

## Counterterror Technologies: On Target at Brookhaven

*This briefing describes research presented at the 226th meeting of the American Chemical Society, September 7-11, in New York City.*

Researchers at BNL are developing counterterrorism technologies to help protect the United States from would-be terrorists wielding nuclear weapons, dirty bombs, toxic chemicals, or explosives.

"These sensor technologies give us the capability to discern and identify minute quantities of radioactive materials, and also detect chemical and biological agents and explosives," said Ralph James, BNL's Associate Director for Energy, Environment, & National Security. "When deployed at the nation's ports, bridges, tunnels, and transportation hubs, these sensors can help law enforcement agencies intercept dangerous materials before they are used in a terrorist attack."

Current technologies under development include:

- **Large-volume xenon-based detectors:** These xenon-gas-filled detectors are room-temperature devices that can detect and identify radioisotopes with great sensitivity.
- **Thermal neutron camera:** This highly sensitive helium-based imaging system uses a wire chamber and coded aperture to "see" fissionable radioactive materials like plutonium from a distance.
- **Mini-Raman LIDAR chemical sensor:** This one-of-a-kind portable chemical sensor can locate and identify chemicals — like those used in nerve gas — in the air or deposited on surfaces from a safe distance, using laser-scattering patterns to identify a substance's distinct chemical signature.
- **Cadmium-zinc-telluride sensors:** These tiny sensors can detect gamma rays emitted by radionuclides of interest to terrorists, including cesium and cobalt. Unlike high-purity germanium detectors, which are expensive and must be kept chilled, these work at room temperature and are inexpensive.
- **Urban Shield:** This initiative would integrate real-time data from a network of sensors distributed within a municipal area. This network would employ an array of meteorological instrumentation, satellite data, and detectors to identify and help track chemicals or radionuclides after a release, and provide crucial information to emergency responders.

James discussed this work during the "Environmental Radioactivity and Low-Background Radioactivity Monitoring in Service to the Society" session at the American Chemical Society's September meeting. This work is primarily funded by DOE's National Nuclear Security Administration.

— Peter Genzer

### Homeland Security Technology Showcase, 11/24

A homeland security technology showcase, hosted by U.S. Representative Steve Israel, will be held on Monday, November 24, 10 a.m.-2 p.m., in Berkner Hall, at which the first three BNL technologies listed above will be exhibited. All are welcome to attend.

## After 11 Years, NYS Section of APS Holds Physics Symposium at BNL



Joseph Rubino D0411103

The 87th Topical Symposium of the New York State Section of the American Physical Society (APS) on "Particle Accelerator Frontiers and New Physics Potentials" was held at BNL Berkner Auditorium on October 17 and 18.

Organized by Zohreh Parsa of the BNL Physics Department, the meeting was attended by more than 200 registered participants from New York State, neighboring states and overseas. There were also 62 student attendees including 23 cadets

from West Point Military Academy accompanied by their physics instructor.

At the symposium, distinguished speakers from across the U.S. and abroad gave presentations covering major projects and forefront plans for the physics of the coming decades.

BNL's featured projects included new light sources such as the National Synchrotron Light Source II, achievements at the Relativistic Heavy Ion

## DOE's Office of Science Director Orbach Shares Views of 20-Year Science Outlook

After spending a full day participating in the November 17 on-site institutional review of BNL programs, Raymond Orbach, Director of DOE's Office of Science, spoke to a group of approximately 85 local business leaders and community members about DOE's 20-year outlook for new science facilities.

"We have worked hard, and the scientific community has worked hard, to come up with a roadmap for the next 20 years," said Orbach during the Monday evening event in Berkner Hall. "It has been an exciting process."

The 20-year outlook was unveiled by Secretary of Energy Spencer Abraham during a National Press Club luncheon last week in Washington, D.C. While three BNL-based facilities are on the list, including the National Synchrotron Light Source-II (NSLS-II) and two additions to the Relativistic Heavy Ion Collider, known as RHIC II and eRHIC, Orbach said it is likely that BNL will play a role in 10 of the 28 projects overall.

"The quality of this Laboratory is, internationally, on the highest level," he said. "It is an asset, not just to the United States, but truly for the world, and it's a great pleasure for me to help the Laboratory as much as I can."

The theme of Orbach's talk had carried through the day's earlier meetings as well.

"This is a different site visit from those we've had before," said Orbach. "The purpose of this

visit was to talk about the future of the Laboratory. Where is Brookhaven going to be three years from now, five years from now, 10 years from now, and on out into the future."

Orbach praised BNL's "extraordinary" work in areas such as biology and medical imaging and at facilities including RHIC, the Alternating Gradient Synchrotron, and the NSLS, and recognized the relationship Brookhaven has built with the local community. He closed by reminding the group of the value of the work that goes on at DOE's national laboratories.

— Peter Genzer



Raymond Orbach, Director of DOE's Office of Science

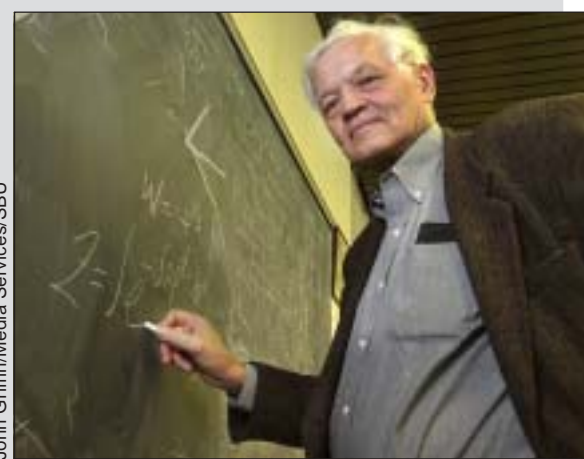
Roger Stoutenburgh D1081103

## BNL's CDIC Director James Glimm Wins National Medal of Science

James Glimm, Director of the Center for Data Intensive Computing (CDIC) at BNL, was one of eight U.S. scientists and engineers named by President Bush as a recipient of the 2002 National Medal of Science, the nation's highest honor for lifetime achievement in scientific research. The CDIC is managed by BNL in affiliation with Stony Brook University (SBU), and Glimm is also Chair of the Department of Applied Mathematics at SBU.

Glimm was honored with the other winners at a White House ceremony on November 6. He was recognized for his contributions to mathematics including quantum field theory, shock waves in fluids, and scientific computing.

"Science for me is the ultimate adventure of the human mind," Glimm said. "I am deeply honored by this recognition for my research spanning multiple areas of pure and applied mathematics, theoretical physics, and computation."



John Griffin/Media Services/SBU

### BNL's CDIC At Work

Under Glimm and BNL's James Davenport, CDIC Associate Director, the CDIC contributes to advanced scientific computing in numerous areas, from physics, biology and

(continued on page 2)

Collider, and the Large Hadron Collider (LHC).

Two highlights of the program described new BNL-based initiatives: John Sculli of New York University presented plans for the muon-to-electron conversion experiment, MECO, which will probe charged lepton flavor conservation well over 1,000 times more precisely than is currently possible, and BNL's William Marciano discussed "Future Neutrino Physics" and very

long baseline neutrino oscillation studies using a neutrino superbeam. A baseline of some 2,500 kilometers, for instance, BNL to the Homestake mine — used by the Lab's Raymond Davis for his Nobel prize-winning work on solar neutrinos — would allow an experiment to probe all neutrino-mixing parameters.

Another highlight was the presentation by Albrecht Wagner, Director General of DESY, Germany, describing

plans for a global project to build a high-energy electron-positron linear collider, which would build upon, complement, and extend the LHC program.

As Peter Paul, Deputy BNL Director for Science & Technology, noted in the November 3 Monday Memo, "Zohreh was instrumental in bringing this meeting to BNL (statistically, the APS only meets at the Lab once every 11 years or so) and she organized a truly successful event." (continued on page 2)



Calendar of Laboratory Events

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

— EACH WEEK —

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

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

**Mon., Tues., & Thurs.: Kickboxing**  
\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Christine Carter, Ext. 2873.

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

**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. Christine Carter, Ext. 2873.

**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. Suzanne Surrow, 476-6610.

**Wednesdays: Farmer's Market**  
11:30 a.m.-1:30 p.m., Berkner Hall parking lot

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

**Wednesdays: Yoga Practice**  
Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206.

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

**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).

— THIS WEEKEND —

Saturday, 11/22

**\*Thanksgiving Potluck Dinner**  
5:30 p.m. in the Recreation Hall in the apartment area. All BNLeers are invited to attend. The Hospitality Committee will provide the traditional Turkey. Everyone is asked to bring a dish for six people to share. For more information, call Monique de la Beij, 399-7656.

— WEEK OF 11/24 —

Monday, 11/24

**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.

Tue-Wed, 11/25-26

**\*BNL Community's Art & Craft Show**  
Berkner Hall, Room B. See sculpture, paintings, needlepoint, blown glass, photos, and more. All are welcome to this free exhibit. Show hours: Tue.-Wed., 11:30-1 p.m., evening reception with refreshments on Tuesday, 11/25, 5-7 p.m. See page 4.

Thurs.-Fri., 11/27-28

**BNL closed for Thanksgiving Holiday.**  
No Bulletin this week.

Recording History  
NYS Archives Regional Advisory Committee Meets at BNL,  
Then Celebrates National Archives Week With Tour to Learn Lab History

In late September, one of New York State Archives' (NYSA) eight Regional Advisory Committees (RAC) held a quarterly meeting at BNL. On behalf of the State, NYSA leads efforts to preserve and make accessible recorded evidence documenting history, governments, events, and people of the State.

Corene Wood of the Information Services Division, who has been an appointed RAC member since 1997, explains that to achieve the NYSA mission, members serve and work in partnership with New York's many and diverse communities, governments, and institutions to provide guidance for the management of government records and information resources.

For example, says Wood, "The members of our committee, which reports to the Local Government Regional Advisory Council (LGRAC), review grants for various programs at State



Roger Stoutenburgh 07/26/03

Several members of the New York State Archives Regional Advisory Committee who held a meeting at the Lab on September 27 include: (from left) Thomas Saltzman, Town of Hempstead Historian; Arthur Sniffin, retired NYS Education Department Regional Advisory Officer; JoAnn Raia, Town of Huntington Town Clerk; BNL's Records Manager, Corene Wood of the Information Services Division; Paula Klingelhoef, Assistant Director of Western Suffolk BOCES; and Lorraine Hill-Campbell, NYS Education Department Regional Advisory Officer.

level, and encourage creative and valuable uses of archival records."

Other work undertaken by the RACs includes encouraging organizations and individuals in the region to work for improved local government records programs; providing feedback to the State Education Department and LGRAC from local governments and their constituents to ensure

relevant and timely services; and facilitating cooperative project planning and grant application and implementation among local governments in the region.

Spin-off Tour Held to Mark National Archives Week

"After talking with Gregory Ogeka, Deputy Assistant Laboratory Director for Finance &

Administration, who welcomed the committee to BNL," continues Wood, "the members were keen to learn more about the Lab. It was decided that they and others from the Long Island archives community should celebrate National Archives Week by touring parts of BNL to learn something of its history, including Camp Upton."

So, after coordination with Elaine Lowenstein, BNL's Tour Program Coordinator in Community, Education, Government & Public Affairs, BNL is welcoming historians, archivists, local government officials, and others interested in or involved with recording NYS history, who are touring the Lab today, Friday, November 21. They will visit the science museum, the National Synchrotron Light Source, and hear a presentation on Camp Upton.

— Liz Seubert

APS Symposium (cont'd.)



Joseph Rubino 06/10/03

Parsa, who chaired the symposium, said, "The local organizing committee, besides myself, consisted of Peter Paul, and William Kilgore of Physics. I'd like to thank them and others for their contributions and help that made this a very successful symposium. "It is worth noting," added Parsa, "that the topics in our program featured prominently in the Long Range Plans issued last week, well after our symposium, by the United States Secretary of Energy Spencer Abraham." — Liz Seubert

NSLS II Workshop

A workshop on the proposed NSLS-II facility will be held at BNL on Friday, December 12, for all members of the scientific community, both in and outside the Lab, who wish to provide input on the design and direction of NSLS-II.

The workshop will include comments from representatives from Congress, DOE, New York State and the Lab, lectures, presentations, and an evening poster session and dinner. For more information, or to register, visit <http://www.nsls2.bnl.gov> or call Ext. 2297.

Arrivals & Departures

Arrivals

Ivan Bozovic .... Materials Sciences  
Vinita Ghosh ..... Physics  
Saroj Kandasamy ..... Physics  
Michael Lake ..... Biology  
Guangming Zhou ..... Biology

Departures

Mary Lynn Baniecki ..... Biology  
Tuong Le ..... C-A  
Peter Murphy ..... Plant Eng.  
Sophie Sekalala ..... C-A

Book Fair, 12/2&3

BERA will sponsor a Book Fair in Berkner Hall on Tuesday and Wednesday, December 2 & 3, 10 a.m.-3 p.m. New, hardcover books will be in stock and sold at up to a 70 percent reduction. Some gift items will also be available. Credit cards and checks will be accepted. For more information, call Christine Carter, Ext. 5090.

Inside Info

With the elections in the news recently, The Bulletin contacted Richard Deem for a quick summary of what it is like to serve in public office. In June 2003, Deem, an engineer in the Energy Sciences & Technology Department, was elected to a four-year term as Mayor of Great Neck after a hotly contested election.

"In these early days of my administration, I have found that being responsible for a Village of 10,000 people, with an annual budget of \$6.5 million, to be both time-consuming and rewarding," says Deem. "An interesting facet of the position is how local elected officials interface with both state and federal officials to resolve issues and solve problems."

Attn.: Holiday Shoppers

BNL Science Museum Gift Shop Opens

The BNL Science Museum Gift Shop is returning for the holiday season. Visit the museum to shop for science-based gifts, explore, and see the new MarsScape exhibit, on Fridays, December 5, 12, and 19, 11 a.m.- 2 p.m.

Retirement/Investment Fidelity Options, 12/8

A Fidelity Investment representative will be at the Lab on Monday, December 8, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. To schedule a 45-minute appointment, call (800) 642-7131.

Notice of Controlled Area Postings During RHIC Operations

The Collider-Accelerator Department will soon be restarting the Relativistic Heavy Ion Collider (RHIC), which is expected to operate until the end of May 2004. During this operating period, the entire RHIC site, including the inner road, will be posted as a Controlled Area with the exception of Building 1005 (the Collider Center), the adjacent parking lot and the approach road to Building 1005. The postings will be in place over this coming weekend of November 22-23. In addition, the northern portion of Thompson Road is posted as a Controlled Area and closed to routine traffic.

The following requirements must be satisfied before entering the posted Controlled Areas. Failure to comply with these requirements could lead to a Reportable Occurrence and a Price Anderson Amendment Act (PAAA) violation:

1. Unescorted Access requires up-to-date General Employee Radiation Training (GERT) and facility-specific training.
    - Experimenters — contact the RHIC & AGS Users' Center, Ext. 5975, for assistance.
    - BNL Employees — contact Ann-Marie Luhrs, Ext. 7007, for assistance.
  2. Escorted Access may be granted by contacting Ann-Marie Luhrs, Ext. 7007. Escorts must complete a Training Waiver Form and the escorted entry must be approved by the Collider-Accelerator Department. Call at least one day prior to the escorted access.
- As always, all personnel are expected to adhere to the posted requirement.

Science Medal (cont'd.)

combustion chemistry to meteorology and atmospheric measurements.

For example, in environmental studies at the CDIC, Glimm and associates from BNL, Argonne National Laboratory and SBU are simulating the breakup of diesel fuel into droplets, which is of interest because much of diesel fuel pollution is derived from unburned fuel deposited on the walls of an engine chamber. Controlling the size of droplets so that they are very fine decreases pollution.

In another promising project conducted at the CDIC, Glimm joined Wei Zhu, SBU, and other researchers from SBU and the Long Island Cancer Center to measure the mass of certain proteins in the blood of ovarian cancer patients in an attempt to develop a definitive detection method for early-stage ovarian cancer, which, if detected early, has a 90 percent cure rate. So far, their statistical detection method, which uses six protein markers, is 100 percent accurate in detecting early-stage ovarian cancer. Their results will have to be confirmed with further testing.

Glimm received two degrees from Columbia University: a B.A. in engineering in 1956, and a Ph.D. in mathematics in 1959. He has been Director of the CDIC since 1999, and he has been Distinguished Professor and Chair of Applied Mathematics at SBU since 1989.

Glimm has received the New York Academy of Science Award in the Physical and Math Sciences in 1979, the Dannie Heine-man Prize for Mathematical Physics in 1980, and the American Mathematical Society's Steele Prize for a paper of fundamental importance in 1993.

Other National Medal of Science winners associated with BNL are: Nobel Prize winner Raymond Davis Jr. (2001), former Laboratory Director Maurice Goldhaber (1983), and the late Donald Van Slyke (1965).

— Diane Greenberg

Note: For more details, go to <http://intranet.bnl.gov/intranews/glimm.asp>.



BNLers Support United Way of Long Island Fund Drive

Within a few days, pledge forms for donations to the United Way of Long Island will have been mailed all employees and retirees.

Says Jennifer Lynch, this year's BNL United Way fund drive coordinator, "Filling in the pledge forms is easy and can change someone's life for the better. Remember, donations are tax deductible! You can also specify your favorite charitable organizations and the United Way will direct your funding there. You may choose to make a payroll contribution or a one-time donation. Please take a moment to fill it in.

"Our goal is to raise at least \$120,000 and every penny counts!" continues Lynch. "I am confident we will reach this goal with everyone's support and volunteerism."

In support of the drive, BSA rewards volunteer efforts by donating \$20 for every volunteer hour completed by an employee. "If you fill out a Volunteer Work Receipt form available off the United Way webpage, or by contacting Beth Blevins at Ext. 6033, we can receive more credit for your efforts," says Lynch.

Among volunteer opportunities happening at BNL are:

- **American Red Cross's Brookhaven Nutrition Program** at BNL's Occupational Medical Clinic (OMC). Help package hot lunches for the elderly during the holidays, especially at Thanksgiving. Nancy Garcia, Ext. 2370
- **Holiday Auction.** Volunteers needed to put together baskets and to collect items. Linda Satalino, Ext. 6042
- **Yard Sale.** Bring tools, sporting goods, music CDs and DVDs, etc. to add to the Yard Sale. Large or heavy items, may be picked up from your home. Chris Johnson, Ext. 7636
- **Lab-wide consolidated drive** for school supplies,



Roger Stoulenburgh D0891103

Pictured with Jennifer Lynch (front, fifth from left), this year's coordinator for BNL's fund drive for the United Way of Long Island, are: Valerie Millard (second from right), Assistant Vice President of Resource Development at United Way; Aimée Sumereau (front, center), fund-drive co-coordinator; representatives from several United Way-supported agencies, and some of BNL's large group of United Way captains, who help coordinate the drive in their divisions or departments. The captains are: **Hospitality/ Apartment Area:** Natalia Zelenski, zelenski@optonline.net. **Collider-Accelerator Department:** Mary Ostensen, Ext. 6122, and Arthur Piper, Ext. 7934. **Magnet Division:** Diana Votruba, Ext. 5123. **Information Technology Division:** Marty Gormezano, Ext. 3418. **Business Systems Division:** Toni Hoffmann, Ext. 5257. **Biology Department:** Ann Emrick, Ext. 5756. **Budget Office:** Fran Hille, Ext. 3309, and Maureen McDonnell, Ext. 5026. **Chemistry Department:** Lois Caligiuri, Ext. 4397. **Deputy Director for Operations:** Sharon Jones, Ext. 2493. **ESH&Q Directorate:** Maria Beckman, Ext. 5483. **Finance & Administration:** Brian Sack, Ext. 3317. **Director's Office:** Lois Marascia, Ext. 8600. **Environmental Sciences Department:** Claire Lamberti, Ext. 3051, Barbara Roland, Ext. 3275, and Anna Seda, Ext. 7132. **Emergency Services Division:** Linda Strome, Ext. 5384. **Plant Engineering Division:** Debbie Doyle, Ext. 3084. **Environmental Services Division:** Marcia Allocco, Ext. 3166. **Fiscal Services Division:** Linda Jones, Ext. 5401, and Margheritta Pirozzi, Ext. 5168. **Safety & Health Services:** Donna Wadman, Ext. 2542. **Internal Audit:** Elliot Levitt, Ext. 2495. **Information Services Division:** Patricia Flood, Ext. 7886. **Instrumentation Department:** Donna Grabowski, Ext. 2720. **National Synchrotron Light Source:** Lydia Rogers, Ext. 4746, Eileen Morello, Ext. 2145, and Gretchen Cisco, Ext. 4703. **Materials Sciences Department:** Ali Lopez, Ext. 2590. **Medical Department:** Maria Apelskog, Ext. 3715, and Denise White, Ext. 3392. **Energy Sciences & Technology Department:** Linda Hanlon, Ext. 7517, Maryann Julian, Ext. 4705, Gail Brown, Ext. 5850, and Susan Walch, Ext. 2418. **Nonproliferation & National Security Department:** John Valente, Ext. 2788. **Occupational Medicine Clinic:** Diane Carlson, Ext. 3670. Office of Independent Oversight: Joyce Mortimer, Ext. 3650. **CEGPA:** Mona Rowe, Ext. 5056. **Human Resources Division:** Susan Foster, Ext. 2888. **Photography & Graphic Arts:** Bruce Style, Ext. 7640. **Physics Department:** Jo-Ann Nasta, Ext. 8594, and Rachel Inguanta, Ext. 3500. **Procurement & Property Management Division:** Deborah Keating, Ext. 3888. **Quality Programs & Services:** Beth Evely, Ext. 3689. **SBMS:** Terry Maugeri, Ext. 5980. **Central Shops Division:** Karen Lucadamo, Ext. 3356. **Safeguards & Security:** Melinda Markstaller, Ext. 2280, and Kathy Walker, Ext. 7105. **Staff Services Division:** Ruth Comas, Ext. 8436. **Waste Management Division:** Beth Blevins, Ext. 6033.

health and beauty aids, and new or gently used children's toys/ clothing. Large bins will be located at the Main Gate, Building 179B (Staff Services) and Berkner Hall for these items. Items collected will go to: **Brookhaven Town Interface; the Bellport, Hagerman, East Patchogue Alliance; the LI Council of Churches; The Ministries; Thee Island Inn; the Suffolk County Coalition**

**Against Domestic Violence; and Haven House**

- **Departmental drives.** Ask your department/division captain about upcoming events.

Watch for these events:

- **NY Jets autographed football raffle.** Last day for sales is Wednesday, November 26, at the Teachers Federal Credit Union, 10 a.m.-3 p.m. Raffle drawing at 3 p.m. that day.

- **BNL Music Club "Musical Solstice" concert** at 7 p.m. on Saturday, December 6, in Berkner Hall (see notice, page 4).
- **Holiday Auction/Yard Sale.** December 9, 11 a.m.-2 p.m.; December 10, 11 a.m.-4 p.m. Come and buy raffles for more than 100 holiday baskets and dozens of gift certificates donated for the campaign. Something for everyone! 50/50 raffle tickets available also.

Hospitality Committee Thanksgiving Potluck Party, Tomorrow, 11/22

The Hospitality Committee cordially invites guests, visitors, and their families to come and share a Thanksgiving Potluck tomorrow, Saturday, November 22, at 5.30 p.m. in the Recreation Hall in the apartment area. The traditional turkey will be provided, and everyone is asked to bring a dish for about six persons to share. For more information, call Monique de la Beij, 399-7656.

Poinsettia Sale To benefit troubled teens

BERA will be selling poinsettia plants to benefit Jack's Dreamhouse, a division of the Timothy Hill Children's Ranch. This 106-acre working ranch, located in Riverhead, is a home for troubled teens.

The foil-wrapped 7-inch potted plants come at \$8 each in red, white, pink, marble and "Jingle Bell" (rust red with pink specks). Make paid orders at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m.-3 p.m. Plant pickup is on Wednesday, December 17.

BNL Toastmasters Holiday Meeting, 12/2

Do you think that public speaking could be fun? You are invited to join the fun at BNL Toastmasters holiday dinner meeting on Tuesday, December 2, beginning at 5:30 p.m. at the Recreation Hall in the apartment area. There is no charge for dinner, but call Nancy Manning, Ext. 5744, if you plan to attend.

Bus Trip to NYC Holiday Lights, 12/7

The Hospitality Committee invites you to join a bus trip on Sunday, December 7, to enjoy seeing Christmas in New York City. The bus will leave from the Recreation Building in the apartment area at 9 a.m. and will return from the city at 6 p.m. The cost for adults is \$20, children 2-12, \$5. To make reservations, e-mail soppenheimer@optonline.net or phone 929-0043.

Payments can be made in the Recreation Building on two Tuesdays: November 25 and December 2, from 10.30 to 11 a.m., or on Wednesday, December 3, 11:30 to noon.

Photo Cards Available At The BERA Store

Holiday photo cards may now be ordered at the BERA Sales Office in Berkner Hall at a cost of \$9.99 for 20, \$18.99 for 40 cards. Photo gifts, (key chains, puzzles, etc.) are also available. Stop by the BERA Sales office for more information about photo-processing services and other holiday gifts.

BERA Ski Weekend, 2/20-22

Join BERA for a Ski Weekend to Gore Mountain, Lake George, NY, from Friday, February 20, to Sunday, February 22. Bus departs BNL on 2/20 at 5 p.m. and departs Lake George at 5 p.m. on 2/22 for the trip home. Ski all day with transfers to Gore Mountain. Buy tickets at the BERA Sales Office in Berkner Hall. The price includes deluxe motor coach and two nights at a hotel, welcome refreshments, several buffet-style meals, and parties scheduled for Friday, Saturday, and Sunday. Prices from \$195 pp-quad, \$215 pp-triple, \$225 pp-double. \$25 additional for open bar option for the weekend. A deposit is required by December 16. For more information, see www.adventureunlimited.com.

Rec. Hall Available For Holiday Parties

The Recreation Hall in the apartment area is available for department and division functions and parties. Contact Christine Carter, Ext. 5090, for reservations.

Volleyball Standings as of 11/17/03

<b>Open League A</b>	
UCB Roof Co. ....	21-3
Death Volley .....	14-7
Far Side .....	10-11
Shank, Carry, Throw .....	6-15
Scared Hitless .....	3-18
<b>Open League B</b>	
Shankadelic .....	11-4
Easy Spikers .....	12-6
Late Entry .....	12-6
What Ball, Where? .....	10-8
PHENIX Fire .....	4-11
Setting Ducks .....	2-16
<b>Mixed League 2</b>	
New Blood .....	15-3
Upsetters .....	15-3
Nuts and Bolts .....	13-5
Ball Hogs .....	12-6
Goodtimers .....	6-12
Spiked Jello .....	5-13
Court Jesters .....	4-14
Another Round .....	2-16
<b>Mixed League 3</b>	
Upton Ups .....	15-3
Last Minute .....	9-9
Newbies .....	7-11
Castaways .....	5-13

Calendar (continued)

— WEEK OF 12/1 —

Tuesday, 12/2

Caring Friends Meet

Noon, Berkner Hall, Room D. An informal support group meets to serve as a resource for individuals experiencing grief and the many emotions following the loss of a loved one. Gatherings are on the first Tuesday of each month. All are welcome. For more information, call Pat Hein, Ext. 3962, or Gerry Van Derlaske, Ext. 3476.

Wednesday, 12/3

BSA Music Recital

Noon, Berkner Hall. Stony Brook Strings will perform Paul Hindemith's String Trio no. 2 and Gyorgy Ligeti's String Quartet no. 1. "Metamorphoses Nocturnes." All are welcome. For more information, see <http://music.bnl.gov>.

Saturday, 12/6

\*BNL Music Club Holiday Show

7 p.m., Berkner Hall. Show features talented BNL performers. Philip Hayde, Ext. 7648. See page 4.

Shopping Trip to Peddler's Village

\$15 per person. Sold out. Christine Carter, Ext. 5090.

Sunday, 12/7

Radio City Holiday Show

\$76/person. Sold out. Christine Carter, Ext. 5090.

\*Christmas Lights in New York City

Join a Hospitality Committee bus trip to see Christmas in New York City, leaving the Recreation Hall in the apartment area at 9 a.m., returning at 6 p.m. Adults, \$20, children 2-12, \$5. To reserve, contact soppenheimer@optonline.net or 929-0043. Pay in the Rec. Hall on two Tuesdays: 11/ 25 and 12/2, 10.30-11 a.m., or on Wednesday, 12/3, 11:30-noon.

— WEEK OF 12/8 —

Thursday, 12/11

Community Advisory Council Meeting

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

Friday, 12/12

\*NSLS II Workshop

A workshop on the proposed NSLS-II facility will be held for all members of the scientific community, both in and outside the Lab, who wish to provide input on the design and direction of NSLS-II. For more information, or to register, visit <http://www.nsls2.bnl.gov> or call Ext. 2297. See also page 3.

— WEEK OF 12/15 —

Wednesday, 12/17

BSA Recital: Humorous Talk

Noon, Berkner Hall. Popular local humorist David Bouchier will present "Ghosts of Christmas Past," which will surely put BNLers in the mood to celebrate the holiday season. For more information, see <http://music.bnl.gov>.

Brookhaven Lecture

4 p.m., Berkner Hall. Ron Pindak, National Synchrotron Light Source Department, will talk on ferroelectric crystals. All are welcome.

Thursday, 12/18

Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. To make an appointment, contact Susan Foster, Ext. 2888, or donateblood@bnl.gov.

Friday, 12/19

Christmas Concert

Noon, Berkner Hall. Carols, old and new, and holiday music, sung by the BNL Choral Group, including soloists. All are invited to this free concert.

BERA Holiday Party

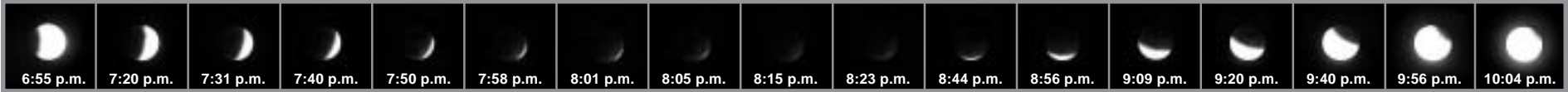
6-11 p.m. East Wind Caterers, Wading River. Tickets cost \$50 per person and include full open bar, hors d'oeuvres, dinner, buffet, dessert, DJ, and dancing. Purchase tickets at the BERA Sales Office in Berkner Hall. Christine Carter, Ext. 5090.

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.



Moonstruck!

Below is a series of photos of the November 8 lunar eclipse taken from Yaphank by Judith Williams of the Atmospheric Sciences Division in the Environmental Sciences Department. Regarding this, her first attempt at night photography, Williams stated, "I even surprised myself at how nicely the photos came out, having only read the camera manual an hour before the eclipse began!"



Classified Advertisements

LABORATORY RECRUITMENT - Opportun-

ities for Laboratory employees. MK3333. DIRECTOR, INTERNAL AUDIT AND OVERSIGHT (M-3) - Reporting to the Laboratory Director, helps to ensure compliant and effective operations by managing internal audits and reviews of BNL finances, operations, processes, and systems. Will manage staff of the Internal Audit and Independent Oversight Offices, prepare and implement audit plans and budgets, and ensure that work of staff complies with generally accepted practices and addresses the concerns of senior management and the BSA Board of Directors. In addition, will represent BSA and BNL with outside auditors and DOE offices, coordinate external audits and assessments and communicate results or audits and reviews to affected and interested parties. Also coordinates PAAA program including reporting, compliance and commitment tracking, and manages the Lessons Learned and Occurrence Reporting programs. Requires a bachelor's degree in accounting and a CPA, extensive experience in auditing both financial and operational activities and systems, and supervision of professional audit staff. Internal Audit and Oversight Office.

MK4444. MANAGER, QUALITY MANAGEMENT OFFICE (M-2)- Reporting to the Assistant Laboratory Director for Environment, Safety, Health & Quality, this position directs the staff of the Quality Management Office in carrying out the daily operations of the Quality Management System, and manages BNL's quality programs and systems, including Integrated Assessment, Performance-Based Management and Standards-Based Management System (SBMS). Maintains the Laboratory Quality Assurance Program Description (QAP) and its Implementation plan (QAIP) and performs an annual review of the Quality Assurance Program. Manages the Integrated Assessment Program, including organizational self-assessments, assessments of management systems, and the annual self-evaluation process. Provides professional guidance, technical support, and training to BNL personnel in matters pertaining to quality management and performance assurance. Assists Laboratory management with independent and self-assessments. Coordinates the development of the Laboratory's Critical Outcomes and annual review. Communicates program status and evaluation and review results to DOE. Through the SBMS, provides BNL staff with policies, standards of performance, and Laboratory-wide procedures and guidelines. Provides the primary BNL requirements for developing, delivering, and controlling internal operating procedures and documents. Ensures that requirements of DOE Directives; and Federal, state and local laws, and BSA policies are addressed in Laboratory procedures. Requires a bachelor's degree in business administration, quality management or related field and extensive experience in managing the development and application of quality or performance assurance for diverse operational environments. Advanced degrees and certifications/registrations are desirable. Environment, Safety, Health & Quality Directorate.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates. MK3468. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physics, several years experience in magnetic resonance imaging and experience in pulse sequence programming on a Varian console. Experience in hardware development is desirable. Candidate should be highly organized, possess good communication skills and have the ability to work in a group setting. Will develop diffusion tensor imaging (DTI) and functional magnetic resonance imaging (fMRI) with high spatial and temporal resolution. Will join a large neuroscience group interested in the effects of drug abuse and diseases on brain function. Imaging facilities include a 4-Tesla MRI scanner for human studies, a 9.4-Tesla MRI scanner for small animal studies and three PET cameras. Under the direction of D. Tomasi, Medical Department.

TB3470. SR. OFFICE SERVICES ASSISTANT (CW-3, Term Appointment) - The Clinical Research Center (CRC) is seeking a highly motivated individual to provide administrative support to the CRC professional staff during the conduct of clinical studies. Under minimal supervision, will coordinate the daily schedules for clinical programs operating within the CRC and its satellite facilities. Will act as the CRC receptionist, greet the subjects upon arrival at BNL, and coordinate the

logistics for the subject during the day of the visit. Will also be responsible assisting with some physical activities at the CRC approximately one day a week, including but not limited to, picking up and delivering laundry to and from the CRC satellite locations, processing regulated medical waste, and performing ancillary housekeeping tasks at the CRC facilities to maintain a clean and safe environment for the research volunteers. A working knowledge of basic office procedures, certain multi-tasking skills and the ability to produce accurate and quality work despite frequent distractions is required. Experience in the medical or health related field is desired. Requires a high school or equivalency diploma and three years' related work experience as well as a valid NYS drivers' license. Medical Department.

Motor Vehicles & Supplies

00 CHEVROLET BLAZER ZR2 - a/t, a/c, p/s, p/b, p/w, high rider, moonroof, 41K mi., \$14,000, mint. cond. Vinny, 286-3446.

00 CHEVY SILVERADO - V8, white/gray leather interior, Bose am/fm/cass/cd, chrome wheels, crew cab., 39K mi, brought new, \$20,000 neg. Cynthia Ext. 698-9016.

00 HONDA CIVIC EX - a/t, a/c, p/s, p/b, p/w, 4 dr., white, cd/cass. player, c/c, keyless entry, sun/moonroof, mint cond., 60K mi., \$10,800. Peter, Ext. 7657 or 298-9560.

00 VOLKSWAGON PASSAT WAGON - a/t, a/c, p/s, p/b, p/w, V6, loaded, mint cond., 47K mi., \$18,500. Raymond, 718-225-5783.

99 DODGE 3500hd - a/t, a/c, p/s, p/b, gas, dump body, 54K mi., \$16,000/obo. Gary, Ext. 2155

97 DODGE NEON - 5 spd., a/c blk., new tires, runs well, over 100K mi., \$1,095. Nick, 697-9277.

95 OLDSMOBILE 98 - a/t, a/c, p/s, p/b, p/w, fully loaded, new tires, stereo, 70K mi., \$3,900, must sell. Ron, Ext. 3277.

95 VOLVO 850 SEDAN - 5 spd., a/c, p/s, p/b, p/w, sunroof, alarm, burgundy, tan leather, clean, well maint. by orig./non smoking owner. Louis, 477-8788.

94 CHEVROLET CAMARO - a/t, a/c, p/s, p/b, p/w, blk, air bag, sunroof, cc, am/am stereo cass., excel. cond., 120K mi., \$3,900. Richid, Ext. 4342 or 766-0372.

94 FORD EXPLORER - 4x4, a/t, a/c, p/s, p/b, p/w, tinted windows, navy w/gray cloth interior, runs well, gd. cond., 164K mi., \$2,000. Mary, Ext. 6344 or 929-3388.

94 FORD EXPLORER SPORT - 4WD, 2 dr., 150K mi., no rust, new tranny & breaks, best offer. Ext. 7502.

94 JEEP CHEROKEE LAREDO - a/t, a/c, p/s, p/b, p/w, 4x4, new tires, 10 disk CD changer, runs well, 170K mi., \$5,500/obo. Gary, Ext. 2155.

93 CHRYSLER VAN T&C - 6 cyl, leather, new tires & brakes, gd. cond., \$3,000. Richard, Ext. 924-6751.

94 MAZDA 626 - /t, a/c, p/s, p/b, p/w, light blue, new battery 30 mi./gal., gd. cond., 115K mi., \$3,250. Jim, Ext. 5018 or 689-3063.

93 DODGE CARAVAN - 3L, V6, p/l, p/w, new Alpine radio, CD player & windshield, 82K mi., \$3,900. Mike, Ext. 5319 or 698-8028.

93 VW EUROVAN - a/t, a/c, p/s, p/b, p/w, white, 5 cyl. 4-wheel ABS, PopTop, gd. cond., 133K mi., \$6,400. Leigh, 653-7924.

92 INFINITI M30 - a/t, p/s, p/b, p/w, leather, moonroof, p/seat, c/c, 110K mi., \$3,000. Herb, 928-0297.

91 HONDA ACCORD LX - 5 spd., white, 4 dr., a/c, p/s, p/b, p/w, cc, new clutch & timing belt, no rust, very gd. cond., 107K mi., \$ 2,500. Ken, 281-5565.

90 BUICK LE SABRE - a/t, a/c, p/s, p/b, p/w, 120K mi., \$1,600. Viktor, Ext. 8335 or 804-2959.

90 SUBARU LOYALE WAGON - 5 spd., a/c, p/s, p/b, 4WD, gd. cond., 175K mi., \$1,000. Steve, Ext. 5323 or 744-3902.

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90 TOYOTA CAMRY WAGON - a/c, \$1,450, Upendra, 751-4539.

89 JAGUAR - red, gold leather interior, 4dr., am/fm radio cass., player, ask. \$3,500 neg. Cynthia, Ext. 3084.

88 ISUZU PICKUP - a/t, a/c, p/s, p/b, gd. running cond., 145K mi., \$1,100. Neil, Ext. 8462 or 281-2548.

86 PONTIAC TRANSAM - maroon w/gray interior, clean, high performance engine, 138K mi., \$9,500. Ken, 948-5277.

CAR POWER INVERTER - Sima 140W inverter, car DC 12V-AC 110V, rarely used, \$20 obo. Sheng, Ext. 8401.

SEATS - Summit polymer hi-back racing seats w/blk. padded covers & RCI 5-pt. harnesses, brand-new in boxes, \$150 pair. Rich, Ext. 7294 or 929-1058.

Free

TV - 20 yr. old in gd. working cond. Sharon, 821-1999.

For Sale

BROOKHAVEN HAMLET - 4-bdrm., 2 baths, lr, dr, fp, spectacular glass fam. rm., a/c, alarm, igp, mature landscaping, 2.3 acre, mint cond., \$540,000. Ralph, 286-3984.

CENTER MORICHES - 3 bdrm., 1 bath, lr, eik, full bsmt., 1.5 garage, legal 1 bdrm., 1 bath accessory apt., .29 acre, beach & boat community, \$349,000. Peter, Ext. 4028.

MASTIC BEACH - cleared 6 lot building property on Magnolia Dr., 120' front, 100' deep, \$68,000. Robert, 281-6551.

PORT JEFFERSON - immac. country cape on dead end st. in Village. Great rm. w/fireplace & wetbar. Taxes approx., \$4,300/per yr. \$397,000. Helen, Ext. 2552 or 344-2532.

For Rent

BOHEMIA - 2-bdrm. house, lr, dr, kit., bath, yard garage. \$1,500 + util., avail. 11/1. Donna, Ext. 2380 or 589-8964.

BROOKHAVEN HAMLET - Cape Code 7-rm.: 4 bdrm., 2 baths, furnished, full bsmt., ¾ acre, tool shed, 10 min. to BNL, \$2,600/mo. Jim, 289-0876.

CORAM - 1-bdrm. apt., kitchenette, avail., 12/15, priv. ent., supply refs. Paul, 474-9053.

CORAM - 1-bdrm. apt., lg. walk-in closet, sep. kit., d/w, priv. ent., dr/way use, no smkg/pets, \$1,275 incl. all. Doug, Ext. 7698.

E. PATCHOGUE - studio apt. suit. for 1 pers., grd. level, renovations, priv. ent., dr/way, no smkg/pets; credit & ref. check nec., 1 mo. rent & sec. \$1,000 incl. all. Frances, 286-9085.

PORT JEFFERSON - 1 lg. bdrm., bath, kit, lr w/fp, priv. yd. & ent., incl. cable & modem, no lease, \$990 + elec. David, 395-3484.

MASTIC - 1-bdrm. apt., very clean, eik, full bath, den, priv. dr/way, 10 min. to BNL, all incl. w/cable. Joseph, Ext. 3499 or 281-0809.

MASTIC BEACH - \$1,200/mo. Valentina, Ext. 4992 or 212-865-2252.

MASTIC BEACH - 2 bdrm., lr, kit, 1 rm. bsmt. unfurn., 9 mi. to BNL, \$1,200/mo. +1 mo. sec., water & heat incl. Alexander, Ext. 4992 or 399-9611 or 212-865-2252.

MEDFORD - 2- bdrm. bsmt. apt., separate ent., no smkg/pets, \$1,000/all, incl. cable. 698-9016.

MEDFORD - 2-bdrm. bsmt. apt., w/bath, incl. all util., no smkg/pets/children, 3 ref., avail. 11/1, 1 mo. sec + 1 mo. rent, Cynthia, Ext. 3084.

MILLER PLACE - furnished 1-bdrm. apt., full bath, eik, lr, priv. ent., cable, central a/c & alarm, no smoking/pet, \$950/all.

NORTH SELDEN - 1 bdrm, lr, kit., full bath, w/d, no smkg/pets, \$850/mo./all + sec., ref., 15 min. to Lab. Helen, Ext. 6235 or 928-7107.

SHIRLEY - lg. 1-bdrm. apt., lr, eik, newly redone, sunlight, priv. ent., parking, walk to ocean, 8 mi. to Lab, single non-smoker pref., \$950/all, optimum online, Joe, Ext. 7160.

STONY BROOK - 3-bdrm., 2 bath, landscaped ranch house, jacuzzi, walk to SBU, shops, supermarket. 20 min to BNL, 3-Village schools. Leroy, Ext.7603 or 751-0904.

WADING RIVER - 1- bdrm. apt., lr, full bath, eik, furn. or unfurn., priv. ent., walk to beach, 10 min. to BNL, single, non-smoker, \$700/ mo. + 1 mo. sec., util. incl. cable, elec., wtr., heat, Richard, 929-5872.

YAPHANK - 3-bdrm. townhouse, w/1.5 baths, unit w/attached gar., finished bsmt. with w/d, fp & extras, avail immed., 1st & last mo. sec. req., \$1,700/mo. Lori, 345-0789.

COROLLA, NC - 3 yr. old oceanside Outer Banks home, on quiet cul-de-sac, dble. rear decks overlook pool; 2 master suites, hot tub, screened porch, gas fireplace. \$795 - \$2,795. Carrie, 878-6968.

DAYTONA BEACH, FLA. - 2-bdrm. condo, 2 bath, ocean view, pool, on AiA, rent by wk., or mo., call for details, Donald, 807-4668.

FORT LAUDERDALE, FLA. - Gold Crown Resort timeshare, wld. class golf/fitness center, 3 bdrm. lockout unit, sleeps 8, trades for 2/wks., Xmas wk./51, \$6,500. Ken, 281-5565.

FORT PIERCE, FLA.- spacious, 1-bdrm. condo across from ocean, great location, wkly. or wkend. rates, Ken, 334-4194.

KEY WEST, FLA - Timeshare wk. April 17-24, sleeps 2-4 people, in "OldTown" patio overlooks water, priv. beach, pool, hot tub, gym, kitchen, w/d. Sheryl, 929-8741.

Music Club's 'Musical Solstice' Concert To Benefit United Way of L.I., 12/6

The BNL Music Club will hold a concert called "Musical Solstice" on Saturday, December 6, at 7 p.m. in Berkner Hall. The musical showcase will feature BNL employees expressing their musical talents to raise funds for the United Way of Long Island, as part of the Lab's United Way 2003-04 fund-raising campaign.

Featured performers will be: Pamela Betti and the Bluebloods, playing blues and rock and roll; Krithen, featuring Henry and Kristy Diaz singing and playing holiday music with acoustic guitar accompaniment; Joe Vignola, playing acoustic country blues; and the Tim Caulfield Group, a jazz trio.

Tickets cost \$5 per person and may be purchased in advance from the BERA Sales Office in Berkner Hall, weekdays, 9 a.m.- 3 p.m. Also, tickets will be sold at the door on the evening of the performance. All proceeds from the concert will be given to the United Way of Long Island. The event organizers also request that everyone attending the concert bring a nonperishable food item for the BNL Food Drive, which benefits local food pantries.

Call Joe Vignola, Ext. 3846, for more information. The concert is open to the public; all visitors to the Laboratory age 16 and over must bring a photo ID.

BNL Community Art & Craft Show 11/25 & 26

For the last several years, Brian Karpin of the Collider-Accelerator has been a regular contributor to the Lab's annual community art show sponsored by the BNL Art Society, and this year is no exception. Karpin's sculpture will be one of the 60 or so exhibits which will include paintings, drawings, photos, designer glass, needlepoint, wood sculpture, handmade perfumed soaps and candles, and more. All are invited to see the show, which will be in Berkner Hall, Room B, on Tuesday and Wednesday, November 25 and 26, 11:30 a.m.-1 p.m., with an evening reception with refreshments on Tuesday, 5-7 p.m.



Roger Stoutenburgh 01061103

ORLANDO, FL. - time share or rent, 11/29/03-12/06/04, 7 days, 8 nights, sleeps 6, \$700. Robert, Ext. 7238.

Wanted

CHILDCARE - after-school childcare for 2 girls, 8 & 11, driving, light housekeeping, meal prep. 25 hrs/wk. Michael, 804-4662/ days, 474-8715/eves after 9.

FISH TANK EXCHANGE - my new 10 gal. tank for your 5 gal. Robin, 744-3902.

GIFT WRAP DONATIONS - and gift wrappers needed for U-Way gift wrapping fund raiser, 12/17-12/23, 11 a.m.-2 p.m., Berkner Hall. Drop gift wrapping donations at Bldg. 179B or at the BERA Sales Office in Berkner Hall. Christine Carter, Ext. 5090.

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

Happenings

Riverhead Faculty & Community Theatre - Lerner and Loewe's "Camelot," 7:30 p.m., 11/21 & 11/22 at the Riverhead HS, Harrison Ave. Adv. tickets cost \$10, or \$12 at the door. Call 727-2557.

Long Island Symphonic Choral Association, which contains several BNLers, will perform "Mass In B-Minor" by J.S. Bach on 12/13 at 8 p.m. at the St. James RC Church in Setauket. Tickets cost \$16. To buy, call Dave, Ext. 5081, or Alex, Ext. 5334.

In Appreciation

Special thanks to all who arranged and attended my retirement luncheon and for the lovely gift. Thank you and so long to all my friends and co-workers. I will miss all of you. It has been an honor and a privilege to work here with so many good and talented people. I have many memories to reflect on in these 26 years.

—May God Bless You, Cathy

To all my BNL Friends: Thanks so much for the wonderful retirement party, break-fast, and surprise run. Now I will keep busy staying young and will cherish the great BNL memories.—Sheryl

Thank you for your thoughtful words and prayers following the passing of my father. We are sincerely grateful.

— Larry Arnold & Family

I thank all my friends at BNL for the wonderful retirement party. In my almost 40 years at the Lab, I have had the pleasure of working with a great group of people. BNL is the world class research facility that it is because of hard work and dedication of the people who work here. I will miss all of you very much.

More Ads

More ads are on the Web at [www.bnl.gov/bnlweb/pubaf/bulletin.html](http://www.bnl.gov/bnlweb/pubaf/bulletin.html), after this week's Bulletin. Or pick up the full list in the Bulletin lobby, Bldg. 134, or call Ext. 2345. Omitted ads must be resubmitted to be printed on 12/ 5 (the next Bulletin).



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94 JEEP CHEROKEE LAREDO - a/t, a/c, p/s, p/b, p/w, 4x4, new tires, 10 disk cd changer, runs well, 170K mi., \$5,500/obo. Gary, Ext. 2155.

93 CHRYSLER VAN T&C - 6 cyl, leather, new tires & brakes, gd. cond., \$3,000. Richard, Ext. 924-6751.

94 MAZDA 626 - /t, a/c, p/s, p/b, p/w, light blue, new battery 30 mi./gal., gd. cond., 115K mi., \$3,250. Jim, Ext. 5018 or 689-3063.

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93 VW EUROVAN - a/t, a/c, p/s, p/b, p/w, white, 5 cyl. 4-wheel ABS, PopTop, gd. cond., 133K mi., \$6,400. Leigh, 653-7924.

92 INFINITI M30 - a/t, p/s, p/b, p/w, leather, moonroof, p/seat, c/c, 110K mi., \$3,000. Herb, 928-0297.

91 HONDA ACCORD LX - 5 spd., white, 4 dr., a/c, p/s, p/b, p/w, cc, new clutch & timing belt, no rust, very gd. cond., 107K mi., \$ 2,500. Ken, 281-5565.

90 BUICK LE SABRE - a/t, a/c, p/s, p/b, p/w, 120K mi., \$1,600. Viktor, Ext. 8335 or 804-2959.

90 SUBARU LOYALE WAGON - 5 spd., a/ c, p/s, p/b, 4WD, gd. cond., 175K mi., \$1,000. Steve, Ext. 5323 or 744-3902.

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Boat and Marine Supplies

22' CAMPER - '99 Nomand, clean, ready to go. \$15,000. Ken, 948-5277.

22' CRUISERS INC. BARNEGIT - '87 w/trailer rebtl. 350 Chevy & O/D, new parts, \$7,000; Sea Doo jetski w/trailer, \$850. Paula, 516-798-2599 or 516-860-9339.

15' GRUMMAN CANOE - no trailer, alumi-num w/paddles, excel. cond., \$450; Yamaha engine, 6hp short shaft outboard, excel. cond., \$400; toy priate ship w/many accessories, excel. cond., \$15; Emco white storm door, 34x80, gd. cond., full window & screen w/all hardware, \$25. Lloyd, 587-7876.

CANOE - Old Town 158 canoe, blue w/ paddles, excel. cond. \$400. Kathryn, Ext. 3578.

Furnishings & Appliances

BEDROOM - 7 pc. rock maple full bedrm, hand carved, natical design on ea. pc., \$500. Albert, Ext.3999.

COFFEE TABLES - 3 sq. ft. l/r table; glass & wood top end table to match, excel. cond., \$50 for both; 40 yr. old Broyhill din-ing rm. set, incl. 2 leaves, buffet, china cabinet, 6 chairs & table pads, \$350. Vic, 585-2084.

DINING ROOM TABLE - maple, 6 chairs w/cabinet; sm. oak antique Replica roll-top dest & chairs, Roberta, 345-0955.

DRYER - xlg. elec. Roper, gd. cond., \$125 neg. Greg. Ext. 7810.

FREEZER - upright white 16" cubic ft., in gd. working order, may need dr. adjment., ask. \$50 obo; 2 pine in dark cherry stain book shelves/entertainment ctr., approx. 6.5' tall, ask., \$25, call during business hrs., Louise, 755-7552 or eves./wkends/475-6056.

FUTON FRAME - full size, wood, disas-sembles into rails, ft. & rooled slats, great for student, can bring to Lab, \$30. Elaine, Ext. 2211 or 473-3315.

KITCHEN CABINETS - laminate cabinets, e-mail or call for photos, measurements, quality, \$1,000 neg. phraner@bnl.gov. Mary, Ext. 6344.

MIRROR-TOP SIDE TABLES - set of 3 tables, blk. finish, excel. cond., \$20/all. Vyachehslav, Ext. 929-4268.

REFRIGERATOR - Magic Chef/Maytag 24 cu ft., white, ice & water dispenser, excel. cond., energy efficient. \$250. Frank, 874-2504

REFRIGERATOR - frost free, 8 yrs. old, excel. cond., \$400. Celeste, 516-878-4356.

SOFA - excel. cond., \$200. Louis, 475-8242.

SOFAS- two, \$100. Upendra, Ext. 2975.

SOFABED & LOVE SEAT - cream back-ground w/ multi./colored splashes of green, mauve & grape, excel. cond., \$600 neg. Theresa, Ext. 2534 or 467-5853.

VICTORIAN TABLE - antique, ornate, in-laid top, excel. cond. \$250; elegant, beaded, gold-tones, metal clasp & chain, shoulder strap evening purse, store price, \$45-\$65, ask. \$35; Karen, 286-6133.

WALL UNIT - beautiful 3-pc. oak TV unit, leaded glass drs., interior lighting, 7' hx6', pictures avail., a steal, \$100. Jim, Ext. 3170 or 475-4947.

Tools, House & Garden

COOKTOP - 3-burner stove, gd. cond. for RV, motor home, trailer, or pop-up, ask. \$75. Tim, 208-0408.

DOOR - storm, Emco white storm door, 34x80, gd. cond., full window & screen w/ all hardware, \$25. Lloyd, 587-7876.

LAWN & GARDEN TRACTOR - Cub Cad-et 782, 54" hydraulic deck, new 17hp twin Kohler motor w/20hrs. on it, hydromatic trans. \$1,500. Brian, Ext. 4297.

LAWN TRACTOR - Sears 7-yr.-old w/42" deck, 14hp, needs trans., make offer & pick up, John, Ext. 4297.

RANGE - Tappen 30" gas range, 1 yr. old, white, \$100 delivered, Suffolk only. Don, Ext. 7237 or 929-6571.

TABLE SAW - Craftsman 10" saws, lg./ \$100, sm./\$75. Walter, Ext. 4958 or 399-5606.

TREES - maple saplings to 10 ft., \$5; GE profile 23.7 cu. ft. Celeste, 516-878-4356.

Sports, Hobbies & Pets

BICYCLE - girls 16", pink, excel. cond. \$15. Yong. Ext. 7022.

CAGE - pet cage for lg. puppy or medium dog, collapsible, best offer. Karen, 286-6133.

CANON SLR CAMERA - EOS 630 SLR, near new cond. w/case & manuals, body only \$200; Cannon 70-210 f/4 lens, \$100; Canon 200E flash, \$30. Richard, Ext. 4607 or 368-0452.

EXERCISE BIKE - Bionix, programmable & monitoring computer of vitals, works up- per & lower body, adj. seats, used 3 times, new \$300, ask. \$100. David, 395-3484.

EXERCISE - track machine, Nortic-style, gd. cond., digital readout, \$25 firm. Don, Ext. 7237 or 929-6571.

DIRT BIKE KX80 - '89 Kawasaki, new top end 107cc, plastic, fender air filter, seat cover, extra carb, tire \$850. Marie, 744-8215.

E-COLLAR - electronic training collar, tri-tonics pro-100, 15 contin. levels, 5 momen-tary, \$475 new, , ask. \$300, Bill, Ext. 3739.

GITAR - Alvarez acoustic model 5220, mint. cond.; new Shaller Turners new case, \$450 firm. John, Ext. 3805 or 277-3805.

PIANO - Winter Spinnet piano, last tuned in 2000, in gd. cond., you pick up, \$500/ obo. Gary, Ext. 7045.

VIOLIN - full-size Antoino Anatra, mint cond., incl. bow, case & rosin, Kim, 3556 or 399-3098.

Audio, Video & Computers

CASSETTE TAPE DECK - double stereo deck, ONKYO TA-RW99, many bells & whistles, \$75. Patricia, 744-8512.

COMPUTER - Dell, 1.1Ghz CPU, 20Gb HD, 256Mb RAM, CDRW/DVD, 17" Mon., spkrs., keybrd, & mouse, \$500; Dell computer w/o mon., \$350; Don, Ext. 7237 or 929-6571.

USB HUB - new super mini 4-port USB, less than 1/2" thick, smaller than credit card, \$25 obo. Sheng, Ext. 8401.

TV - Samsung, color, 1 yr. old, like new, \$150. Vivian, 874-5901/after 5 p.m.

Miscellaneous

CASH REGISTER - point of sale terminal, Panasonic JS-4610 w/operating instruc-tions, \$300. Joann, Ext. 7459.

CHRISTMAS TREE - 7', excel. cond., \$35. Hsiao, Ext. 7505.

CHRISTMAS TREE - artificial, 7ft./w stand & some ornaments, \$25. Chin, Ext. 3663.

CB DRUM SET - full 9-pc set, 2 yrs old, hardly used, mint cond., \$250. Ext. 7294 or Ext. 929-1058.

JACKET - fur white fox, John Pappas, me-dium, \$350. David, 395-3484.

MATTRESS & BOXSPRING - hardly used, \$175; Kodak digital camera DX3215, great starter camera, brand new, \$125. Mary, Ext. 2900.

PASTA MAKER - used, gd. cond., \$20; cordless/rechargeable, Dirt Devil electric broom, \$15; Huffy boys' bike, excel. cond., \$35; fresh lock vacuum sealer, new in orig. box, keeps food fresh, works on most plas-tic bags, \$40. Caroline, 744-8632.

PIÑATAS - unique, all occasions & char-acters, cartoon, Disney, Sesame Street, etc. Donna, 821-0359.

TOY - pirate ship w/many accessories, ex-cel. cond., \$15. Lloyd, 587-7876.

YANKEE T-SHIRT - "The Curse Lives 2003" on back, "Hey, at least we beat the Red Sox!" on front, 100% cotton, \$15 ea. Cindi, Ext. 4495.

Wanted

CHILDCARE - after school childcare for 2 girls, 8 & 11, driving, light housedeeeping, meal prep. 25 hrs/wk. Michael, 804-4662/ days, 474-8715/eves. after 9.

FISH TANK EXCHANGE - my new 10 gal. tank for your 5 gal. Robin, 744-3902.

GIFT WRAP DONATIONS - and gift wrap-pers needed for the United Way gift wrap-ping fund raiser from 12/17 to 12/23 from 11 a.m. to 2 p.m. in Berkner Hall. Drop gift wrapping donations off at Bldg. 179B or at the BERA Sales Office in Berkner Hall. Christine Carter, Ext. 5090.

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

TRAINS - Lionel American flyer & others, cast metal toys, high cash pd., also set for sale. Bruce, 924-4097.

VACUUM TUBES, & GEAR - old/new vacuum electron tubes & equipment, ra-dios, tuners, test equipment etc. Jonathan, Ext. 5335.

Happenings

Riverhead Faculty and Community Theatre presents Lerner and Loew's "Camelot" at 7:30 p.m. 11/21 and 11/22 at the Riverhead High School on Harrison Ave. Tickets cost \$10 in advance or \$12 at the door. Call 727-2557 for more information.

Long Island Symphonic Choral Associa-tion, which contains several BNLers, will perform "Mass In B-Minor" by J.S. Bach on 12/13 at 8 p.m. at the St. James RC Church in Setauket. Tickets cost \$16 and can be purchased by calling Dave, Ext. 5081, or Alex, Ext. 5334.

Free

TV - 20 yr. old in gd. working cond. Sharon, 821-1999.

For Sale

BROOKHAVEN HAMLET - 4-bdrm., 2 baths, lr, dr, fp, spectacular glass fam. rm., a/c, alarm, igp, mature landscaping, 2.3 acre, mint cond., \$540,000. Ralph, 286-3984.

CENTER MORICHES - 3 bdrm., 1 bath, lr, eik, full bsmt., 1.5 garage, legal 1 bdrm., 1 bath accessory apt., .29 acre, beach & boat community, \$349,000. Peter, Ext. 4028.

MASTIC BEACH - cleared 6-lot building property on Magnolia Dr., 120' front, 100' deep, \$68,000. Robert, 281-6551.

PORT JEFFERSON - immac. country cape on dead end st. in Village. Great rm. w/fire-place & wetbar. Taxes approx., \$4,300/per yr. \$397,000. Helen, Ext. 2552 or 344-2532.

For Rent

BOHEMIA - 2-bdrm. house, lr, dr, kit., bath, yard garage. \$1,500 + util., avail. 11/1. Donna, Ext. 2380 or 589-8964.

BOOKHAVEN HAMLET - Cape Cod 7-rm.: 4 bdrm., 2 baths, furnished, full bsmt., three-quarters of an acre, tool shed, 10 min. to BNL, \$2,600/mo. Jim, 289-0876.

CORAM - 1-bdrm. apt., kitchenette, avail., 12/15, priv. ent., supply refs. Paul, 474-9053.

CORA M - 1-bdrm. apt., lg. walk-in closet, sep. kit., d/w, priv. ent./dr.way use, no smkg/pets, \$1,275 incl. all. Doug, Ext. 7698.

E. PATCHOGUE - studio apt. suit. for 1 pers., grd. level, renovations, priv. ent., dr/way, no smkg/pets; credit & ref. check nec., 1 mo. rent & sec. \$1,000 incl. all. Frances, 286-9085.

PORT JEFFERSON - 1 lg. bdrm., bath, kit., lr w/fp, priv.yd. & ent., incl. cable & modem, no lease, \$990 + elec. David, 395-3484.

MASTIC - 1-bdrm. apt., very clean, eik, full bath, den, priv. dr.way, 10 min. to BNL, all incl. w/cable. Joseph, Ext. 3499 or 281-0809.

MASTIC BEACH - \$1,200/mo. Valentina, Ext. 4992 or 212-865-2250.

MASTIC BEACH - 2 bdrm., lr, kit, 1 rm. bsmt. unfurn., 9 mi. to BNL, \$1,200/mo. +1 mo. sec., water & heat incl. Alexander, Ext. 4992 or 399-9611 or 212-865-2252.

MEDFORD - 2- bdrm. bsmt. apt., separate ent., no smkg/pets, \$1,000/all, incl. cable. 698-9016.

MEDFORD - 2-bdrm. bsmt. apt., w/bath, incl. all util., no smkg/pets/children, 3 ref., avail. 11/1, 1 mo. sec + 1 mo. rent, Cyn-thia, Ext. 3084.

MILLER PLACE - furnished 1-bdrm. apt., full bath, eik, lr, priv. ent., cable, central a/ c & alarm, no smoking/pet, \$950/all.

NORTH SELDEN - 1 bdrm, lr, kit., full bath, w/d, no smkg/pets, \$850/mo./all + sec., ref., 15 min. to Lab. Helen, Ext. 6235 or 928-7107.

SHIRLEY - lg. 1-bdrm. apt., lr, eik, newly re-done, sunlight, priv. ent., parking, walk to ocean, 8 mi. to Lab, single non-smoker pref., \$950/all, optimum online, Joe, Ext. 7160.

STONY BROOK - 3-bdrm., 2 bath, land-scaped ranch house, jacuzzi, walk to SBU, shops, supermarket. 20 min to BNL, 3-Vil-lage schools. Leroy, Ext.7603 or 751-0904.

WADING RIVER - 1- bdrm. apt., lr, full bath, eik, furn. or unfurn., priv. ent., walk to beach, 10 min. to BNL, single, non-smoker, \$700/ mo. + 1 mo. sec., util. incl. cable, elec., wtr., heat, Richard, 929-5872.

YAPHANK - 3-bdrm. townhouse, w/1.5 baths, unit w/attached gar., finished bsmt. with w/d, fp & extras, avail immed., 1st & last mo. sec. req., \$1,700/mo. Lori, 345-0789.

COROLLA, NC - 3 yr. old oceanside Outer Banks home, on quiet cul-de-sac, dble. rear decks overlook pool; 2 master suites, hot tub, screened porch, gas fireplace. \$795 - \$2,795. Carrie, 878-6968.

DAYTONA BEACH, FLA. - 2-bdrm. condo, 2 bath, ocean view, pool, on AiA, rent by wk., or mo., call for details, Donald, 807-4668.

FORT LAUDERDALE, FLA. - Gold Crown Resort timeshare, world class golf/fitness center, 3 bdrm. lockout unit, sleeps 8, trades for 2/wks., Christmas wk./51, \$6,500. Ken, 281-5565.

FORT PIERCE, FLA.- spacious, 1-bdrm. condo across from ocean, great location, wkly. or wkend. rates, Ken, 334-4194.

KEY WEST, FLA - Timeshare wk. April 17-24, sleeps 2-4 people, in "Old Town" patio overlooks water, priv. beach, pool, hot tub, gym, kitchen, w/d. Sheryl, 929-8741.

ORLANDO, FL. - time share or rent, 11/ 29/03-12/06/04, 7 days, 8 nights, sleeps 6, \$700. Robert, Ext. 7238.