

## Carbon Nanotubes With Big Possibilities

James Misewich, Materials Science Department Chair, working with colleagues at the IBM T.J. Watson Research Center and BNL, has caused an individual carbon nanotube to emit light for the first time. This step in research on carbon nanotubes, funded by DOE's Office of Basic Energy Sciences within the Office of Science, may help to materialize many of the proposed applications for carbon nanotubes, such as in electronics and photonics development.

The light emission is the result of a process called "electron-hole recombination." By running an electric current through a carbon nanotube — a long, hollow cylindrical molecule that is only one and a half nanometers (a billionth of a

meter) in diameter — negatively charged electrons in the nanotube molecule combine with positively charged "holes," which are locations in the molecule where electrons are missing. When an electron fills a hole, it emits a photon — a tiny burst of light.

Researchers working with Misewich included: Richard Martel, University of Montreal; Phaeton Avouris, Jim Tsang, and Marcus Freitag, all of IBM T.J. Watson; and, from BNL, Aaron Stein, Center for Functional Nanomaterials, and John Warren, Instrumentation Division.

"We produced infrared light by applying voltages to a specific type of nanotube such that many electrons and holes end up in the nanotube, where they combine.

This makes the nanotube the world's smallest electrically controllable light emitter," said Misewich. "It's an exciting result, and my colleagues and I plan to continue studying the effect to determine the mechanisms behind it. For example, we hope to understand how to make the nanotubes emit other types of light, such as visible light, and how to increase the efficiency of the emission."

Carbon nanotubes do not yet have any mainstream practical applications, but researchers are investigating ways to use them in flat-panel displays, such as televisions and computer monitors, or as reinforcements in building materials, due to their exceptional mechanical strength.



James Misewich

Roger Stoutenburg D01-40304

Misewich also suggested that, if additional research leads to an increased efficiency of nanotube light emission, the nanotubes could possibly be used in lighting applications.

Misewich presented this

research in the "Optoelectronics in Nanoscale Devices" session at the March 2004 meeting of the American Physical Society, held at the *Palais de Congrès*, Montreal, Canada.

— Laura Mgrdichian

### Promoting Nonproliferation Through Science Cooperation:

## ISTC Scientific Advisory Committee Meets at BNL

The importance of safeguarding nuclear, chemical, and biological weapons worldwide has been long recognized by the U.S. Government, and BNL has played a strong role in giving technical advice in this area since the late 1960s. Established in 2000, the Lab's Nonproliferation & National Security Department (NNSD), with support from several staff members in other BNL departments, focuses on this work.

One key aspect of nonproliferation is to provide non-defense scientific work for former weapons scientists. Several U.S. and international programs concentrate on this effort, including the Initiatives for Proliferation Prevention and Nuclear Cities Initiative programs of DOE, the Science and Technology Center of Ukraine, and the International Science & Technology Center (ISTC). Upendra Rohatgi of BNL's Energy, Environment and National Security Directorate was appointed a senior science advisor to nonproliferation programs of the U.S. Department of State (USDS) and a member of the ISTC's Scientific Advisory Committee (SAC) in April 2002, and this year, January 28-30, he hosted a meeting of the SAC at BNL.

Rohatgi explained that the ISTC is an organization founded in 1992 by the European Union, Japan, Russia and the U.S. to promote the nonproliferation of weapons technology by providing opportunities for weapons scientists to direct their talents towards peaceful science.



Pictured during the meeting of the International Science & Technology Center's (ISTC) Scientific Advisory Committee (SAC), hosted at BNL in January by SAC member Upendra Rohatgi of BNL's Energy, Environment & National Security Directorate and the U.S. Department of State are: (from left) Mark Scheland, U.S. Department of State; Jean-Pierre Contzen, SAC, European Union (EU); Yutaka Murakami, SAC, Japan; Yasushi Seki, SAC Chair, Japan; Galina Smirnova, ISTC; Rohatgi; Ekaterina Pankratova, ISTC; Nereida Santiago, BNL; Alain Pempidou, SAC, EU; Steven Gitomer, SAC, USA; Eugeny Avrorin, SAC, Russia; Bill Bhaneja, Department of Foreign Affairs & International Trade, Canada; and Uwe Meyer, ISTC. Not present was Yuri Trutnev, SAC, Russia.

Roger Stoutenburg D08-02004

"The eight SAC members, two from each founding country, provide expert scientific evaluation of project proposals, determine new directions for project activity, and evaluate ongoing projects for the ISTC," said Rohatgi. "We meet three times a year. Twice in former Soviet countries and once outside in member countries."

At the recent SAC meeting, Lab Director Praveen Chaudhari and NNSD Chair Joseph Indusi welcomed the committee to BNL, and another address was given by Mark Scheland, Deputy Coordinator of the Science Centers Program in the USDS Bureau of Nonproliferation. This year, the meeting focussed on several issues including 121 proposals from different technical areas, the report from last year's ISTC meeting on the

scientific seminars on a broad range of current science and technology topics to foster contacts and new collaborations between Russian and other scientists and stimulate new ISTC projects. The 2004 SAC seminar in Ekaterinburg, Russia, will be on "Scientific Advances in Chemistry: Catalysis and Polymers as Driving Forces."

The success of the ISTC's work has resulted in several other countries' joining the organization, for example, Norway in 1997 and the Republic of Korea in 1998, and most recently, Armenia, Belarus, Georgia, Kazakhstan, the Kyrgyz Republic, Tajikistan, and Canada. The next meeting, for which Rohatgi is presently preparing, will be held in Moscow in May.

— Liz Seubert

## James Abbott Named SSD Manager

James Abbott, former Deputy Police Commissioner for the Suffolk County Police Department, was named Manager of BNL's Safeguards & Security Division, effective March 1.

The mission of the Safeguards & Security Division is to protect BNL's property against theft, misappropriation, or destruction and to prevent the sabotage of programs that could result in significant scientific or financial impact. The division's duties include preventing the malevolent release of hazardous materials that could endanger employees, the public, and the environment.

"I'm grateful to be given the opportunity to challenge myself and to be associated with Brookhaven National Laboratory," Abbott said. "The Laboratory has a highly trained, effective security force. I will do my best to maintain the Lab's high standards in this area and to continually seek improvements, as needed."

Abbott's first order of business will be to get to know the mission of the Lab so that his division can work most effectively with employees and guests. Over the long term, he plans to ensure that BNL has an adequate security staff and that it is managed effectively. Further,

he would like his staff to take part in more cross training so that all members can carry out diverse duties. Abbott plans to invite the FBI and Suffolk County Police Department to enhance training of BNL's security officers. Abbott will also work towards modernizing site access control points to enhance security and improve efficiency.

James Abbott earned a B.A. in English from Iona College, in 1965, and an M.A. in public administration from Long Island University, in 1974. He started his career as a New York City police officer in 1965, and, in 1971, he joined the FBI, becoming a supervisory special agent in the Undercover & Sensitive Operations Unit. He directed all aspects of undercover operational support, including investigations focusing on terrorists, organized crime, white-collar crime, narcotics, and violent crime. He was undercover coordinator for the FBI's New York office, and he was a lecturer in the FBI Academy. In 1998, Abbott became Deputy Police Commissioner with the Suffolk County Police Department, a position he held until he came to BNL.

— Diane Greenberg



James Abbott

Roger Stoutenburg D08-03004

## Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (\*) have an accompanying story in this week's Bulletin.

### — EACH WEEK —

#### Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See [www.bnl.gov/esol/schedule.html](http://www.bnl.gov/esol/schedule.html) for schedule. Jen Lynch, Ext. 4894.

#### Monday: 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/).

#### 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).

### BNL Celebrates Asian Pacific American Heritage Month This April

Visit the poster display with the "Photographic Meditations on the NY Chinese Scholar's Garden," exhibit in Berkner Hall lobby.

### — THIS WEEKEND —

#### Today, Friday, 4/9

##### \*Talk by Sunita Mukhi, SBU Wang Ctr.

Noon, Berkner Hall. The BERA Asian Pacific American Association will sponsor a lecture to be given by Sunita Mukhi, Director, Stony Brook University Wang Center. See also page 3.

#### Saturday, 4/10

##### \*Hospitality Committee Egg Hunt

11 a.m., Recreation Hall. All are welcome to the Easter Egg Hunt and other activities. Each child should bring 15 plastic eggs filled with soft candy, and parents, bring a dessert to share. Monique de la Beij, 399-7656.

## Congratulations, 2003 Spotlight Winners



For extending extraordinary efforts in response to the needs of their departments or divisions, the following BNL employees, including those pictured above, were honored during fiscal year 2003 by Spotlight Awards. Each winner is awarded a certificate and a check ranging from \$100 to \$900 before taxes. Winners have been listed under the names of departments or divisions in which they served at the time of their award.

**Biology Department:** Frank Kito, Denise Robertson, and Richard Sautkulis; **Budget Office:** Srinivasan Iyer, Rita Kito, and Robert Lake; **Business Systems Division:** Toni Hoffmann; **Chemistry Department:** Donald Warner; **Collider-Accelerator Department:** Michael Bannon, John Barry, Cyrus Biscardi, Paul Callegari, Mary Campbell, Martin Candito Jr., Matthew Ceglia, Robert Edwards, Michael Hamilton, Robert Karl, David Kipp, Alfred Mack, Paul Mickaliger, Frank Naase, Humberto Palacios, Stephen Pontieri, Dysart Ravenhall Jr., Craig Rhein, Joseph Saetta, Steven Savatter, Carl Skrzec Sr., Joseph Sullivan, Robert Todd, Charles Trabocchi, Victor Usack, Lawrence Vogt, Donald Von Lintig Jr., John White Jr., Daniel Wilson, Thomas Wozniak, and Stanley Yakaboski Jr.; **Community, Education, Government & Public Affairs Directorate:** Barbara Blenn, Gail Donoghue, Elaine Lowenstein, and Kathleen Nasta; **Deputy Director for Operations:** Sharon Jones and Lois Marascia; **Energy, Environment & National Security Directorate:** Robert Doty, Claire Lamberti, and Bonnie Sherwood; **Energy Sciences & Technology Department:** Cheryl Conrad and Charles Finrock; **Environmental Restoration Division:** Susan Foster and Stephen Klerk; **Environmental Sciences Department:** Thomas Roberts; **Environmental Services Division:** Richard Lagattolla, Lawrence Lettieri, Robert Metz, Carlee Ogeka, Jason Remien, and Carol Rooney; **Facilities & Operations Directorate:** Bridget Geib and John Hynan; **Finance & Administration Directorate:** Robert Barone; **Fiscal Services Division:** Charlotte Buck, Barbara Fridrich, Rosalie Lawrence, and Margherita Pirozzi; **Human Resources & Occupational Medicine Division:** Peter Esposito, Elizabeth Gilbert, Diana Hubert, Mary Anne McGrath, Gail O'Hern, and Cathleen Wehrmann; **Information Services Division:** Catherine Green,

Kathryn Lancaster, and Lisa Willi; **Information Technology Division:** Alonzo Werner Jr., Tameka Carter, Donald Gates, Chris Masullo, James McManus, Ruth Merker, Aimée Sumereau, and Christopher Weaver; **Instrumentation Division:** Raymond Dumont; **Legal Office:** Carmen Alvarado; **Life Sciences Directorate:** Robert Colichio; **Medical Department:** Magalie Bruneus and Christopher Harris; **National Synchrotron Light Source Department:** John Burke, Brian Kushner, William Newburgh, Gary Nintzel, and Jack Tallent Jr.; **Nonproliferation & National Security Department:** Letesha Smith; **Physics Department:** Linda Feierabend, Karl Kusche, William Licciardi, Christine Madonia, Elizabeth Mogavero, and Kathleen Tuohy; **Plant Engineering Division:** Philip Baker Jr., Thomas Baldwin, William Bockelmann, William Guthrie, Kenneth Kentoffio, Keith Radich, and Abass Wessen; **Procurement & Property Management Division:** Philip Gardner and Donna King; **Radiological Control Division:** Carol Bell, Christopher Cacace, Gregory Condemi, Elizabeth Ginty, Guy Hartsough, Tyler Rovig, Geraldine Townsend, and Stephen Townsend; **Safety & Health Services Division:** Tracy Blydenburgh, Kenneth Erickson, Robert Petricek, and Amalia Singledecker; **Safeguards & Security Division:** Thomas Gilbert, Melinda Markstaller, and Richard Rossetti; **Staff Services Division:** Ruth Comas, Joann Giambalvo, and Vera Meier; **Standards Based Management Systems Office:** Peggy Sutherland; **Superconducting Magnet Division:** Joseph D'Ambra, Joseph Gormley, Robert Hoade, Dean Ince, Glenn Jochen, John McNeil, Paul Philipsberg, Francis Skidmore, Edward Sperry IV, James Stolfi, Frank Teich, Thomas Van Winckel, Edward Weigand, and Alonzo Werner Jr.; **Waste Management Division:** Lenny Campione, Francine Donnelly, Edward Gavin, Clayton Hamilton, Gary Olsen, Leo Palumbo, and Edward Richards.

### Peconic, Graphite Reactor: Plans Take Shape

The U.S. Department of Energy (DOE), U.S. Environmental Protection Agency, New York State Department of Environmental Conservation, and Suffolk County Department of Health Services have been meeting regularly to develop cleanup plans for off-site portions of the Peconic River and the Brookhaven Graphite Research Reactor. Discussions with regulators at the staff level have led to draft proposed remedial actions for these projects.

BNL and DOE will next look for agreement from regulators at the senior management levels.

Once the regulators review and comment on the draft alternatives and all comments are incorporated or resolved, the documents will be submitted to DOE and the regulators for approval. In coming months, the internal community and the public will have opportunities to comment on plans for both of these projects. These comments will be considered before any plan is finalized.

Additional information on the cleanup plans for these two projects is available on the Lab's internal home page - <http://intranet.bnl.gov>.

### You Are Invited:

#### Scharff-Goldhaber Prize Ceremony, 4/21

The BNL community and faculty members and graduate students of the Department of Physics, Stony Brook University (SBU), are invited by Brookhaven Women in Science (BWIS) to the award ceremony and reception for the 2004 Gertrude Scharff-Goldhaber Prize.

On Wednesday, April 21, at 3 p.m., in the Large Seminar Room of the Physics Department, Bldg. 510, BNL Distinguished Scientist Maurice Goldhaber will present the award to Mirna Lerotic, SBU. Lerotic, who will give a short seminar on her research, will be introduced by her thesis advi-

sor Chris Jacobsen, a professor at SBU. Refreshments will follow the presentation.

Established in 1992, the annual Gertrude Scharff-Goldhaber Prize recognizes substantial promise and accomplishment by a woman graduate student in physics. Administered by BWIS, the prize honors the outstanding contributions of the late nuclear physicist Gertrude Scharff-Goldhaber, who, in 1950, became the first woman Ph.D. physicist appointed to the BNL staff, and, later, a founding member of BWIS.

For more information, contact Vinita Ghosh, Ext. 6226.

### Can You Spare a Can?

The BNL Food Drive can use your donation to help hungry neighbors on Long Island. Please give generously.

### 'Islands of the Pacific' Show, 4/24 Polynesian Dancing, Japanese Drumming

"Islands of the Pacific," a special event to celebrate National Asian Pacific American Heritage Month, will be held on Saturday, April 24, at 7 p.m. in Berkner Hall. The public is invited to the event, which will feature the Aloha Iolani Hawaiian Dance Troupe and Japanese drumming group Ryu Shu Taiko. All visitors to the Lab age 16 and over must bring a photo ID.

Founded by Olivia Iolani Meyers, the South Huntington, N.Y.-based Aloha Iolani Hawaiian Dance Troupe will perform Polynesian dancing from Hawaii, Tahiti, New Zealand, and the Philippines.

In 1998, Gerard Senese founded Ryu Shu Taiko, which is based in the karate studio of Ryu Shu Kan in Farmingville, N.Y. The group is composed of children and adult karate students who have made their own taiko drums out of Long Island wine barrels. Their performance is an exciting blend of martial arts, folk dance, and drumming.

Tickets cost \$10 each for adults, and \$5 each for children and students who present a student ID. Buy them at the door or in advance at the BERA Sales Office, 9 a.m.-3 p.m. For more information, call (631) 344-7988.



## In Memoriam

Dorothy Metz, who had arrived in BNL's Personnel Division as a clerk B on May 23, 1955 and had moved to Staff Services in 1956, becoming Assistant Manager in 1982, died on November 18, 2003, at the age of 78. She had retired on March 8, 1991. In 1996, with her husband, Donald Metz, who had retired as head of BNL's Office of Educational Programs in 1993, she had established the Gorman-Metz scholarship for students with disabilities, now administered by BNL's Diversity Office.

Phillip Borzi, who had joined the Lab as a stockroom and warehouse clerk A on March 24, 1947, had risen to Materiel Manager by 1967, and had moved to the Director's Office as Executive Assistant by 1982, died at age 84 on January 14, 2004. He had retired on January 31, 1984.

Virginia Stewart of the Physics Department, who, after 25 years of service to the Lab, had left on long-term disability which ended on November 26, 2003, died on April 1, 2004. She was 61. She had joined the Department of Applied Science as an office services assistant on February 15, 1977, moved to Physics a month later, then rose through the ranks to Senior Budget Specialist.

A memorial service for Virginia Stewart will be held at 10:30 a.m., Wednesday, April 14, at the Bayport United Methodist Church, 482 Middle Road, Bayport, tel. 472-0770. Friends who wish to send donations are asked to send to South Fork Breast Health Coalition, c/o Susie Roden, 35 Farmstead Lane, Watermill, NY 11976.

### Book Fair, 4/20, 21

BERA will sponsor a "Books Are Fun" book fair in Berkner Hall on Tuesday and Wednesday, April 20, 21, 10 a.m. -2 p.m.

Prices are reported to be "fair"-ly low, selection fairly high — all are invited to come and check for themselves!

### Women's History Month at BNL: Recap

During March, staff of the Diversity Office and the BNL Women's Program Advisory Committee

helped celebrate Women's History Month. Among other events, Suffolk County Legislator Vivian Vilorio-Fisher (far left), seen with Sol Rosario of the Diversity Office, gave a lecture in Berkner Hall on March 10, highlighting the historical difficulties women have faced in society.

In addition, CDs from four country singers were raffled. The raffle winners were: Robin Koebel, Heather Okula, Tina Youngmann, and Mary Heinrich.

Also, on March 15, online registration began at [www.fewntp.org](http://www.fewntp.org) for the upcoming Federally Employed Women's 35th NTP in Opryland, from July 19-23, 2004, Nashville, TN, Music City USA. At present, 20 BNL women are registered. All are welcome.



### Suffolk County's Crisis/Suicide Hotline Needs Volunteers — Training Provided



Since 1971, RESPONSE of Suffolk County's 24-hour crisis intervention and suicide prevention hotline has been calming crises during the day and throughout the night.

Susan Foster, with other BNL volunteers, has been working with RESPONSE for several years. "We hear from the battered wife, the abused elderly, the lost teen, the desperate, the suicidal, and everyone else with nowhere to turn . . . these people are your friends and neighbors in Suffolk County," says Foster. "Volunteers at RESPONSE find this effort totally worthwhile, and we welcome the help of new RESPONSE members."

RESPONSE is currently enrolling individuals who are willing to volunteer their time — four hours per week — for an upcoming extensive professional training program. The training covers suicide prevention, substance abuse prevention, eldercare, child abuse prevention, domestic violence, and other timely topics. Training begins May 18. Individuals interested in learning more about RESPONSE may contact Susan Foster, Ext. 2888, or RESPONSE at 751-7500.

The BNL efforts on behalf of RESPONSE are sponsored by BSA's Volunteers in Partnership (VIP) program. VIP can help BNL community volunteers in a variety of ways. For more information, see [www.bnl.gov/community/vip/](http://www.bnl.gov/community/vip/).

### Take Daughters, Sons to Work Day, 4/22

On Thursday, April 22, Lab community parents are invited to bring their children of ages 10 to 15 to the Lab to participate in Take our Daughters and Sons to Work Day, a national event sponsored by the Ms. Foundation for Women. To register, fill in the form sent to all employees, and return it to Susan Foster, Bldg. 185. Contact Foster at Ext. 2888 or [foster@bnl.gov](mailto:foster@bnl.gov).

### Gym Locker Audit, 4/15

There will be a gym locker audit on Thursday, April 15. Locker users are asked to remove their locks if they are not actively using the gym or pool facilities. Lockers must be registered with the Recreation attendant, Monday-Friday 3-9 p.m., or by calling Ext. 2873.

## BERA Board Election Results



Roger Stoutenburgh 00270304

Deborah Keating

Deborah Keating of the Procurement & Property Management Division, and Lisa Zimmerman of the Medical Department, have been elected to the Executive Board of the Brookhaven Employees Recreation Association (BERA), replacing outgoing Board President, Laurie Pearl, Information Technology Division, and Thomas Dilgen, Superconducting Magnet Division. They will serve four-year terms, May 2004 through April 2008.



Roger Stoutenburgh 00270304

Lisa Zimmerman

## Arrivals & Departures

### Arrivals

- James Folk ..... Plant Eng.
- Kab Seok Kang ..... EENS
- Terri La Grega ..... FSD
- Zhenping Liu ..... Physics
- Joseph Summers ..... Plant Eng.
- Xin Zhao ..... Physics
- Jie Zhang ..... Chemistry

### Departures

- Robert Gaschott ..... RP
- Peggy Micca ..... Medical
- Regina Shea ..... Biology
- Thomas Shea ..... Physics

## Finding Asia in America

### APAA Sponsors Wang Center Director Talk, 4/9

Today, Friday, April 9, at noon in Berkner Hall, all are welcome to a talk by Sunita Mukhi, Director of the Charles B. Wang Center at Stony Brook University. Sponsored by the BERA Asian Pacific American Association (APAA), this free talk on "Finding Asia in America — A Personal Journey," is open to the public. Visitors to the Lab age 16 and over must carry a photo ID.

## Potluck Dinner Party & Dance Social, 4/16

Four different BNL groups: the BNL Social & Cultural Club, the BERA Asian Pacific American Association, the English for Speakers of Other Languages, and the BNL Ballroom Dance Club are sponsoring a potluck dinner party and dance social on Friday, April 16, to celebrate, in advance, the Asian Pacific American Heritage Month in May. The schedule will be as follows:

**Potluck Dinner:** 5:30-8:30 p.m. The potluck and recipe exchange will be at the Recreation Hall. Admission is free, but you should bring enough food to feed five or six people. If you have a special recipe, make it and share with others. But if you have no time to cook, bring fast food instead. The idea is to mingle, socialize, and have fun!

**Enjoy Two Dance Floors:** After dinner, there will be general dancing at the North Ballroom in the Brookhaven Center, 7:30-12 midnight, with live music by the band "ACCENT," playing disco, freestyle, hustle, etc. The band performance starts at 8 p.m., with DJ music in between sets. In addition, there will be DJ music for ballroom, Latin, and swing dancing in the South Room.

Dancing admission: \$8; cash bar at the Center Bar until 11 p.m. For more information, contact Rudy Alforque, [rudy@bnl.gov](mailto:rudy@bnl.gov) or Ext. 4733, or visit [www2.bnl.gov/rudy/social](http://www2.bnl.gov/rudy/social).

## ANS Meeting, 4/16

### James Powell to speak on nuclear thermal propulsion

At the next meeting of the Long Island Chapter of the American Nuclear Society (LIANS), the speaker, James Powell, retired BNL Senior Nuclear Engineer, will talk on "Nuclear Thermal Propulsion — A Necessity for the Exploration of Mars and Europa." Powell will be introduced by Arland "Red" Carston.

The meeting will be held on Friday, April 16, at the Brick House Brewery and Restaurant in Patchogue. Appetizers will be served at 6 p.m., and dinner at 7 p.m. Powell's talk will begin at 8 p.m. Make reservations by Monday, April 12, by calling Arnie Aronson, Ext. 2606, and leaving a voice message.

## Children's Summer Camp, Swim Lessons

This summer, BNL summer camp and swimming lessons will again be offered to children living on site, as well as a limited number of children from the employee, facility user, and guest community living off the BNL site.

A separate session of swimming lessons only will also be offered, open to the children of all employees, facility users, and the guest community, as well as the grandchildren of retirees, space permitting.

Information and applications for the eight-week programs are available on the BERA home page under "forms," at the BERA Sales Office in Berkner Hall, or in the Quality of Life/BERA Recreation Office in Bldg. 179B.

## Calendar

(continued)

— WEEK OF 4/12 —

### Tuesday, 4/13

#### \*Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. See notice on page 4. Contact Susan Foster, Ext. 2888 or [donate.blood@bnl.gov](mailto:donate.blood@bnl.gov).

#### Delta Technical Systems Demo

10 a.m.-2 p.m., Berkner Hall. Delta Technical Systems, Inc. will present BNLers with their complete line of industrial automation equipment, with high-performance control and data acquisition systems. Thomas Estilow, 215-957-0600, Ext. 3019 (not the on-site Ext. 3019).

#### Foundations of Estate Planning

Noon, Berkner Hall. TIAA-CREF talk on "Foundations of Estate Planning." All are welcome to this free recital, sponsored by BSA. See also page 4.

### Wednesday, 4/14

#### \*Noon Recital, Stony Brook Opera

Noon, Berkner Hall. David Lawton with members of the Baroque Ensemble perform highlights from Handel's *Agrippina*. All are welcome to this free recital, sponsored by BSA. See also page 4.

#### Rifle & Pistol Club Meeting

Noon, Conference Room, Bldg. 535. All are welcome. For more information, contact Jim Durnan, Ext. 8236; Rich Conte, Ext. 5741; or [www.bnl.gov/bera/activities/rpc/](http://www.bnl.gov/bera/activities/rpc/).

### Friday, 4/16

#### \*Women In Concert

7:30 p.m., Berkner Hall. Sponsored by the BERA Music Club, with host Yvette Malavet-Blum, a cabaret singer who works at BNL. Tickets are \$12. See page 4.

#### APAA Dinner & Dance Social

5:30-8:30 p.m., Recreation Hall. The BERA Asian Pacific American Association (APAA) will hold a potluck dinner. Dinner is free, but bring a dish to share for six people.

8 p.m.-midnight, Brookhaven Center. The APAA dance social. \$8 per person. Live band music by "ACCENT." See notice at left.

— WEEK OF 4/19 —

### Wednesday, 4/21

#### Brookhaven Lecture

4 p.m. Berkner Hall. Hong Ma, Physics Department, will talk on the ATLAS detector, title to be announced.

### Thursday, 4/22

#### \*Take Daughters, Sons to Work Day

See notice, above, left.

— WEEK OF 4/26 —

### Monday, 4/26

#### IBEW Meeting

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

*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](mailto:bulletin@bnl.gov). Write "Bulletin Calendar" in the subject line.*

## New BNL Film Series Kicks Off 5/6

The BNL Music Club announces the "BNL Film Series," showing classic and avant-garde films monthly at 7:30 p.m. in Berkner Hall. The shows will be open to the public.

The first film, on May 6, will be *The Howlin' Wolf Story — The Secret History of Rock & Roll*, a critically acclaimed documentary on the life of blues innovator, Howlin' Wolf, (Chester Arthur Burnett). Also featured will be live interviews with Hubert Sumlin, Howlin' Wolf's 20-year collaborator; and Joe Lauro, film producer and archivist, and a musician in his own right, who will provide the film.

Tickets will be \$5 and available at the door. For more information, call Ext. 3846.

## BREA Get-Together Luncheon, 5/27



Michael Herbert 0010701

All BNL retirees are invited to attend the second Brookhaven Retired Employees Association (BREA) Get-Together Luncheon, from noon to 4 p.m. on Thursday, May 27, at Villa Lombardi's, 877 Main Street, Holbrook. Visit <http://www.villalombardis.com>.

Come and reminisce about old times, current issues, grandchildren, and vacations while enjoying a generous and spectacular buffet feast, with live entertainment to dance and listen to. The cost of this BREA-subsidized treat is \$30 per person — in advance.

Current BREA members will be sent an invitation. Non-members, visit the BREA web page at [www.brea.bnl.gov](http://www.brea.bnl.gov) or complete and return the form below (on extra paper if it is too small). All paid reservations must be received by May 14. The BREA committee and your friends and acquaintances are looking forward to seeing you there.

**BREA Get-together Luncheon Reservation Form 2004**

Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Spouse/Guest Names: \_\_\_\_\_

Amount Enclosed: \_\_\_\_\_ Please check one: member  non-member

Make checks payable to: BREA  
Mail to: BREA, Bldg. 479C, P.O. Box 5000, Upton, NY 11973-5000  
For questions or special needs - call: 631-344-3316 - email: [flack@bnl.gov](mailto:flack@bnl.gov)

## Please Give Blood — the Gift of Life BNL Blood Drive Next Tuesday, 4/13

"Why do you give blood? How did you start?" were questions posed last year to several regular BNL blood donors by Susan Foster, Employee Relations Manager in the Human Resources & Occupational Medicine Division and BNL's blood-drive coordinator. Among those who replied were:

Luis Nieves: I give blood because it gives me satisfaction in knowing that I will help someone improve their health and live a better and longer life. The first time I gave blood was back in the military in 1977. Although it wasn't required, it was expected of everyone to do so. But it was a great choice.



Sylvia Mouzakes: Why do I give blood? It's the gift of life. In my family, as soon as you turned 18, you started. I encourage my children to keep up this giving tradition.



BNL will hold a blood drive on Tuesday, April 13, 9:30 a.m.-3 p.m. in the Brookhaven Center. People in good health between the ages of 17 and 75, weighing at least 110 pounds, may give blood.

However, the Food and Drug Administration does not allow people who have traveled to or lived in Europe for a cumulative period of five years or more since 1980 or who have lived or traveled in Great Britain for three months or more from 1980-1996 to donate blood. This is to insure protection in the U.S. against variant Creutzfeldt-Jakob Disease (commonly called Mad Cow Disease). Donors need photo ID and social security number. To donate, contact Susan Foster at Ext. 2888 or donateblood@bnl.gov, with your name, phone extension, and best time for an appointment.

## Office Supply Swap, 4/21

As part of the Lab's Earth Week celebrations, the Fifth Annual Office Supply Swap will be held on Wednesday, April 21, 11:30 a.m.-1:30 p.m. in Berkner Hall lobby.

Springclean your offices and supply closets of items no longer used, but still in good condition, then bring them to Berkner on 4/21 to donate to the event. Bring paper, pens, calculators, binders, staplers, 3-hole punches, computer-related accessories, etc. Bar-coded items cannot be accepted. If you have nothing to bring, you may still take any item you want, for free.

For more information, call Francine Donnelly, Ext. 3381, or Beth Blevins, Ext. 6033.

## Enter Earth Day Run, 4/17

BNL will host its fifth annual 4-mile Earth Day Run on site on Saturday, April 17, at 9:30 a.m. Walkers are also welcome for the same fee as runners. Children 12 and under are invited to participate in a free one-half-mile Fun Run at 10:30 a.m. Race day registration/check-in will be held 7:30 a.m.-9:15 a.m. in Berkner Hall. All entry fees from the 4-mile run will benefit Long Island Cares, Inc., a regional food bank. All visitors to the Lab age 16 and older are required to bring a photo ID to be admitted on site.

Download entry applications from [www.bnl.gov/eday](http://www.bnl.gov/eday), or call Ext. 5660. Register before April 12 for a fee of \$18, discounted to \$15 with the donation of a nonperishable food item for the food bank. After April 12, the fee is \$21, or \$18 with a nonperishable food item. Make checks payable to BSA and send application forms to: Peter Pohlot, Bldg. 130.

## BERA Golf League Now Accepting Applications

The BERA Golf League is now accepting applications for the 2004 season. For more information, contact Jeff Williams, Ext. 5587, or [jwilliams@bnl.gov](mailto:jwilliams@bnl.gov).

## Pilates Classes 4/23

BNL's new pilates class will begin on Friday, April 23, and run for eight consecutive weeks on Fridays from 7 to 8 a.m. in the gym at a cost of \$60 for eight weeks.

Advanced registration is required. Send checks, made payable to BERA, to Christine Carter, Bldg. 179B. For more information, contact Carter at Ext. 5090.



## 'Women in Concert,' 4/16

Three popular female singers — BNL's own Yvette-Malavet-Blum of the Director's Office, who is also a cabaret singer who has performed in Manhattan and Long Island, as well as here at the Lab; singer-songwriter Robin Greenstein, and singer, songwriter, and guitarist Cathy Kreger — will perform in "Women in Concert," in Berkner Hall on Friday, April 16, at 7:30 p.m. Sponsored by the BNL Music Club, the concert will be open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Tickets for the concert cost \$12 each and may be purchased at the door, or in advance at the BERA Sales Office on weekdays, from 9 a.m. to 3 p.m.

## BSA Noon Recital, 4/14

### Opera Scenes from Handel's *Agrippina*

Several scenes from the opera *Agrippina* will be performed on Wednesday, April 14, at noon in Berkner Hall. All are welcome to this BSA Recital, which is free and open to the public. Visitors to the Lab of 16 and over must carry a photo ID.

*Agrippina's* premier in Venice in 1709 was such an enormous success that it played for 27 performances on successive nights, and had several important revivals elsewhere in Europe during Handel's lifetime. Modern revivals across the U.S. have had rave reviews.

The opera takes place during the reign of the Emperor Claudius (41-54 A.D.), and is concerned primarily with the intrigues of Claudius' second wife Agrippina to ensure that her son Nero is named successor to the Imperial throne. Handel authority Winton Dean has written: "for sheer freshness of musical invention, and Handel's obvious delight in exploring the opportunities for dramatic irony presented by a set of two-faced characters and a cunningly devised plot, *Agrippina* has few rivals."



The BNL performance will be semi-staged, with 7 vocalists, 5 string players, oboe, theorbo, and harpsichord. David Lawton will discuss the individual excerpts and their significance to the operatic plot. On Friday April 16, at 8 p.m., and Sunday April 18, at 2 p.m., the Stony Brook Opera and the Stony Brook Symphony Orchestra will present a fully staged production of *Agrippina* at the Staller Center for the Arts at Stony Brook.

## Classified Advertisements

**OPEN RECRUITMENT** — Opportunities for Laboratory employees and outside candidates. MK4139. SCIENTIFIC STAFF POSITION — Requires a Ph.D., demonstrated leadership and innovation in collider physics analysis, at least three years' experience beyond the Ph.D. (more senior candidates will be considered), and knowledge of experimental high-energy physics. Experience with hadron collider analysis is preferred. The research will focus on the software development leading toward physics analysis of the ATLAS experiment. Brookhaven National Laboratory has a leading role in ATLAS liquid argon calorimetry, the muon spectrometer, software, and is the location of the U.S. Tier 1 computing facility. Will work with staff to develop the capability for physics analysis. Under the direction of H. Gordon, Physics Department. NS3147. SR. TECHNOLOGY ARCHITECT (I-10) — Requires a bachelor's degree in computer engineering or physical science, an advanced degree (MS or Ph.D.) in computer engineering, physics or mathematics is highly desirable. Fifteen years' related experience including computer support, cluster development and shared memory architecture computers is also required. Will lead the IT development for the Center for Functional Nanomaterials (CFN) and in particular the theory and modeling facility. Will work with BNL's Information Technology Division to design the computer networks and capabilities for the CFN, support the use of scientific code on existing computation systems for the CFN user program and internal research and lead in the development of the computer support system. Center for Functional Nanomaterials. NS8537. APPLICATIONS ENGINEER (I-6, reposting) — Requires a bachelor's degree in computer science, information technology, electrical engineering technology, or closely related field and at least three years' experience with instrumentation and

control applications. Knowledge of and experience with common electrical instrumentation, programming languages such as C, Fortran, and PLC languages (ladder logic, flow charting, etc.) and programming of applications and user interfaces on Vax and PLC systems required. Excellent oral and written communication skills also required. Experience with cryogenic instrumentation, software packages CRISP and Indusoft WebStudio, as well as RTP and Square D PLC hardware highly preferred. Responsibilities will include developing computer applications and interfaces for a large cryogenic facility, documenting control system information and procedures, and supporting operations of the facility from an instrumentation and controls point of view. Collider-Accelerator Department.

### Motor Vehicles & Supplies

02 HARLEY - 883XL, 2K mi., factory maint., hooker pipes, 6" risers, mini back rest, custom pegs, hand grips, more, \$7,500. 921-8137. 01 MITSUBISHI GALANT GTZ - a/t, a/c, p/s, p/b, p/w, loaded w/sunroof & anti-theft, 19K mi., \$13,700. Gene, 226-8090. 01 VW PASSAT GLX - a/t, a/c, pw, V6, navy blue w/tan heated seats, moonroof, cd, 56K mi., \$16,000. Chris, 472-3113. 99 FORD RANGER - a/t, a/c, p/s, p/b, long bed w/cap, 99K mi., \$4,000. Ronald, Ext. 2189 or 281-6630. 99 SATURN SL2 - a/t, a/c, p/s, p/b, p/w, sunroof, new brakes, alarm, great cond., 101K hwy. mi., \$5,100/neg. Lisa, Ext. 7524. 99 TOYOTA SIENNA XLE - a/c, all pwr., am/fm/cd/cass. abs, alloys, 7pass, leather, excel 95K mi., \$11,000. John, 475-5543. 97 HONDA CIVIC - 5spd, a/c, p/s, am/fm/cass, 50-disc cd, 194K mi., must see. \$3,900, Dave, Ext. 2795 or 582-9405. 96 CHRYSLER CIRRUS LXI - a/t, a/c, p/s, p/b, p/w, c/c, leather, pwr. seat, keyless ent., alarm, 65K mi., \$4,000. Ext. 7132 or 793-4568. 95 CHEVY CAVALIER - a/t, a/c, 2dr., new brakes & tires, orig. owner, non smkr., gared, excel., 111K mi., \$2,600. 642-7442.

95 MERCURY GRAND MARQUIS - a/t, a/c, p/s, p/b, p/w, loaded, white/blue leather int., 84K mi., ask \$7,500. Ext. 3271 or 395-3168. 95 PLYMOUTH VOYAGER - a/t, a/c, p/s, p/b, p/w, 6cyl., airbags, am/fm/cass, new brakes, struts, 95K mi., \$3,699. 758-8725. 95 SATURN SLI - 5spd., a/c, pwr. sunroof, dark blue, all serv. records, runs well, Carfax certified, 158K mi., \$1,400. David, 258-6087. 94 JEEP GRAND CHEROKEE LTD - leather, tow pkg., new tires, brakes, extras, mint, \$4,700/neg. Joann, Ext. 7459 or 929-1981. 93 CHRYSLER VAN T&C - leather, new tires, brakes, runs well, \$2,000; utility home made 2-wheel trailer, \$200. 924-6751. 91 FORD E-250 VAN - new battery, starter, & rebuilt tranny, ladder racks, shelves, runs well, \$500. Rich, Ext. 5319. 87 MERCURY GRAND MARQUIS - a/t, a/c, p/s, p/b, p/w, well maint., runs well, all pwr., high mi., needs batt., ask \$650. 399-3098. 78 CHEVY STEPSIDE PICKUP - a/t, 350 eng., 4-barrel carb, headers, dual exhst., 75% restored, 30K mi., \$4,500. John, Ext. 7625. GM RALLY WHEELS - (2) 15X8" W/285/60, dot/Drug tires, mint cond., \$250/firm. Mike, Ext. 7081 or 929-5502. TIRES - 2-P195-65/R15, 20K mi. on 50K mi. rating, vgd. cond., \$40/both. Bob, 737-1786. TIRES - BFGoodrich - 235-60/R15, hardly used, \$40/both. Rich, 472-4377.

### Boats & Marine Supplies

23' LARSON HAMPTON 235 - '97, 5.7 Volvo Penta, 240 hrs, Cobra SX, outdrive, swim plat., encl. head, \$17,500. Kevin, Ext. 4639. 22' CRUISER, INC. BARNEGIT - '87 w/ trailer, rebt. Chevy 350 I/O, new parts, rebuilt outdrive, \$7,000/neg. 516-798-2599. Tools, House & Garden CHAIN LINK FENCE - 230', blk. vinyl, 6'h, two 4' gates, 1 yr. old, excel. cond., make offer. Ed, 807-9916. FLOOR TILE - ceramic 12x12, beige, new in box, 200 sq. ft., \$100. Tony, 298-1932.

LAWN MOWER - 30" Toro riding mower w/ sharp blade, rear-pull fertilizer spreader & extra blade, \$500/both/obo. 369-3721. OIL BURNER VACUUM - soot, commercial, Mastercraft, dolly, hoses, extra new wire brushes & bags, mint. \$150. 878-8967. POOL - 12' Intex Easy-Set, 3 yrs. old, excel. cond., incl. pump, ladder, skimmer & cover, \$150. Lynn, Ext. 7918 or 821-1271. Furnishings & Appliances DRYER - Roper, elec. clothes dryer, xl cap., gd. cond., \$125 neg. Greg, Ext. 7810. FREEZER - Blue Ribbon, full size, 40 yrs. old, works well. John, Ext. 4028. MICROWAVE & STOVE - GE Profile microwave & gas stove like new, ask \$600. Leroy, Ext. 5105 or 286-1615. REFRIGERATOR - GE Profile, side by side, almond, frost free, 8 yrs. old, excel. cond., \$175. Celeste, Ext. 2551. TABLES - antique, w/leather top, \$20/ea.; ashwood cabinet w/raised Asian design, \$45. Nancy, Ext. 4303. Sports, Hobbies & Pets FISHING POLE - Surfcast, 11', 2pc., \$45. Jeff, 821-6867. GOLF BALLS - clean, used, \$15 per hundred. Pete, Ext. 5114. GOLF CLUBS - Wilson, 1200 golf set, 3-PW, 1-3-5 Woods, Putter & Golf Bag, excel. cond., \$200. Peter, Ext. 5282. WEIGHT BENCH - w/leg & arm attachments & extra weights, \$50. John, Ext. 5100. Lost & Found LOST - engagement ring, gold baguette, high stone diamond, Tiffany style. Carol, 284-3387. Audio, Video & Computer CAMERA - Canon AE, 35mm w/telescopic lens, case, excel. cond., \$75. Jeff, 821-6867. COLOR PRINTER - brand new in box, Lexmark Z705, \$50. John, Ext. 4028.

WORD PROCESSOR - Brother, excel. cond., dictionary & grammar check, \$35. Al, Ext. 7859. Miscellaneous RED BRICKS - approx. 1,500, clean, not used, price/neg. Mauro. 265-6542. TICKETS - Mets, Tues. & Fri. home games, loge section 5, row G, two seats per game, face value. Rodney, 751-7023. UNIQUE PIÑATAS - all occasions & characters, cartoon, Disney, Sesame Street. Donna, 821-0359. Free BICYCLE - women's English w/3 gears, tires, need replacing, incl. tire pump. Gar, Ext. 4387. WASHER & GAS DRYER - both GE, almond color & extra lg., washer heavy duty, gd. cond., 13 yrs. old. Ian, Ext. 7589. Community Involvement Raffle tickets for sale to benefit the Leukemia & Lymphoma Society. Great prizes! \$10 ea. or 6/\$50. I am still trying to raise the needed \$1,000. Please help! I will gladly come to you. Anna, Ext. 7132 or 793-4551. The Long Island ScienCenter announces its First Annual Golf Classic, 5/21 at the Swan Lake Golf Club. Peter, Ext. 7687 or 744-1112. DONATIONS NEEDED - new, unwanted items, baskets, & empty coffee cans w/lids, for fundraiser for 5-year-old Krystal Schmitt, who has a rare cancer. JoAnn, 878-8263. Wanted BICYCLE TRAILER - to support sm. child, needs to be towed from back of bicycle. Pat, 473-8426. DINGHY - Optimist dinghy needed for beginning racer, Paul, Ext. 7577. LAWN ROLLER - any cond. John, 744-5867. RESEARCH VOLUNTEERS - men and women who smoke cigarettes, ages 18 and over, are needed for PET study. Strictly confidential, fee provided. 344-5015.