

## 'Gateway' Protein Structure Determined by NSLS Users

A group of National Synchrotron Light Source (NSLS) users has determined the structure of a tiny "gateway" protein on the surface of cells that allows other proteins to exit the cell. Described in the January 1, 2004, issue of *Nature*, this research is a huge step forward in the field of cell biology, and may provide insight into the complex mechanisms of several essential cellular functions.

The gateway protein is in the cell's protective, greasy outer "skin," called the membrane, which contains thousands of pores, known as channels, that allow only certain substances to enter and exit the cell.

The channel studied in this research is protein-conducting. It permits "secretory proteins" to leave the cell by passing straight through the membrane and allows "membrane proteins" to integrate into the membrane. This system, called protein translocation, allows the proteins to perform many essential functions, such as digestion and disease protection, outside the cell.

"The structure tells us much more than we ever hoped to be able to get out of it," said the group's leader, Tom Rapoport, a cell biologist from Harvard Medical School (HMS). "We can now



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propose mechanisms for how the channel is opened, how other molecules are prevented from crossing the membrane, and other processes. The structure initiates a new era of more directed research into the mechanism of protein translocation."

The collaboration also includes HMS's Bert van den Berg, William Clemons, Jr., Yorgo Modis, and Stephen Harrison; Ian Collinson, Max Planck Institute of Biophysics, Germany; and Enno Hartmann, University of Luebeck, Germany. Working in part at NSLS beam line X25, the researchers slowly imaged the channel's structure by shining x-rays at it. They used a computer to analyze the pattern created as the rays scattered off its molecules.

"This is the culmination of 25 years of work, and so it's rewarding to finally see the three-dimensional structure," Rapoport said. "This is a dream for me."

As Rapoport described, the channel is hourglass-shaped, with certain special features. For example, its bottom and top regions are separated by a molecular "plug" that swings open for outbound proteins, acting as a barrier between the inside and outside of the cell. At the structure's narrow "neck," a gasket-like "pore ring" forms a seal around exiting proteins, keeping smaller molecules from sneaking in or out of the cell.

The channel also includes a component that acts like two molecular "hands" clasped around a cup. By varying their grip, the hands narrow or widen the pore, allowing it to admit needed proteins and shut away unwanted molecules. The hands can also unclasp where their "fingertips" meet, permitting proteins to slip sideways out of the channel and integrate into the membrane. — Laura Mgrdichian

For more details, go to [www.nsls.bnl.gov/newsroom/science/2004/02-Rapoport.htm](http://www.nsls.bnl.gov/newsroom/science/2004/02-Rapoport.htm).

## Register for NSLS-II Workshop, 3/15

All are invited to register for the NSLS-II Workshop on Monday, March 15, in Berkner Hall. Key speakers will include U.S. Representative Sherwood Boehlert, Chairman of the House Science Committee; Patricia Dehmer, Associate Director of DOE's Office of Basic Energy Sciences; Paul Horn, Senior Vice President for Research at IBM; and Roderick MacKinnon, winner of the 2003 Nobel Prize in Chemistry (for work done, in part, at the NSLS). For more information or to register, see [www.nsls2.bnl.gov/newsroom/workshops/2003/NSLS-II/Default.htm](http://www.nsls2.bnl.gov/newsroom/workshops/2003/NSLS-II/Default.htm), call Ext. 2297, or e-mail [nslsinfo@bnl.gov](mailto:nslsinfo@bnl.gov).

## Neutrino Super Beam, Detectors, Proton Decay Joint BNL/UCLA, APS Workshop at BNL, 3/3-5

A workshop on a neutrino super beam, large detectors, and proton decay was held at BNL on March 3-5. Jointly sponsored by a BNL and University of California Los Angeles

(UCLA) group, and the neutrino study group of the American Physical Society (APS), the workshop attracted 82 registrants.

Neutrinos, electrically neutral, minute particles that interact so

little with any other matter that they are often called "ghost-like," are now known to "oscillate" or change from one to another of their three forms. Protons, positively charged particles found in the nucleus of every atom, have never yet been observed to "decay," or disintegrate.

Scientists recognize that the fields of neutrino physics and proton decay are of fundamental importance to the understanding of particle physics and, in particular, the breadth of the Standard Model, which is the generally accepted theory of the behavior of matter. Thus, a series of studies and conferences focused on neutrinos and proton decay has begun, to the great interest of many members of the scientific community.

(continued on page 2)



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Cochairing the workshop were: (from left) Douglas Michael, California Institute of Technology; David Cline, University of California Los Angeles; Nicholas Samios, BNL; and William Marciano, BNL.

## Four BNLers Honored With Brookhaven Award

At the BNL Employee Recognition Award Ceremony on February 2, 14 Lab employees were rewarded with BNL's highest honors. Pictured below are the four winners of the 2003 Brookhaven Award, a \$2000 prize given to recognize key contributors in support functions whose performance and achievements represent outstanding service to the Laboratory. Summaries of the winners' achievements follow on page 2.

Pictured with BNL Director Praveen Chaudhari (back, second from left), Deputy BNL Director for Science & Technology Peter Paul (back, left), and Interim Deputy BNL Director for Operations Mike Bebon (back, right) are the four recipients of BNL's 2003 Brookhaven Award: (back) Mike Clancy, Environmental & Waste Management Services Division; (front, from left) Bill Gunther, Life Sciences Directorate; April Gray, Fiscal Services Division; and Edward Lessard, Collider-Accelerator Department.



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## 392nd Brookhaven Lecture

### What Multi-Modality Imaging Can Tell Us About Diseases, Treatments, 3/17

Those who work in the field of medical imaging continue to improve diagnostic tools. Researchers are forever working to develop a functional "Medical Tricorder," — a handheld, non-invasive diagnostic instrument seen on Star Trek. This ideal of the medical-imaging community would obtain data on the biochemistry, physiology, anatomy, genomics, proteomics, and biochemistry of a subject with a simple pass over the subject's body at a short distance.

No such instrument exists today. Therefore, scientists are employing existing tools — magnetic resonance imaging (MRI), positron emission tomography (PET), x-ray, ultrasound, and others — simultaneously, in what is called multi-modality imaging. In this way, researchers decipher more from the result than if each imaging method is used alone.

To learn how BNL scientists are using multi-modality imaging to understand more about common diseases, join Associate Laboratory Director for Life Sciences and Interim Chair of the Medical Department Helene

Benveniste on Wednesday, March 17, at 4 p.m. in Berkner Hall. She will present the 392nd Brookhaven Lecture, "Multi-Modality Imaging In Small Animals: What Imaging Can Tell Us About Diseases & Treatments." Benveniste will be introduced by Peter Paul, BNL Deputy Director for Science and Technology.

In her talk, Benveniste will discuss the BNL imaging facilities that researchers use to perform multi-modality imaging studies to further the understanding of many common ailments, such as stroke, Alzheimer's disease, traumatic brain injury, alcohol abuse, and the effects of nicotine on the unborn fetus.

Benveniste joined Medical in 2001 as a scientist and is also a professor in the Department of Anesthesiology at Stony Brook University. After earning her B.S. in math and physics from Katedral-skolen, Denmark, in 1978, she received her M.D. in 1986 and

her Ph.D. in neuropathology and neurobiology in 1991, both from the University of Copenhagen, Denmark.

All are invited to this free public lecture. Visitors to the Lab age 16 and over must bring photo ID. — John Galvin



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Helene Benveniste, photographed in a hard hat as she attended the installation of a giant magnet, delivered by crane in September 2003, for microMRI research at the Medical Department.

To join Benveniste at an off-site restaurant after the lecture, contact Amalia Ruggiero, Ext 2837, or [alr@bnl.gov](mailto:alr@bnl.gov).

## 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 —

#### **Mondays: BNL Gospel Choir**

5:15-7 p.m. Berkner Hall. All faiths are welcome. [www.bnl.gov/bera/activities/choir/](http://www.bnl.gov/bera/activities/choir/).

#### **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](http://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.

#### **Monday & Friday: Jazzercise**

Noon-1 p.m., Rec. Hall. Pre-registration is required. Christine Carter, Ext. 5090.

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

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

#### **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: 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/toastmasters/default.htm](http://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. Eight-week session. \$20 to attend once a week; \$40 to attend twice a week. Ext. 2873 for more information.

#### **Tues. & Thurs: Upton Nursery School**

9-11:30 a.m. in the Rec. Hall. For 3 & 4 year olds. Alison Tilp, Ext. 4465, or [tilp@bnl.gov](mailto:tilp@bnl.gov).

#### **Wednesdays: On-Site Play Group**

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Cindy Otteman, 821-4482.

#### **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: Dance Lessons**

6-8 p.m., North Ballroom, Brookhaven Ctr. John Millener, Ext. 3853.

#### **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](mailto:rudy@bnl.gov).

## March is Women's History Month

In celebration, the Women's Program Advisory Committee will hold a weekly CD raffle.

Free raffle tickets will be available at a display in Berkner Hall lobby.

### — THIS WEEKEND — Friday, 3/12

\*Tax Assistance for Foreign Nationals  
Noon, Rec. Hall, Bldg. 317. Sponsored by the Quality of Life/BERA/Recreation Office. See also page 3.

#### Saturday, 3/13

\*Hospitality Bus Trip to New York City  
The bus will depart at 9 a.m. from the Rec. Hall and return from the city at 6 p.m. Reserve with Violetta Bajanova, 744-5762 or [eidelman@bnl.gov](mailto:eidelman@bnl.gov). Tickets: adults \$10, children 2-12, \$5.

### — WEEK OF 3/15 — Tuesday, 3/16

#### Apple Computer Technology Demo

10:30 a.m.-1 p.m., Berkner Hall. Learn about Virginia Tech's G5 super-computer, Apple Xserver G5, Xserver-RAID, and using Apple in an Enterprise environment.

# Four Honored With Brookhaven Award

At the BNL Employee Recognition Award Ceremony on February 2, the \$2000 Brookhaven Award was given to four Lab employees. To win this prize, employees with a history of contributions in all support functions are considered. However, outstanding achievements in areas such as environment, safety, affirmative action, training, community involvement, and quality are favored. The 2003 winners' achievements are summarized below. — Liz Seubert

## Mike Clancy



Mike Clancy started at BNL in 1986 as a waste management technician. Today, he is Deputy Division Manager for Waste Programs in the Environmental & Waste Management Services Division (EWMSD).

Clancy is being recognized with the Brookhaven Award for outstanding dedication, leadership, and expertise in dealing with BNL's waste management challenges. Previously, he has served as Operations Manager for the Waste Management Division, and Remediation Waste Manager for Environmental Management (EM). He has played an important part in integrating EM waste activities into the overall BNL waste management program. Under his leadership, over 20 project-specific waste management plans were implemented to improve compliance, reduce storage times; eliminate waste certification, shipping and disposal errors, and cut costs.

Clancy is known for thinking "outside the box" and he consistently performs to a high level in providing effective solutions to waste-management problems. His integrity and expertise are recognized beyond BNL by DOE and the waste management industry. His contributions have saved BNL hundreds of thousands of dollars and will continue to pay back dividends in the future.

## April Gray



During her 29 years at the Lab, April Gray has worked in six scientific departments and support divisions, with the last 17 years in the Fiscal Services Division, where she is now a Senior Administrative Assistant. She is known as a top performer, but this award recognizes her efforts beyond her Fiscal Services' responsibilities.

As a long-standing member and past president of the Affirmative Action Advisory Committee, Gray advised the Director on BNL's progress in Affirmative Action and Equal Employment Opportunity, and listened thoughtfully to employees' concerns. During her service on the Employee Relations Committee, she also helped in the constructive resolution of employees' problems.

Well before "Quality of Life" became a formal program, Gray initiated the idea of transporting visitors living in on-site housing to local shops. She has also changed the lives of many children through the Lab's High School Cooperative, Youth on Campus, and Mentoring programs. For example, for many years, she served as house mother to inner city children in a BNL summer apprenticeship program, and currently mentors students in business procedures, having organized divisional support when the original funding ended.

## Bill Gunther



Bill Gunther is recognized for having performed exceptionally during his 19 years of Laboratory service, and particularly in his three and a half years in the Life Sciences (LS) Directorate.

Joining the LS Directorate as Special Assistant to the Associate Laboratory Director in April 2000, Gunther has excelled at one challenging task after another and is known for always finding ways to facilitate research and promote teamwork and collaboration.

Gunther's work is diverse. He oversees all administrative and safety operations for the Directorate, but also, he has served twice as the Interim Manager of the Clinical Research Center; was instrumental in the success of a National Institutes of Health (NIH)-funded general clinical research center grant and Intramural Program; he negotiated the Stony Brook University Radiation Therapy Facility contracts; he has also set up many workshops and meetings of high-level funding managers.

Besides his work in the Directorate, Gunther makes valuable contributions to many other BNL programs. Currently, he serves on seven essential Lab committees, participates in the BNL Envoy Program, and volunteers for BNL outreach activities such as open house days.

## Edward Lessard



Edward Lessard of the Collider-Accelerator (C-A) Department is being recognized for his outstanding and continuing contributions to both his own department and to BNL in the areas of Environment, Safety, Health & Quality (ESH&Q).

As C-A's Associate Chairman for ESH&Q, health physicist Lessard is responsible for the ESH&Q oversight of the single largest program area at BNL. His contributions are key to providing the continued operation of this major BNL scientific program. Many C-A operations procedures, safety analysis documents, and departmental management systems for ESH&Q result from his efforts, and many BNL procedures are based on the C-A procedures he developed.

Lessard's in-depth knowledge of health physics and the regulatory world has served BNL in many areas. He chairs the BNL Laboratory Environment, Safety & Health Committee, crucial for all BNL operations, and chairs or serves on many other such committees. Also, Oak Ridge National Laboratory and DOE recognized his outstanding expertise in accelerator facility ESH&Q by asking him to chair both the \$1.5 billion Spallation Neutron Source Safety Review and the Accelerator Readiness Review Committees, and to participate in similar reviews elsewhere.

## Neutrino Super Beam, Detectors, Proton Decay Workshop

(cont'd.)



A gathering of workshop attendees, March 4

The recent March 2004 workshop at BNL is a follow-up to a workshop held at UCLA, December 3-5, 2003, which explored the issues of neutrino oscillations, proton decay, and the establishment of a national underground laboratory. It is expected that this BNL/UCLA study will continue over the next several years. The APS Divisions of Particles and Fields and of Nuclear Physics, together with the Divisions of Astrophysics and the Physics of Beams, are sponsoring a year-long study on the physics of neutrinos, kicked off by a December 13-14 workshop at Argonne National Laboratory. The APS neutrino study group intends to produce a written report by the summer of 2004.

In addition to continuing discussions on neutrino oscillation, proton decay, and a possible national underground laboratory, the BNL workshop encompassed presentations on theory, neutrino and proton decay, proton drivers, target systems, and large detectors, as well as the activities of working groups on these subjects. Co-chairing the workshop were David Cline of UCLA, Douglas Michael of the California Institute of Technology; and

William Marciano and Nicholas Samios of BNL.

A major focus of the workshop was the study of intense proton sources worldwide that would be capable of producing high flux neutrino super beams for use in studies of neutrino oscillations, including CP violation. An upgraded AGS with 1-2 megawatts of power was discussed. It would provide neutrinos for a very long baseline — Brookhaven, New York, to Homestake, South Dakota — 2,540-kilometer oscillation experiment. New calculations of the expected event rates and backgrounds for that ambitious undertaking appeared to confirm its viability, but additional work, particularly on requirements for a very large, 100-to-500-kiloton detector, would be necessary before a full proposal could be made. Toward that end, different detector technologies were compared. The idea of marrying a future long baseline neutrino oscillation effort with a deep underground proton decay-Supernova neutrino experiment, both having similar detector requirements, was shown to present an attractive option for significantly expanding the discovery potential of such a major undertaking. — Liz Seubert

Presentations made at this March workshop and the UCLA and APS/Argonne December workshops are at: <http://www.bnl.gov/physics/superbeam/default.htm>.

## Inside Info

### Sakitt, APS Forum Chair

As of January 1, Mark Sakitt of the Physics Department assumed the Chairmanship of the Forum on Physics and Society, an American Physical Society division organized in 1971 to address issues related to the interface of physics and society as a whole. Sakitt, who works on RHIC physics, has led the Non-proliferation & National Security Department's Center for International Security Studies since it was established at BNL in 1998.

### Jack Austen Highway

Jack Austen, who served BNL in the Supply & Materiel Division for 22 years before his retirement in September 1987, has been honored for 51 years of dedicated service to the Ridge Fire Department, including his co-founding and serving as first president of the Brookhaven Town Volunteer Firefighters' Museum in Ridge. On July 30, 2003, New York State Governor George Pataki named part of State Route 25, just west and east of William Floyd Parkway, after Austen. At a September 23, 2003, ceremony attended by Senator Kenneth LaValle, Assemblywoman Patricia Acampora, Austen and his wife Virginia, family members, and many others, the roadway was officially named the Jack Austen Highway.

*Note: As reported in the Bulletin of January 30, Jack Austen died on October 22, 2003.*

## In Memoriam

**Dorothy Groobert**, who had become a clerk B in the then Accelerator Department on July 22, 1957, and had risen to senior executive secretary and later retired on long-term disability on March 31, 1984, died at age 80 on June 4, 2003.

**Alfred Lukas**, who, on January 26, 1953, had become a technician B in the Instrumentation & Health Physics Division and had retired from the then Health Physics Division on January 31, 1987, as a senior technical associate, died on October 11, 2003, at the age of 79.

**Ralph Tuthill**, who had joined the Medical Department as a research services assistant III on January 3, 1967, and had retired from Medical as a lab specialist, on January 2, 1987, died on October 16, 2003. He was 81.

**Mary Ann Roberts**, who had joined the Medical Department as a research services assistant II on January 2, 1973, and retired on May 8, 1981 as a senior research services assistant, died on October 21, 2003, at age 87. Previously, she had served the Lab as a temporary Matron from September 5, 1961, until October 1968, then as a guest Lab aide until December 29, 1972.

**Dennis Hall**, who, on August 7, 1978, had joined the Contracts & Procurement Division as a buyer, died at age 60 on October 28, 2003. He had retired as Small Business Liaison Officer on December 31, 2002.

**Michael Piccione**, who had joined the Plant Engineering Division as a custodian on May 16, 1988, and had left the Lab on long-term disability on February 7, 1997, died on December 7, 2003. He was 69.

### Get to Know Your Lab!

## BNL Weather Info

On Friday, March 19, all the Lab community is invited to learn more about BNL's weather information service. Meet at noon in Berkner Hall upper lobby. Elaine Lowenstein of Community Involvement will take the group to the work station of a well-known source of BNL weather information, Victor Cassella of the Environmental Sciences Department. Cassella will show the group the computers and other equipment he uses, display data from the weather tower, explain how BNL teams with the on-site National Weather Service, and how his area is involved with BNL's emergency response services. The group will return to Berkner Hall by 1 p.m.

### SOAR Fitness Program Begins 3/15

The Start Over and Renew (SOAR) runs for ten weeks, beginning on Monday, March 15. It is designed to help individuals set and meet fitness challenges at their own level and, also, learn more about health awareness. Participants will receive a "wellness" log book to track progress and a monthly newsletter.

To participate, complete and return the registration form that was sent to all employees to Linda DiPierro, Bldg. 490. For more information, contact Michael Thorn, Ext. 8612.

## Arrivals & Departures

### Arrivals

Lee Brett ..... Emg. Svcs.  
Haibin Zhang ..... Physics

### Departures

Vladimir Dioumaev ..... Chemistry  
Zheng Lin ..... Biology  
Kathleen Sanguedolce ..... C-A

## BWIS Talk, 3/22 More Effective Communication

In honor of National Women's History Month, at noon on Monday, March 22, in Berkner Hall, Room B, Brookhaven Women in Science (BWIS) will sponsor a talk on "Effective Communication," to be given by Mary Eisenstein, president and founder of Chrysalis Enterprises, a company that specializes in training and motivational seminars.

In her one-hour talk, Eisenstein will discuss communication styles and explore how verbal and non-verbal communication can help individuals to become effective communicators.

Eisenstein has conducted training seminars across America and in several other countries. She also has developed and implemented conflict resolution programs, one of which is currently used by an international company with 11,000 employees, and she is a certified mediator and arbitrator.

All are invited. For more information about the talk, contact Gail Donoghue, Ext. 2838, or donoghue@bnl.gov.



## Pianist Cristina Valdes, 3/17

On Wednesday, March 17, Cristina Valdes will give the next BSA Noon Recital, in Berkner Hall. Valdes studied at Stony Brook University to earn her Master's and Doctor of Musical Arts degrees. Committed to 20th century as well as standard works, she has presented innovative concerts with a repertoire ranging from Bach to Xenakis.

Valdes has performed at Carnegie Recital Hall, Merkin Hall, Miller Theatre, Jordan Hall, and has appeared in recitals throughout the United States.

Her numerous prizes and awards include the Thayer Award for the Arts, the W. Burghardt Turner Fellowship, first prize in the Ruth Slenczynska Solo Piano Competition, and, most recently, an Yvar Mikhashoff Trust for New Music grant for a recording project of all 20th century piano music.



## Tax Assistance for Visitors Today, 3/12

The Quality of Life/BERA/Recreation office will present a "Tax Assistance for Visiting Foreign Nationals" workshop on Friday, March 12, at noon in the Recreation Hall, Bldg. 317. The presentation will be given by Mark Israel, Fiscal Officer. For registration and information, contact Christine Carter, Ext. 5090.

## See 'The Mentalist' Nightclub Act at BNL, 3/19

On Friday, March 19, at 7:30 p.m. in Berkner Hall, Gerry McCambridge will perform his well-known nightclub act, demonstrating his uncanny ability to read people's actions and determine their innermost thoughts. Tickets cost \$10 at the BERA Store. Doors open at 6:30 p.m. and there will be a cash bar and limited snacks. For more information, contact Christine Carter, Ext. 5090.

## BREA Plans Retiree Luncheon 5/27

Come, meet and greet old friends.

A luncheon get-together for all the retired and associate members of the Lab community is planned for Thursday, May 27, at Villa Lombardi's in Holbrook. Prizes, surprises, entertainment aplenty. A letter with details will be sent to all retirees soon.

## Hospitality Bus Trip to NYC, 3/13

The Hospitality Committee invites all visitors, guests, and their families, as well as employees to join a bus trip to New York City on Saturday March 13, departing the Recreation Hall at 9 a.m. Make reservations with Violetta Bajanova, 744-5762 or eidelman@bnl.gov. Tickets are: adults \$10, children 2-12, \$5.

## Nominations Needed For Environmental Stewardship Awards

As part of BNL's commitment to environmental stewardship, each year employees are asked to nominate themselves, or someone they work with, for an Environmental Stewardship Award. Winners are selected based on their outstanding effort in pollution prevention, waste minimization, or resource conservation. This year's awards will be presented at the annual Earth Day Ceremony on April 22. Do you believe that you or someone you work with should be recognized for leadership in environmental stewardship? If so, forward the following information to Karen Ratel, Bldg. 120, by April 12.

- Your name, extension, dept/div, and bldg. number
- Nominee name, extension, dept/div, and bldg. number
- Brief overview of employee's contribution, with any supporting documentation available.

Winners are judged on level of environmental service, environmental and monetary impact, and environmental philosophy. If you have any questions, contact Ratel, Ext. 3711 or ratel@bnl.gov.

## BNL Music Club Concert at Noon, 3/26

### 'Now You Haz Jazz, Jazz,' and Classical

At noon on Friday, March 26, in Berkner Hall, three BNLers: Christine Aidala on flute, Gabriele Carcassi on piano, and Robert Kelly on guitar, will be joined by bassist and drummer Joe and Ray Kruse to perform excerpts from two pieces by modern French composer Claude Bolling. Aidala and Carcassi are both of the Physics Department and Kelly is of the Human Resources & Occupational Medicine Clinic Division. The concert is sponsored by the BNL Music Club.

As many music buffs will know, Bolling is a master at integrating jazz and classical styles. He has written a series of compositions for solo instrument and jazz piano trio. The March 26 performance at BNL will feature three movements from his *Concert for Classical Guitar and Jazz Piano Trio*, and three movements from his *Suite for Flute and Jazz Piano Trio*.

## Calendar

(continued)

### Wednesday, 3/17

#### \*BSA Noon Recital, Pianist Valdes

Noon, Berkner Hall. Pianist Christina Valdes. All are welcome to this free recital. See also notice at left.

#### \*392nd Brookhaven Lecture

4 p.m., Berkner Hall. Helene Benveniste, Associate Lab Director for Life Sciences, talks on "Multi-modality Imaging in Small Animals: What Imaging Can Tell Us About Diseases and Treatments."

### Thursday, 3/18

#### \*Summer Camp Expo

11:30 a.m.-1:30 p.m., Berkner Hall. Local Long Island summer camps will display information on summer camp opportunities, Susan Foster, Ext. 2888.

#### \*Nutrition Month Event

Noon, Berkner Hall. "Exercise and Nutrition: Shattering the Myths," talk by Jennifer Gatz, Exercise Physiologist, sponsored by CIGNA. See also page 4.

#### BERA Bridge Club

7 p.m., Brookhaven Center, South Room. Morris Strongson, Ext. 4192, mms@bnl.gov.

### Friday, 3/19

#### \*Lunchtime Tour - BNL Weather Info

Noon, Berkner Hall lobby. Meet and take Lab bus to learn about BNL weather information. See notice above, left. Return to Berkner by 1 p.m. Elaine Lowenstein, Ext. 2400.

#### \*The Mentalist

7:30 p.m. Berkner Hall. Gerry McCambridge reads people's actions and determines their thoughts. Tickets are \$10 at the BERA Store. Cash bar, snacks. Christine Carter, Ext. 5090.

### Saturday, 3/20

#### \*Blues Concert

8 p.m., Berkner Hall. Joe Vicino & the Smokedaddys and the Dare Ya Blues Band. All welcome, tickets \$10 in advance at BERA Store. See notice, page 4.

## WEEK OF 3/22

### Monday, 3/22

#### \*BWIS Talk

Noon, Berkner Hall, Room B. In honor of National Women's History Month, Brookhaven Women in Science (BWIS) will sponsor a talk by Mary Eisenstein of Chrysalis Enterprises. See notice at left.

#### IBEW Meeting

6 p.m. Knights of Columbus Hall, Railroad Ave., Patchogue. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

### Wednesday, 3/24

#### Weed Watcher Meeting

Noon, Berkner Hall, Room B. Lab's "Weed Watcher" group invites all those interested in helping identify and map the location of invasive non-native plant species on site that may out-compete native species and threaten the integrity of the Pine Barrens ecosystem. Contact Maureen Dunn, Ext. 5427 or mdunn@bnl.gov, visit www.bnl.gov/esd/wildlife/Invasive\_Plant.htm.

### Friday, 3/26

#### \*BNL Music Club Concert

Noon, Berkner Hall. See below, left.

### Saturday, 3/27

#### \*Darbari, Indian Dinner Concert

5:45-10:30 p.m. Berkner Hall. After dinner, acclaimed Indian musicians perform the court music of India. For more information, including ticket cost, see page 4 and www.sas.upenn.edu/~aminerdarbari.html.

## — WEEK OF 4/12 —

### Friday, 4/16

#### Women In Concert

7:30 p.m., Berkner Hall. Sponsored by the BERA Music Club with host Yvette Malavet-Blum, a popular cabaret singer who works at BNL. The concert will also feature singer-songwriters Robin Greenstein and Cathy Kreger. Tickets cost \$12 and can be purchased at the BERA Store in Berkner Hall.

*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.*

## Darbari: Classical Music of India, 3/27

With pre-concert dinner featuring the food of India

Darbari, an ensemble of four musicians who perform the classical music of India, will play in Berkner Hall on Saturday, March 27, at 7:30 p.m. Beforehand, a traditional Indian dinner will be served at 5:45 p.m. for the concert-goers. The dinner and concert are open to the public. All visitors to the Laboratory age 16 and older must bring a photo ID.

Darbari performs Indian classical ragas in an interactive style, blending the sounds of their traditional Indian string and wind instruments — sitar, bansuri, and sarangi. In addition, a combination of innovative and traditional rendering is energized by the tabla, a percussion instrument. The ensemble consists of two of the most prominent Indian musicians living in the U.S., Pandit Ramesh Misra and Pandit Samir Chatterjee, as well as Allyn Miner and Steve Gorn, who have both received critical acclaim in India and the west for their subtle and skillful performances.

Tickets for the dinner and concert cost \$30 for adults; \$20 for full-time students (age 12 plus) postdoctoral fellows, and senior citizens (age 65 and older); and \$10 for children age 5 to 12. Tickets may also be purchased at the door, but if purchased after March 25, they will cost \$5 more for the \$20 and \$30 categories.

For more information, call Ext. 5672, or e-mail [tope@bnl.gov](mailto:tope@bnl.gov).



## Classified Advertisements

### Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at [www.bnl.gov/HR/jobs/default.htm](http://www.bnl.gov/HR/jobs/default.htm).

**LABORATORY RECRUITMENT** - Opportunities for Laboratory Employees.

MK108. DRIVER - Drives and services any and all Laboratory automotive vehicles under any conditions of usage. May be required to load and unload, perform necessary road maintenance, and perform related clerical duties. Procurement and Property Management Division.

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

MK4177. ASSISTANT METEOROLOGIST (S-1) - Requires a Ph.D. in meteorology with specific experience in the areas of satellite meteorology and radiation transfer in the atmosphere. Additional requirements include demonstrated expertise in cloud and aerosol interactions with incoming and outgoing radiation streams and in the application of satellite measurements from NASA's Earth Observing System Satellites to climate problems. Must have an established record of funding and maintain an active and high quality research program. Will interact in a synergistic manner with our ongoing research efforts and help interpret the extensive cloud and aerosol data sets that have been collected during the past five years. Must be willing to interact with other scientists in the Division toward a common goal, which is the improvement in simulations of climate. Under the direction of M. Miller, Environmental Sciences Department.

NS2626. ADMINISTRATIVE SERVICES ASSISTANT (A-2, term appointment) - Requires an AAS (Business, Database Manage-

ment, Computer Technology) plus at least two years' relevant experience. Strong analytical, communication, interpersonal and database management skills, as well as the ability to work independently are required. Essential skills include MS Access, Excel, Word, and Outlook as well as competence in basic mathematics. Knowledge of Laboratory policies and procedures is desirable. Position involves extensive interaction, exchange of information with and assistance to NLS and CFN user community, staff and outside contacts. Will act as backup to the user proposal program coordinator, share in user registration desk responsibilities, maintain bulk e-mail lists and handle non-routine matters. Will prepare, review and distribute user information and statistical data. Responsible for assisting administrative staff. National Synchrotron Light Source Department.

### Motor Vehicles & Supplies

02 FORD TAURUS WAGON - a/t, a/c, p/s, p/b, p/w, perfect condition, seats 7, must sell, 21K mi., \$14,000. Charlie, 728-0074.

99 HYUNDAI SONATA - 6cyl., 4dr., white, 70K hwy. mi., excel. cond., \$5,800. Jimmy, 395-5773.

99 SATURN SL2 - a/t, a/c, p/w, p/l, 4dr., spoiler, new brakes, sunroof, great cond., 99K mi., \$5,600/neg. Lisa, Ext. 7524.

97 NISSAN ALTIMA - a/t, a/c, p/s, p/b, p/w, well maint., 126K mi., \$3,000, Laurie, 834-9648.

96 CHEVY BLAZER SLT - a/t, a/c, p/s, p/w, 4x4, leather int., cd, 111K mi., Nancy, Ext. 4303.

96 VAN - a/c, E-250, 6cyl., complete new brakes, tires & shocks, 110K mi., \$3,900. Victor, 654-3537.

95 MUSTANG GT -a/t, p/s, p/b, 8cyl., blk., am/fm/6-cd changer, new tires, 85K mi., excel. cond. \$4,000/neg. Ext. 3084 or 924-6475.

95 NISSAN QUEST GXE - p/l, abs brakes, roof rack, 64K mi., 12-mo. warr., \$7,500. Fran, 744-1397.

94 FORD RANGER PICKUP - red, runs v. well, new batt., clutch, timing belt, incl. cap. bedcover, 130K mi. \$2,100/neg. 680-8445.

94 FORD THUNDERBIRD - a/t, a/c, p/w, 2dr., 6cyl., moonroof, low mi., gd. cond., \$2,000. Fred, 369-9700.

93 CAMARO Z28 - a/c, p/s, p/b, p/w, 6spd, new paint red, excel. cond. 98K mi., \$8,500. Darlene, Ext. 4685 or 587-2385.

93 CHRYSLER VAN T&C - leather, new tires, brakes, runs well, \$2,000; Utility home made 2-wheel trailer, \$200. Richard, 924-6751.

93 DODGE CARAVAN - 5spd, a/c, p/s, p/b, p/w, excel., 3.3L, V6 eng., abs, tinted wdws., r/r, 110K mi., \$2,750. Ext. 3750 or 689-1877.

93 DODGE INTREPID - red, excel. cond., must sell. \$3,000. Mary, Ext. 2900.

93 FORD PROBE - a/t, p/s, p/b, p/w, new tires, brakes, exhaust syst.; rem. start, abs, full-size spare, 129K mi., \$1,800, Ext. 5873.

93 HONDA PRELUDE - 5spd, a/c, p/s, p/b, p/w, 28 mpg, pwr. s/r, new tires, batt., excel., 101K mi., \$4,700. Ext. 4453 or 924-6105.

## Summer Camp Expo, 3/18

On Thursday, March 18, a Summer Camp Expo will be held in Berkner Hall, 11 a.m.-1:30 p.m. Local Long Island summer camps will be available to talk about their summer opportunities and provide facility and registration information to BNL employees and guests. For more information, contact Susan Foster, Ext. 2888.

### 'Candles for a Cure'

"Candles for a Cure" is an American Diabetes Association (ADA) fund-raiser that increases awareness about diabetes and raises money for the research, information and advocacy efforts of the ADA.

For Mother's Day on May 9, Yankee candles and specially designed, limited edition Plushland Mother's Day bears will be sold to benefit ADA. The candle and bear may be bought together for \$20, or separately for \$15/candle or \$10/bear.

Buy candles and bears through April 22 for delivery during the week of May 3. Pre-paid orders may be made at the BERA Sales Office, weekdays, 9 a.m.-3 p.m.

## BERA Board Election Candidates Selected

The BERA Nominating Committee has selected the following slate of four candidates for the 2004 BERA Board Elections: Deborah Keating, Robert Kiss, Susan Wells, and Lisa Zimmerman.

During the week of March 29-April 2, all eligible employees of BNL, DOE, and all other permanent on-site employers, may cast their ballots to elect two of the four candidates to serve on the BERA Executive Board beginning May 1.

More information on the candidates and the election will be published in a future issue of the Bulletin.

91 CHEVY S-10 BLAZER - a/t, a/c, p/s, p/b, 4wd, am/fm/cd, new paint, alt., strtr.; trailer pkg., 155K mi., \$1,800. Ext. 4970 or 369-9623.

91 LINCOLN MARK VII LSC - full pwr., new trans. & tires, 139K mi., \$2,800/obo. John, 516-527-5773.

90 BUICK LESABRE - a/t, a/c, p/s, p/b, p/w, red, new front brakes & tires, gd. cond., 133K mi., \$1,600. Tom, Ext. 8335 or 804-2959.

SOFT TOP - for Suzuki Vitara JLX 2-dr., brand new, blk., \$200. Denise, Ext. 5873.

TIRES - two 15" tires mounted on steel rims w/covers, \$20/ea. Paula, 751-8240.

TRAILER HITCH - fits Chevy Blazer, Jimmy type, vgd. cond., 2" receiver, \$250 new, ask. \$125. Lou, Ext. 4312.

### Boats & Marine Supplies

22' CRUISER, INC. BARNEGIT - '87, trailer, rebilt. Chevy 350 I/O, new parts, rebilt. outdrv., \$7,000. 516-798-2599 or 516-860-9339.

22' SAILBOAT - '97 O'DAY, w/cabin, fixed keel, 36" draft, 6hp Johnson motor, lots of accessories, inc., \$3,000. Michele, 821-2530.

19' CAPE DORY TYPHOON - '76, 3.5hp, 30" draft, 5 sails, cradle, new rigging & compass, ask \$3,000. Thomas, Ext. 3454 or 878-3553.

16' WELLCRAFT - '96 CC, '02 50hp Johnson warr. trailer, DF, radio, clean, \$7,600. Alanson, 929-5911.

6' JETSKI - '88 Kawasaki X-2 w/trailer, excel. cond., many accessories, \$1,300, Thomas, Ext. 8335 or 804-2959.

CAMPER - '95 Rockwood XL, pop-up, 3-way refrig, gas heater, 3-burner stove, excel. cond., ask \$4,200, Danny, 744-3027.

### Furniture & Appliances

BED - captain's twin, solid ash, 4-drawer, 1 cubby, excel. cond., \$450/firm. Patty, 331-1765.

## Blues Concert, Saturday, 3/20

Sponsored by the BNL Music Club

## Joe Vicino & the Smokedaddys

## The Dare Ya Blues Band

in "Meeting at the Crossroads"  
Berkner Hall, March 20, 8 p.m.

Open to the public. All visitors age 16 and over must bring photo ID. Tickets: \$10 each in advance, \$15 each on show day. Buy at BERA Sales Office, weekdays, 9 a.m.-3 p.m. or through Web sites [www.smokedaddys.com](http://www.smokedaddys.com) or [www.dareya.blues.com](http://www.dareya.blues.com).

Joe Vicino and the Smokedaddys, featuring Vicino on guitar and lead vocals, Pete Kiernan on bass and Ralph Santiago on drums, have played at many local venues, including the Yankee Peddler in Merrick, Giacomo Jack's in Amityville, and Belle's East in Southampton. Their musical influences range from Stevie Ray Vaughan to Jimi Hendrix and Motown to Chicago blues. The band has recorded four CDs, with a fifth due out this spring.



The Dare Ya Blues Band is made up of five musicians who are veterans of the Long Island music scene. Band mates Johnny Dunn and Luke Alvino have rejoined, combining

their talents in songwriting and performing. The band plays original blues, while adding some unique twists to their favorite cover songs. They have played at such clubs as The Viking in Islip, Nawlin's Grille in Mineola, Paula Jean's in Setauket, and the A&M Roadhouse in New York City. The band's second CD, titled "Lonely Street," is completed and will be available at the show.

For a fun flavor of the Smokedaddys and the Dare Yas, listen in to the BNL Music Club Web page at <http://www.bnl.gov/bera/activities/music/>.

## Stay Healthy With Nutrition Month Events

March is Nutrition Month, so the Human Resources/Occupational Medicine Division's Health Promotion Program will present:

### Exercise and Nutrition: Shattering the Myths

Thursday, March 18, Noon, Berkner Hall

Talk by Jennifer Gatz, Exercise Physiologist, sponsored by CIGNA. This talk is free but pre-registration is requested.

## Lifeguard Training & Certification Course

BERA will be sponsor a Lifeguard Training & Certification Course, beginning Sunday, April 4, for nine weeks. Participants must be 15 or older. Call Susan Dwyer, Ext. 3496, after 4:30 p.m. on Mondays and-Thursdays for information and course fees.

BEDS - 2, twin-size platform w/3 drawers, 1 toddler bed w/mattress, \$25/ea. Steve, 751-8240.

CRIB - white w/mattress, converts to toddler bed, 5 yrs. old, sturdy, excel. cond., \$150. Michele, 821-2530.

COUCH - 3-pc. sectional, white, peach & grey w/pastel fabric, excel. cond. Cynthia, 698-9016.

DRYER - Kenmore, apt. size, 110V AC, gd. cond., \$50; Gas stove, 30" Tappan, leaky fittings, pickup free, deliver for fee. 929-6571.

LOVESEAT & TABLE - Rattan loveseat & matching table, \$40 for both, matching couch free. Nancy, Ext. 4303.

### Audio, Video & Computer

AUDIO STAND - blk., hardly used, \$75. Mary, Ext. 2900.

COMPUTERS - Dell, 1.0Ghz P3, 256Mb ram, 40Gb hd, \$350; Dell 1.1Ghz cpu 256Mb ram, 20Gb, CDRW, \$300; Don, Ext. 7237.

MOTHERBOARD - Pentium 4, 4bit TH711-RAID, 1/7 GHz CPU, 256MB ram; Pioneer DVD/CD Reader, \$150/all, Ext. 2080.

### Free

DOG - Akita for adoption, 4 yr. old beautiful spayed female, excel. health, all shots, needs adult household. Lois, 929-4753.

WATERBED - Somma, matr. w/tubes, base, stand, bookshelf hbrd, pick up or l deliver for fee. Don, Ext. 7237 or 929-6571.

### Miscellaneous

FLASHING SHAMROCK PINS - for St. Patrick's Day, they're going fast! Mike, Ext. 5262.

PROFESSIONAL BEAUTY SALON EQUIP. - chair, sink, mirror, unit w/shelf, perm rods, \$200. John, Ext. 5283.

TICKETS - 2, Staller Center, Emerson String Quartet, Friday, 3/26, 8 p.m., vgd. seats, \$29/ea. Yako, 474-1243.

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

### Sports, Hobbies & Pets

SKIS, PUPS - Ross. Sport w/poles & ski, \$75; ski boots, sz. 13, \$50; Beagles, 6 mo. old, 1 male, 2 females, trained to hunt. 265-6542.

### Tools, House & Garden

CHIPPER/SHREDDER/VAC - Troy-Bilt 8 hp, elec. start, 3.5" branch capac., rake-in tray, x-long hose, \$600. Ext. 3454 or 878-3553.

### Wanted

DANCERS & CLAPPERS - for Filipino Tinikling bamboo dance. Practice Thursdays, noon, Rec Hall. Marie Van Buren, Ext. 4727 or vanburen@bnl.gov.

PEOPLE - interested in improving public speaking. Toastmasters mtg. 3/16, 5:30 p.m. in Bldg. 463 Conf. Rm. 160. Nancy, 344-5744.

RESEARCH VOLUNTEERS - men and women who smoke cigarettes, ages 18 and over, are needed for PET study. Strictly confidential, fee provided. 344-5015.

SAXOPHONE - alto, for student, fairly new, in good cond. Jenn, Ext. 5922.

SHOTGUN - model 870 in 410Ga., Joe, Ext. 3783 or 929-8321.

TRAINS - Lionel, American Flyer & others, cast metal toys, high cash pd., also have some sets for sale, Bruce, 924-4097.

SERVICES - BNLers offer many services: housecleaning, childcare, dentistry, bricklaying, and much more, too many to print. See them on the web at the address below, or call or e-mail for a full printout, see below.