the Bulletin

BROOKHAVEN NATIONAL LABORATORY

Vol. 56 - No. 38 November 1, 2002

Long Island Business News Names BNL's Paul Kalb 'Innovator of the Year'

Roger Stoutenburgh D2491002

Paul Kalb of the Environmental Sciences Department (ESD) was one of seven Long Islanders honored as an "Innovator of the Year" by *Long Island Business News* at its fourth annual awards luncheon, held on October 2. A panel of judges from business and academia chose the seven innovators, each of whom received an engraved sculpture in the shape of a light bulb.

Kalb won the honor for his efforts in developing a patented technology called sulfur polymer stabilization/solidification (SPSS), which makes the disposal of mercury more practical and safer, compared to existing disposal methods. BNL has licensed this technology to Newmont Technologies Limited, an affiliate of Newmont Mining Corporation, the largest gold producer in North America. Mercury is a toxic by-product of gold mining.

"I am pleased to be recognized for the mercury-waste clean-up technology," Kalb said. "This has been a real team effort, and many colleagues have provided significant contributions to the ultimate success of the process. It is especially rewarding to see this technology advance from the laboratory to industry, where it is solving a real problem."

In SPSS, toxic liquid mercury is mixed with sulfur polymer cement and small amounts of additives in a heated

(continued on page 2)

Role of Cancer Protein Identified By Princeton, LBNL Teams at NSLS

Scientists working at BNL's National Synchrotron Light Source (NSLS) have unveiled the details of an important cancer protein. Though the protein, called Ski — for Sloan Kettering Institute, where it was identified in the early 1980s — is known to trigger tumor growth, how it does this is still not well understood. The new results, which are reported in the November 1 issue of *Cell*, shed light on this process and may provide ways to design new anticancer drugs.

"We now have a very important clue as to how Ski interferes with key proteins that prevent cells from becoming cancerous," says Yigong Shi, a molecular biologist at Princeton University. Shi leads one of the two teams, one from Princeton and one from Lawrence Berkeley National Laboratory (LBNL), that conducted the study, which is supported by the National Institutes of Health and the Searle Scholar and the Rita Allen Foundations.

"Understanding how to stop Ski from disrupting the normal function of cells will probably be key to developing new anticancer drugs," continued Shi.

Ski prevents a protein called transforming growth factor-beta (TGF-β) from safeguarding cells against excessive growth.

"TGF-β acts like a molecular traffic light, ordering certain cells to slow down and stop dividing," Shi says. "When TGF-β is blocked, for example by Ski, cells manage to speed through this checkpoint, triggering runaway cellular growth that eventually results in cancerous tumors."

TGF-β cannot enter cells, so it transmits its signal inside the cell by attaching to receptor proteins on the cell's outer surface. The signal generated by this interaction is carried across the cell membrane to proteins inside the cell.

Some of these signaling proteins are triggered inside the cell cytoplasm and later bind to other proteins inside the nucleus. The combination of both types of signaling proteins activates genes necessary for the normal functioning of the cell.

Overall structure of the complex of Ski and a nuclear signaling protein.

Ski, which is already present in the human body, disrupts the signaling proteins when it is either overexpressed or introduced by a virus inside the body. The new study focused on the first of these two possible processes.

"Scientists have previously shown that Ski disrupts normal cell functioning by directly disrupting the expression of genes inside the cell's nucleus," Shi says. "But nobody has ever investigated whether Ski could disrupt the signaling proteins that activate the genes."

The Princeton team looked at the molecular details of a complex made of Ski and nuclear signaling proteins by using x-rays generated at the NSLS.

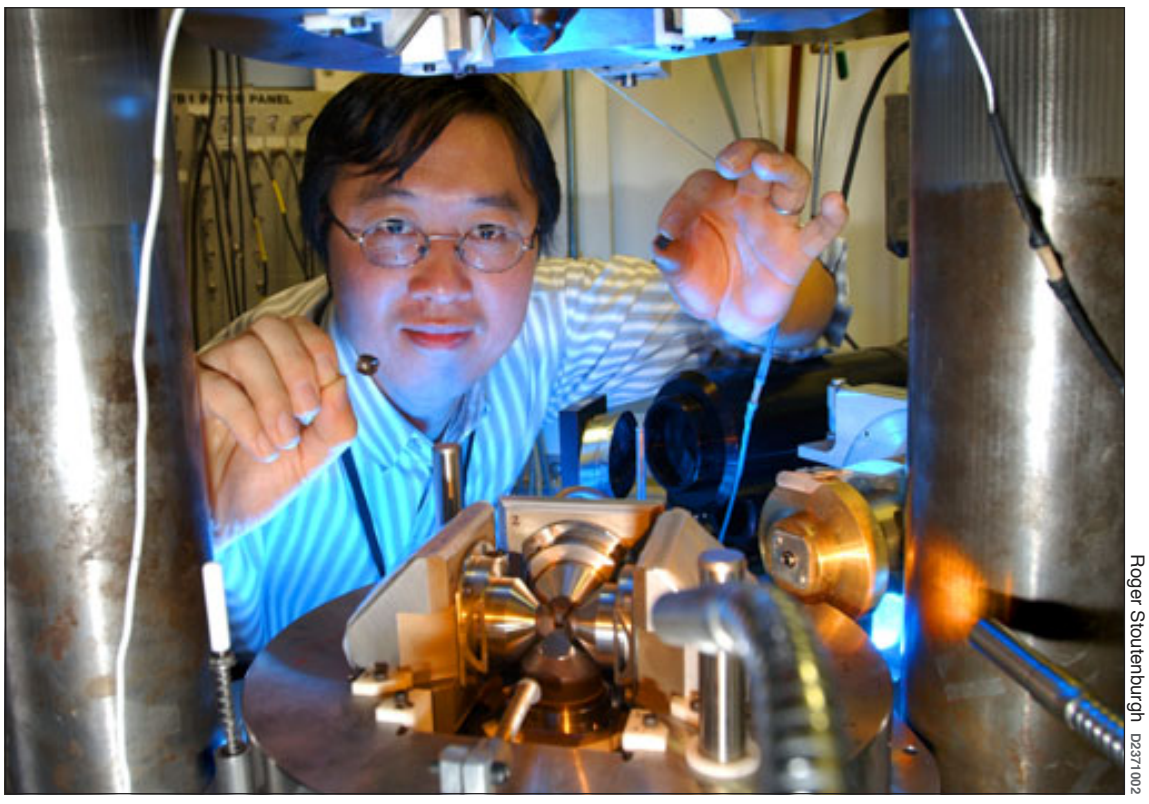
(continued on page 2)

SBU Researchers at the NSLS Discover Properties of Perovskite, Explain Why No Earthquakes Start in Earth's Lower Mantle

Recent research at the National Synchrotron Light Source (NSLS), reported in the October 24 issue of *Nature* by Stony Brook University (SBU) scientists, illustrates for the first time why earthquakes do not start in the Earth's lower mantle, the lower part of the roughly 1,400-mile-thick portion surrounding Earth's core.

Using bright, hard x-rays from the superconductor wiggler beam line X17 of the NSLS, Jiuhua Chen of SBU's Mineral Physics Institute led research in measuring the strength of $Mg_{0.9}Fe_{0.1}SiO_3$ perovskite, a dominant mineral of the lower mantle, at high pressure and temperature. Collaborators in this research, which is funded by the National Science Foundation, are Donald Weidner and Michael Vaughan, both of SBU.

"We found that the perovskite not only is stronger than other minerals at high pressure and temperature, but also has a temperature-insensitive plastic-flow character," said Chen. "The result revises the existing prediction of the rheological property — which is the flow of a material under stress — of Earth's lower mantle and thus supplies the first experimental evidence for understanding why earthquakes do not start in the lower mantle.



Roger Stoutenburgh D2371002

Jiuhua Chen is at beam line X17B at the National Synchrotron Light Source, where a Stony Brook University team has developed equipment that can simulate temperature and pressure conditions needed for studying Earth's structure and dynamics.

"This result also sheds light on many other of Earth's dynamics," added Chen.

He explained that, from surface to center, Earth's structure is made up of the crust; the upper mantle; the transition zone; the lower mantle; the outer core, which is liquid; and the inner core. Earth's crust is divided into areas called tectonic plates which move separately and rub against each other.

Some earthquakes occur when adjacent plates "catch" and then suddenly release the pressure that has built up over time. These are called near-surface or shallow earthquakes. When two plates collide, the thinner, denser plate is forced under the thicker, lighter plate and sinks deep into the mantle. This process is called subduction.

Earthquakes can also start along the subducting slab. These earthquakes are called deep earthquakes.

"Our result helps in understanding more about the deflection of the subducting slab at the top of the lower mantle, because the strong perovskite may create a mechanical barrier to the subduction," said Chen. "We can now also predict a viscosity jump at the boundary between the transition zone — the portion of Earth that is between 250 and 410 miles deep — and the lower mantle, which is very important information for modeling convection processes in Earth."

Chen explained that the mechanism of deep earthquakes has been a long-standing question. Geophysicists know that seismic observations show no earthquakes starting in the lower mantle, but until the SBU study of perovskite, the reason was unclear.

"We have studied the rheological properties of many

(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. Bldg.) 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.

Mondays: BNL Gospel Choir

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

Mon., Tues., & Thurs.: Kickboxing

$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

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. Bldg. 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: Aqua Aerobics

5:15-6:15 p.m. $2 pool fee per class or use pool pass. Mary Wood, Ext 5923.

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/toastmstrs/default.htm.

Tuesdays & Thursdays: Aerobics

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

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Bldg. A infant/todler 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: Hispanic Heritage Club

11:30 a.m., Berkner Hall, Room D. All are welcome. Carmen Narvaez, Ext. 3254, or www.bnl.gov/bera/activities/hispanic.

Wednesdays: Weight Watchers

Noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesdays: Yoga Practice

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

Wednesdays: Open Chess Night

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

Wednesdays: Excercise 101

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

Wednesdays: Dance Club Group Lessons

5-9 p.m. North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl. gov or Ext. 5053.

Thursdays: Science Discussion Group

12:30-1:30 p.m., Berkner Hall, Room A or D. Patrice Pages, Ext. 3270, pages@bnl.gov.

Fridays: BNL Social & Cultural Club

8-11:30 p.m., Brookhaven Ctr., social. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

Saturdays: BNL Dance Club Monthly Ballroom Dance Social

8-11:30 p.m. Ballroom, Latin & swing dancing, North Ballroom, Brookhaven Center. 10/5, 11/9, Tuesday 12/31, 1/25. 2/15, 3/15, 4/12, 5/17. Marsha Belford, belford@bnl.gov or Ext. 5053.

— NEXT WEEK —

Monday, 11/4

NNDC Golden Jumilee

2 p.m., Berkner Hall. To mark the National Nuclear Data Center's 50 years of continuous service to the nuclear physics community and applied users, all former and present staff members and colleagues of the Data Center are invited to an afternoon of reminiscences. See announcement, top right, page 2 or go to www.nndc.bnl.gov.

In Memoriam: Lyle Borst

Lyle Borst, a nuclear physicist who led the design and construction of BNL's first nuclear reactor, the Brookhaven Graphite Research Reactor (BGRR), died on July 30. He was 89.

Borst began to assist with the new reactor project for what was to be BNL, in May 1946, even before the Upton site was chosen. He had earned a doctorate at the University of Chicago in 1941. In 1942, he had joined the metallurgical laboratory in Chicago where Enrico Fermi conducted the first self-sustaining nuclear chain reaction. An early member of the Manhattan Project, Borst then became supervisor of research at the second nuclear reactor ever built, the X-10 at Oak Ridge, which came on line in 1943.

Borst left Oak Ridge to head the BGRR design team, which began detailed studies in October 1946. Originally, the BGRR was to have been a bigger copy of the X-10, but Borst and his group made changes to improve safety, especially in fuel-handling. Another modification, in the air-cooling design, allowed the reactor to run at a higher fission rate, giving a greater flux of neutrons for experimenters. The BGRR started operating on August 22, 1950, as the first reactor to be built solely for research and other peacetime uses of atomic energy, and it accommodated more simultaneous experiments than other existing reactor.

Highlights of BGRR research still important today include, for example, studies that led to the development of multi-grade motor oils, and the radioactive isotope technetium-99m, a clinical diagnostic tool.

In 1950, Borst left BNL to become a professor of physics at the University of Utah. He also taught at New York University and the State University of New York at Buffalo.

Lyle Borst is survived by his wife of 63 years, Ruth; three children, and seven grandchildren.

Earthquakes *(cont'd.)*

mantle minerals," Chen said. "Our results indicate that, among many possible mechanisms, plastic instability may be responsible for the earthquakes."

Investigating the properties of perovskite is difficult because this mineral, unlike others, is unstable under ambient conditions.

"However, with the experimental instrumentation that we developed at the NSLS, we could finally challenge the problem," said Chen. "Our goal is to gain a full understanding of Earth's structure and dynamics. With the NSLS right on our doorstep, we are approaching this goal."

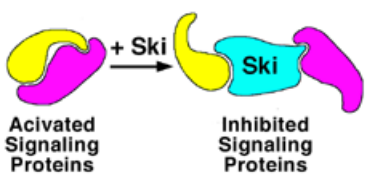
— Liz Seubert

Cancer Protein *(cont'd.)*

The researchers saw that, as they had suspected, Ski disrupts the cytoplasmic signaling proteins, so that when Ski binds to the nuclear signaling proteins, the cytoplasmic signaling proteins cannot attach to their nuclear counterparts. "This binding process is probably one of the major ways in which Ski disrupts the signaling proteins and, thus, suppresses the action of TGF-β," Shi says.

The LBNL team performed various biochemical tests that confirmed these results by also showing that Ski binds to nuclear signaling proteins.

— Patrice Pages



Schematic diagram of a proposed mechanism for the Ski-mediated repression of TGF-β signaling. By simultaneously binding to the cytoplasmic (yellow) and nuclear (purple) signaling proteins, Ski prevents the two signaling proteins from binding to each other, thus suppressing the action of TGF-β.

For more information, go to: www.bnl.gov/bnlweb/pubaf/pr/2002/bnlpr103102.htm.

Paul Kalb *(cont'd.)*

vessel until all the mercury is converted into mercuric sulfide, a compound that has low solubility and low vapor pressure. This mixture is then poured into a mold in which it cools and solidifies. The resulting solid waste form immobilizes the mercury.

"Conventional amalgamation also stabilizes mercury," Kalb explained, "but it transforms the element into a dispersible powder, which can be easily mobilized by wind and groundwater. SPSS makes mercury easier and safer to handle and to dispose of, and it isolates the toxic metal from the environment."

The SPSS method is based on a patented mixed-waste treatment technology developed at BNL in 1997. Mixed waste consists of metals and/or chemicals as well as radioactive materials. This work, as well as development of the new method for mercury stabilization, was funded by DOE.

Kalb holds a bachelor's degree in mechanical engineering technology from the State University of New York at Binghamton, and a master's degree in nuclear engineering and a certificate in energy policy and engineering from the Polytechnic Institute of New York.

At BNL since 1980, Kalb heads environmental research and technology development in ESD. He is listed as the co-inventor on seven U.S. patents. Kalb has coauthored several books on innovative technology for waste treatment and has written numerous peer-reviewed articles on waste encapsulation.

— Diane Greenberg

No Bulletin 11/15, 29

BNL will be closed in observance of Veterans' Day on Monday, 11/11, so no Bulletin will appear on Friday, 11/15. Also, because BNL is closed to celebrate Thanksgiving on Thursday and Friday, 11/28 & 29, there will be no Bulletin on Friday, 11/29.

National Nuclear Data Center Celebrates Golden Jubilee With Seminar, 11/4, 2 p.m.

All are welcome at an afternoon seminar on Monday, November 4, starting at 2 p.m. in Berkner Hall, to celebrate the National Nuclear Data Center (NNDC) Golden Jubilee. The NNDC traces its roots back to the Sigma Center, formed in the BNL Physics Department under the leadership of Donald J. Hughes. The seminar will consist of talks on the history of the center. Among the scheduled speakers are John Harvey and Robert Chrien, members of the original center, and Vicki McLane, a member of the center since 1962. Also scheduled to speak are Mulki Bhat, a former staff member, Peter Kahn of Stony Brook University, and Hans Lemmel, formerly of the International Atomic Energy Agency Nuclear Data Section.

BSA Shopping Shuttle Available Saturday Mornings and Wednesday Evenings

All BNLers are encouraged to use the free shuttle that makes multiple trips between BNL and the Southport Shopping Center on Saturday mornings and Wednesday evenings. See schedule below.

The Southport Shopping Center, located at the junction of Montauk Highway and William Floyd Parkway in Shirley, is home to a Waldbaum's supermarket, Blockbuster video store, Coconuts music store, Kohl's department store, The Gap, Kaybee toy store, Astoria Federal Savings Bank, Payless Shoes, Bath and Body Works, The Children's Place, a pizza shop, Hallmark Cards & Gift Shop, Sears Hardware, a bagel shop, a jewelry store, and more.

Saturday Morning Schedule

The shuttle will make multiple trips between BNL and the Southport Shopping Center from 8:30 a.m. to noon.

The following is the time and place of the first shuttle pickup:

8:30 a.m. ..... Fleming House, Building180
8:35 a.m. ..... Curie House, Building 258
8:45 a.m. ..... Children's Outdoor Shelter (Lollipop House)
8:50 a.m. ..... Efficiency apartments 41-42

The last shuttle to return to BNL will depart at noon from the Waldbaum's supermarket.

Wednesday Evening Schedule

The shuttle will make multiple trips between BNL and the Southport Shopping Center from 5 to 8:30 p.m.

The following is the time and place of the first shuttle pickup:

5 p.m. ..... Fleming House, Building180
5:05 p.m. ..... Curie House, Building 258
5:15 p.m. ..... Children's Outdoor Shelter (Lollipop House)
5:20 p.m. ..... Efficiency apartments 41-42

The last shuttle to return to BNL will depart at 8:30 p.m. from Waldbaum's supermarket.

BERA Sponsors Book Fair, 11/5, 6

A chance to start fun holiday shopping

BERA is sponsoring a Book Fair on Tuesday and Wednesday, November 5 & 6, 10 a.m.-3p.m. Books will range from children's stories to cookbooks to *The New York Times* best-sellers. New, hardcover books will be in stock and sold at up to a 70 percent reduction. Gift items will also be available. Credit cards and checks will be accepted. For more information contact Andrea Dehler, x3347.

Research Library Closed on Saturdays

The Research Library will be closed on Saturdays, effective the week of November 4. Library weekday hours will remain the same: 8:30 a.m.-7 p.m., Monday through Friday. Researchers may arrange for access to the Library at other times by contacting Michiko Tanaka, Ext. 7761.

This difficult decision, driven by budgetary requirements, has been made in consultation with the Library Research Advisory Committee and BNL Interim Director Peter Paul. It takes into consideration the much greater number of library users who visit during early evening hours on weekdays than the number who visit on Saturdays. Individuals who need access to the library on the weekend may obtain a key from library staff. The Research Library is moving more and more to electronic journals, which provide remote access at all times. Also, investment has been made for the Web of Science, and additional investments in e-journals will be made early in fiscal year 2003.

BERA Holiday Party, 12/6

BERA will hold its Annual Holiday Party on Friday, December 6, at the East Wind Caterers in Wading River from 6 to 10 p.m. All the Lab community — employees, guests, facility users, retirees, and their families — are invited to celebrate this holiday event together.

The cost is $48 if tickets are purchased before November 15, and $60 if purchased between November 18 and November 29. Ticket price includes full open bar, cocktail reception, hors d'oeuvres, salad, two pasta specialties, four hot entrees, cake, coffee, and DJ music. Purchase tickets by Friday, November 29, at the BERA Sales Office in Berkner Hall.

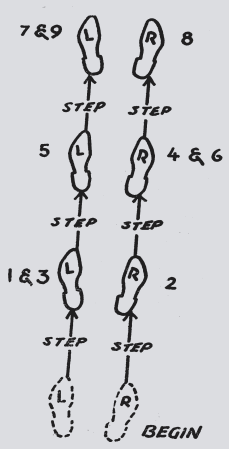
BERA Indo-American Association Holds Diwali

'The Festival of Lights,' 11/9

On Saturday, November 9, join the BERA Indo-American Association in celebrating the Indian tradition of Diwali — "The Festival of Lights." All are welcome to join the festivities, which will be held at Berkner Hall. The program includes traditional music and dance starting at 3 p.m., followed by an authentic Indian dinner at 7 p.m.

Tickets are $12 for adults, and $8 for children ages 5-12. To reserve your tickets, contact Kumi Pandya, Ext. 7734, pandya@bnl.gov; Achyut Topé, Ext. 5672, tope@bnl.gov; Abhay Deshpande, Ext 8783, abhay@bnl.gov; or Sharadha Sambasivan, Ext 4862, sharadha@bnl.gov; by November 6.

Two LEFT Feet?



Learn to DANCE!

Join the

BNL DANCE CLUB

8 weeks of lessons start

Wednesday

November 13th

North Ballroom, Brookhaven Center

Register now for beginner lessons

- 5-6 p.m. quick-start CHA CHA & FOXTROT: 20 people max., 1 instructor, $40/person
- 6-7 p.m. syllabus MAMBO & MERENGUE: 50 people max., 3 instructors, $30/person
- 7-8 p.m. introduction LINDY, SWING, HUSTLE, WEST COAST SWING: 50 people max., 3 instructors, $30/person

Beginner classes fill quickly, so sign up ASAP

Make checks payable to the BNL Dance Club and send to: Marsha Belford, Bldg. 134. For more information, contact Susie Perino, perino@bnl.gov or Ext. 2483; or Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553.

Hispanic Heritage Club Seeks Members

The newly formed BERA Hispanic Heritage Club welcomes new members. Membership is open to all BNLers.

Nominations and voting for club officers, including president, vice president, treasurer, corresponding secretary, and recording secretary, will take place on Tuesday, November 5, at 11:30 a.m., in the Training Room, Bldg. 134. To join, contact Carmen Narvaez, Ext. 3254.

BSA Scholarship Application Deadline

November 15 is the deadline for 2002 BSA Scholarship applications for children of employees to study toward an academic degree. For more information, call Bonnie Hulse, Human Resources Division, Ext. 2885.

New Hours at BNL's Weight & Exercise Room

The Weight & Exercise Room will be open weekdays from 7 a.m. to 9 a.m., and from 11:15 a.m. to 9 p.m. The morning hours are contingent upon the requirement that no one works out alone. The locker rooms and weight room will be closed from 9 a.m. to 11:50 a.m. The weight room will be open on Saturdays from noon to 4 p.m.

Day passes for visitors are available at the BERA Store and cost $3 per day. Those with visitor passes will be able to use the facility on weekdays from 4 p.m. to 9 p.m.

Recital

Noon Recital, 11/6
Mayron Tsong, Pianoforte

Mayron Tsong, Chair of the Piano Department at the University of Lethbridge, in Alberta, Canada, will present the next BSA noon recital on Wednesday, November 6, in Berkner Hall. She will play works by Mozart, Chopin, and Ginastera.

Tsong has given concerts across the United States and Canada and in Sweden, Russia, and China. Her many awards include first prize in the Canadian Music Competitions, the Millenium Prize for Russian Performing Arts, and the prestigious Arts B Grant, awarded by the Canada Council. Tsong is also a three-time recipient of The Female Doctoral Students' Grant, awarded by the government of Canada. As a prize-winner in the APPTA International Piano Competition, she was invited to give a solo performance in Steinway Hall in 1996. Last year, Tsong gave master classes at the Banff Centre, and she is also active as a teacher and adjudicator in the United States, Canada, and China.

Noon recitals are free and open to the public. Bring your lunch and come and go as you please. All visitors of age 16 and over must bring photo I.D. to enter the BNL site.

Radio City Holiday Show

Start a new family tradition: Join BERA on Sunday, December 1, for the annual bus trip to see the Radio City Holiday Extravaganza in New York City. Tickets, at $99, include orchestra seats for the noon show and bus transportation. There will be free time in the Rockefeller Center area to shop or snack. The bus will leave BNL at 9:30 a.m. and return at 5:30 p.m.

Calendar

(continued)

Wednesday, 11/6

BJ's Wholesale Club Demo

11 a.m. to 1:30 p.m., Berkner Hall. A representative from BJ's Wholesale Club will present BNLers with discounted membership rates and free bakery samples.

***BSA Noon Recital**

Noon, Berkner Hall. Pianist Mayron Tsong, Chair of the Piano Department at the University of Lethbridge, Canada, will perform works by Mozart, Chopin, and Ginastera. Noon recitals are free and open to the public. Bring your lunch and come and go as you please.

Thursday, 11/7

Adelphi University Demo

11 a.m. to 2 p.m., Berkner Hall. An admissions representative will visit BNL to present information on Adelphi's graduate and undergraduate programs. For more information, see www.adelphi.edu.

Cycletrons Motorcycle Club Meeting

4:45 p.m., Brookhaven Center. Frank Dusek, Ext 2022, frankd@bnl.gov.

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

Friday, 11/8

GLOBE Meeting

The Gay, Lesbian, and Bisexual Employee Club at BNL will hold its monthly meeting. For the meeting's time & 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.

Symposium to Honor Memory of Richard W. Dodson

2-5:30 p.m., Hamilton Seminar Room, Bldg. 555. Symposium to honor the memory of the Chemistry Department's founding chairman, Richard W. Dodson, who died on June 13.

5:45 p.m. - reception and dinner in Berkner Hall for those who have previously registered.

For more information, contact Lois Caliguri, Ext. 4397.

Saturday, 11/9

BNL Dance Club Monthly Dance Social

8-11:30 p.m. Ballroom, Latin & swing dancing, North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053.

— WEEK OF 11/11 —

Wednesday, 11/13

Rifle & Pistol Club Meeting

Noon, Conference Room, Bldg. 535. Membership activities and the use and availability of on-site ranges will be discussed. Jim Durnan, Ext. 5993, Rich Conte, Ext. 5741, or www.bnl.gov/bera/activities/rpc/

378th Brookhaven Lecture

4 p.m., Berkner Hall. George Greene presents, "Proton Radiography: To See or Not To See."

***BNL Dance Club Ballroom Dance Lessons: start of 2nd 8-week series**

See notice on page 3 at left. Sign up ASAP. Marsha Belford, belford@bnl.gov or Ext. 5053.

— WEEK OF 11/18 —

Thursday, 11/21

BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, mms@bnl.gov.

Saturday, 11/23

Defensive Driving

9 a.m.-3:30 p.m., Berkner Hall, Room B. Open to BNL, BSA, & DOE employees, BNL facility users, guests, and their families. To register, send a check for $26 per person, made out to Empire Safety Council, care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. Include your telephone number. All checks must be received by 11/20. No refunds after 11/20.

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

Classified Advertisements

(Cont'd. from page 4)

87 MERCEDES BENZ 190E 2.3 - all power, 114K mi., tan w/leather seats, sunroof, alarm, ask. $3,200. Louisa, 286-5932.

83 MERCEDES BENZ 240D - 4-spd., runs well, body in good cond., orig. own., ask. $2,100. Bob, Ext. 2144.

CAMPER - pop-up, '98 StarCraft Venture, sleeps 6, heat, refrigerator, very clean, ask. $4,400. Kevin, 878-4285.

TIRES - (4) 31x16.5, good cond., $100. Jim, Ext. 4843.

Boats & Marine Supplies

22' WESTERLY SAILBOAT - twin keel, fiberglass, clean, newly painted, many extras, needs some work, $2,000. 744-3569.

HYDRAULIC STEERING CYLINDER - hydraulic side mount & steering cylinder, w/instructions & parts list, $50; outboard bracket, alum., outboard bracket, 23 in. setback perfect for I/O or seadrive conversions, $150 or $175/both. Arlene, 878-8302.

Furnishings & Appliances

APPLIANCES - Kitchenaid glass cooktop, $230; Frigidaire 19 cu. ft. refrig., $120; Avanti gas-range, $100; 2 mint microwaves, $80/ea.; sink/faucet, $40; hood, $30. Francesco, Ext. 4865.

DINING SET - hardwood, 6 chairs, china cabinet, $400; computer desk, $25; Piano, $80. Yang, Ext. 3663.

FREEZER - Federated, Large, upright w/4 shelves & wire basket, excel. cond., $200. Donna, Ext. 2826.

FURNITURE - moving sale, baby's items, furniture, wood dressers, $50; cupboard, $40; Fedders a/c, strong, $130, telescope, Meade, 3 yrs. old, $300; nursing pillow, $30. Ext. 8257 or 821-4602.

FURNITURE - 1 recliner, $25; queen sofa bed, $150; twin/king electric, $200, all in good cond. 286-2484.

FURNITURE - love seat, sofa, wing chair, Wedgewood blue, v.g. cond., $200. Fisher Price baby monitor, $5. Lloyd, Ext. 5225 or 422-1033.

RANGE - GE electric range, good cond., off white, non-self cleaning, you pick up, $50. Gregg, Ext. 4548 or 874-8631.

RUGS - Ryas, 6' x 8' orange, brown, gold, geometric, $250; oriental, 9' x 11' worn, $150; Fish tank, hexagonal, 10 gal., $25. Bruce, Ext. 4332 or 286-2114.

Tools, House & Garden

DRILL PRESS - multi-speed heavy duty. Bruce, Ext. 4332 or 286-2114.

PUMP - Sta-rite well pump, 1hp 151/230 volts, $60. Roy, 839-8581.

RADIAL ARM SAW - Sears 10 in., stand incl., blade, $175. Mike, Ext. 4293.

Sports, Hobbies & Pets

ACOUSTIC GUITAR PICKUP - easily mounts in sound hole of instrument, Lawrence FT-145, new cond. Jon, Ext. 4682 or 689-8740.

BEER TAP HANDLES - assorted brands, new, $20/ea. Chris, Ext. 2024 or 395-6112.

FISH TANK - tank, hood, light & golden-oak stand, excel. cond., $150. Joe, 445-7724.

NORDIC ROW TBX - v.g. cond., cost $700, ask. $200, must sell. 286-8814.

PAINT BALL GUN - orig. $150, ask. $75; girl's velvet riding helmet, never used, orig. $75, ask. $40. Cheryll, Ext. 2852.

REGULATOR/DOUBLES BANDS - Scubapro Mk20 first-stage regulator, $75; set up for 8 in. diameter double tanks (stainless bands), $50. Carl, Ext. 4420.

TROMBONE - Yamaha, excel. cond., almost brand new, best offer. Maryann, Ext. 4705 or 929-4978.

VIOLIN - ¾ size, $300. Bruce, Ext. 4332 or 286-2114.

Audio, Video & Computers

KEYBOARD - Casiotone CT-460 w/460 sound tone bank & stand, $60. Roy, 839-8581.

MULTIFUNCTION PRINTER - Brother MFC7150c, 6-in-1, color printer/copier/scanner, fax, telephone, video printer, excel. cond., software incl., $150. Wenge, Ext. 5049.

Miscellaneous

CAR SEAT - Fisher Price, $20; Winnie the Pooh learning videos, $3/ea. Maryann, Ext. 5124.

CHILDS EXERSAUCER - excel. cond., $15. John, Ext. 4028.

COACH LEATHER BAG - shoulder strap bag, slightly used, orig. $260, ask. $75. Cheryll, Ext. 2852.

LASER POINTERS - red, compact keychain, batt. incl., $5/ea. Thomas, Ext. 2225.

MAPLE SYRUP - from my family's farm in VT. Peter, Ext. 7687 or 744-1112.

TODDLER SWING & SLED - like new, $10/ea. Arlene, Ext. 3827.

Yard & Garage Sales

HOLBROOK - moving sale, 11/2, 9 a.m - 4 p.m, 30 Laurel St., off Union Ave., rain or shine.

Free

CAR REMOVAL - junk cars, trucks, scrap removal. Rich, Ext. 4201 or 589-9103.

Wanted

HEALTHY MEN - ages 21-45 needed for MRI study, participants will receive up to $125. Call Maria, 444-3578.

HOME FOR STRAY CAT - affectionate, playful, healthy young male, fixed, housetrained, has all shots. 929-8165.

HOUSE EXCHANGE - (Grenoble, France) family seeking house April to July 2003 to rent or exchange. Contact Sophie, sophie@grenoble.cnrs.fr.

HOUSECLEANING - for elderly couple in 1 bdrm apt., Rocky Point. 744-5988.

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

SINGERS - for Shoreham Wading River Community chorus, meet Thursdays, 7:15 p.m., SWR High School Chorus Room, light classics, all are welcome. Nancy, Ext. 3417.

Community Involvement

TOYS - need toy donations for Upton Nursery School on site, indoor/outdoor toys, Little Tykes, etc., tax deductible. Cathy, Ext. 2774.

Happenings

FOOD DRIVE - Riverhead PAL football collecting non-perishable food, Sunday, November 3, at Pulaski School Football field in Riverhead for St. Johns Outreach, from 9:30 a.m. to 3 p.m. For more information, contact Darlene, Ext. 5191.

In Appreciation

To my friends at Staff Services and the USPO: Thank you all for your good wishes, friendship, and many years of parties! I'll miss you every day at work but let's do lunch, and don't forget to call me when there is cake. — Kelly

Classified Advertisements

Services

ARCHITECTURAL DRAFTING - new homes, alterations, 25 yrs. exp., many BNL customers. RJ, 929-8514.

AUTO REPAIR - master mechanic will work on your car. Transmission, rebuild engine. Lin, 474-9358.

ATTORNEY - accidents, real estate, matrimonial, family, wills, other, free consultation. Sam, 516-873-0011.

ATTORNEY - specializing in immigration, real estate, matrimonial, wills, estates, corporations, free consultation. Susan, 821-3243.

ATTORNEY - real estate, wills, estates, matrimonial, injury, other, free consult., Lab disc. Anna, 874-7337.

ATTORNEY - specializing in personal injury, worker's compensation, social security disability. Frank, 333-5034.

AUTO DETAILING - hand waxing, interior cleaning, pick up & drop off avail. while you work. Steve, 878-6391.

BABYSITTING - 13 yr. old exp. babysitter available weekends in Medford vicinity. Betty, 758-2653.

BAKED GOODS - Gloria's gourmet cookies, pies, cakes. Mark, 369-7476 or www.angelfire.com/ga2/gopisso.

BLINDS - installation. Joe, 563-2103.

BOAT HAULING - inside, outside, winter storage, reasonable. Al, 878-2577.

BOAT MECHANIC - shrinkwrap, winterizing, repairs, I/O service, we travel to your boat, hauling avail. up to 25'. Rich, 281-1089.

BOAT TRANSPORT/ENGINE REPAIRS - repowering I/O, Mercruiser, Volvo, OMC, licensed, insured since 1980, 10% discount to Lab employees. Tom, 589-6640.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. Lab disc. Tony, 698-9274.

CAR REMOVAL - junk cars, trucks & motorcycles removed free of charge. Rich, Ext. 4201 or 589-9103.

CATERING - all occasions, large and small, excel. food, services. Frank, Ext. 3120.

CHILDCARE - licensed daycare provider available day & night, full-time or part-time, reasonable rate, including meals, C.P.R. certified, D.S.S. welcome. Marie, 758-4328.

CHILDCARE - all ages, experienced mother of one will care for your children, refs. avail. Tina, 395-4521.

CHILDCARE - by licensed, loving mother, references provided by BNL employees. Robin, 345-0298.

CHILDCARE - lic.& ins. provider, f/t, p/t, before & after school, refs. avail. Diane, 727-3213.

CHILDCARE - overnight & weekend in Islip Terrace home, experienced, caring mother, refs. Susan, 224-9146.

CHILDCARE - licensed daycare provider available f/t or p/t, reasonable rate, meals included, D.S.S. welcome. Tracy, 208-3925.

CHILDCARE - CPR-certified mother and assistant will babysit your child in my Shirley home. Meals and activities are included. Keri, 399-8383.

CHIMNEY SWEEP - fireplaces, wood & oil chimneys, ss caps & chase pans, f/p accs., Lab discounts. Mike, 821-5526.

CHIROPRACTOR - Sayville area, neck, lower back pain, headaches, more, ins. accepted, no co-payments. Joan Santagelo, 563-1444.

CHIROPRACTOR - need a little help getting around lately? Let chiropractic methods help you feel better. Dr. Joanna Fasulo, 289-3939.

CHOCOLATE PIZZA - boxed, made to order, 3 sizes, great gift, allow 3 days for delivery. 751-7023.

CHRISTMAS ORNAMENTS - homemade. Brian, Ext. 4297.

CLEANING - Cygnet cleaning service L.T.D. commercial to residence, all types of cleaning. Pam, 369-2414.

CLOCK REPAIR - many years exp., expert on antiques and grandfather clocks, BNL ref. available. 475-8971

COMPUTER CONSULTANT - custom-built PCs, upgrades, servicing, troubleshooting, tech. support, pers. tutoring, complete computer care. Jason, 776-1352.

COMPUTER REPAIRS - Is your computer misbehaving? All aspects of the PC, upgrades, troubleshooting. Charlie, 474-5821.

COMPUTER SERVICE - full computer service, upgrades, machines made to order. Very affordable, tutoring & set up available. Gardner, 366-0918.

COMPUTER SERVICES - need help with that doorstep, I mean... computer? Call "The Geek" for all your hardware, software, training needs. Lee, Ext. 6306 or 547-1548.

COMPUTERS - for all your computer needs, hardware, software, peripherals, systems. 924-4251.

COUNSELING - experienced social worker, reimbursable for several ins. plans. Linda, 929-5860.

COUNSELOR - alcohol, drugs, codependency, education, interventions, 10 yrs. exp. helping family members of alcoholics/addicts. Millie, 821-5299.

CRANE/BACKHOE SERVICE - 60-ton, 175', full concrete, lic., ins. Joe, 395-0738.

CUSTOM CLOSETS - interior, designed to maximize space, for clothing, shoes, hats, & other storage items. Fred, 369-9720.

DEBRIS REMOVAL - large objects, furniture, household items, construction cleanups, snow removal. Joann, 399-4450.

DJ - for all events, professional sound system, huge musical selection, variety & quality. Dylan, 334-7809.

DJ - MSW Extreme, professional lights & sounds, large selection of music. Walton, 718-281-1879 or www.mswextreme.com.

DJ/KARAOKE - professional, ins., lights, giveaways, party packages, quality & excitement for all occasions. Carol, 281-5060.

DENTIST - full family and cosmetic dentistry, children welcome, free consultation, most ins., eves., Sats., emergency appointments, K-dental. 758-6565.

DOG RESCUE - will find loving homes for your small dogs, puppies and birds. Maggie, 878-3935.

DRUM LESSONS - high school percussionist, experience: USDAN, Saratoga, Tanglewood, NY Youth at Carnegie Hall. Teaches snare, mallets, timpani. Beginners welcome. Cost $20/hr. David, 736-6387.

ELECTRICAL WORK - licensed electrical contractor, Est. 1975. Joann, 399-4450.

ELECTRICIAN - free estimates, licensed insured, references upon request. Michael, 331-4333.

ELECTRICIAN - outlets, upgrades, security lighting, renovations, violations removed, troubleshooting, phone, computer & cable lines installed, lic./ins. Tim, 331-4683.

EMBROIDERY - custom designs, monogramming, baby, bridal gifts, team shirts, children's clothes. Nancy, 878-5449.

ENVIRONMENTAL TESTING - take a test to find out if you have a healthy home. 727-5646.

FALL YARD CLEANUPS - reasonable rates, free estimates. Jaimie, 286-2594.

FITNESS PROVIDER - fast, fun, fitness for women, 30 minute workout. 205-5386.

FOREIGN LANGUAGE - Spanish, French, Italian, 6 mos. - adult, children a speciality. Penny, 472-3531.

GIFT BASKETS - handmade items. Kathy, 209-0924.

GIFTS & JEWELRY - for all occasions, $10 - $45. Maria, 281-1441.

GUTTER COVERS - patented design. Keep your gutters clean - always! Guaranteed. www.LIGutterProtection.com, Lic./Ins, Free estimates. Henry 727-4888.

GUTTERS - seamless leaders & gutters installed, licensed & insured, professional, courteous service. Kevin, 208-3959.

HANDYMAN - carpenter, plumbing, painting, yard clean ups, light trucking and moving, fast, reasonable, neat worker. George, 399-8649 or Paul, 281-5030.

HEARING AIDS - small, canal-style, testing, fitting, top brand, 50-100% off list price, take ins. assign. Bob Stone, 878-6645.

HOMECARE - person available to care for person, requiring 24 hours, 7 days a week care. Frank, 727-5096.

HOME HEALTH AID - live-in care for an elderly person or children, references provided, for info. call Ed or Judy at 751-1474.

HOME IMPROVEMENT - home improving, roofing, siding, clean up work, painting, general repairs, large & small, reasonable. George, 878-1178.

HOME IMPROVEMENT - repairs & improvements, roofing, siding, reliable. Brian, 399-0445.

HOME IMPROVEMENT - roofs, ext., dormers, decks, kit., baths, siding, lic., ins., refs. Chris, 286-1348.

HOME IMPROVEMENT - vinyl siding, windows, doors, no job too small, licensed and insured. John, 929-4822.

HOME INSPECTION - pre-list/pre-purchase, comprehensive, prof. reports, clients welcome on inspec., Lab disc. Chris, 395-8810.

HOME INSPECTION - pre-purchase, professional, data collection checklist, comprehensive narrative report inc. Patrick, 696-7954.

HOME INSPECTIONS - J & V home inspections, NY state licensed professional engineers on-site verbal report comprehensive written report. Bryan 716-1651.

HOME REMODELING - windows, doors, dormers, extensions, garages, decks, painting. Can't get a contractor to come over? Call Joe, 475-6981.

HOUSE CLEANING - from top to bottom, trustworthy, dependable, refs. Beth, 924-0479.

HOUSE CLEANING - home or office, refs. avail. Ext. 3426.

HOUSE CLEANING - parties, no agency, no time limit, refs., weekly, flat rate, reliable, exp., mature woman. Miss Betz. 924-3236.

HOUSE CLEANING - Polish lady will clean your home weekly or biweekly. Teresa, 698-0851.

HOUSE CLEANING - Residential or commercial, reasonable & reliable, 15 yrs. exp., free estimates, party preparation & clean-up. 929-2867.

HOUSE CLEANING - experienced woman will clean your house or apartment, references available. Ewa, 744-2860 call in the evenings.

HOUSE CLEANING - if you are looking for good house cleaning, you can call us, ref. avail. 415-673-0205.

HOUSE/PET SITTER - refs. avail. Cindy, 286-1075.

HOUSEKEEPER - will clean your home to your standards, w/schedule convenient to yours, even once a month, excel. refs. Jane, 874-4049.

HOUSE SITTER - responsible, mature, nonsmoking woman available for house sitting, references upon request. Ext. 5197 or 286-4287.

INCOME TAX PREPARATION - individual income tax preparation prepared by CPA. Cost-effective, professional and reliable service. 821-6339.

IN-GROUND SPRINKLER SYSTEMS - winterization: in-ground sprinkler system, 6 zones or fewer starting at $29.95, $3/ea additional zone. 484-7357.

IRRIGATION - ground sprinkler systems, installed, repaired, lic. & ins., certified backflow tester, all work guaranteed. Bob, 246-6020.

INSURANCE - life insurance, annuities and mutual funds. Mathew, 582-6544 Ext, 5076.

JEWELER - special orders, repairs, honest, affordable, no job too large or small. Kelly, 821-5239.

KAYAK LESSONS - touring & river playboats, equipment supplied, outdoor pond lessons, 7 days /week, intro $60/3 hrs. Ernie, 281-7873.

LAND CLEARING - trees, stumps, brush removed, topsoil graded & raked with 450 loader, $100/hr. Tom, 878-1060.

LANDSCAPING - mowing & other lawn maintenance. Jesus, 286-4858 or beeper 230-0305.

LAWN MOWER/TRACTOR SERVICE - repaired & serviced, fast, reliable, have trailer will travel. Dan, 698-7322.

LIFE INSURANCE COUNSELING - protect your family & loved ones with life insurance, term & variable policies. Keith, 286-4651.

LIFEGUARD/SWIM INSTRUCTOR - priv. lessons, in your own pool by cert. Red Cross lifeguard, avail. for parties, child or adult. Krista, 821-2314.

LONG TERM CARE INSURANCE - understand your options, independent broker, licensed NY, CT. Free consultation. Ann, 283-5376.

MASSAGE THERAPIST - licensed, avail. Wed. and Fri. evenings, reflexology treatments, aromatherapy and oriental and Swedish massage. Maria, 395-7790.

MOBILE MARINE SERVICE - I/O, outboards, inboards, shrink wrap, tune-ups, overhauls, etc. Brian, 399-8383.

MULTI MEDIA ARTIST - designing, Web sites, business logos, cards, T-shirts, brochures, graphic illustrations, CD ROMs, more. L Williams, 718-322-7071 or 821-2314.

PAINTING - interior/exterior, light spackle & decorative painting, lic./ins. Rich, 395-1593.

PAINTING - residential, com., BNL discount, interior or exterior, free estimates, lic. & ins. Ricci, 839-6144.

PAINTING - interior/exterior, sheetrock, taping, spackling, wallpaper, power wash, lic. & ins., Jim, 399-4912.

PAINTING - staining, int./ext., power washing, decks, spackle, free estimates. John, Ext. 5318 or 563-6596.

PARTY FAVORS & UNITY CANDLES - all types of party favors, birthday, wedding, anniversaries, sweet 16, christenings, etc. Also unity candles w/tapers, $25/set. Debbie, Ext. 8276 or 776-0188.

PERSONAL TRAINER - improve health, fitness assessment, customized program design, covering aerobic strength, endurance & flexibility, weight management. Bill, 669-8198.

PET SITTING - personalized, loving service, emergency, last minute sitting avail., lg. breeds welcome, reasonable rates. Ext. 7132 or 793-4568.

PHOTOGRAPHY - weddings, all occasions, free-lance, color and b&w. Rick, 874-4017.

PHOTOGRAPHY - all occasion photographic greeting & note cards. Gift boxes of assorted photo cards. Available at BERA sales or call Mickey, Ext. 7908.

PHOTOGRAPHY - weddings, family & children's portraits, free-lance, color or b&w. Katerina, Ext. 1064 or 5413.

PHOTOGRAPHY & VIDEO - with photojournalistic style & experience. Capture those precious moments of your life, especially b&w. John, 476-6848.

PIANO LESSONS - piano lessons in my Stony Brook home, informal and enjoyable, all beginners welcome, licensed, certified & experienced. Rod, 751-7023.

BNL Water Works

Fire Hydrants To Be Flushed Nov. 4-8

- **WHAT?** Fire hydrants will be flushed to clean BNL's water mains and other water-distribution piping.
- **WHY?** By eliminating "rusty" water, flushing the hydrants will help improve the quality of the water delivered to the consumer's tap.
- **WHEN & WHERE?** Fire hydrants will be flushed Monday, November 4, through Friday, November 8, as follows:
  - ***Monday, November 4:*** Rutherford Drive and Lawrence Drive
  - ***Tuesday, November 5:*** Upton Road through the apartment area.
  - ***Wednesday, November 6:*** Cornell Avenue and its cross streets
  - ***Thursday, November 7:*** Brookhaven Avenue east to the Upton Forecast Office of the National Weather Service and west to Bldg. 51
  - ***Friday, November 8:*** Bell Avenue

FAUCET & FOUNTAIN NOTE: *Before drinking or using water during and after hydrant flushing, run the water in the sink, shower, or fountain until the water runs clear. In some places, you may have to run the water for 5 to 10 minutes.*

LAUNDRY NOTE: *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, November 5. The laundries will reopen on Wednesday, November 6, at 10 a.m., at which time the washing machines will be ready for use with clean water.*

- **WHO?** Fire hydrants will be flushed by the staff of the Water Treatment Facility in the Plant Engineering Division, with the help of the Fire/Rescue Group in the Emergency Services Division.
- **HOW?** Fire hydrants and valves will be opened and closed systematically. The water will pick up enough speed to carry out deposits within the supply piping. Hydrants will be flushed until the water runs clean.
- **MORE INFORMATION?** Contact Bill Chaloupka, voice pager 0552.

PIANO LESSONS - children, adults, fun or serious study, Eastman School graduate, Ph.D. in progress. Leon, 696-0322.

PIANO LESSONS - experienced, children & adults, master of music form Carnegie Mellon Univ., beginner to advanced. Julie, 474-1391.

POWERWASHER RENTAL - 3,500 psi., new unit, full tip set, chem. inj., 50' hose, 5-gal. gas cap., $75/8 hrs. or $50/4 hrs. delivery avail. 680-3094 or 878-6898.

POWERWASHING - quality work, low prices, homes, decks, walkways, driveways staining & sealing, free est. Tony, 821-6336.

PSYCHOTHERAPIST - 18 yrs. exp., St. John's University professor, most ins. accepted, Nassau County area. Susan, CSW 516-621-2854.

REPAIRS - Atlantic Mobile, spec. mobile homes, lic./ins. Jim, 286-7333.

ROTOTILLING - up to 1 acre, free estimates, lawns or garden. Paul, 924-8143.

SCUBA DIVING - charters to Block Island, Fishers Island, night dives. 821-DIVE.

SEAMSTRESS - clothes made and altered. 395-6216 after 4 p.m.

SEAMSTRESS - clothes made & altered, many refs. Donna, 727-7425.

SHEETROCKING AND SPACKLING - call Kevin for free estimate. 567-6621.

SPANISH TUTOR - Regents' expert, refresher, finals. Julie, 831-6916.

TAXES - prepared by tax consultant, your home or mine reasonable, serving lab people for over 25 years. John, 732-2472.

TAX PREPARATION - tax preparation performed by CPA, cost effective, professional and reliable service. 821-6339.

TUTOR - math, bio., chem., NYS certified teacher, tutor evenings & weekends, your home, ages 12-18, grades 7-12. Sharon, 821-1999.

WET SAW RENTAL - 10" diamond wet saw for brick/tile, $35/day. Dennis, 878-0071.

WORD PROCESSING/TYPING - to meet your business/personal needs, format professional reports, type school papers, professional, accurate, reliable, MS Word/WordPerfect. Ext. 7132 or 793-4551.

The complete list of service ads is always available on the Web (see address below), or by e-mail or regular mail from Tiffany Minter, Bldg. 134, Ext. 2345, minter@bnl.gov. To add a service to the list or to change your ad, submit an ad on the Web or by mail.

Motor Vehicles & Supplies

01 TOYOTA ECHO - blue, all power, 22K mi., CD player, tinted windows, 32/28 mpg, ask. $8,900. Matt, 345-0528.

00 PONTIAC TRANS AM - Ram Air model, 14,700 mi., Hurst 6-spd., trac. control, 3.42 rear ratio, T-tops, black on black, remote keyless entry, ask. $23,500. Scott, Ext. 7197.

99 SUZUKI GSXR 600 - white/blue, 9,500 mi., many extras, must see, ask. $5,500. Chris, 331-2356.

99 TOYOTA AVALON - V6, 4-dr., a/c, p/s, cruise, am/fm/CD/cass. player, ABS., excel. cond., $13,000. Yang, Ext. 3663.

98 MAZDA PROTEGE LX - white, a/t, a/c, p/s, p/w, 81K mi., sunroof, power mirrors, no dents, orig. own., $5,500. Yongjae, Ext. 8485 or 924-2942.

97 TOYOTA COROLLA DX - stick, 104K mi., perfect mech. cond., ask. $5,600. Ron, Ext. 4553.

96 CHEVY LUMINA - 4-door, p/w. p/l, new tires, 124K mi., $2,200. Kevin, 878-4285.

96 VOLKSWAGON GOLF - a/t, a/c, p/s, p/b, 91K mi., alarm, am/fm/cass., new trans., ask. $6,000. Richard, Ext. 7013 or 698-5294.

94 VOLVO - 940, burgundy/tan, orig. own., garaged, 107K mi., excel. cond, $5,500. Diane, Ext. 2347.

93 FORD TAURUS LX - all power, keyless entry, dual airbags, ABS., 93k mi., $3,000. Animesh, Ext. 7329 or 474-0056.

93 TOYOTA CAMRY - a/t, a/c, orig. own., 148K hwy. mi., excel. cond., $4,500. Bill, Ext. 4201 or 567-5631.

91 MAZDA MX-6 - 5-spd., 142K mi., good cond., $1,500 neg. Gail, Ext. 2838 or 581-2264.

90 CHRYSLER SALON - all power, 110K mi., excel. showroom cond., 30 mpg, numerous extras, ask. $3,150. Tim, 208-0408.

90 JAGUAR X-JS - all power, 100K mi., leather int., sunroof, ask. $3,500. David, Ext. 7794.

90 PLYMOUTH GRAND VOYAGER LE - all power, 188K mi., good cond., rf/rk, new tires & battery, heavy duty suspension & brakes, ask. $1,500. George, Ext. 5288 or 874-4131.

89 VOLVO 740 WAGON - all power, excel. cond., no rot, safe, reliable, sun roof, third seat, ask. $3,000. Chris, Ext. 2024 or 395-6112.

88 DODGE DIPLOMAT - a/c, p/s, p/b, auto., runs well, needs rear brakes, ask. $250. Jim, Ext. 4843.

87 MAZDA 626 - 5-spd., p/s, p/b, 148K mi., reliable, well maint., new clutch & brakes, own owner, ask. $1,200. Trevor, Ext. 4374 or 331-5642.

Ads are continued on page 3.

the Bulletin

Published weekly by the Media & Communications Office for the employees, facility-users, and retirees of Brookhaven National Laboratory.

LIZ SEUBERT, editor
JOHN GALVIN, reporter
ROGER STOUTENBURGH, photographer

On the World Wide Web, the Bulletin is located at www.pubaf.bnl.gov/bulletin.html. A Weekly Calendar listing scientific and technical seminars and lectures is found at www.pubaf.bnl.gov/calendar.html.

Bldg. 134, P.O. Box 5000
Upton NY 11973-5000
phone (631)344-2345, fax (631) 344-3368
e-mail: bulletin@bnl.gov