

Chemists Develop Recyclable Catalyst for Solvent-Free Reactions Holds promise of less waste and lower cost for manufacturing processes

In research funded by DOE's Office of Science, Division of Chemical Sciences, BNL chemists have developed a catalyst that achieves complete conversion of reactants to products and can easily be recovered and reused with no waste. The catalyst, described in the July 31, 2003, issue of *Nature*, eliminates the need for using solvents in an important step in the synthesis of many organic compounds, such as pharmaceutical agents and agricultural products.

Such a complete transformation of reactants to products without the need for additional separation steps is particularly attractive in the manufacture of pharmaceuticals, which must be pure and free from residual metal catalysts. But it should be of interest to all in industry who seek to reduce waste and the cost of manufacturing processes.

"Avoiding the use of solvents is an important way to prevent waste in chemical manufacturing processes," said Morris Bullock,



Morris Bullock and Vladimir Dioumaev

Chemistry Department, who led the research. This new catalyst, developed by Vladimir Dioumaev, a postdoc in Bullock's lab, achieves that goal in two ways:

First, as a homogeneous catalyst, it dissolves in the reactants. That eliminates the need for a solvent to mix the reagents to get the reaction going.

Second, it precipitates as a solid at the end of the reaction, so no solvents or additional steps are required to separate the catalyst from the products.

"It separates itself. You can simply pour the products into another container and use the catalyst again," Dioumaev said.

"The concept is simple, but striking the right balance between maintaining catalyst solubility throughout the reaction and precipitation at the end is a diabolical problem," Bullock said.

Bullock and Dioumaev plan to continue their research to see if this general method of catalyst self-separation can be applied to other reactions. This research often requires knowledge of the molecular structure of the catalyst, and the tungsten catalyst used in this research was deciphered at the National Synchrotron Light Source at BNL. A paper on the structural determination was recently published in *Chemical Communications*.

— Karen McNulty Walsh

Note: More details about this research are at: www.bnl.gov/bnlweb/pubaf/pr/2003/bnlpr073003.htm

Nine Brookhaven Scientists Awarded Tenure

Mark Baker

For his excellence in the study of nuclear reactions of heavy ions at high energies and his outstanding leadership of the PHOBOS experiment at the Relativistic Heavy Ion Collider (RHIC), Scientist Mark Baker of the Chemistry Department was recommended for tenure by then acting Chair Jan Hrbek.

Now serving as PHOBOS deputy spokesperson and leader of the PHOBOS group within Chemistry, "Mark has played a large scientific and leadership role within PHOBOS since its inception as one of the four experiments at RHIC," comments Hrbek. "Not only has he been instrumental in assembling the collaboration of 68 scientists and getting it working cooperatively, but he has also been deeply involved in all aspects of the experiment, from its physics goals to its design and construction as the only experiment capable of global measurements of event properties, to the analysis of its data."

It was Baker's decision to focus the PHOBOS group's efforts on two areas: studying collision thermodynamics through particle multiplicities, which generated the first results from RHIC and the majority of the papers coming out of PHOBOS; and applying what is called the HBT interferometry method from astronomy to imaging nucleus-nucleus interactions, a topic now coming to the forefront. "His contributions have enabled a small experiment to have a large impact on the field of relativistic heavy-ion research," adds Hrbek.

Mark Baker received his 1993 Ph.D. in physics from the Massachusetts Institute of Technology, where he also completed a post-doctoral fellowship, 1993-96, and served as a research scientist, 1996-98. As an associate scientist, Baker joined BNL's Chemistry Department in 1998. He was promoted to PHOBOS group leader and the rank of scientist in 1999. — Marsha Belford



Mark Baker

Brookhaven Science Associates (BSA) granted tenure on June 1 to nine Brookhaven scientists. They are: Mark Baker, Chemistry Department; Leslie Bland, Physics Department; Christopher Homes, Physics; Jean Logan, Chemistry; Ron Pindak, National Synchrotron Light Source Department; David Schlyer, Chemistry; Subramanyam Swaminathan, Biology Department; Dejan Trbojevic, Collider-Accelerator Department; and Gene-Jack Wang, Medical Department.

As described in the Scientific Staff Manual, a tenure appointment "constitutes recognition of independent accomplishment of a high order in the performance of original research or of other intellectually creative activity appropriate to the purposes of the Laboratory.

"Recognition may be earned through significant contributions to knowledge related to the purposes of the Laboratory and/or in furtherance of the aims of the Laboratory, through continuing contributions of outstanding significance to productive uses of the facilities, or through outstanding and creative contributions to their design, development, and improvement."

Tenure appointments are granted by action of the BSA Board after a rigorous selection procedure overseen by the BSA Science & Technology Steering Committee. In making tenure decisions, the BSA Board is advised by members of the Brookhaven Council, whose members are tenured scientific staff, elected for three-year-terms by the scientific staff of their respective departments and divisions.

A description of the accomplishments of each of the nine recent tenured scientists will appear in forthcoming issues of The Bulletin, starting this week with Mark Baker and Leslie Bland.

Leslie Bland

For his leadership of the spin-physics program using the STAR detector at the Relativistic Heavy Ion Collider (RHIC), Physicist Leslie Bland was recommended for tenure by Physics Department Chair Samuel Aronson.

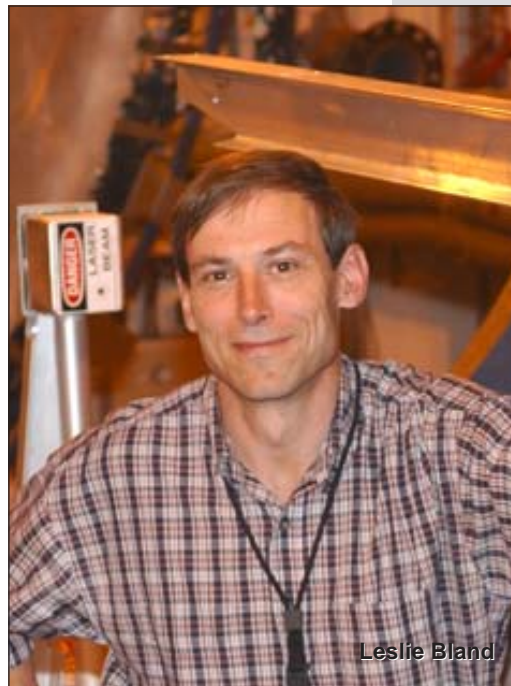
As a tenured professor at Indiana University, "Les began making important contributions to the STAR spin program in 1996, and he has been extremely effective since coming to BNL in 2001," explains Aronson. "Without Les' making the case for and developing several additional detector components, STAR would not have gotten off to the successful start that it did with spin-physics runs of 2002 and 2003."

In addition to Bland's low-energy nuclear physics and spin-physics research record, he is cited for four very recent developments involving STAR: determining the basis of precise anti-quark polarization measurements; making the case for funding an end-cap electromagnetic calorimeter to measure gluon and anti-quark polarization; using a prototype end-cap calorimeter to measure spin asymmetries in the collision of transversely polarized protons; and developing beam-beam counters to trigger STAR readout for proton collisions to provide comparison data for heavy-ion collisions.

In addition, Bland is credited with successfully moving both the forward pion calorimeter and the beam-beam counters from design through successful data-taking. Without Bland's efforts, notes Aronson, "The STAR spin-physics program would not have taken the high-quality data that it did during the polarized proton runs at RHIC."

Leslie Bland earned his Ph.D. in physics from the University of Pennsylvania in 1983. He joined the Indiana faculty in 1984. After 17 years at Indiana, he left in 2001 as a tenured full professor for a continuing appointment as a physicist in BNL's Physics Department.

— Marsha Belford



Leslie Bland

Calendar
of Laboratory Events

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

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes

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

Mon., Tues., & Thurs.: Kickboxing

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

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

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

Mondays: BNL Dance Club Ballroom, Latin & Swing Practice

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

Tuesdays: Welcome Coffee

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

Tuesdays: BNL Music Club

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

Tuesdays: Singles Club

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

Tuesdays: BNL Dance Club Individual & Couples instruction

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

Tuesdays: Toastmasters

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

Tuesdays & Thursdays: Aerobics

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

Tuesdays & Thursdays: Aqua Aerobics

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

Wednesdays: On-Site Play Group

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

Wednesdays: Farmer's Market

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

Wednesdays: Weight Watchers

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

Wednesdays: Yoga Practice

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

Wednesdays: Open Chess Night

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

Wednesdays: Exercise 101

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

Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m. North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

Fridays: Jiu Jitsu Club

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

— THIS WEEKEND —

Sunday, 8/3

*Summer Sunday Tour

10 a.m.-3 p.m. Tour features BNL's National Synchrotron Light Source and an overview of the Lab's nanoscience research initiatives. For more information, see the notice on page 4 or visit www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— WEEK OF 8/4 —

Tuesday, 8/5

1 Wireless World Demo

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

Wednesday, 8/6

Grainger Industrial Supply Demo

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

BNL's Occupational Medicine Clinic Earns High Marks
Awarded Second Three-Year Accreditation by AAAHC



Joseph Rubino 00090703

Members of BNL's Occupational Medicine Clinic include: (back row, from left) Denise Rodgers, Robyn Koebel, Michael Thorn, Joseph Falco, John Heinrichs, Kathleen Herbert, Lisa Folk*, Carol Davis, Joyce Vail, Patricia Snyder, Joseph Gisondo, and Linda Cavaliere; (front row, from left) Janet Sicora, Diane Carlson, Linda DiPierro, Emmanuel Dador, Moira Raynor, OMC Manager Laura Sbarra, and Deborah Maresca*.

*The photos of these persons were added digitally after the group photo was taken.

The Accreditation Association for Ambulatory Health Care (AAAHC) granted a second three-year term of accreditation to BNL's Occupational Medicine Clinic (OMC) on January 31, 2003. OMC is one of eight DOE medical clinics to be awarded full accreditation, and one of only four medical programs obtaining a second three-year term.

BNL's OMC, in the Human Resources & Occupational Medicine Division, provides services to ensure the good health of Lab employees, facilitates the care and rehabilitation of injured or ill employees, and provides professional guidance in matters of health, safety, and emergency preparedness.

AAAHC takes many factors into account in determining whether

a health-care facility will be accredited: the rights of individuals who receive care, governance, administration, quality of care provided, quality management and improvement, clinical records, professional improvement, clinical records, professional improvement, and facilities and environment.

"Accreditation highlights OMC's commitment to providing quality care to Lab employees," said OMC Manager Laura Sbarra. "An ambulatory health care organization that seeks AAAHC accreditation undergoes an extensive on-site, peer-based survey of facilities and services. This achievement demonstrates the excellence of OMC staff members and their ability to meet nationally recognized occupational health-care standards." — Liz Seubert

Inside Info

The Per Bak Memorial Symposium and Workshop will take place in August in Copenhagen, Denmark, at the Niels Bohr Summer Institute on Complexity and Criticality. Per Bak, who died in 2002, spent much of his scientific career in BNL's Physics Department, working on critical phenomena and phase transitions in materials. His most significant contribution was the development of the theory of self-organized criticality. The symposium in Bak's honor will be held from August 21 to 23, and the workshop, from August 25 to 30. The list of speakers includes BNL's Michael Creutz and Sergei Maslov of Physics.

In Memoriam

Rolf Lindgren, who had joined BNL's Plant Maintenance Division as an engineer on January 17, 1966, and had left the Lab on September 19, 1977, died on June 6, 2002. He was 77.

Quentin Beitel, who had come to the Plant Engineering Division on January 25, 1965, to be a custodian, and had retired from the Instrumentation Division on October 24, 1980, as a senior office services assistant, died on January 25, 2003. He was 84.

William Harrison, who had joined the Alternating Gradient Synchrotron Department as a development engineer II on July 15, 1963, and, after 30 years of service, had retired on December 31, 1993, as a Relativistic Heavy Ion Collider Project senior project engineer, died on February 15, 2003, at age 72.

George Gerle, who had taken a custodial position with the Plant Engineering Division on November 23, 1970, and had retired on June 27, 1980, died on February 26, 2003, at age 87.

Luise Hillen, who had come to BNL's Medical Department as a registered nurse on September 16, 1957, and had retired as Head Nurse on March 29, 1974, died on February 26, 2003, at age 90.

William Johnston, who had taken a position as a refrigeration and air-conditioning engineer in the Plant Engineering Division on April 14, 1958, and had retired on March 23, 1984, died on April 7, 2003. He was 84.

Robert Mosley, who had joined the Plant Engineering Division as a custodian on February 18, 1963, and had become a firefighter in 1968, died on April 22, 2003, at age 69. Before he had retired on August 5, 1985, he had risen to be a firefighter/emergency medical technician.

Michael Bender, who had been a guest research collaborator in the Medical Department for a year before joining BNL as a senior scientist on July 11, 1975, died on April 25, 2003, at the age of 73. He had been awarded tenure in 1977 and had retired on November 30, 1997, returning as a guest scientist from March 6, 1998, until September 26, 2002.

Albert Geiger, who had joined the Central Shops Division as a machinist on May 9, 1955, died at 83 years old on May 5, 2003. He had retired on April 3, 1982, as an experimental machinist.

Wanted: Help for Big Brothers Big Sisters

The Big Brothers Big Sisters (BBBS) organization needs more help. BNLers may donate household goods, clothing, and toys in the collection boxes located at the Brookhaven Center; Berkner Hall; Plant Engineering Bldg. 134C; Staff Services Bldg. 179B; Office of Management Services, Bldg. 527; Director's Office Bldg. 460, DOE Bldg. 464, and Photography & Graphic Arts Bldg. 197B. Tax-deductible forms are available at each box. For more information or to arrange pickup from your home, call Karen Adelwerth, Ext. 4262.

To become a Big Brother or Big Sister, call the Lab's BBBS liaison people: Adelwerth, Ext. 4262, and Celeste Tymann, Ext. 2551; or call BBBS at: Southampton, 631 287-0086; Holbrook, 631 467-8144; or Levittown, 516 731-7880. There is an urgent need for Big Brothers. For more information, go to www.bbbsli.org.

BNLers Adelwerth and Tymann's efforts to get help for BBBS 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/body.htm.



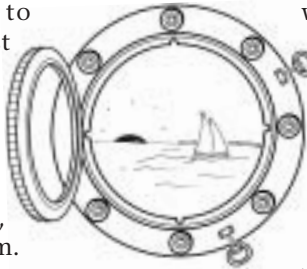
Take a Ship Trip on Port Jeff Ferry, 8/13

The BNL Hospitality Committee invites the entire Brookhaven Lab family and guests to join the third annual Port Jefferson Sunset Cruise. On Wednesday, August 13, join the group to cruise the newest ferry in the fleet, the *Grand Republic*, across Long Island Sound and back. The ferry departs at 6 p.m., returning at 9 p.m. Bring a picnic dinner or purchase snacks on board and enjoy live Reggae music on the ship's deck. Other items to bring include a sweater, and, perhaps, a camera. **Directions:** From the Lab, go north on William Floyd Parkway, then west (left) on Rt. 25A

to Rt. 112. Go north on 112, following the signs to Port Jefferson. Rt. 112 becomes Main Street in Port Jefferson and leads to the ferry dock. Ferry lot parking is free for cars with a Brookhaven township sticker, and also free in the large public lot behind the shops on the west side of Main Street (Rt. 112).

Ship boarding begins at 5:45 p.m.

There are no advance ticket sales. Purchase tickets on board at special BNL discount rates by asking for the BNL rate of \$11 for adults and \$7 for children 6-12. Children under 6 cruise free. Any questions? Call Erin Rogers, Ext. 8481.



BNL, FWS Help *Newsday* With Nature Photo-Op



Roger Stoutenburgh DO50603

At left: *Newsday* photographer John Paraskevas (right) videotapes an eastern hognose snake shown to him by (from left) BNL's Kristine Hoffmann and Tim Green, and U.S. Fish & Wildlife Service's Jeremy Feinberg.

Below: Jeremy Feinberg, U.S. Fish & Wildlife Service, holds an eastern hognose snake, a rare and harmless reptile found on the BNL site.



Roger Stoutenburgh 0110603

In the Bulletin of May 9, Jeremy Feinberg from the U.S. Fish & Wildlife Service at the on-site Upton Reserve and Tim Green, BNL's Cultural and Natural Resource Manager, announced that they were conducting conservation-related research on eastern hognose snakes, rare and harmless reptiles found on the BNL site. Lab staff and visitors were asked to contact Feinberg or Green as soon as possible if they spotted the snake. Since then, say Feinberg and Green, their research has been aided by calls describing sightings.

Then, another call came in — from *Newsday*, saying that a photo of this snake would be of interest for the ongoing *Newsday* series “Our Natural World.” When *Newsday* photographer

John Paraskevas visited BNL in July, BNL intern Kristine Hoffmann, Green, and Feinberg helped him capture the eastern hognose on videotape. And Lab photographer Roger Stoutenburgh was also on hand to snap another angle of the event.

The Upton Reserve has been a productive resource for *Newsday*'s nature series, with Green, Feinberg, and Peter Kelly, also of the Fish & Wildlife Service, interviewed repeatedly. DOE has been supporting the Upton Reserve since November 2000, providing funds for staffing and research projects. DOE funding will eventually cease. Planning for that time, Green and others are working to raise private support to continue the research. — Mona S. Rowe

‘Learn to Be Tobacco Free’ Smoking Cessation Program at BNL

The Occupational Medicine Clinic's Health Promotion Program is sponsoring an on-site smoking cessation program entitled “Learn to Be Tobacco Free,” which is presented by the Suffolk County Department of Health Services and demonstrates a success rate of over 60 percent.

The program is conducted under the direction of a certified nurse practitioner. In addition to learning about what happens to your body and what to expect during the first few days and weeks after quitting, prescription medication as well as nicotine replacement products will be available to medically eligible participants.

The program will run for six consecutive weekly sessions from noon to 1 p.m. in the small conference room in Bldg. 490 beginning on Tuesday, September 9. To register, contact Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

Bus Trip to the Cradle of Aviation, 8/23

All are invited on a bus trip to the Cradle of Aviation Museum and IMAX movie theater in Garden City on Saturday, August 23. The bus departs the Recreation Hall at 1 p.m. and returns from Garden City at 5 p.m. Tickets, at \$20 for adults, \$15 for children ages 2 to 14, include bus transportation, admission into the aviation museum, a virtual reality ride, and an IMAX big-screen movie. To purchase tickets or for more information, contact Jennifer Lynch, Ext 4894, or lynch@bnl.gov. For more information about the Cradle of Aviation/IMAX movie theater, go to www.cradleofaviation.org.

Arrivals & Departures

Arrivals

Babak Azmoun Physics

Departures

Veronica Varlack Staff Svcs.

Retirement Counseling

A TIAA-CREF representative will visit BNL on Friday, August 15, to answer employees' questions regarding the TIAA-CREF retirement plan, such as TIAA and CREF differences, allocating funds between TIAA and CREF, options, flexibilities with TIAA-CREF, and retirement options. For a 45-minute appointment, call Valerie James, (800) 842-2733, Ext. 7980.

Lyme Update, 8/21

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

Start on Retirement Workshop, 9/4

Fidelity Investment representatives will hold a “Getting Started on Your Retirement” workshop from noon to 1 p.m. on Thursday, September 4, in Berkner Hall.

All are welcome to attend the workshop, which is part of the Human Resources & Occupational Medicine Clinic Division's “Money Talks” series. Participants will be helped to discover how they may create a retirement suited to their needs. Topics will include:

- How much money might be needed in retirement
- Why it is important to start saving today
- How even small amounts can add up to a more secure retirement.

Register for the workshop by completing the form sent to all employees and returning it to Joyce Wund, Bldg. 185, by August 22.

Tennis Tournament

BNL community tennis players — sign up now for this year's annual Tennis Tournament, which starts on Monday, August 11 and ends after Friday, August 29. The tournament may include men's singles and doubles, women's singles and doubles, and mixed doubles, depending upon the number of participants.

The entry fee is \$4 per person for each event. Register by Tuesday, August 5, in the BERA Sales Office, where tournament rules will be available.

The draw will be posted at the Sales Office and by the tennis courts. Play matches any time after the draw is posted, but play must be completed by the scheduled dates.

For more information contact Joe Carbonaro, Ext. 5139, or Ken Perkins, Ext. 2147.

Fire Hydrant Flushing Next Week: August 4-8

To improve the quality of BNL water delivered to the consumer's tap by eliminating “rusty” water, the Lab's fire hydrants will be flushed Monday to Friday, August 4-8, as follows:

- Mon. 8/4: Rutherford and Lawrence Drives
- Tue. 8/5: Upton Road and through the apartment area
- Wed. 8/6: Cornell Avenue and its cross streets
- Thu. 8/7: Brookhaven Avenue
- Fri. 8/8: Bell Avenue

During and after hydrant flushing, run the water in the sink, fountain, or shower to flush discolored water from the tap. In some places, it may take 5 or 10 minutes until the water runs clear.

To make sure that discolored water is not used for washing clothes, the laundries in the apartment area and Curie and Cavendish Houses will close at 8 a.m. on Tuesday, August 5th. The laundries will reopen on Wednesday, August 6th, at 10 a.m., at which time the washing machines will be ready for use with clean water.

For more information, call Marsha Belford, Ext. 5053; Bill Chaloupka, voice pager 0552; or go to www.bnl.gov/bnlweb/pubaf/water/quality.htm.

Calendar

(continued)

Thursday, 8/7

Cycletrons Motorcycle Club Meeting
4:45 p.m., Brookhaven Center. All are welcome. For more information, contact Frank Dusek, Ext. 2022.

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

Friday, 8/8

GLOBE Meeting
The Gay, Lesbian, and Bisexual Employee Club at BNL will hold its monthly meeting at 7 p.m. For the meeting's location, contact Debbie Bauer, Ext. 5664, or Mike Loftus, Ext. 2960. For more information about the GLOBE club, see www.bnl.gov/bera/activities/globe.

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

Sunday, 8/10

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

— WEEK OF 8/11 —

Tuesday, 8/12

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

Thursday, 8/14

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

Saturday, 8/16

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

Sunday, 8/17

Summer Sunday Tour
10 a.m.-3 p.m. Tour features BNL's Relativistic Heavy Ion Collider. For more information, go to www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— WEEK OF 8/18 —

Thursday, 8/21

Healthline Lecture: Lyme Disease
Noon, Berkner Hall. David Grahm, Director of Public Health of the Suffolk County Department of Health, will present an update on Lyme Disease. Registration is required. Check your mailbox for registration forms, which must be returned to Linda DiPierro, Bldg. 490, by Friday, August 8. For more information, contact DiPierro at Ext. 2733.

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

Saturday, 8/23

Bus Trip to the Cradle of Aviation
Bus departs the Rec. Bldg. at 1 p.m. and returns from Garden City at 5 p.m. Tickets, at a cost of \$20 for adults, \$15 for children ages 2 to 14, include bus transportation, admission into the aviation museum, a virtual reality ride, and an IMAX big-screen movie. For more information and to purchase tickets, contact Jennifer Lynch, Ext 4894, or lynch@bnl.gov. For more information about the Cradle of Aviation/IMAX movie theater, go to www.cradleofaviation.org.

Sunday, 8/24

Summer Sunday Tour
10 a.m.-3 p.m. Tour features BNL's Emergency Services and Plant Engineering Divisions. For more information, go to www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

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

THIS SUNDAY, 8/3

National Synchrotron Light Source, Nanoscience

This Sunday, August 3, the visitors to BNL will see the National Synchrotron Light Source — a world-famous center where scientists make hundreds of discoveries that benefit everyone. This research, for example, has led to learning the structure of the AIDS virus, the development of computer-chip components, the density of bone, and the composition of moon rocks.

Also on this Sunday, visitors will be able to learn about nanoscience, the newest wave of technological discovery at the Lab.

Every Sunday, in addition to the featured tour, visitors will see:

- “Brain Matters,” a hands-on exhibit on the brain
- “Whiz Bang Science Show,” at 10:30 a.m., noon, 1:30 p.m., and 3 p.m. Children and adults can learn scientific principles by watching lively, interactive demonstrations at this fun show
- Poster on the 2002 Nobel Prize in Physics won by BNL scientist Ray Davis
- Camp Upton Historical Collection: memorabilia from World Wars I & II.

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

Summer Sundays

Classified Advertisements

Placement Notices

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

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates. MK2769. ASSOCIATE SCIENTIST (S-2) – Requires a Ph.D. in physics, chemistry, materials science, or a related field and demonstrated capability to create and lead a research program. Required specialized experience includes characterization of physical properties of nanotube materials, including optical studies, ultra fast laser systems, scanning probe techniques, and ultrahigh vacuum techniques. Experience mentoring postdocs and students is also required. Experience in nanomaterials theory and electron spectroscopy desirable. Will join a group in nanomaterials science working on controlled multiple functionality in nanotube materials. Will work with researchers who have capabilities in nonmaterial synthesis and functionalization, and characterization of single nanotube molecules. Under the direction of J. Misewich, Materials Science Department.

TB2622. ADMINISTRATIVE ASSISTANT (A-2 / Term Appointment) - Requires an AAS degree in business, accounting or a related field, Bachelor's degree desirable. Must have knowledge of MS Excel; MS Access experience and familiarity with PeopleSoft is desirable. Responsibilities will include administrative duties related to the NSLS stockroom, NSLS space charge generation, assistance with procurement activities and other duties in support of the NSLS Budget/Administration Group. National Synchrotron Light Source Department.

Motor Vehicles & Supplies

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

00 CHEVY CAVALIER - silver, 4-dr., a/t, a/c, p/s, p/w, 22K mi., ABS., dual front airbags, excel. cond., \$6,950. 732-6079.

99 DAEWOO LAGANZA - cdx sedan, tan, all power, moonroof, new tires, 62K mi., \$5,400 neg. Maria, 696-5358.

99 HYUNDAI ACCENT L - 5-spd., keyless entry, alarm, must sell, \$2,950 obo. Ext. 6263.

99 VOLKSWAGON PASSAT - a/t, a/c, p/s, p/b, p/w, 64.5K mi., excel. cond., in/out, 8K left on B/B warr., 6-disc. CD changer, all records. Louis, Ext. 4312 or 732-1028.

98 CHEVY MALIBU - sandrift, all power, a/c, am/fm/CD player, spoiler, moonroof, tan leather int., must see, \$5,000. Ext. 7918 or 821-1271.

97 MAZDA PROTEGE LX - blue, CD player, 5-spd., all power, 75K mi., \$4,500. Lee, 516-901-6349.

97 SAAB 900SE TURBO - beige, tan leather int., all power, 40K mi., mint cond., \$9,500. Steven, 864-0047.

96 CHEVY CAVALIER LS - white, 4-dr., all power, excel., 65K mi., \$4,990; 89 Chevy Corsica - a/t, a/c, p/s, p/b, 32K mi., v.g. cond., v. low mi., \$1,975. Ed, Ext. 4188 or 218-7609.

95 FORD T-BIRD - V8, all power, suntop, hwy. mi., good cond., all inspections, no rust, 121K mi., \$3,600. Jamal, Ext. 5805 or 804-2959.

93 FORD PROBE GT - red, 5-spd., recent battery, brakes, tires, timing belt & exhaust, D/S air bag, 105K mi., \$2,200. Tirre, Ext. 3288 or 281-0360.

93 SUBARU IMPREZA - all power, new tires, 163K mi., good cond., must sell, \$1,300. Judy, 751-8351.

Bicycle Safety at BNL

Since many people are riding bicycles around the Lab site, the BNL Traffic Safety Committee reminds all bicyclists to take extra care, especially after dark, and to follow the following safety rules:

- Ride near the right curb or edge of the road, or on a usable right shoulder of the road, to avoid undue interference with other traffic. This rule does not apply when a bicyclist is preparing for a left turn or has to move left to avoid hazards
- Come to a full stop before entering a roadway from a driveway, alley, or over a curb
- Never travel more than two abreast in a single lane
- Do not ride on a sidewalk
- Bicyclists and their passengers, ages 13 and younger, must wear an approved helmet and obey local laws and regulations concerning helmet use for adults
- Signal all turns, lane changes, and stops using the hand signals shown below



- Do not carry a passenger unless the bicycle has a passenger seat.

Remember, drivers of all vehicles, as well as bicyclists, must remain alert and comply with all New York State traffic laws. For more information about traffic safety at BNL, go to www.bnl.gov/est/shsd/traffic or <https://sbms.bnl.gov/ld/ld08/ld08d211.htm>.

Volunteers Needed to Assist With Flamenco Concert

The Hispanic Heritage Club is seeking volunteers to assist with the Flamenco Concert, which will be held at BNL on Sunday, October 12, from 3 to 6 p.m. in Berkner Hall. To offer assistance, contact Omar Gould, Ext. 2656, or ogould@bnl.gov; or Carmen Narvaez, Ext. 3254, or narvaez@bnl.gov.

91 CAMARO - white, V8, RS, t-tops, auto., good shape, \$2,000 firm. Frank, Ext. 3499 nights.

90 VOLKSWAGON - 5-spd., 103K mi., runs, needs clutch, many new parts, \$500. Gregory, Ext. 4331.

89 VOLKSWAGON JETTA - a/t, p/s, p/b, 4-dr. sedan, Wolfsburg Edition, 89K mi., \$1,600. Walter, Ext. 4958 or 692-5326.

87 VOLVO 760 - 182K mi., good cond., \$1,200. Ext. 2058.

86 TOYOTA CAMRY - 5-spd., a/c, good cond., reliable, 94K mi., \$900. Pete, Ext. 5114.

73 DODGE CHARGER - 318 eng., runs well, needs body work, \$650 firm. 395-8329.

CARTOP CARRIER - Sears, w/high enclosed top, perfect for transporting items to college, \$50. Carol, 744-8632.

ENGINE - 3.5 h.p. Tecumseh, 2-stroke multipurp., runs well, orig. for snow blower, mounts easily, \$75 neg.; engine, go-cart, 5 h.p., Briggs & Stratton, fun-power, low hours, great cond., \$150 neg. Travis, 289-9533.

TIRES - 4 Bridgestone Blizzak , mounted on alum. wheels, 185/70R14, slightly used, \$200. 929-4903.

Boat & Marine Supplies

26' O'DAY SAILBOAT - '97 Yamaha 9.9 four-stroke eng., Sunbrella Bimini, Harken furling, dockside power, loaded, ready to sail, located in east end north shore marina, \$11,465. Al, Ext. 4095 or 734-2846.

23' PEARSON P23 - '79, v.g. cond., sleeps 4, galley, head, 3 sails, 7.5 h.p. outboard, \$5,300. John, Ext. 2788.

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

19' REGAL BOWRIDER - '86, eng. needs work, not in running cond., interior needs work, exterior like new, CB radio, depthfinder, skis, spare prop, w/trailer, \$2,700. Steve, 981-6739 or 928-6469.

17' COBIA - '65, new seats, E2 loader trailer, 60 Johnson eng., needs work, \$400; '76 40 h.p. Lark outboard eng., runs very well, \$300. Jim, 395-8329.

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

SUNFISH - needs minor fiberglass work. \$400. Anne, 751-1126.

Furnishings & Appliances

AREA RUG - 8x10, off-white, geometric pattern, fringe on both ends, \$40. Sandra, 447-1423.

COFFEE TABLE - wicker, \$45; Kitchenette table w/swivel chairs, seats six, \$150. Dave, Ext. 5460.

COMPUTER DESK - \$15. Yang, Ext. 3663.

COMPUTER CABINET/ARMOIRE - 52"H x 40"L x 24"W, light cherry wood, mint cond., pullout keyboard tray, printer shelf, storage areas, cost \$500, ask. \$300. Mike, 567-9362.

COUCH - white leather, great cond., \$300. Laurie, Ext. 5520.

COUCH - sectional, off white w/pink, green & purple throughout, pillows included, \$500; brass & glass coffee and end tables, \$200/ea. Tom, Ext. 3085 or 744-4535.

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

DRESSER - contemporary, five drawer, 36"W x 48"H x 18"D, excel. cond., \$95. Les, Ext. 2920.

JACUZZI - luxury, Whirlpool bath, fits 2 people, 72" x 60" x 20", brand new in the box, \$1,500. Chris, 821-2647.

RECLINER - burgundy velvet, mint cond., \$300. Laurie, Ext. 5520.

TABLE - dining room table, 44" diameter w/two additional leaves, \$90 obo. Ernie, Ext. 7406.

Tools, House & Garden

CEILING FAN - 42", \$10, galvanized outdoor clothes dryer, \$10, wall-mounted light brushed Nickel Hampton Bay, \$10, all in box, never used. Samantha, Ext. 3471 or 821-9073.

FOOD SEALER - Pak & Save vacuum food sealer, almost new, \$40; Welbilt Microwave, \$20; Pasta Maker, \$20; Dirt Devil Broom Vacuum, \$10. Carol, 744-8632.

LAWN EDGER - gas powered, Toro, \$175. Joe, Ext. 3783 or 929-8321.

LAWNMOWER - Snapper, bagging, mulching, discharge, 5.0 h.p., good cond., \$45. Yang, Ext. 3663.

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

LEAF VACUUM - Billy Goat, good cond., just in time for the fall leaf cleanup, best offer over \$250. Tim, 208-0408.

OUTDOOR AWNING - alum., three 8' x 6' sections, included hardware. John, Ext. 2788.

Sports, Hobbies & Pets

BICYCLE - women's Raleigh Grand Prix, 10-spd. racer, quick-release wheels, generator, excel. cond., \$55. 473-6546.

BICYCLE - Huff, boys, excel. cond., \$40; Nordic Track Versalift, excel. cond., used once, \$60; pet carrier, plastic, for pet under 10 pounds, \$15. Carol, 744-8632.

HOCKEY - goalie pads, KOHO, \$50; goalie mask, \$20; goalie skates, player skates, player gloves, etc. Pete, Ext. 4819.

RV COOKTOP - three burner, good cond., for RV or pop-up, \$75. Tim, 208-0408.

STAIR STEPPER - \$35. Corinne, 654-3697.

WEIGHT BENCH - 140 lbs. of vinyl wrapped weights, std. bar & curl bar, Weider brand, \$50. Mike, Ext. 7941.

WEIGHT BENCH - like new, w/lat. pull down & other attachments, \$50 obo. Nancy, Ext. 4303.

Free

CAT - need good home for 6 year old black & white indoor cat, neutered. Carol, 744-8632.

APAA Summer Picnic Today



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

Two Yankee Bus Trips

A few tickets remain to watch the New York Yankees play the Seattle Mariners on Friday, August 8. Or, take another BERA-sponsored trip to see Yankees on Friday, September 12. Each trip costs \$55/person, covering the price of the ticket and a luxury coach, which will leave the Brookhaven Center at 4 p.m. Buy tickets in the BERA Sales Office, weekdays, 9 a.m.-3 p.m.

Audio, Video & Computers

CABINET - AMPEG V4B base cabinet, 400 W, very lg. \$400, used once, 2 Numark Direct Drive turntables, \$250. 654-3697.

COMPUTER SPEAKERS - Labtec LCS - 2424, powered subwoofer, 2 satellites, 32 watts RMS, \$20. Ext. 7329 or 474-0056.

RECORDER - Sony Tivo 30 hr., cost \$400, ask. \$225. Jim, 395-8329.

SONY RECEIVER - Sony surround sound receiver w/remote, \$35. Dave, Ext. 5460.

Miscellaneous

BAR - small deck bar, w/shelves. Gary, Ext. 2214.

CHAIR MASSAGER - Homedics, multiple zones/speeds, \$25. Carol, 744-8632.

TICKETS - 2, to Bon Jovi at Giants Stadium, 8/7, 6 p.m., section 319, row 2, seats 21 & 22, face value, \$67/ea. Mike, Ext. 7941.

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

WINTER COVER - also set up w/pool vac., 18 ft. round above ground. Ext. 7238.

Yard & Garage Sale

MEDFORD - 12 Home Drive, 8/16, 10 a.m.-4 p.m., children's games, books, household items, call for directions. 289-9533.

Wanted

HORSE - to share w/experienced rider, 2 days/wk., preferably at a place w/indoor arena. Angelika, Ext. 2348.

RESEARCH VOLUNTEERS - men and women who smoke cigarettes, 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 paid, also have some sets for sale. Bruce, 924-4097.

On-Site Services

ENTERPRISE RENT-A-CAR - Enterprise offers all BNL employees and visitors weekend rates for the weekends of August 2003. For information, call Jen, Ext. 4888.

Happening

JURIED ART SHOW - This Sat. & Sun., 8/2 & 3, 10 a.m.-6 p.m., ex-BNLer Nick Weih will show art works at the exhibition on Westhampton Beach village green.

In Appreciation

Thank you to my co-workers, the Post Office & my friends who came to wish me well on my retirement. I will miss all of you!
— Veronica Varlack

On the web at the address below, or available by calling Ext. 2345, the Bulletin advertises many services offered by employees, ranging from dentistry to housecleaning to jewelry mending or making to land clearing, tutoring, and much more.