrons. But Srinivasan-Rao and John Schill, a former BNL employee, have devised a way to clean the niobium so that it will readily emit electrons when struck with a laser. The next step will be to see if this form of niobium retains its superconducting characteristics. If so, it can be used to make superconducting rf injectors capable of producing currents thousands or even hundreds of thousands of times higher than the room-temperature rf injectors now available.

And if that works, Srinivasan-Rao says, she might think about combining the two inventions: using the high-current electrons from the superconducting rf injector to increase the efficiency of her photon generator. "Each invention is a small step along the way," she says.

— Karen McNulty Walsh

Dierker

(cont'd.)

Since 1992, Dierker has been a member of the NSLS Users Group, and he performed initial experiments at the NSLS to develop a novel synchrotron technique called x-ray photon correlation spectroscopy, which uses coherent, or highly ordered, synchrotron beams to study colloidal systems, or particles dispersed in a solid, liquid, or gaseous medium, and polymers.

Since 1996, Dierker has been a member of the Advanced Photon Source (APS) Users Organization at Argonne National Laboratory, and he chaired that organization from 1998-2000. He also helped to plan the construction, design, and operation of beam lines at the APS, with funding from DOE and the National Science Foundation.

— Diane Greenberg

Lyme Disease Update, 8/21

All are invited to attend an update on Lyme disease, which will be presented by David Grahm, Director of Public Health of the Suffolk County Department of Health, on Thursday, August 21, at noon in Berkner Hall. Registration is required. Check your mailbox for registration forms, which must be returned to Linda DiPierro, Bldg. 490, by Friday, August 8. For more information, contact DiPierro at Ext. 2733.

BNL Employee Assistance Program (EAP) Presents:

'Understanding and Navigating The Path of Grief,' 7/28

The loss of a loved one, regardless of age, whether sudden, tragically, or after a prolonged illness, can have a devastating effect on family, friends, and on working relationships. To learn how to best cope in these difficult times, join bereavement social worker Joanne Archer as she presents the Employee Assistance Program's "Understanding and Navigating the Path of Grief," next Monday, July 28, at noon in Berkner Hall, Room B.

As Archer will explain in her talk, death, and the bereavement that follows, usually is a subject left to be dealt with solely at the time of wake and funeral services. Often, the bereaved person, when most vulnerable, becomes "isolated" or "shunned" by close friends, family, and co-workers. How we react after the death of a loved one, and to the surviving spouse, sibling, or parent, is a subject few deal with comfortably. All BNLers are welcome to attend this talk, especially those who have suffered a loss, and would like to meet to exchange ideas, lend an ear, extend a hand, or share experiences.

In addition to presenting the EAP talk on Monday, Archer will also assist the Lab in the formation of an on-site support group for bereaved persons dealing with loss, grief, and the myriad of emotions that accompany the loss of a loved one.

Archer has an extensive background in psychiatric, medical, and clinical social work. She has served as a bereavement social worker for Hospice Care Network since 1999. She has provided individual and group therapy for various adult populations, including parents, spouses, adults, children, and siblings. She also developed and implemented support groups for families of the World Trade Center Victims, and is also an EAP Clinician for the New York City Police Department and for Suffolk County B.O.C.E.S.

Meet April Gray, BNL Volunteer

“What could be better than spending your time making kids happy?” asks April Gray. Volunteering for children’s programs is important to Gray, who works in BNL’s Fiscal Services Division. She is currently gearing up to participate in the “backpack” program sponsored by a local organization based in Hampton Bays. The program coordinates group activities for children who are living in local emergency shelters, and Gray hopes to organize a “Summer Sunday” visit to BNL for them. She has also arranged holiday trips to New York City for disadvantaged children.

Both local organizations and the Lab profit from Gray’s dedication and her knowledge of young people and children. She is actively involved in the BNL mentoring program and is one of many BNLees who participates each year in BNL’s “Take Our Daughters and Sons to Work Day.” This annual event, coordinated by Susan Foster of BNL’s Human Resources & Occupational Medicine Division (HROM), provides children an opportunity to visit the workplace of parents and grandparents.

Last year, the Lab extended the “Take our Daughters and Sons to Work” program to include some of the children from the Little Flower School in Wading River. Several BNLees, including Gray, volunteered to host Little Flower children. Says Foster, “It is heartwarming to watch our BNL staff greet the children as they begin their day together. Many of these children would never be afforded an opportunity to explore a workplace if it weren’t for our caring employees.”

This past April 24, as usual, all the visiting children spent



April Gray (right), Fiscal Services Division, is pictured with: (from left) Jennifer Dickerson of Longwood High School whom Gray has mentored for the past year as a participant of the High School Cooperative Program (HSCP) run by the Human Resources & Occupational Medicine Division; Lynn Murphy, Little Flower Children’s Services staff member; Ariel Grant, HSCP student, Erica Washington, Little Flower resident; and D’Andre Ellerby, Gray’s grandson. Some of the children are displaying the Mother’s Day cards that Gray taught them to make using computer graphics during “Take Our Daughters and Sons to Work” day.

the morning with their parent or host, learning about typical Lab duties. Gray introduced her group of children, which included her grandson, to aspects of her computer work, teaching them to place graphics in a document by creating computer-made Mother’s Day cards.

At noon that day, all the children gathered in Berkner Hall for lunch and a welcome from Lab Director Praveen Chaudhari. HROM’s Cathy Wehrmann, a specialist in career development, and the Chemistry

Department’s David Schlyer, an addiction research scientist, gave lively talks. The children then visited and learned about the BNL Science Museum, the Superconducting Magnet Division — where they also viewed robotics — the Photography & Graphic Arts Division, and the BNL firehouse. They ended their day with an ecology walk led by Tim Green of the Environmental Services & Waste Management Division and Jeremy Feinberg of the U.S. Fish & Wild-

life Service. Says Gray, “It’s very satisfying to me that BNL wants to give the children a good experience on their visit here, and that so many Lab volunteers make the day so successful. I believe it is our duty to educate children by introducing them to various cultural, educational, and social environments. Our return is only as good as our investment. I find it very gratifying working with kids and watching them grow.” — Jane Koropsak



Recital

Pianofest at BNL, 7/30

All are invited to hear performances by outstanding young pianists brought to the Berkner Hall stage by Pianofest director, Paul Schenly.

Pianofest alumni from past BSA Noon Recitals have made their mark at the national and international level: Anthony Molinaro won the Walter F. Naumberg International Piano Competition; Orion Weiss was awarded the Irving S. Gilmore Young Artist Award and an Avery Fisher Career Grant; Van Cuong won the World International Piano Competition in Cincinnati; Konstantin Soukhovetski won the Hilton Head Competition and Gilles Vonsattel won first prize in the Naumberg International Piano Competition.



Noon recitals are free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Ferry Cruise, 8/13

On Wednesday, August 13, the Hospitality Committee invites all BNLees and guests to take a sunset cruise on Long Island Sound, with live reggae music performed by King Wellington. Ferry boards at 5:45 p.m. at the dock in Port Jefferson and returns at 9 p.m. The reduced group fares are: adults, \$11; children 6-12, \$7; under 6, free. Buy tickets on board.

Car-Seat Safety Talk

Nationwide, four out of five car seats are installed incorrectly — could yours be one of them? To find out, join Vytra Health Plan’s Julie Boffardi, registered nurse and certified child passenger safety technician instructor, on Tuesday, July 29, at noon in Berkner Hall, Room B, for a talk on car-seat safety. For information, contact Denise DiMeglio, Ext. 2881.

Flamenco Concert at BNL, 10/12

Sol Y Sombra will present “Encuentro Flamenco,” a concert sponsored by BNL’s Hispanic Heritage Club that will feature Spanish classical and Flamenco music and dance on Sunday, October 12, at 3 p.m. in Berkner Hall. Maria Loreta, Gregorio DeSilva, Ricardo Santiago, Sofia Islam and Mieko Seto, will be performing with the *Sol Y Sombra* principal dancers. Guest artist, classical Indian dancer Arti Datta, along with guitarists Arturo Martinez and Flamenco singer Dominico Caro and other company dance members, will be featured. Concert tickets, at a cost of \$10 for adults and \$5 for children under 10, can be purchased at the BERA Sales Office in Berkner Hall, weekdays from 9 a.m. to 3 p.m. Seating is limited, so purchase tickets early. Tickets will not be sold at the door. For more information, contact the Bera Sales Office, Ext. 3347; Carmen Narvaez, Ext 3254, or narvaez@bnl.gov; or Omar Gould, Ext. 2656, or ogould@bnl.gov.

Blood Pressure: Free Checks

Stop by Berkner Hall next Tuesday, July 29, from noon to 12:30 p.m. when registered nurses from the Occupational Medicine Clinic (OMC) will be available to check your blood pressure in the lobby area. Blood-pressure checks are also available daily in the OMC between 8:30 a.m. and noon and again from 1 p.m. to 4:30 p.m. For more information, contact the OMC, Ext. 3670.

Arrivals & Departures

Arrivals	Departures
Dario Arena NSLS	Philip Pape C-A
Donald Davis Physics	Manuel Rosa Plant Eng.
Kyongha Kang Mat. Sci.	

Weight Watchers

The first class of the next Weight Watchers at Work session starts on Wednesday, July 30. BNLees can register for this session on Wednesday, July 30, from noon to 1 p.m. in the Brookhaven Center. The cost is \$99 for 10 or more weeks depending on the number of participants. Contact Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

Calendar

Monday, 7/28 (cont’d.)

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, the president’s report, and negotiation update.

Tuesday, 7/29

***Car-Seat Safety Lecture**
Noon, Berkner Hall, Room B. Nationwide, four out of five car seats are installed incorrectly — could yours be one of them? Join Vytra Health Plan’s Julie Boffardi, registered nurse and certified child passenger safety technician instructor, for a talk on car-seat safety. Check your mailbox for registration forms. Denise DiMeglio, Ext. 2881.

Friday, 8/1

***APAA Summer Picnic**
5 p.m. at the gazebo by the softball fields. See notice, page 4. For more information, call Beth Lin, Ext. 3372, or Samantha Lin, Ext. 3471

Sunday, 8/3

Summer Sunday Tour
10 a.m.-3 p.m. Tour features BNL’s National Synchrotron Light Source and an overview of the Lab’s nanoscience research initiatives. For more information, see www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— WEEK OF 8/4 —

Tuesday, 8/5

1 Wireless World Demo
11 a.m.-2 p.m., Berkner Hall. Representatives will present BNLees with discounted rates on wireless products and services. Brian Coletti, 738-7500.

Wednesday, 8/6

Grainger Industrial Supply Demo
11 a.m.-2 p.m., Berkner Hall. Representatives from Grainger Industrial Supply will present BNLees with information and special rates on Grainger’s products and services. For more information, contact Matthew Cheshier, 662-6154.

Thursday, 8/7

BERA Bridge Club
7 p.m., Brookhaven Center. Morris Strongson, Ext. 4192, mms@bnl.gov.

Friday, 8/8

***BERA Trip to N.Y. Yankees**
4 p.m., Brookhaven Center. \$55. See notice, page 4.

Sunday, 8/10

Summer Sunday Tour
10 a.m.-3 p.m. Tour features BNL’s superconducting magnet production facility. For more information, see www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— WEEK OF 8/11

Tuesday, 8/12

St. Joseph’s College Demo
11 a.m.-2 p.m., Berkner Hall. Representatives from St. Joseph’s College will present BNLees with information about the college and the various education options that St. Joseph’s has to offer. For more information, contact Lucille Curley, 447-3252.

Thursday, 8/14

Community Advisory Council Meeting
6:30 p.m., Berkner Hall, Room B. Open to the public. For more information, see <http://www.bnl.gov/community/CAC.htm>.

Saturday, 8/16

***Ellis Island Bus Trip**
\$39 per adult, \$36 per child (over age 5) includes bus, ferry, and tour. Bus leaves BNL at 8:30 a.m. from the Brookhaven Center and returns at 4:30 p.m. Pay at the BERA Sales Office.

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.

Family Fun Day

THIS SUNDAY, 7/27

This Sunday, July 27, is “Family Fun Day” at BNL. Tours will include the Science Museum and the Office of Educational Programs.

Visitors to the Lab will also see:

- Performances by the BERA Music Club, which will be given from noon to 4 p.m. and include a range of musical styles from Japanese drumming, African drumming and dancing to folk, jazz, and blues.
 - Sidewalk art exhibit
 - Antique cars
 - BNL's Motorcycle Club
 - Demonstrations on the physics of sports
 - Islanders Hockey slap-shot demonstration
 - Science demonstrations geared to kids
 - BNL Scientists Lisa Miller and Steve Hulbert
 - Walk FM's “Walky Bear”
 - Local high school students demonstrating robots
- Every Sunday, in addition to the featured tour, visitors will see:
- “Brain Matters,” a hands-on exhibit on the brain
 - “Whiz Bang Science Show,” at 10:30 a.m., noon, 1:30 p.m., and 3 p.m. Children and adults can learn scientific principles by watching lively, interactive demonstrations at this fun show
 - Poster on the 2002 Nobel Prize in Physics won by BNL scientist Ray Davis
 - Camp Upton Historical Collection: memorabilia from World Wars I & II.

Tour hours are between 10 a.m. and 3 p.m. Admission is free and no reservations are needed. To be admitted on site, all visitors age 16 and over must bring a photo ID.

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 JOBSITE, 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. MK2583. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in high energy or nuclear physics. Experience with production and analysis of event data from large high energy or nuclear physics experiments is desirable as is experience in the collaborative development of software to support such experiments. Knowledge of C++, XML, Unix, grid computing, Python and Java are also desirable. Research will be in the Physics Application Software Group which develops software and carries out other computing activities in support of the ATLAS experiment. This position is part of an activity to design, implement and support a distributed system for the analysis of data from that experiment.

Depending on the candidate, a position based at CERN, for a period of 1-2 years could be considered. Under the direction of D. Adams, Physics Department.

NS2383. SPONSORED RESEARCH SPECIALIST (M-1, Reposting) – Requires a bachelor's degree, preferably in a scientific field, at least five years experience in a senior position in grants and sponsored research administration, management experience in a multi-disciplinary research environment, excellent oral and written communication skills, and the ability to work independently with minimal supervision. Knowledge of OMB circulars, NIH, NSF, and DARPA grant/sponsored research policies, rules and regulations highly desirable as is a master's degree in business or finance. Will be responsible for the conduct of the total Work for Others Program within the Office of Intellectual Property and Sponsored Research (OIP), all OIP interaction with the BNL Budget Office concerning fiscal aspects of the Work for Others Program and all Laboratory interaction with DOE and reporting to DOE relating to the Program. Will play a leadership role in identifying grants and sponsored research funding opportunities with Federal, industrial, state, and non-profit sponsors consistent with BNL research capabilities and interests. Office of Intellectual Property and Sponsored Research.

Motor Vehicles & Supplies

01 FORD TAURUS - silver, 3L, 50K mi., a/t, a/c, all power, am/fm/cass., well maint., \$9,000. Henri, Ext. 8294 or 776-2779.

99 VOLKSWAGON PASSAT - all power, excel. cond. in/out, 8K remaining on B/B warr., auto./5-spd., 6-disc changer, all service records. Lou, Ext. 4312 or 732-1028.

98 JEEP WRANGLER - white, Sahara, a/c, p/s, p/b, excel. cond., 2-tops, air bags, 57K mi., \$13,400. Chris, Ext. 7908 or 929-7225.

97 BUICK LESABRE - auto., white leather int., CD/tape player, a/c, p/l, p/w, keyless entry, alarm, must sell, 51K mi., \$6,500. Ext. 4931.

96 TOYOTA CELICA GT - convertible, white body & black roof, cloth int., all power, new eng., dealer maint., excel. cond., 75,500 mi., \$12,000. Mary, Ext. 6344 or 929-3388.

Blues Concert at BNL Tonight Featuring Sam Taylor, Wolfe

The BNL Music Club and the Long Island Blues Society are sponsoring a blues concert, “Soaring with the Bluz,” at Berkner Hall this evening, July 25, 8-11 p.m. Featuring Sam “Bluzman” Taylor and the band Wolfe, the concert is open to the public. All visitors age 16 and over must bring a photo ID to be admitted on site.

Tickets for the concert are available at the BERA Sales Office in Berkner Hall, at \$15 per person. They must be bought in advance; no tickets will be sold at the door. For more information, call 631 344-3846, or send an e-mail to jjv@bnl.gov.

August Call-In Child-Care Service Available

BNL's 2003 Summer Camp Program is expected to have daily openings for BNL families in need of emergency child care for a 5- to 14-year-old child. This service will be based on space available day-to-day during August. Call Ext. 5090 the day before, or Ext. 5090 /3033 between 8-9 a.m. on the day itself, to see if space is available.

The fee is \$30 per day, with a maximum of three call-in occurrences per child during the month. The BNL Summer Camp operates at the Recreation Hall through August 22, 8:30 a.m.-5 p.m. Snacks will be provided twice a day. Children must bring a bag lunch and a swimsuit for a daily swim.

For more information about this service or the BNL Summer Camp program, call Christine Carter, Ext. 5090.

BERA Trips: Ellis Island, 8/16, Yankees, 8/8, 9/12

Saturday, 8/16: BERA trip to Ellis Island and the Statue of Liberty. The cost of \$39/adult and \$36/child over 5 covers bus, ferry, and tour. The luxury coach will leave promptly at 8:30 a.m. from the Brookhaven Center and return at 4:30 p.m.

Friday, 8/8: BERA trip to see the Yankees, \$55/person.

Friday, 9/12: Yankees trip, \$55/person. Both luxury coaches to the N.Y. Yankees will leave the Brookhaven Center at 4 p.m.

Pay for trips at the BERA Sales Office, weekdays, 9 a.m-3 p.m.

94 FORD MUSTANG - all power, needs minor work, orig. own., very well maint., metallic blue w/spoiler, new timing chain, water pump, receipts for all, 136K mi., \$3,950 neg. Tom, Ext. 5741 or 473-3760.

94 NISSAN SENTRA - grey, a/t, a/c, p/s, p/b, cass. player, recent tune up & new brakes, great station car, needs cleaning, 155K mi., \$700. Denis, Ext. 4612 or 929-0767.

93 FORD PROBE GT - red, 5-spd., a/c, p/l, s, p/b, p/w, new tires, brakes, exhaust, timing belt & battery, good cond., 105K mi., \$2,200. Ext. 3288 or 281-0360.

93 LINCOLN TOWNCAR - loaded, clean, 227K mi., \$1,000 firm; 77 Honda 750cc, clean, runs well, \$500. Marilyn, 516-297-6256.

93 SUBARU LOYALE - silver, 5-spd., good cond., all power, 91K mi., \$1,500 neg. Brett, Ext. 7431.

92 NISSAN STANZA XE - all power, new tires, front brakes & rotors, battery, timing chain, 113K mi., \$1,750. Lou, Ext. 4312 or 732-1028.

92 TOYOTA CAMRY LE - all power, orig. own., 4-cyl., good cond., well maint., replaced trans., 148K mi., \$3,500 neg. Rich, 745-0647.

92 INFINITI M30 - pearl white, orig. own., 108K mi., leather int., moonroof, a/c, p/s, p/b, ABS, cruise, v.g. cond., \$3,500. Herb, 928-0297.

91 TOYOTA CAMRY - all power, moonroof, fair cond., 213K mi., \$1,000. Joel, 751-3408.

90 NISSAN MAXIMA - SE edition, hit front/rear, drivable, all power, excel. eng., trans., leather int., for parts, 110K mi., \$500. Leslie, 758-2760.

90 VW JETTA - runs, many new parts, needs clutch, 5-spd., 183K mi., \$500. Gregory, Ext. 4331.

83 VOLVO - 850, v.g. cond., 127K mi., auto. trans., sedan, leather seats, ABS., \$3,000. Peter, Ext. 5634.

TIRES - one pair of Firestone slicks, 28.5" tall x 9" wide, \$175. Crager 8 in. Five Star rims w/tires. Wayne, 698-1184.

TRAILER HITCH - fits '01 and older Chevy, GMC, like new, \$120. Lou, Ext. 4312.

Boats & Marine Supplies

23' PACESHIP PY 23 - '77, shoal draft, 6 hp Johnson O/B, red gelcoat hull, sleepers 4, excel. cond., in water, prime Great S. Bay slip available, \$5,500. Hiram, 758-2760.

22' WESTERLY SAILBOAT - twin keel, fiberglass, clean, newly painted, many extras, needs some work, \$2,500. 744-3569.

21' AMERICAN INTERNATIONAL CENTER CONSOLE - '86, '98 Suzuki 140 hp eng. , 350 hrs., 1 yr. remaining on warr., DF, VHF, GPS, canvas covers, lg. live-well, great cond., excel. fishing boat, \$9,000 neg. Frank, Ext. 3433 or 878-2396.

13' OLD TOWN 138 KAYAK - '03, used three times, incl. additional child seat, \$490. Ed, Ext. 4188 or 218-7609.

JET-SKI - '96, Seadoo XP, very low hours, \$3,800 obo, w/trailer. Frank, Ext. 2012 or Vita, 277-0464.

WAVERUNNER - Seadoo GSX, LTD, '98, low hours, 130 hp, Solas prop SL trailer & accessories, \$3,750. Stan, Ext. 4406.

Furnishings & Appliances

AIR CONDITIONER - Freidrich, 8,000 Btu, used 1½ seasons, \$250. Danielle, 863-0383.

AIR CONDITIONER - Freidrich, 10,000 Btu, energy Star, new, never taken out of box, cost \$750, ask. \$500; portable crib, Cosco, excel. cond., \$50. Sharon, 821-1999.

BEDS & AIR CONDITIONERS - queen-sized mattress, box-spring & frame, \$100; black, wrought-iron day-bed w/mattress, \$100; Sharp & Whirlpool window air conditioners, 6,000 Btu, \$100/ea. Mary, Ext. 6344 or 929-3388.

DINING ROOM SET - maple, oval table, 38x56, 2 leaves, 6 chairs, hutch, 9 drawers, 2 cupboards, “Moosehead” furniture, colonial style, good cond., \$400. Kathleen, Ext. 3926.

DINING TABLE & CHAIRS - Formica top, 2 leaves, 6 maple wood chairs, good cond., \$100. MaryEllen, Ext. 2979.

ENTERTAINMENT CENTER - approx. 6' wide x 4'6" high, glass doors, excel. cond., \$35. Tom, Ext. 4507 or 878-1060.

MIRROR - oak frame, walnut finish, 17" x 21", \$20. Karen, Ext. 4262.

SELECT COMFORT BED - queen size, pillow top, brand new, excel. cond., orig. price, \$1,100, ask. \$500 obo. John, 363-7569.

Tools, House & Garden

FORMICA - 4 x 8 sheet of “pompano” formica, \$25 obo. Andrew, Ext. 7014 or 281-8274.

LAWN EDGER - gas Toro powered, \$75. Joe, Ext. 3783 or 929-8321.

LAWN MOWER - reel mower, Toro, 21 in. cut, 3 hp, \$80. 567-9025.

MOWER - Sears, ride-on golf cart, type, 8 hp, 30" cut w/attachments, need front tire, \$300. Frank, Ext. 2012 or 277-0464.

Sports, Hobbies & Pets

BICYCLE - women's, 27", excel. cond., lights & lock, \$40 obo. Anna, Ext. 5341.

Audio, Video & Computers

APPLE CLONE - w/63 upgrade, 20 gig + 40 gig, CDR-CDRW recorder, zip drive, color printer, monitor, keyboard, mouse, \$200. Ken, Ext. 4514.

Miscellaneous

BABY ITEMS - Evenflo infant car seat, \$30, oak crib, \$40, stationary walker/play set, \$40, changing table, \$20, bouncer, \$5. Sharon, 821-1999.

MAUSOLEUM- Pinelawn, garden, 2 entombments, 1 crypt, 1st level, make offer, moved. Leonard, 1-770-942-6002.

UNIQUE PIÑATAS - all occasions, all characters, cartoon, Disney, Sesame Street. Donna, 821-0359.



Sam Taylor

APAA Summer Picnic

All Lab employees and friends are invited to a picnic sponsored by the BNL Asian Pacific American Association on Friday, August 1, 5 p.m. to sunset, at the gazebo near the ball fields. The cost is \$2/ person over 12 years old. Bring your own food and games. Grills, charcoal, watermelon, potato and macaroni salads, drinks, and cookies will be provided. Rain date, August 2. For more information, call Beth Lin, Ext. 3372, or Samantha Lin, Ext. 3471.

Upton Nursery School Parents Meeting, 7/28

There will be an important planning meeting on Monday, July 28, at 12:30 p.m. in Berkner Hall, Room D. The parents of all Upton Nursery School students are asked to attend. For more information, contact Cathy Lavelle, Ext. 2774.

Yard & Garage Sale

WADING RIVER - 7/26-7/27, 9 a.m., multi-family, furniture, lawn equipment, books, records, misc. household items, etc., 8 Karen Court (off Fire Lane). Karen, 821-9703.

Lost & Found

EARRING - gold hoop lost near the Brookhaven Center or Child Development Center. Anna, Ext. 7132 or 793-4551.

MITT - youth, black, left-handed, lost in Rec. Area. Ext. 2325.

WORK - Central Shops has lost almost all its work. If you have some, then please contact Tom Lambertson, Ext. 3352.

Free

BABY ITEMS - Childcraft Crib, bought in '00 for \$290, hardly used, no mattress, two diaper Genies. Terri, Ext. 2112.

WASHER & DRYER- GE, 10 yrs.old but runs well, you haul. Elaine, Ext. 1045 or Jim, Ext. 8370 leave message.

Wanted

BOBCAT - to rent, small, w/tracks & forks, ball hitch, 2" to bolt to minivan. Jim, Ext. 5537.

PUMP & MOTOR - for above ground pool, reasonable. R. Dilello, Ext. 7238.

RESEARCH VOLUNTEERS - men and women who smoke cigarettes, ages 18 and over, are needed for MRI study. Strictly confidential, fee provided. 344-2773.

TICKETS - Need a Miracle, looking for 2 tickets for both nights, 8/9 & 8/10, Jones Beach. Jane, Ext. 2531.

TRANSLATOR - looking for someone willing to translate a letter written by a former German POW at Camp Upton. German English. Jim, Ext. 5925.

WORK - Central Shops backlog is at historical lows (<900 hours). Bring small jobs to 470 tonight, pick up in the morning, guaranteed. Tom, Ext. 3352.

In Appreciation

The Hispanic Heritage Club and I thank all who attended our 1st annual Salsa Picnic. We had fun in the sun and I hope you will join us again in July 2004.

— Carmen Narvaez

Happenings

FINE ART SHOW, SALE - Patchogue Garden Club's 3rd. Ann. Outdoor Juried Art Show, Sun, 7/27, rain date 8/3, in gardens of S. Ocean Ave./Terry St., one block so. of Main St., 10 a.m.-5 p.m. Classical guitar, 2-4 p.m. Free, open to all. Contact Lynn, 447-6986.

The list of Services advertised by BNLers is on the web at www.bnl.gov/bnlweb/pubaf/bulletin/services.htm