

BNL Thanks RHIC Benefactors At Lab-Wide Celebration

On Tuesday, April 18, BNL Director Praveen Chaudhari hosted a Lab-wide celebration and reception in Berkner Hall for BNL's Relativistic Heavy Ion Collider (RHIC) benefactors, led by Renaissance Technologies' Jim Simons. The magnificent support of the world-class science at RHIC by Simons and others at Renaissance Technologies was deeply appreciated by the many distinguished guests, speakers, and attendees, who all joined in this expression of the Lab's gratitude.



Jim Simons

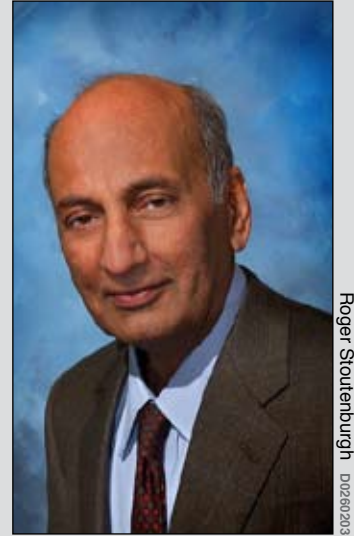
Farewell to Lab Director Praveen Chaudhari

It is with profound thanks for his dedication and leadership during the past three years that the Bulletin says goodbye to Praveen Chaudhari, who steps down as Brookhaven National Laboratory Director on April 30. The BSA Board has announced that Sam Aronson, previously Associate Laboratory Director for High Energy & Nuclear Physics, will take over on May 1 as Interim Laboratory Director.

Message from Lab Director Chaudhari:

Since arriving three years ago at this outstanding laboratory, I have gained an appreciation of its wonderful history, of its current and future science, and of all of you and the work that you do. I believe strongly that we have set upon a course for a prosperous future, where we will reach many new and exciting scientific milestones. I believe that in the near future, others will cite Brookhaven National Laboratory as the best in the world.

Thank you very much for your extraordinary support and for your teamwork that has positioned us so well! — Praveen Chaudhari



Roger Stoutenburgh 02/20/06

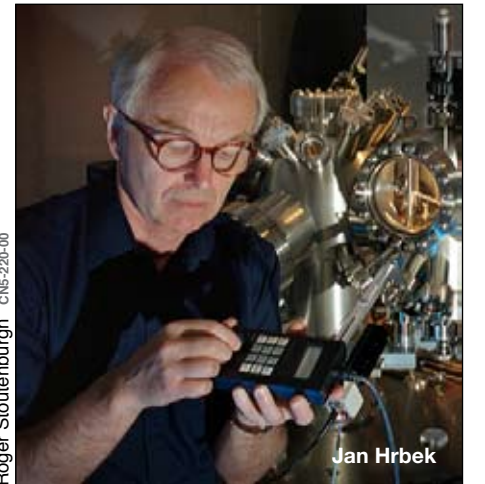
Modeling the Chemical Reactions Of Nanoparticles

As science enters the world of the very small, researchers will be searching for new ways to study nanoparticles and their properties. For the past several years, scientists at BNL have been experimenting with new methods for preparing nanoparticles on metal supports, with the aim of creating model catalyst systems to better study the special reactivity of nano-sized catalyst particles. Jan Hrbek of the Chemistry Department reviewed several of the Lab's results at the 231st national meeting of the American Chemical Society in Atlanta, GA, in March.

Catalysis, the acceleration of a chemical reaction, is tremendously important as an industrial process, underlying most of the energy supply (oil-to-fuel conversion, for example) and 80 percent of the products of the chemical industry. There is a substantial need to understand how catalysts work and learn to design and make better catalysts. The work at BNL, funded by the Office of Basic Energy Sciences within DOE's Office of Science, is aimed at understanding how the detailed atomic structures of model systems of certain classes of catalysts contribute to their activity. Hrbek's talk reviewed work in making models of nanometer-scale particles that are the active material in many catalyst particles.

"Actual catalysts are very complex, often with a wide range of particle sizes and structures," Hrbek said. "It is often difficult to sort out which atomic sites are catalytically active. The goals of the model studies being done here are to be able to determine atomic structures of the reactive sites, and to understand how reactions occur at those sites. This work ultimately aims to strengthen our ability to design better catalysts."

Among the most interesting results of the BNL studies, said Hrbek, is a new



Jan Hrbek

Roger Stoutenburgh 01/15/20/06

method to create well-defined nanoparticles of metal compounds that are of catalytic interest.

"Reactive layer assisted deposition, or RLAD, allows us to make well-dispersed, reasonably uniform nanoparticles of metal compounds on well-defined supports," Hrbek said. "These can then be structurally characterized on the nano scale and their reactivity evaluated by using modern surface-sensitive techniques. This opens an interesting opportunity to examine catalytic activity in metal compounds that were also atomically characterized."

Several other laboratories studying nanoparticles of metal compounds have already adopted the RLAD method.

"It is a challenge to form uniform particles in this size range, to disperse them uniformly on the substrate, and to 'look' at them with advanced microscopes to understand their structure," Hrbek said. "The tools being applied to form and study the particles are one aspect of Brookhaven's growing capabilities in nanoscience."

— Kay Cordtz

For more details on this research, go to www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=06-33.



Among the distinguished speakers and guests at the celebration held to thank Jim Simons and members of the Renaissance Technologies Corp. (RTC), pictured above are: (from left) Robert Lourie of RTC; Peter Bond, BNL Deputy Director for Science & Technology; Michael Holland, Manager, U.S. DOE Brookhaven Site Office; U.S. Senator Charles Schumer, New York; Jim Simons, RTC President; James Decker, U.S. DOE Principal Deputy Director; Frank Wilczek, Massachusetts Institute of Technology Herman Feshbach Professor of Physics, Nobel Laureate; U.S. Representative Timothy Bishop, First Congressional District, New York; Shirley Strum Kenny, President, Stony Brook University and Chair, Brookhaven Science Associates; BNL Director Praveen Chaudhari; T.D. Lee, University Professor of Columbia University and Director Emeritus of the RIKEN BNL Research Center (RBRC), Nobel Laureate; and Nicholas Samios, RBRC Director.



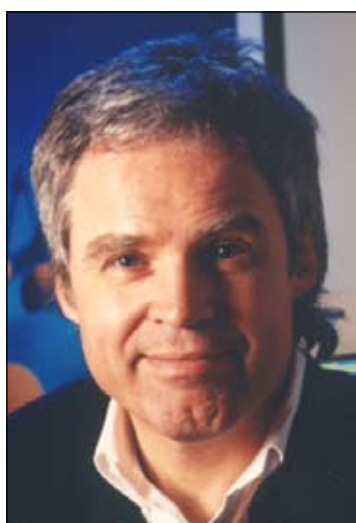
Roger Stoutenburgh 06/05/06

'When the Electron Falls Apart . . . and What to Do with the Pieces' Nobel Laureate Horst Stormer to Give BSA Distinguished Lecture, 5/4

Horst Stormer, co-winner of the 1998 Nobel Prize in Physics, will give a BSA Distinguished Lecture titled "When the Electron Falls Apart . . . and What to Do with the Pieces" on Thursday, May 4, at 4 p.m. in Berkner Hall. Sponsored by Brookhaven Science Associates, the company that manages Brookhaven Lab, BSA Distinguished Lectures bring topics of general interest before the Lab community and the public. The lecture is free, and no reservations are required. All visitors age 16 and over must bring a photo ID.

Electrons are indivisible, as far as physicists know. In

groups, however, electrons can fall apart and create smaller, fractional charges when squeezed onto a plane and exposed to a magnetic field. This phenomenon, known as the fractional quantum Hall effect, implies that many electrons, acting in concert, can create particles with a charge smaller than the charge of any individual electron – a counterintuitive effect, considering a collection of objects usually is bigger than its parts. Fractional charges are bizarre because, not only are they smaller than the charge of any constituent electron, but they are exactly one-third, or one-



Horst Stormer

fifth, or one-seventh, etc., of an electronic charge, depending on the conditions under which they have been prepared.

Today, the evidence for such perplexing, fractional charges is direct, and scientists understand them in terms of an elaborate, quantum mechanical waltz of electrons. Stormer's lecture will provide an intuitive insight into this fascinating state of matter, present recent surprises, and finish with a speculated application of these weird particles.

Horst Stormer received his Ph.D. in physics from the University of Stuttgart in 1977, joined Bell Labs (now Lucent

Technologies) as a postdoctoral student shortly after and became a technical staff member in 1978. From 1983 to 1992, he headed the company's Semiconductor Physics Research Department, and, in 1992, he became the Director of its Physical Research Laboratory. In 1997, Stormer became the Adjunct Physics Vice President at Bell Labs, and, in the same year, became a physics professor at Columbia University. In 1998, Stormer shared the Nobel Prize in Physics with Robert B. Laughlin and Daniel C. Tsui for the discovery of the fractional quantum Hall effect.

— Diane Greenberg

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 Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may 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, Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

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

Noon-1 p.m., Brookhaven Center North Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Aerobics

5:15-6:30 p.m., Rec. Hall. 10 classes for \$40, or \$5 per class, pay as you go. Pat Flood, Ext. 7866.

Tues. & Thurs: Aqua Aerobics

5:15-6:15 p.m. \$20 to attend once a week, \$40 to attend twice a week. For more information, call Ext. 2873.

Tues. & Thurs: Jazzercise

Noon-1 p.m., Rec. Hall. \$88 for twice-a-week eight-week session, you may use the membership at several Jazzercise locations. Christine, Ext. 5090.

Tues. & Thurs.: Ving Tsun Kung Fu

Noon-1 p.m., Brookhaven Center, North Room. \$80/month or \$10 per class, pay as you go. Taught by Master William Moy. Scott Bradley, Ext. 5745 or bradley@bnl.gov.

Tue., Thu. & Fri: Upton Nursery School

8:30 a.m.-noon, Rec. Hall. 2- and 3-day programs available. Kati, 821-4131.

Tuesdays: Welcome Coffee

10 a.m.-noon, Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Lisa Yang, 979-3937.

Tuesdays: BNL Music Club

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

Tuesdays: Jiu Jitsu Club

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

Tuesdays: Toastmasters

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

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Fang Dong, 871-5362.

Wednesdays: Weight Watchers

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

Wednesdays: Yoga

Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Wednesdays: Ballroom Dance Class

Brookhaven Center, N. Ballroom. Instructor: Giny Rae. New series starts 3/15. See notice, page 3. John Milner, Ext. 3853; Madeline Windsor, Ext. 5069.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.

Fridays: Family Swim Night

5-8 p.m. 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.

BNL Congratulates 41 Employees With Perfect Attendance in 2005



Roger Stoulenburgh 01790306

BNL's annual Perfect Attendance celebration to recognize the full-time employees who have won a Perfect Attendance Award for the previous calendar year was held on March 21. Those of the 41 winners who were able to attend the afternoon event at the Brookhaven Center were welcomed by Compensation Manager Robert Kelly, Human Resources & Occupational Medicine Division. The winners were warmly congratulated by BNL Director Praveen Chaudhari, who thanked the awardees for their dedication and service to the Lab. Each awardee was presented a certificate, a \$200 check, less tax, and a tee-shirt.

The Perfect Attendance Award was first given in 1992, when full-time employees on the technical and clerical schedules were recognized for their attendance during 1991. In 1995, these employees and those from the Paper, Allied-Industrial, Chemical & Energy Workers International were joined in being eligible for the award by BNL employees represented by the International Brotherhood of Electrical Workers. In 1998, members of the Suffolk County Security Police Association in the Safeguards & Security Division also became eligible for the prize.

This year, as previously, many awardees had achieved multiple years of perfect attendance: three were winning for the first time, six for the second time, five for the third, six for the fourth, two for the fifth time, five for the sixth time, two for the seventh time, one for the eighth, four for the ninth, one for the tenth, five for the 11th, and one, Phyllis Tinsley-Smith of the Biology Department, for the 14th time. However, employees who became eligible for the prize after its inception have often served BNL with additional years of perfect attendance that are on record elsewhere.

At the celebration held to honor employees who had won BNL's Perfect Attendance of 2005 Award, Lab Director Praveen Chaudhari (right) greets Maria Feona Singleton of the Plant Engineering Division, four times a Perfect Attendance winner, and her baby Selena. In the background are (from left) Plant Engineering's Andrew Trent, a first-time winner; and Peter Realmuto and Lisa Metz, both six-time winners of the Perfect Attendance Award.

Pictured above are some of the 41 Perfect Attendance 2005 winners. In the following list of all the winners, the number following each name shows the number of times that person has won the award. **Biology Department:** Stuart Myers (3) and Phyllis Tinsley-Smith (14); **Central Fabrication Services Division:** James Bell (7) and Randolph Seibel (11); **Community, Education, Government & Public Affairs Directorate:** Cornelius Jackson (11) and Alex Reben (11); **Emergency Services Division:** Gary Schaum (9); **Information Technology Division:** Ruth Merker (4); **Medical Department:** Danielle Williams (1); **Plant Engineering Division:** Eugene Barrow (2), Warren Booker Jr. (3), Martha Bryant (2), James Callihan (9), Robert Callister Jr. (3), Thomas Crews (10), Linda Farmer (2), Ralph Giordano Jr. (4), Darren Harris (4), Ruth Harris (4), Lawrence Kunzig (3), Richard Lutz (11), Lisa Metz (6), Stephen O'Kula (9), Peter Realmuto (6), Dennis Renahan (6), Fe Singleton (4), Frank Trapani (2), Andrew Trent (1), and Salvatore Zarba (2); **Procurement & Property Management Division:** Eva Esposito (6), Dhruba Ghimiray (9), Lewis Jackson (2), William McPherson (4), Janet Soper (6), Charles Whiting (8), Clarence Wilkins (5), and Shelby Williams (11); **Safeguards & Security Division:** Richard Miraglia (5); **Staff Services Division:** Shirley Ayers (1), Jean Bunselmeyer (3), and Stanley Hanlon (7).



Roger Stoulenburgh 01790306

Elder Law Seminar, 5/25

Join Nancy Burner, former president of the Suffolk County Women's Bar Association and a member of the National Academy of Elder Law Attorneys, on Thursday, May 25, from noon to 1 p.m. in Berkner Hall, Room B, where she will present "The New Deficit Reduction Act: Medicare Part D Prescription Drug, What Else Is New?" Check your mailbox for registration forms. Return completed forms to Michael Thorn, Bldg. 490.

Family Intervention: Alcoholism, 5/11 Teleconference is part of a new EAP pilot program

Register now for the first Employee Assistance Program (EAP) teleconference on "Family Intervention: Alcoholism," which will be held on Thursday, May 11, from noon to 1 p.m. and will be lead by EAP Manager Nancy Losinno.

This pilot program will enable BNLees to call in to the teleconference from the privacy of their own offices while maintaining their confidentiality. Topics to be covered will include: codependency and enabling, the "disease" concept and why it is used in treatment, the difficulties in changing an alcoholic family, an overview of intervention, and treatment options. To register, complete the form that was sent to all employees and return it to Linda DiPierro, Bldg. 490.

For more information, contact Linda DiPierro, Ext. 2733 or dipierro@bnl.gov.

Meditation Talk, Instruction, 5/19

All are invited to attend a free meditation talk and instruction presented by Clinical Psychologist Cheryl Kurash on Friday, May 19, from noon to 1 p.m. in Berkner Hall. Check your mailbox for registration forms. Return completed forms to Michael Thorn, Bldg. 490.

For more information, contact Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

Symposium to Honor Eugene Cronkite, 5/10-12

An international symposium in memory of Eugene P. Cronkite, MD, will be held at Berkner Hall on May 10-12, titled "Pathophysiology & Molecular Biology of Hematopoiesis, Malignancy & Radiation Response." Internationally known and respected as a physician, scientist, scholar, educator and mentor, Cronkite, whose career in BNL's Medical Department spanned 1954 to 1993, received numerous national and international awards.

Topics from his seminal contributions to be discussed at the symposium include: mechanisms of leukemogenesis; management of hematologic malignancies; regulation of lymphohematopoietic cell production; low-dose radiation effects; radiation accidents, bioindicators and treatment options; and stem cell responses and signaling following irradiation.


All are welcome. For more information on registration, see <https://www.bnl.gov/cronkite/>.

CIGNA Healthcare Rep. at BNL, Mondays

Attention CIGNA participants: Janet Petgrave from CIGNA Healthcare will be on site in Human Resources, Bldg. 185, every Monday from 10 a.m. to 3 p.m., to assist you with claims issues, by appointment only. Be sure to bring all pertinent documentation to your meeting. For your 30-minute appointment, call Linda Rundlett in the Benefits Office, Ext. 5126.

BNL Mountain Club Revitalization New members, ideas sought

The BERA Mountain Club is seeking new members and new ideas as they plan new events, such as white-water rafting, hiking, and rock climbing trips. If you are interested in joining, contact mountainclub@bnl.gov.



NSLS/CFN Users' Meeting, 5/15-17

The 2006 Joint NSLS/CFN Users' Meeting will be held at BNL on Monday, May 15, through Wednesday, May 17. This year's theme is "Synergy in Science" to reflect the gathering of presenters and users from both the light source and nanocenter communities.

For more information, go to www.nsls.bnl.gov/users/meeting.

Additional Security Measures

From Len Butera, Interim Manager, Safeguards & Security Division

The Laboratory has received law enforcement and intelligence advisories warning of an increase in communications traffic by suspected terrorist organizations. It is believed this may be an indicator of operational planning and a precursor to malevolent acts.

Although the advisories are non-specific, they do include federal facilities. When we consider ongoing events in the Middle East and continued activities of U.S.-based activist groups known to target research facilities, increased vigilance seems prudent.

As a result, the Lab will be instituting additional security measures, including increased patrols, searches of vehicles, increased parcel searches, additional exercises for our tactical teams, and other actions that may or may not be visible to employees. We would also like to take this opportunity to remind the Lab population to have their ID ready for officers when entering the Lab and to wear their badges at all times on the site.

As always, we appreciate your cooperation and assistance in ensuring the Lab and its employees remain safe and secure.

'EstrogenFactor 5.5'

Cathy Kreger, Marci Geller in Concert, 5/5

An exclusive concert — titled "Estrogen Factor 5.5" — featuring two local musicians, Cathy Kreger and special guest Marci Geller, will be held in Berkner Hall on Friday, May 5, at 8 p.m. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Performing for more than 18 years, Long Island's Cathy Kreger has a loyal fan base throughout the Northeast. Her musical style is a unique combination of adult contemporary and old blues with an alternative folk flair. Her acoustic guitar prowess has been admired and critically acclaimed, and her voice has been characterized as "a warm, rich emotional mirror of her soul." She has opened for and shared the stage with Bonnie Raitt, David Bromberg, and Taj Majal, among other greats.

Marci Geller, also a Long

Island native, will open the show. Geller tours nationally and has performed on "Live! With Regis," "CNN Worldbeat," and "Good Day New York." Her piano-based songs are an intimate peek into her musical diary, which has been called "poetry in motion."

Kreger and Geller will share a stage for the first time in the ten-plus years they have been friends. The two songstresses will explore a range of emotions and experiences through music, offering an eclectic night for all who enjoy contemporary music. The evening will conclude with the two women joining together on stage with Kreger's band, "What it Iz," for a powerful finale to the concert.

Tickets cost \$15 each and can be purchased in advance at the BERA Store in Berkner Hall, www.ticketweb.com, or at the door on the evening of the performance.

Marci Geller (left) and Cathy Kreger



Women in Science Career Day at BNL

Thirty-five female students from three East End high schools — Bridgehampton, Riverhead and Westhampton Beach — attended a career day at BNL, where they learned about careers in science and related technical fields. Funded by Brookhaven Science Associates, the company that manages Brookhaven Lab, the event was coordinated by Brookhaven Women in Science, a Brookhaven Lab-based nonprofit organization that promotes the advancement of women in scientific fields.

The students learned about the world-class research at BNL that has garnered six Nobel

Prizes and led to numerous technologies that have improved everyday life. Among the Lab women employees who addressed the girls were a physicist, a materials scientist, a biologist, engineers, and a science writer. The girls also were treated to tours of BNL's National Synchrotron Light Source, where researchers from around the world use x-rays, ultraviolet light, and infrared light to study materials as diverse as computer chips and viruses; and the Relativistic Heavy Ion Collider, where physicists are discovering what matter was like at the beginning of the universe.



Cathleen Wehrmann (right), a senior staff development specialist at Brookhaven Lab, gave a talk on career planning. She is pictured in the photo with: (from left) Yuly Arias from Bridgehampton High School; Victoria Velazquez, Westhampton Beach High School; and Christina Link, Riverhead High School.

Asian Pacific American Heritage Month Events

In celebration of Asian Pacific American Heritage Month, the BERA Asian Pacific American Association invites BNLers to the following events:

- **Saturday, May 6**
"Haru Matsuri," a Japanese Spring Festival
10 a.m. – 4 p.m., Berkner Hall
See story on page 4
- **Tuesday, May 9**
Philippine Tinikling Bamboo Dance & Demonstration
11:30 a.m. – 2 p.m., Berkner Hall
- **Friday, May 19**
Taipei Folk Dance Theater
7:30 p.m., Berkner Hall
6:30 p.m. Reception
- **Tuesday, May 23**
BERA Martial Art Clubs Expo
Noon, Berkner Hall front lawn (weather permitting) or lobby
- **Friday, May 26**
Korean Movie – "Brotherhood"
7 p.m., Berkner Hall, Room B
- **Tuesday, June 6**
Swami Vidatmananda: Vedanta lecture
4 p.m., Berkner Hall Auditorium

Arrivals & Departures

— Arrivals —
Douglas Gallagher PPM
Hironori Ito Physics
Kirstie Stramler Env. Sci.

— Departures —
Robert Reynolds Env. Sci.

New York Bus Trip

The Hospitality Committee invites all the Lab community to join a bus trip to New York City on Saturday, May 6. Departure will be at 9 a.m. from the Recreation Hall in the apartment area, return from the city at 6 p.m. Reserve with Lisa Yang lisayang@optonline.net, or 878-3937. Pay on Tuesday, May 2, 11-noon at the Recreation Hall. Tickets are: adults, \$10; children 2-12, \$5.

Prepare for Poppy Day, 5/3

On Wednesday, May 3, 11:30 a.m.-1 p.m., in Berkner Hall lobby, BNL retiree Flo O'Brien and other Leisure Knoll residents who are representing the American Legion will give out poppies made by veterans to wear on Memorial Day. Donations collected will be used to benefit veterans. Scarlet poppies, which bloomed in profusion on the World War I battlefields of Flanders, have become a Memorial Day symbol of the sacrifices made by all veterans.

Writing as Therapy, 5/2

Join BNL's Employee Assistance Program Manager Nancy Losinno on Tuesday, May 2, noon-1 p.m. in Berkner Hall, Room B, where she will present "Writing as Therapy: Journaling From the Heart," a talk to include topics such as:

- Talking on paper through journaling
- Life stories and memoirs
- Dealing with the past and painful memories
- Working through procrastination and fear
- Honesty and honoring "Your Story"

Check your mailbox for registration forms. Return completed form to Linda DiPierro, Bldg. 490/OMC or dipierro@bnl.gov.

Golfers Wanted for BERA Golf League

Get golfing! The BERA Golf League is looking for new members. Contact Jeff Williams, Ext. 5587 or jwilliams@bnl.gov for information, or visit <http://www.bnl.gov/bera/activities/golf/>.

CALENDAR

(continued)

— THIS WEEKEND —

Saturday, 4/29

*Concert to Honor Norm Prusslin
6 p.m., Berkner Hall. \$10 minimum donation per ticket. See story on page 2.

— WEEK OF 5/1 —

Tuesday, 5/2

*Talk on Writing as Therapy
Noon-1 p.m. Berkner Hall, Room B. Employee Assistance Program Manager Nancy Losinno will present "Writing as Therapy: Journaling From the Heart." All are welcome. See notice below, left.

Talk: Science on National Agenda
3:30 p.m. Large Seminar Room, Physics, Bldg. 510. Talk of Lab-wide interest, "Science on the National Agenda: The Road Back," by Michael Lubell, City College of New York Physics Department and Director of Public Affairs for the American Physics Society. All are welcome.

Wednesday, 5/3

*Support Poppy Day
11:30 a.m.-1 p.m. Berkner Hall Lobby. Donations to benefit all veterans will be collected by BNL retiree Flo O'Brien and other Leisure Knoll residents who represent the American Legion. Poppies, made by veterans, will be given out to wear on Memorial Day.

Thursday, 5/4

*BSA Distinguished Lecture
4 p.m. Berkner Hall. Horst Stormer, co-winner of the 1998 Nobel Prize in Physics, will talk on "When the Electron Falls Apart . . . and What to Do with the Pieces." Sponsored by BSA, the lecture is free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID. See page 1.

Friday, 5/5

'EstrogenFactor 5.5' Concert
8 p.m. Berkner Hall. Sponsored by the BNL Music Club, local musicians Cathy Kreger and Marci Geller will perform. Tickets, \$15 each, are available at the BERA Store. See article, below, left.

Saturday, 5/6

*Hospitality Bus Trip to NYC
9 a.m. Depart from Recreation Hall, return from New York City at 6 p.m. See below, left.

*Japanese Spring Festival

10 a.m.-4 p.m. Berkner Hall. Haru Matsuri Spring Festival in honor of Asian Pacific American Heritage month. Tickets, adults, \$10, children 5-12, \$5, at the BERA Store. See page 4.

— WEEK OF 5/8 —

Tuesday, 5/9

Philippine Tinikling Bamboo Dance
11:30 a.m.-2 p.m. Berkner Hall. Demonstration in honor of Asian Pacific American Heritage month. All are welcome.

— WEEK OF 6/5 —

Tuesday, 6/6

Retirees' Get-Together Lunch
Noon-4 p.m. Bellport Country Club. Good food, prizes, surprises, and entertainment. Watch The Bulletin, BREA Newsletter and visit www.brea.bnl.gov for details.

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Enter information for each event in the order listed above (date, event name, description, and cost) and send it to bulletin@bnl.gov. Write "Bulletin Calendar" in the subject line.

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

TB6000. PLUMBER A (Temporary Assignment) - Under minimum supervision lays out, constructs or installs, repairs, and maintains water and gas distribution systems, related facilities and auxiliary equipment and equipment utilizing water, gas and heat distribution services. Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

MK3421. POSTDOCTORAL RESEARCH ASSOCIATE (reposting) - Ph.D. in chemistry, physics, biology, material science or related field. Experience is required in one of the following fields: self-assembling in biological and synthetic nano-systems; DNA mediated interactions; peptide-DNA complexes; DNA micromechanics; soft-matter interfaces; nano-fluidics; single-molecular analysis/manipulation; colloids. Technical hands-on experience in one of the following areas is highly desirable: scanning probe techniques; x-ray/light scattering; electron microscopy; optical methods for single molecular studies; biochemical methods. The interdisciplinary research program, with the Center for Functional Nanomaterials (CFN), is focused on the understanding the fundamentals and development methods for assembling complex bio-inorganic nano-systems using bio-inspired principles. CFN offers interdisciplinary scientific environment, access to the state of the art nanofabrication and characterization facilities at BNL and close collaborations with the Biology, Physics, Material Science, National Synchrotron Light Source Departments, Center for Functional Nanomaterials.

Motor Vehicles & Supplies

04 HONDA SPORTRAX 250EX ATV - red, semi-a/t, 5-sp. w/rvse, shaft dr., <50 hours use, \$2,800. Ext. 7237 or 929-6571.

04 FORD F350 LARIAT - dsl crewcab, 8' bed, liner, cap, fact. warr., every option. 26K mi. \$33,500/neg. Richard, 835-8309.

03 CROSSROADS CRUISER 5TH WHEEL - single slide out, 2 bdrms., one w/bunks, loaded, must sell. \$22,000/neg. 874-0404.

01 LINCOLN LS - 4dr., loaded, 5cd, heated lthr seats, dual temp controls, s/roof, alarm, excel. 50K mi. \$15,000/neg. 871-0561.

99 NISSAN SENTRA GXE - 1.6L 4cyl. a/t, a/c, p/s, p/w, p/l, t/w, c/c, more, 110K mi. \$3,500. '99 Toyota Corolla CE - 1.8L, a/t, a/c, p/s, p/w, p/l, c/c, more, 85K mi. \$5,000. Leavag U.S. Igors, Ext. 5627 or 682-3553.

99 HYUNDAI ELANTRA GLS - 4cyl, 2L, 135 h.p., 5spd man., a/c, air bags, some dmege to hood. 65K mi. \$3,000/neg. tonko@bnl.gov.

97 MITSUBISHI DIAMANTE LS - 4-dr. sedan, 3.5L V6, a/t, a/c, p/w, p/b, cd, all opts, clean, 70K mi. \$5,000/neg. Fred, Ext. 3498.

97 MERCURY COUGAR - pearl-white w/gray lthr. int., V6, m/roof, all pwr., all opts, excel. cond. 107K mi. \$4,500. Ext. 5665.

95 FORD WINDSTAR - 6cyl, a/t, dual a/c, p/b, abs, p/s, p/l, p/w, am/fm/cass, roof rack, good cond. 98K mi. \$2,550. Ext. 3294.

94 FORD F-150XL - 4x4, abs, am/fm, a/t, auto lckg. hubs, tow pkg., never on beach, 126K mi. \$4,300/neg. Ext. 7197 or 580-2940.

89 MERCURY SABLE GS - V6 a/t, fwd., all options, garaged, clean, orig. owner. 47K mi. \$1,200. Bill, 395-9610.

85 HONDA MADNA - VF 700C, 6sp, clean, bags, new tires (500 miles), 36K mi. \$1,500/neg. Victor, Ext. 2271.

PICKUP CAP - 8' white fiberglass, came off a 1995 Ford pickup, excel. cond. \$300obo. Ext. 4843 or 727-6714.

TONNO - Extang 8' full-size bed, \$80; 98 Silverado slide over tow mirrors, \$20. Walter, Ext. 4958.

Boats & Marine Supplies

16' CANOE, OLD TOWN DISCOVERY - w/paddles, red, great cond. \$350. James, Ext. 7079 or 849-3390.

21' SEASWIRL STRIPER DUAL CONSOLE - '03 w/Volvo 270 I/O, <25 hrs., warr., trlr., DF, FF, GPS, full canvas, extras. \$29,000/neg. Joe, 987-4281.

25' TIARA PURSUIT 2550 - 1986 walk around w/1991 Yamaha 250-Radar, VHF, GPS/Loran, DF, new top, full enclosure, trailer. \$25,000. 495-2286.

27' PEARSON P27 - 1988, furter, wheel, diesel, wing keel, aft cabin, H/C H2O. VG cond. \$17,900/neg. Ext. 2788.

8' FIBERGLASS DINGY - w/oars, used 1 season. \$300. 689-9234.

KAYAK - 2 person w/rudder, 2 paddles and kayak caddy. \$750. 886-1591 eves.

Furnishings & Appliances

BABY'S ITEMS - Graco swing, Graco bassinet, Pottery Barn chg. tbl., Pereg high chair, more. 258-4607.

DINING TABLE - Ikea, round, expandable, solid wood, like new. \$100. Ext. 3319.

FURNITURE - dining room table, chairs, living room wall unit, teen bedroom set, like new, best offer. Ext. 5287.

REFRIGERATOR - white Frigidaire, 18.2 cu. ft., orig. \$599, 3 yrs. old, \$200. Chris, Ext. 2094 or 929-5008.

RELOCATION SALE - d/r set, glass top w/pedestal, 4 fabric chairs \$200; leather loveseat, \$250; computer desk, \$65. Jerald, Ext. 3988 or 897-2266.

TODDLER BED, MATTRESS - wood, sleigh bed, mattress hardly used. \$100. Can be sold separately. Mary, Ext. 3670.

VACUUM CLEANER - Dirt Devil, upright canister, bagless, like new \$50. Ext. 3319.

Audio, Video & Computers

AUDIO MULTI-EFFECTS PROCESSOR - Digitech Studio S200 rack mountable digital effects processor, excel. cond, ask \$150. Stephen, Ext. 2897.

CAR STEREO - Pioneer, 50W/channel, CDR/R-W/MP3/WMA playback, satellite/ipod comp., OEL display/screensaver, \$200. Laura, Ext. 7842 or 434-5824.

CAT 5 CONNECTORS - 8 conductor network connector (ethernet) RJ45. pack of 20. \$10. Doug, Ext. 4555.

MS OFFICE XP - V2002, new, sealed, Word, Excel, Outlook, Publisher, Small Business Tool. \$50 firm. Don, Ext. 7237 or 929-6571.

MUSIC SHAREDWARE BOOK AND CD - Wizzoo "Top Shareware" book and CD-ROM with about 30 software titles great for a home studio, \$7. Ext. 3621.

PLAYSTATION 1 - w/controller, game and memory card, \$35. Chris, Ext. 2094 or 929-5008.

PLAYSTATION 1 - w/controller, game and memory card, \$35. Chris, Ext. 2094.

TELEVISION - Hitachi, 51" 4 yrs. old, Dolby surround sound, great picture \$800. Jerald, Ext. 3988 or 897-2266.

TV - Toshiba, 19 inch, color, factory sealed in box, best reasonable offer. Sal, Ext. 3749.

Sports, Hobbies & Pets

FISH TANK - 10 gal., complete w/filter, pump, heater \$10. Robin, 744-3902.

JEWELRY - handcrafted, one-of-a-kind lampwork pendants, crystal, glass & semi-precious stones. wearable art. 291-2039.

LAB MIX - 10-yr-old female needs caring family. Loving, well behaved, vacc. housebroken, Adele, Ext. 7842 or 646-539-1720.

SKI BOOTS - Salomon size 11; Nordica 11.5 \$30 each. Ben, 513-8275.

SKIS - Head 190cm w/Tyrolia bindings, \$35; Hart Gremlin 150 w/Tyrolia, \$15. 513-8275.

TENT - Coleman Mountaineer dome, new in box, 3-4 person, WeatherTec system, 8'x8' pics avail. \$40. Ext. 7237 or 929-6571.

Tools, House & Garden

DEHUMIDIFIER - Sears, excel. cond., auto shut off. Joe, Ext. 3783 or 929-8821.

SCAG LAWNMOWER - 32" blade, walk behind. \$2000. Mary, Ext. 3670.

Miscellaneous

DOUBLE STROLLER - good cond. \$50. Chris, Ext. 2094 or 929-5008.

LUGGAGE - rolling duffel w/attached drop bottom zippered suitcase, 36" black, new, unused. 1/2 price \$35. Ext. 3973.

MAMMA MIA TICKETS - 2 tickets for show in NYC on 5/14 at 2 p.m., orch. seating paid \$111.25, sell for \$78. Donna, Ext. 2826.

MOVING SALE - bike, \$30; wahsing machine, \$100; printer, \$10; new fax machine, \$50. Ext. 2559.

POWER SCOOTER - 300 lb. cap., built-in batt. charger, front basket, can holder, used 3 times, ask, \$1,100. Kathy, 981-5993.

TICKETS - 4 tickets for Mamma Mia in NYC, 5/31, 2 p.m., orchestra seats. \$76.25 ea. Susan, Ext. 7427.

WEDDING GOWN - white, satin, Victorian style w/headpiece, size 4/6, \$90/obo. Bill, 395-9610.

Yard & Garage Sales

LAKE PANAMOKA / RIDGE - 4/29. 9 a.m.-5 p.m.; 4/30 10 a.m.-4 p.m.; toys, baby's, tools, household, 56 Iroquois Trail. 929-0917.

Free

CATS - 3 cats for adoption, need loving home, very friendly, can go together or separately. Eileen, 516-486-3703.

FREEZER - stand-alone freezer, not frost free, you pick up. Donna, Ext. 2826.

HOOKED ON PHONICS - book, flash cards & cassettes. Ext. 2492.

OUTDOOR KIDS CASTLE - vg cond., you pick up. Judy, Ext. 5263 or 744-2545.

RUG - 12 x 18, bound, med. plush nylon, light beige, pad incl., gd. cond. 475-5543.

Wanted

AGGREGATE - stone, crushed concrete, crumbled asphalt, etc., for driveway. Shane, Ext. 7235 or 345-0063.

AIR CONDITIONER - window type. Ext. 6236.

BOAT WINDSHIELD/BIMINI - in good shape for 19' boat. Sue, Ext. 7235 or 399-7997.

DONATIONS - for M.I. Soup Kitchen; send tax deductible checks payable to "Thee Island INN" to B. Royce Bldg 134C. Barbara, Ext. 2098.

FIREARMS - old or new, pay fair price. Joe, Ext. 3783 or 929-8321.

PENDOODLE - Person who built Pendoodle exhibit for Science Museum. Susan, Ext. 5461.

PLANTS / ORNAMENTAL GRASSES - perennials - if you have cuttings or are dividing. Chris, Ext. 5090.

POOL FILTER - for 18', 7,500-gal. pool, can be either sand or earth, must be in excel. cond. Bob, 467-5853.

TREADMILL - good cond., reasonably priced. Karen, 289-6285.

VOLUNTEERS - The Elementary School Science Fair needs judges and admin help on 5/13. Susan, Ext. 5461 or ssears@bnl.gov.

Lost & Found

FOUND: KEYS - in guest house, keys w/a nautical knot key chain. Ext. 5090.

FOUND: BICYCLE HELMET - pick up at gas station. Ext. 4034.

For Rent

EAST MORICHES - new, 1-bdrm., grd-level apt., l/r, full kit. & bath, hdwd. flrs., cing. fans, cac, heat/own them., cable, util. inc., pvt. ent. \$965 single, couple \$985/mo. 878-5798.

FARMINGVILLE - 1 lg. bdrm. in house, share bath w/1, full kit., elec incl., avail. 4/1. \$450/mo. Ben, 513-8275.

MILLER PLACE - share lg. furn. non smkg. Colonial house in prof. resid. area, backyard deck, internet, cac, tv cable, own w/w 14x12 bdrm. 10 mi. to BNL. \$675/mo. 744-8386.

RIDGE - 1 lg. studio, bright & warm, w/full bath, priv. ent. and fenced garden, house apart from owner, park in drway, quiet & safe n'hood. \$700/mo. Zhen, 821-0859.

SHOREHAM - summer rental (June, July, August) 3-bdrm. ranch, 1 bath, l/r, den, kit., washer/dryer, 1-car gar., lg. yard, utilities extra. \$1,800/mo. 258-4607.

WADING RIVER - 1-bdrm. house. partially furnished, no pets/smkg., utilities extra. \$900/mo. Liz or Jim, 744-7798.

WADING RIVER - 2 bdrm., eik, lg. l/r., lg. den, lg. deck, pvt. pkg., no kids/pets/smkg. util. extra. \$1,500/mo. 928-9328.

YAPHANK - 2 bdrm., l/r, kit., full bath, lg. yd., + util \$1,000/mo. 436-6357.

YAPHANK - 2 bdrm., l/r, kit., full bath, cable, lg. yd. \$1,100/mo. 495-7853.

For Sale

CENTEREACH - 4-yr-old Center Hall Colonial, 5 bdrm., 2-1/2 baths, eik, great room, d/r, finished bsmt., f/p, 1st flr laundry, 20 min to Lab and 5 min to SBU. \$509,990. Phyllis, 981-2471.

EAST QUOGUE - new 2/2 condo upper unit, 1-car gar., sr. commy., cust closets, 42" cabinets, tiled baths, cac, maint free, low comm. chgs/taxes, excel. cond. \$629,900/neg. 723-0770.

MASTIC - 3-bdrm., 1-bath ranch, l/r, new kit., new appliances, new vinyl siding, wood floors, wood burning stove, full bsmt., new windows, Florida rm. \$284,900/neg. 804-9603.

MILLER PLACE - 1-bdrm. co-op, 1 bath, kit, l/r, d/r, low monthly fees, incl. maintenance, taxes and water. \$175,000 828-2335.

PORT JEFFERSON - historic Victorian in ctr. village, 4 bdrm., 2 bath, 2-1/2 gas f/p, d/r, renov. eik, pool, waterfall views, attic, gas heat, cac. \$759,000/neg. 804-4662.

PORT JEFFERSON STA. - hi-ranch, mint+, 3 bdrm., 2 bath, updated kit, l/r, windows, office, fully renovated bath, new roof (w/warranty), great location, \$419,999/neg. Milind, Ext. 3327 or 331-6725.

SHOREHAM - north of 25A, updated L-ranch, 5 bdrm, 3 baths, lg. fam. rm. w/fp, eik, d/r, l/r, all wood flrs., fin. bsmt. w/2 bdrm, 1 full bath, summer kit., more. \$435,000 lila, 849-2984.

SHOREHAM - Dutch Colonial, 4 bdrm., 2 bath., d/r, l/r, lg. fam. rm., wood flrs., new lg. kit., new appliances, 1-car gar., igp, fenced yrd, family neighborhood. \$510,000/neg. 258-4607.

YAPHANK - 2-bdrm., birch, end-unit condo, attached gar., cac, f/p, pvt. extended patio, new appliances & hot water heater. \$318,500/neg. 345-2672 after 6:30 p.m.

On-Site Services

ENTERPRISE RENT-A-CAR - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see www.enterprise.com.

VEHICLE SERVICING - The Lab's on-site service station offers oil changes, check-ups, NYS inspections, new batteries, tires, timing belts, repairs, etc., while you are at work. Ext. 4034.

Music Club Benefit Concert Tomorrow, 4/29 To Honor WUSB.FM Radio Manager Norm Prusslin

The BNL Music Club will sponsor a benefit concert to honor the career of Norm Prusslin, the founding father of the non-commercial college radio station WUSB 90.1 FM, which is broadcast from the Stony Brook University campus. The concert, which is open to the public, will be held in Berkner Hall on Saturday, April 29, 6 p.m.-midnight. Visitors age 16 and over must bring a photo ID.

Prusslin is stepping down from his position as general manager of the radio station after 29 years of service. An eclectic group of performers will lend their talents at this benefit show, performing bluegrass, blues, reggae, jazz, rock, and alternative music. The performers include: Kerry Kearney, Lil'Toby Walker, Buddy Merriam, Sam Taylor, Jack Licetra, The Others, Jimmy Dexter, John Tabacco, Mary Anne Devine, John Ford of the Strawbs, T-Man and the Aggression, The Center for Hearing and Dizziness, The New Suffolk Blues Project, Mike Soloway, Ted Schreiber, Parrhesia, and special guests. Past and present WUSB radio personalities will be on hand to regale the audience with their best "Norm" stories.

Tickets can be purchased in advance at the BERA Store, www.ticketweb.com, or at the door on the evening of the performance. No seats are reserved. The minimum ticket price is \$10, with \$25, \$50, and \$90.10 tickets offered for those who wish to make an additional donation to WUSB.FM. All proceeds from the concert will be donated to WUSB.FM. Donations are tax-deductible.

Haru Matsuri: A Japanese-American Friendship Spring Festival

A Japanese-American Friendship Spring Festival will be held on Saturday, May 6, 10 a.m.-4 p.m., in Berkner Hall. This program is made possible in part with grants from the New York State Council of the Arts and the Huntington Arts Council. Sponsored by the Lab's Asian Pacific American Association in collaboration with Ryu Shu Kan of Farmingville and the Unitarian Universalist Fellowship of Huntington, the festival will be held in honor of Asian Pacific American Heritage Month. The event is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

The festival welcomes spring to Long Island with the exciting sounds of traditional Japanese taiko drums, lively Japanese folk dance and music, and a variety of Japanese cultural activities for children and adults. Beginning with the thunder of the Ryu Shu Taiko ensemble, along with the beauty and elegance of the seldom seen Okinawan Royal Court Dance, the festival continues with martial arts demonstrations, including the Okinawan life protection art of *Oyata Ryu Te*; Japanese *kendo*, or fencing; *tameshigiri*, a sword art; and a rare demonstration of the donning of a complete set of 17th century Samurai armor.

Exhibits will include a display from the Greater New York Bonsai Society, Japanese ink painting, calligraphy, flower arrangements, embroidery, and Haiku poetry. Children's activities will include origami, dressing in a Japanese kimono, interactive story telling, and the re-enactment of the "Drums of Noto Hanto," a creative exploration of Japanese history, music and art by members of Ryu Shu Taiko. Everyone will be able to partake in a Japanese tea ceremony, called *Cha No Yu*, and listen to a Japanese chamber music concert of *koto*, a Japanese string instrument, and *shakuhachi*, a Japanese flute.

Tickets are: adults, \$10; children age 5-12, \$5; and children under 5, free. Buy tickets at the BERA Store, Berkner Hall, weekdays, 9 a.m.-3 p.m., or at the door of the event.

For more information about this event, call Ext. 3347, see also page 3 for other Asian Pacific American Heritage Month events.

Elementary School Science Fair Needs Volunteers

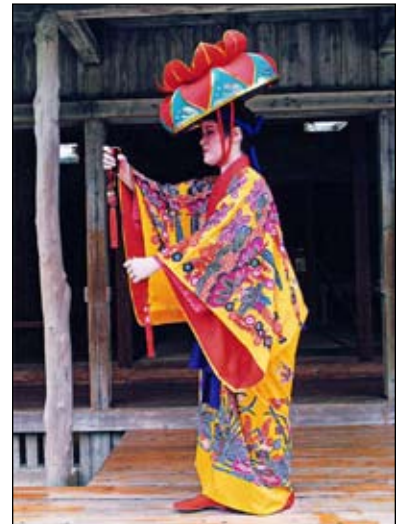
BNL's Elementary School Science Fair will be held on Saturday, May 13. This yearly event takes place only because of all the Lab volunteers who generously give their time and effort to the program. Scientific, engineering, and technical personnel are urgently needed to work with Suffolk County teachers as part of judging teams and administrative personnel. Family members and scouts or community service students are also urgently needed to help with registration and in aiding the students in setting up their projects.

Runners and registrars are needed from about 8 a.m. to 11 a.m.; judges, 10:30 a.m. to 1:30 p.m.; and award presentation and clean-up help, 2 to 4 p.m.

To volunteer, contact Susan Sears, Ext. 5461, ssears@bnl.gov.



Norm Prusslin (Image courtesy of Media Services Photography/Stony Brook University)



Junko Nagahama-Fisher performs the Okinawan Royal Court Dance.