

## Nobel Winner T.D. Lee Appointed To Pontifical Academy of Sciences

Nobel laureate Tsung-Dao Lee, a physics professor at Columbia University and Director Emeritus of the RIKEN-BNL Research Center at BNL, has been named a member of the Pontifical Academy of Sciences by Pope John Paul II. The Pope will give Lee the

on faith and science is based on rational thinking, it is gratifying to be assured that scientists and people of faith are not disassociated from each other. I believe that today's scientific discoveries may be able to help the world. But in order to make our world a better one, we need our convictions. Science alone is not sufficient."

Lee has met Pope John Paul II on several occasions. The last time was in 1992, when the Pope acknowledged publicly that the Roman Catholic Church had wronged Galilei Galileo, one of the first members of the Pontifical Academy of Sciences, for denouncing the famous scientist because he espoused the Copernican theory of the solar system in 1611. During that time, the Roman Catholic Church took the prevailing view that the Earth, not the sun, was the center of the solar system.

Lee has devoted his long career to the study of the theoretical aspects of particle and nuclear physics. In 1957, Lee and Chen Ning Yang won the Nobel Prize in physics for disproving a tenet of physics known as the conservation of parity. Their finding was based on research carried out at BNL's first particle accelerator, the Cosmotron, while they were visiting scientists at the Lab in 1956.

In 1997, forty years after receiving the Nobel Prize, Lee returned to BNL as Director of the RIKEN BNL Research Center. Japan's Institute of Physical & Chemical Research (RIKEN) and BNL formed the collaboration to work on basic questions in physics. In addition to developing physics theory, the collaboration studies data produced by the Lab's newest accelerator, the Relativistic Heavy Ion Collider, to understand the properties of quark-gluon plasma, a state of matter that scientists theorize existed near the beginning of the Universe.

Born in Shanghai, China, Lee attended universities in China before coming to the U.S. in 1946, where he became a student of Enrico Fermi and received his Ph.D. from the University of Chicago in 1950. After working as a research associate at the University of Chicago and

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T.D. Lee is in front of the RIKEN BNL Research Center's supercomputer at BNL. Called the RIKEN BNL QCD SP supercomputer, the machine is optimized for advanced research in quantum chromodynamics, or QCD.

insignia of his appointment at the academy's headquarters in Rome on November 7, as part of the ceremonies to celebrate the 400th anniversary of the founding of the academy.

Consisting of 80 members, the Pontifical Academy of Sciences promotes the progress of the mathematical, physical and natural sciences as they relate to epistemological problems. Members in the academy are chosen on the basis of "their eminent original scientific studies and their acknowledged moral personality, without any ethnic or religious discrimination, and are nominated for life by sovereign act of the Holy Father."

"I am not religious, but I am happy to be elected to the Pontifical Academy," Lee said. "While religion is based

## Li Hua Yu Wins 2003 FEL Prize

Li Hua Yu, a physicist in the National Synchrotron Light Source (NSLS) Department, has won the 2003 Free Electron Laser (FEL) Prize sponsored by the 25th International Free Electron Laser Conference. Yu received the award, which consists of \$3,000, a certificate and a plaque, at the FEL conference held this year in Tsukuba, Japan.

Yu's award was given "in recognition of his outstanding contributions to FEL science and technology." Over the last 20 years, Yu and BNL colleagues contributed significantly in developing two types of lasers that are important for scientific investigations: the self-amplified spontaneous emission free electron laser (SASE FEL), and the high gain harmonic generation free electron laser (HGHG FEL).

In the SASE process, the light that the laser emits for experiments starts from noise, or random signals. In contrast, in the HGHG process, the output light starts from fast-moving electrons interacting with a seeding laser that shifts the light to a higher frequency and makes it significantly more coherent, meaning that the electrons move in a coordinated way to emit light. The intense light of the HGHG FEL reveals the fine details of atomic interactions inside materials and the very fast motions of molecules in chemical reactions, all with an unsurpassed precision.

Yu explained, "The HGHG FEL combines the intensity and coherence of a laser with the broad spectrum of light available in a synchrotron, a type of accelerator. The invention of the laser provided a revolutionary source of coherent light that created many new fields of scientific research. The development of the HGHG FEL extends the reach of lasers to much shorter wavelengths, thus opening new research opportunities."

Yu continued, "I am very happy to receive this award, and I am grateful for Brookhaven Lab's support and the excellent team who worked with me to make the HGHG FEL at BNL the first and only one of its kind in the world."

At the Lab's Accelerator Test Facility in 1999, BNL scientists, in collaboration with Argonne National Laboratory researchers, verified the theoretical foun-



Li Hua Yu, National Synchrotron Light Source

ation of the HGHG FEL operating in the infrared region of the light spectrum. In 2002, the technique was further developed to enable the HGHG FEL at BNL to produce shorter wavelength light in the deep ultraviolet (DUV) spectral region. This enabled researchers to perform new chemistry experiments using a DUV-FEL.

The HGHG FEL may be a complementary research tool to synchrotrons around the world, including the NSLS. Used by approximately 2,500 researchers from around the world each year for a wide range of experiments, the NSLS generates high-intensity light — from infrared to ultraviolet to x-rays — for investigating materials as diverse as catalysts used in refining petroleum, microcircuits in computers, and proteins used in drug design.

BNL's Laboratory Directed Research & Development Program, the U.S. Naval Research Laboratory, and the U.S. Air Force funded Yu's research on the DUV-FEL.

Li Hua Yu earned his undergraduate degree from Jilin University in China in 1970. He earned both an M.S. and Ph.D. in physics from Stony Brook University in 1980 and 1984, respectively. In 1984, he joined the Lab as a research associate, and he rose through the ranks to become a senior physicist in 2000. With a team of eight BNL scientists and engineers, Yu won an R&D 100 Award from *R&D Magazine* in 1989 for inventing the Real-Time Harmonic Closed-Orbit Feedback System, which stabilizes the orbit of electron beams in synchrotrons. — Diane Greenberg

## Designing a Better Catalyst For 'Artificial Photosynthesis'

This article is part of a Bulletin series that features some of the BNL research presented at the 226th meeting of the American Chemical Society, September 7-11, 2003, in New York City.

Scientists studying the conversion of carbon dioxide (CO<sub>2</sub>) to carbon monoxide (CO) — a crucial step in transforming CO<sub>2</sub> to useful organic compounds such as methanol — are trying to mimic what plants do when they convert CO<sub>2</sub> and water to carbohydrates and oxygen in the presence of chlorophyll and sunlight.

Such "artificial photosynthesis" could produce inexpensive fuels and raw materials for the chemical industry from renewable solar energy. But achieving this goal is no simple task.

"Nature has found a way to do this over eons," says Etsuko Fujita of the Chemistry Department. "It's very complicated chemistry."

Nature uses chlorophyll as a light absorber and electron-transfer agent. However, chlorophyll does not directly react with CO<sub>2</sub>. If it is taken out



of the plant and placed in an artificial system, it decomposes rather quickly, resulting in only a small amount of CO production.

So Fujita and others trying to mimic photosynthesis have turned to artificial catalysts made from robust transition metal complexes such as rhenium complexes. These catalysts absorb solar energy and transfer electrons to CO<sub>2</sub>, releasing CO. But until now, no one had explained how these processes work in detail.

By studying these reactions over very short and long timescales — ranging from 10<sup>-8</sup> seconds to hours — Fujita and her colleagues at BNL have discovered an important intermediate step. A most intriguing result is the involvement of two energetic metal complexes to activate one CO<sub>2</sub> molecule. Without CO<sub>2</sub>, the complexes pair up much more slowly than expected.

Funded by the Division of Chemical Sciences, Office of Basic Energy Sciences at DOE's Office of Science, the BNL scientists' research, which

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Calendar Laboratory Events

- 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. 3847; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (\*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

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

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

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

**Mon., Thurs., & Fri.: Tai Chi**  
Noon-12:45 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or [rusek@bnl.gov](mailto:rusek@bnl.gov).

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

**Tuesdays: BNL Music Club**  
Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

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

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

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

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

**Tuesdays & Thursdays: Aqua Aerobics**  
5:15-6:15 p.m. Christine Carter, Ext. 2873.

**Wednesdays: On-Site Play Group**  
10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Suzanne Surrow, 476-6610.

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

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

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

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

**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](mailto:rudy@bnl.gov).

— THIS WEEKEND —

**Friday, 10/31**

**Children's Halloween Party**  
5 p.m., Rec. Bldg. The Hospitality Committee invites all BNLeers to wear a costume to the party and to bring a cold dish to share. At 7 p.m., everyone will go trick-or-treating on site. Parents are encouraged to wear costumes too. Monique de la Beij, 399-7656.

**BERA Halloween Party**  
6-11 p.m., Brookhaven Center. All BNLeers age 18 and over are invited. DJ, dancing, costume prizes, a light dinner, and cash bar. \$10/person. Everyone must have a ticket. Christine Carter, Ext. 5090.

**Saturday, 11/1**

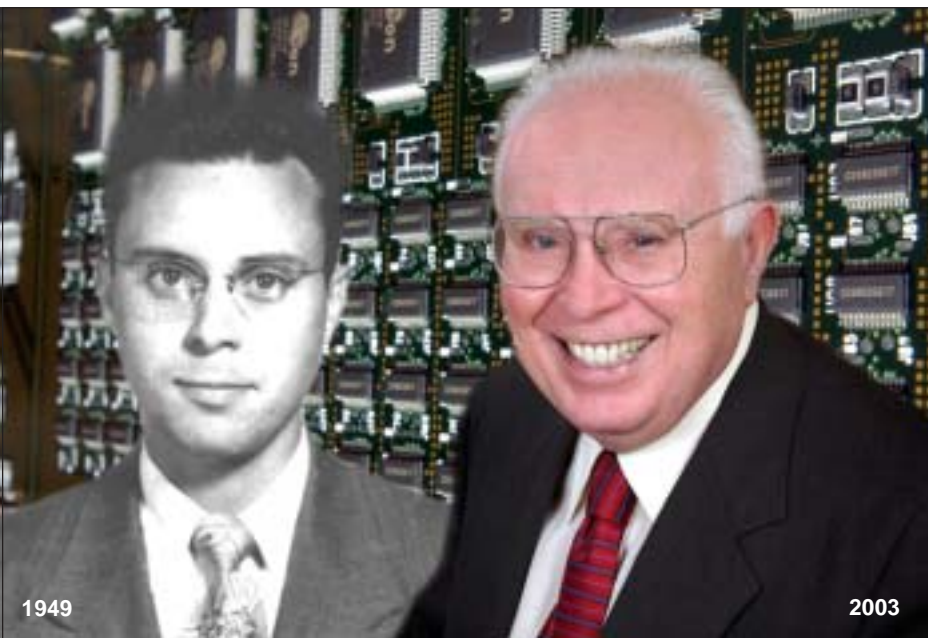
**Diwali 'The Festival of Lights,'**  
3:15 p.m., Berkner Hall. Tickets cost \$12 for adults, and \$8 for children ages 5-12. For tickets, contact Piyush Joshi, Ext. 3847, [joshi@bnl.gov](mailto:joshi@bnl.gov); Kumi Pandya, Ext. 7734, [pandya@bnl.gov](mailto:pandya@bnl.gov); Achyut Topé, Ext. 5672, [tope@bnl.gov](mailto:tope@bnl.gov); or Sharadha Sambasivan, Ext. 4862, [sharadha@bnl.gov](mailto:sharadha@bnl.gov).



Sy Rankowitz Retires After 54 Years at BNL

After 54 years at the Lab, BNL's longest serving employee, Seymour Rankowitz, Associate Division Head of the Instrumentation Division and leader of the data acquisition group, is retiring today.

Rankowitz joined the Instrumentation & Health Physics Department on September 12, 1949 (his original ID photo is shown at right). Ever since, he has been helping to design, develop, and build scientific instrumentation for BNL. He has worked on experiments at the Brookhaven Graphite Research Reactor, the Cosmotron, the High Flux Beam Reactor, the National Synchrotron Light Source, and the Relativistic Heavy Ion Collider. "It's been a wonderful career," Rankowitz said. "I could never have done anything else so exciting and in-



Fabricating state-of-the-art scientific devices is a team effort, Sy Rankowitz emphasizes. Some of his most recent work has been on the front-end electronics for the time-expansion chamber of PHENIX (background, left), one of the experiments at RHIC. Rankowitz, with the Instrumentation Division's Jack Fried, John Gannon, Joseph Harder, Anand Kandasamy, Mary Anne Kelley, and Paul O'Connor, are among the authors of a June 2002 article on these electronics in the *IEEE Transactions on Nuclear Science*.

teresting. I've worked with brilliant and dedicated leaders and colleagues — we've seen the success of experiments using instruments that we helped fabricate — it's been great." Although Rankowitz has plenty to do at home, and his wife Arlene is looking forward to

having more of his company, he'll keep in touch, and come visiting at Instrumentation. Said Veljko Radeka, Instrumentation Division Head, "Sy has been very productive throughout his long career, culminating in his involvement in large projects very important to the Laboratory.

His career is a unique lifetime achievement. In addition to his creative engineering contributions, one of his most valuable roles was as a mentor to whom every staff member could turn for advice. He has been particularly well respected and liked by his colleagues." — Liz Seubert

Service Awards

The following employees celebrated BNL service anniversaries during September 2003.

<b>40 YEARS</b>	
Edward Byrne .....	Budget
Helen Kalbach .....	S&H Svcs.
Erich Willen .....	Magnet
Madeline Windsor .....	Info. Svcs.
<b>30 YEARS</b>	
Joseph Indusi .....	EENS
Samuel Krinsky .....	NSLS
Francis Lepera .....	ITD
Derek Lowenstein .....	HENP
Iuliu Stumer .....	Physics
<b>25 YEARS</b>	
Donald Barton .....	C-A
James Davenport .....	EENS
Michael Delph .....	SSD
Thomas Dilgen .....	Magnet
Richard Fernow .....	Physics
Joseph Funaro .....	C-A
Barbara Langhorne .....	PPM
Thomas Ludlam .....	Physics
Daniel McCafferty .....	C-A
Paul Ribaud .....	Magnet
<b>20 YEARS</b>	
Gordon Corbin .....	Magnet
Joseph De Voe .....	Plant Eng.
Mariette Faulkner .....	Physics
Douglas Ports .....	ESHQ Dir.
Christopher Weilandics .....	Rad. Ctrl.
<b>10 YEARS</b>	
Yian Biao Zhang .....	Biology
Christine Carter .....	Staff Svcs.
Christopher Channing .....	Plant Eng.
William Christie .....	Physics
Jennifer Colledge .....	C-A
Brian Sheehy .....	NSLS
Joan Terry .....	Medical

**Arrivals & Departures**

**Arrivals**

Brandon Chapman ..... NSLS

**Departures**

Bruce Brunschwig ..... Chemistry

Jerome Hastings ..... NSLS

Jason Kahn ..... Physics

Artificial Photosynthesis



incorporates a combined experimental and theoretical approach, may help to explain why the reaction proceeds so slowly. This finding may ultimately contribute to the design of more efficient catalysts.

This work, which was published in the Oct. 1, 2003 *Journal of the American Chemical Society*, was presented by Fujita during the "Organometallic Catalysis" session of the American Chemical Society's September 2003 meeting.

— Karen McNulty Walsh

BNL Cleanup News on the Web

Two documents about Lab cleanup projects are now on the web. The Final CERCLA Five Year Review Report for OU IV explains that the groundwater cleanup system near BNL's Central Steam Facility has functioned as designed, and that the remedy was effective at protecting human health and the environment. The report is at [www.bnl.gov/erd/Groundwater/OU-IV-5yr.html](http://www.bnl.gov/erd/Groundwater/OU-IV-5yr.html). The Action Memorandum: Brookhaven Graphite Research Reactor (BGRR) Below-Ground Duct Primary Liner Removal Action announces that the BGRR duct liner will be removed. The report is at [www.bnl.gov/bgrr/docs.html](http://www.bnl.gov/bgrr/docs.html).

Discover discover Brookhaven in HTML

Discover more about BNL's research and facilities by reading the fall 2003 issue of *discover Brookhaven*, the Lab's four-color science magazine. In addition to the cover story on spin physics, this season's issue features articles on homeland-security initiatives, the new NASA Space Radiation Laboratory, and the development of the deep ultraviolet

free-electron laser (see related story on FEL award, page 1). What is new this season is that *discover Brookhaven* is available not only in print (at department or division offices and in the lobby of Bldg. 134) and on line as a PDF ([www.bnl.gov/discover/PDF/discover\\_BNL\\_fall\\_03.pdf](http://www.bnl.gov/discover/PDF/discover_BNL_fall_03.pdf)), but it is now also available in HTML ([www.bnl.gov/discover/](http://www.bnl.gov/discover/)).

In Memoriam

**Luke Chia-Liu Yuan**, who had joined the Lab's Proton Synchrotron Division as an associate physicist on August 8, 1949, had been granted tenure in 1956, and had retired from the Physics Department as a senior physicist on December 31, 1977, died on February 11, 2003. He was 90.

**Frederick Silkworth**, who had come to BNL's Stockroom as a clerk A on July 28, 1947, and had retired from the Chemistry Department as a chemistry associate on May 31, 1984, died on February 15, 2003, at age 83.

**Grant Mayo**, who had arrived at BNL on February 24, 1959, taking a position at a Lab custodian in the Plant Engineering Division, and had retired as a custodian services supervisor on April 30, 1988, died at the age of 75 on May 23, 2003.

Big Brothers Big Sisters of LI



BNL employees have been donating clothing, toys, and household goods to Big Brothers Big Sisters (BBBS), an organization which helps mentor young people, since April. To date employees have donated 3,081 lbs. of goods. This drive is on-going, and items may be brought to Bldg. 527 (across from the ballfields), Room 308. Receipts are available for tax purposes. For direct pickup from home, call 234-0000. To volunteer as a Big Brother or a Big Sister, visit their web-site, <http://www.bbbsli.org>. To speak to a Laboratory representative, contact Karen Adelwerth, 4262, or Celeste Tymann, 2551. BNLeers Adelwerth's and Tymann's efforts on behalf of 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/](http://www.bnl.gov/community/vip/).

BWIS Wine, Cheese Party, 11/6

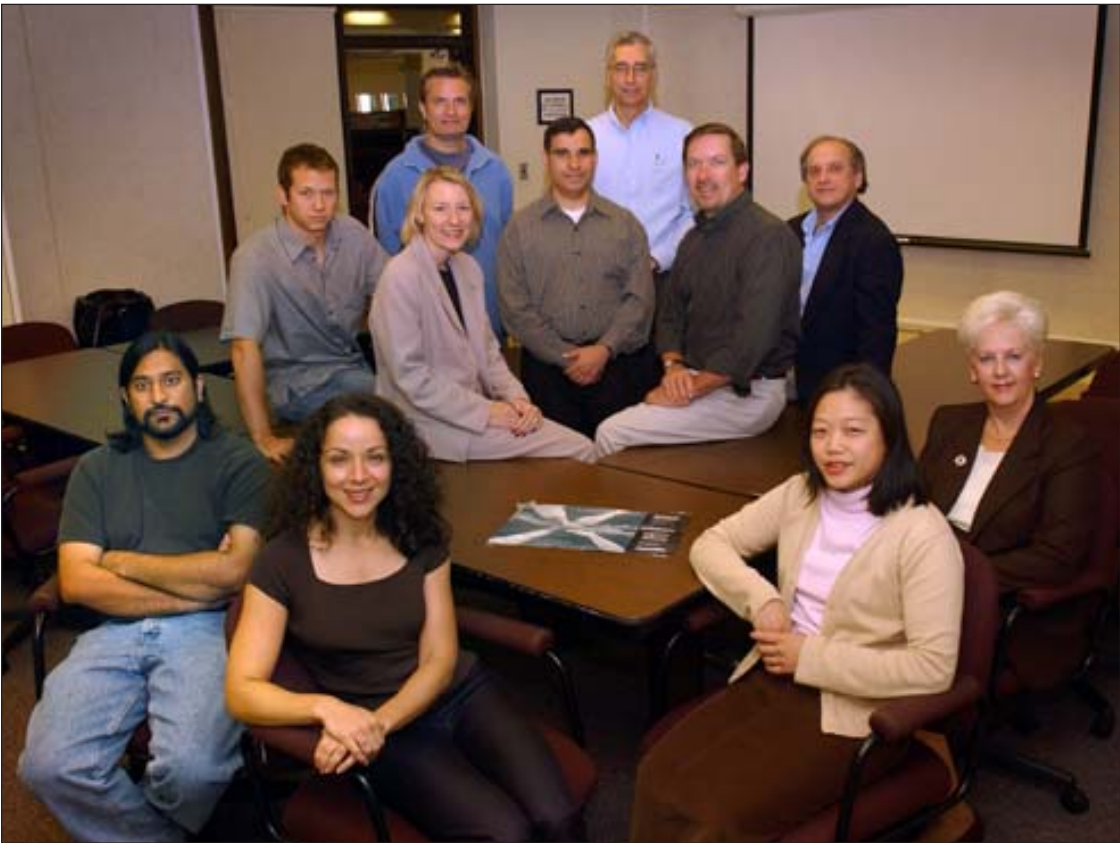
All at BNL are invited to attend the Brookhaven Women in Science (BWIS) Wine & Cheese party on Thursday, November 6, 5:15-7 p.m., in the lounge outside the large seminar room in the Physics Department, Bldg. 510. This annual event is held by BWIS to thank the people at the Lab who have helped with and supported BWIS programs, to welcome new members, and to introduce the new executive board for next year. Both men and women of the BNL community are welcome to join BWIS. The group's primary mission is to promote the advancement of women in the scientific professions. For more information, contact Aimee Sumereau, Ext. 4401, or Eileen Papa, Ext. 5196.



Brookhaven Advocacy Council  
Here To Help Resolve Problems, Concerns

The Brookhaven Advocacy Council (BAC), composed of BNL peers, is an independent, confidential committee that reports directly to the Lab Director. As a key component of the Lab's justice system, the BAC makes recommendations to the Lab Director on the resolution of problems and concerns brought to its attention by BNL employees, guests, and facility users.

Once a month, the BAC holds an open meeting from 12:30 to 1 p.m. for employees, guests, and users to share their thoughts. All BAC meetings are listed in the Bulletin's Calendar of Laboratory Events. To bring a concern or issue to the BAC's attention, contact a member directly or call its hotline at Ext. 4200. For more information, see [www.bnl.gov/bac/](http://www.bnl.gov/bac/).



Roger Stoutenburgh photo

The BAC members are: (front, from left) Aakin Patel, Information Technology Division, Ext. 2130, Bldg. 515; Lisa Zimmerman Medical Department, Ext. 2773, Bldg. 490; Cochair Samantha Lin, Office of Management Services, Ext. 3471, Bldg. 527; and Secretary Lillian Kouchinsky, Director's Office, Ext. 8772, Bldg. 460; (middle, from left) Alistair Rogers, Department of Environmental Sciences, Ext. 2948, Bldg. 490D; Lori-Anne Neiger, Office of Intellectual Property & Sponsored Research, Ext. 3035, Bldg. 475; Chair Ray Costa, Facilities & Operations Directorate, Ext. 8227, Bldg. 130M; Gerry Shepherd, Environment, Safety, Health & Quality Directorate, Ext. 5233, Bldg. 120; and Edward Kaplan, Nonproliferation & National Security Department, Ext. 2007, Bldg. 197D; (back, from left) Mike Loftus, Magnet Division, Ext. 2960, Bldg. 902A; and Bill Gunther, Life Sciences Directorate, Ext. 7961, Bldg. 490.

Recital

BSA Noon Recital  
Sasha Boldachev,  
Concert Harp, 11/5

At noon on Wednesday, November 5, all are invited to a recital by harpist Sasha Boldachev, in Berkner Hall.

Boldachev was born in 1990 in St. Petersburg, Russia. He has performed in prestigious concert halls: the Glinka Chamber Hall of the St. Petersburg Philharmonic, the Academic Chapel, the Hermitage, the Yusupov Palace, the Anitshkov Palace, the St. Petersburg Conservatory and others, and he has appeared on national TV in Russia, Great Britain and France.

This year, Boldachev won the International Award 2003 at the festival "Britain's Brilliant Prodigies." He comes to BNL at the start of his first U.S. tour.

BSA noon recitals are free and open to the public. Visitors 16 and over must carry photo ID.



Calendar  
(continued)

WEEK OF 11/10  
Monday, 11/3

**Carol Singers Meeting**  
Noon-1 p.m., Berkner Hall. All who enjoy singing carols are invited to meet and sing with the BNL Monday-at-noon singers who are rehearsing for a mid-December carol concert. Contact Liz Seubert, Ext. 2346 or lseubert@bnl.gov.

Tuesday, 11/4

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

Wednesday, 11/5

**Noon Harp Recital**  
Noon, Berkner Hall. Following acclaimed harp recitals last year in Prague and Llangollen, Wales, 13-year-old Sasha Boldachev appears at BNL on his first U.S. concert tour (see notice, left).

Thursday, 11/6

**\*Free Prostate Cancer Screening**  
3-4 p.m., Occupational Medicine Clinic, Bldg. 490. Screening includes a PSA blood test and digital rectal exam by Howard Adler, Assistant Professor of Clinical Urology and Director of Stony Brook University Hospital's Prostate Care Program. Preregistration is required. To register, call 1-800-862-2215. For more information, call Michael Thorn, Health Promotion Program Office, Ext. 8612.

**Cycletrons Motorcycle Club Meeting**  
4:45 p.m., Brookhaven Center. Frank Dusek, Ext. 2022.

**\*BWIS Wine & Cheese Reception**  
5:15-7 p.m. in the Bldg. 510 lounge. Brookhaven Women in Science (BWIS) invite all to the reception. See notice, page 2. Aimee Sumereau, Ext. 4401, or Eileen Papa, Ext. 5196.

— WEEK OF 11/10

Tuesday, 11/11

**BNL Closed to Honor Veterans' Day**  
No Bulletin will appear this week.

Wednesday, 11/12

**Brookhaven Lecture**  
4 p.m., Berkner Hall. John O'Hara, Energy Sciences & Technology Department, will talk about understanding and improving crew performance in complex systems.

Thursday, 11/13

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

Friday, 11/14

**Lab Tour — Salamander Habitat**  
Noon-1 p.m. All are invited to meet at Berkner Hall lobby at noon. Take Lab bus to Meadow Marsh ponds on site, learn about how Lab cleanup and reconstruction will protect tiger salamander population. Elaine Lowenstein, Ext. 2400.

WEEK OF 11/24

Mon-Wed, 11/24-26

**BNL Community's Art & Craft Show**  
Berkner Hall, Room B. All are welcome. Contact Liz Seubert, Ext. 2346, to enter art and craft works. Show hours: Mon.-Wed., 11:30-1 p.m., with evening reception with refreshments, Mon. 11/24, 5-7 p.m.

Thurs.-Fri., 11/27-28

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

— WEEK OF 12/1

Saturday, 12/6

**Shopping Trip to Peddler's Village**  
\$15 per person. Bus leaves BNL at 9 a.m. and returns to BNL at 7 p.m. Peddler's Village is a country village in Pennsylvania with 70 specialty shops. Purchase tickets at the BERA Sales Office. Christine Carter, Ext. 5090.



BNL Service Changes, Effective 11/3

The following service changes in the Finance & Administration Directorate will be effective on November 3. The changes have been chosen to make the lowest possible impact on Laboratory operations while meeting the demands of the fiscal year 2004 budget.

Transportation

The Courtesy on-site shuttle, which offers on-call, door-to-door service, will now operate between 8:30 a.m. (new starting time) and 4:15 p.m., Monday-Friday, excluding holidays. Call Ext. 2714 for pickup. For more information, call Sylvia Mouzakes, Ext. 2712, or Jeff Swenson, Ext. 2525.

The on-site shuttle 7:30 a.m.-8:20 a.m. service run between the apartment area and Laboratory facilities will be discontinued (typical ridership is 2-3 people daily).

Travel

The BNL Travel Office will add a surcharge of \$20 for each airline ticket issued, as a result of elimination of airline-ticket commissions paid to travel agencies. This is significantly below surcharges at other Laboratories or through commercial travel agencies. There will be no surcharge for tickets not obtained through the BNL Travel Office. This is in alignment with a new, web-based BNL travel system that will soon be implemented and that will fully support non-BNL tickets except for complex, multi-destination trips and foreign travel. These types of trips must continue to be obtained through the BNL Travel Office. Travelers are reminded that reimbursement for non-BNL tickets is limited to the cost of the ticket that would have been obtained by the BNL Travel Office as part of BNL-negotiated airfares. For more information, call Sylvia Mouzakes, Ext. 2712, or Jeff Swenson, Ext. 2525.

Mail Delivery

Mail delivery and pick up will be reduced to once per day, site-wide. Schedules will be communicated shortly to all individual building mail stops. The mail drop off/

pick up window in Bldg. 179B will be available during regular business hours, but closed during lunch. For more information, call Cathy Ennis, Ext. 2917, or Jeff Swenson, Ext. 2525.

Housing

The Off-Site Housing Coordinator will soon be a part-time position. The Housing Office will continue to provide rental and sales listings in hard copy and a new Off-Site Housing web page will be available shortly. For more information, call Cathy Ennis, Ext. 2917, or Jeff Swenson, Ext. 2525.

Procurement, Shipping, Receiving

Furniture moves will be reduced to two days per week on a schedule to be announced. Stockroom inventories will be further reduced by the least active items. Continued efforts to centralize departmental and divisional credit cards will be helpful. Office machine repair services will no longer be offered. Departments and divisions are cautioned that they should not use non-bargaining unit Laboratory employees to perform this function, although it may be subcontracted. The option of a Lab-wide subcontract for these services is being examined.

Brookhaven Center

The Center Restaurant will close nightly at 10 p.m., one hour earlier than previously, and Sunday services will be discontinued, as Sunday customers have consistently been only two to four people, making the operation very cost-ineffective. However, as always, Sunday service is available on prior notice for Laboratory special events.



Children’s Halloween Party — Today!

The Hospitality Committee will hold an on-site children’s Halloween party today, October 31, in the Recreation Hall in the apartment area. The building is open from 4:30 p.m., and the party starts at 5 p.m. Wear your favorite costume to play games at the party. Bring a cold dish to share. Parents may wear a costume too! After the party, at about 7 p.m., everyone will go trick-or-treating on site.

For more information, call Monique de la Beij, 399-7656.

Defensive Driving, 11/15

A Defensive Driving course will be held on Saturday, November 15, 9 a.m.-3:30 p.m., at Mount Sinai High School, on the north side of Route 25A, in Mount Sinai, about 1 mile west of Route 83. To register, send your telephone number on a check made out to Empire Safety Council for \$35 per person, in care of Scott Zambelli, P.O. Box Mount Sinai, NY, 11766. Reach Zambelli at 331-6599, Ext. 13.

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 JOBSITE, 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](http://www.bnl.gov/HR/jobs/default.htm).

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

NS8337. STAFF SPECIALIST (A-6, term appointment) – Requires a bachelor’s degree in an appropriate field, a broad background in quality assurance and in conducting assessments and audits. Excellent oral communication skills and writing ability is required, as is the ability to identify, develop, organize, and produce written plans, procedures, and directives. Knowledge of SBMS and other Laboratory management systems is necessary. PC proficiency including the ability to prepare professional presentations is highly desirable. Will provide administrative and staff support including examining administrative and operational procedures and recommending changes and additions; and ensuring that plans, orders, operating procedures, and other written directives are adequate and current. Will participate in Tactical Operations Center operations and conduct internal assessments and audits, track findings to conclusion, and prepare records of decisions. Serves as Assistant Division QA Representative. The ability to obtain/maintain a DOE “Q” clearance is required. Safeguards & Security Division.

NS2734. EDUCATIONAL PROGRAM ADMINISTRATOR (A-8) – Requires a master’s degree in science, science education or related field, and experience in undergraduate science, mathematics, or technology education. Knowledge of or ability to learn standard business software applications such as such as Word, Excel, Access, and PowerPoint is required. Demonstrated ability to develop effective working relationships with and between the Laboratory staff and educational community is essential. Will be responsible for the administration of pre-college and undergraduate educational programs in science or related fields. Plans, initiates, and directs multi-element programs; participates in the Laboratory’s teacher-enhancement programs and educational activities for students in partnership with Long Island school districts. Office of Educational Programs/CEGPA.

Lunar Eclipse Party, 11/8

On Saturday, November 8, at 6 p.m., all are invited to come to the Brookhaven Center for a Lunar Eclipse party.

A total eclipse of the moon will occur that evening, with totality at around 8 p.m. At 6 p.m., Keith Power of BNL’s Astronomical Society will give a talk on “Earth and Moon — Double Planetary System,” in the north room, and eclipse viewing will follow afterwards on the patio, weather permitting. For more information, contact Power, Ext. 5355 or [power@bnl.gov](mailto:power@bnl.gov).



Motor Vehicles & Supplies

O2 VOLKSWAGON JETTA GL - 5 spd., 26K mi., avail. 12/1, \$14,500. Fabian, Ext. 5089.

01 CHEVROLET CAMARO SS - a/c, p/s, p/b, p/w, 6spd. w/Hurst shifter, leather, T-tops, ext. warr., 24K mi., \$19,995, <http://www2.buoy.com/gallery/albuno3>. Maria, Ext. 5483 or 744-0790.

00 CHEVROLET BLAZER ZR2 - a/t, a/c, p/s, p/b, p/w, 2dr., moonroof, CD Changer, mint cond., 41K mi., \$15,000. neg., must sell. Vinny, 286-3446

00 VOLKSWAGON PASAT WAGON - a/t, a/c, p/s, p/b, p/w, V6 eng., loaded, mint cond., 47K mi., \$18,000. Raymond, 718-225-5783.

98 PONTIAC BONNEVILLE - a/t, a/c, p/s, p/b, p/w, mech./body great, remote start, alarm, 33 mpg hwy., 98K mi., \$4,800. Bruce, Ext. 7640 or 567-3294.

97 NISSAN MAXIMA - 5 spd., a/t, a/c, p/s, p/b, p/w, pearl white w/tinted windows, fully loaded, incl. Bose system, 87K hwy. mi., excel cond. Jennifer, Ext. 4888.

96 CADILLAC DEVILLE - new transmission, gd. cond., 109K mi., \$4,350. Diane, Ext. 3670 or 744-7947.

95 CHEVY CORSICA - red, 4 dr., 26K Fla. driven mi., ask. \$2,200, runs very well, Mike, 7941.

94 OLDSMOBILE CUTLASS SUPREME - a/t, a/c, p/s, p/b, p/w, am/fm/CD player, remote start, runs well, gd. cond., 105K mi., \$1,700. Dean, Ext. 7854.

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

93 INFINITY J-30 - dark green, Alpine Bose CD player, gd. cond., 72K mi., \$6,900. Tom, Ext. 4030.

91 HONDA ACCORD LX - 5 spd., a/c, p/s, p/b, p/w, am/fm radio cass., cc, new timing belt, new clutch, no rust, v.g. cond., 107K mi., \$3,500. Ken, 281-5565.

91 MITSUBISHI GALANT - 4dr., sunroof, \$130K mi., \$1,200. Vadim, Ext. 8462.

91 TOYOTA CAMRY - white 4dr, a/c, a/t, p/w, p/d, cc, am/fm cass., fold down rear seat, excel. cond., 99K orig. mi., \$3,000 obo. Lonny, Ext. 5333 or 941-1057.

90 BMW 325i - a/t, a/c, p/s, p/b, p/w, 4dr., runs very well, v.g. cond., 159K mi., \$3,999. William, 924-3641.

90 BUICK LE SABRE - a/t, a/c, p/s, p/b, p/w, 120K mi., \$1,700. Viktor, Ext. 8335 or 804-2959.

89 AUDI 100 - a/t, a/c, all options, runs well needs some maintenance work, gd. cond., 197K mi., \$1,400. Suresh, Ext. 4459 or 751-2095.

89 FORD BRONCO II - 5 spd., 4x4, a/c, CD, 129K mi., price neg. Alistair, Ext. 2948.

88 FORD SHORTBED 302 - 4x4, loaded, \$2,550; econo car trailer, '97 duel axle, \$1,050. Rich, 589-9103.

88 VOLKSWAGON CABRIOLET - 5 spd., blue, 150K mi., \$1,850. Patricia, Ext. 3975.

87 VOLVO 760 GLE - a/t, 183K mi., good cond. \$800. Ext. 2058.

86 CHRYSLER CIRRUS - a/t, a/c, p/s, p/b, p/w, c/c, leather, new battery, 60K mi., \$5,500. Anna, Ext. 7132 or 793-4551.

86 TOYOTA CAMRY - a/t, a/c, 154K mi., runs well, \$600. Zhenxian, Ext. 5502.

69 VW BEETLE - 5 spd., blk., convertible, new interior, rebuilt eng., 130K mi., \$3,000. Jim, Ext. 5537.

Free Screening, 11/6 For Prostate Cancer

Howard Adler, Assistant Professor of Clinical Urology and Director of Stony Brook University Hospital’s Prostate Care Program will perform free prostate cancer screening for BNLeers on Thursday, November 6, from 3 to 4 p.m. at the Occupational Medicine Clinic, Bldg. 490. Screening includes a PSA blood test and digital rectal exam. Preregistration is required. To register, call 1-800-862-2215. For more information, contact Michael Thorn in BNL’s Health Promotion Program Office, Ext. 8612.

**Benefit Notes: Sign-Up Deadline, 11/14**

The deadline for making changes to medical and dental coverage for 2004 is Friday, November 14.


Those who want to participate in the 2004 health care or dependent daycare flexible spending accounts must do so by Friday, November 14 as well.

For more information, contact the Benefits Office , Ext. 2877, Ext. 5126, or (800)353-5321.

**Roll Up Your Sleeve: Blood Drive, 12/18**

To replenish Long Island’s blood supply, BNL is holding a blood drive on Thursday, December 18, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. Those eligible to donate are people in good health between the ages of 17 and 75 who weigh at least 110 pounds. Donors should have photo identification and know their social security number.

To make an appointment, contact Susan Foster at Ext. 2888 or e-mail [donate@bnl.gov](mailto:donate@bnl.gov). In your message, include your name, phone extension, and preferred time to donate.



Raffle! Autographed Jets Football

Raffle tickets for an autographed Jets Football will be sold today, Friday, October 31, and on Wednesday, November 26, 10 a.m.-3 p.m., at the on-site Teachers Federal Credit Union. Tickets are \$2 each or three for \$5. All proceeds will go to support the upcoming United Way campaign at BNL.

CAMPER - '95 Rockwood x-lg. pop-up, sleeps 6, refrig., heater, sink, stove, awning, excel. cond. Daniel, 744-3027.

CAR COVER - fits '97-'00 Corvette, pd. \$150, ask., \$60. Roy, 2350.

SNOW PLOW - yellow, \$150 neg. Debbie, Ext. 8276 or 776-0188.

DIRT BIKES - '00 XR400R, road legal, gd. cond., \$3,900; '87 TT350 racing dirtbike, fully restored, mint cond., \$1,600. Jennifer, Ext. 4888 or 723-0665.

EXERCISE WALKER - for adults, no motor, \$50; utility trailer rack type, \$225. Richard, 924-6751.

LENS - Minolta X-570 w/wide angle & telephoto lenses & case, \$120. John, 543-7065.

TICKETS - 2 balcony seats for *Il Barbiere di Siviglia* at the Met, 11/13, w/bus from North Shore Public Lib. Michiko, Ext. 7761.

TICKETS - 2 Metropolitan Opera, Strauss' *Die Frau ohne Schatten*, 11/24, 7:30 p.m. 2nd row balcony ctr., \$60/ea. Carmen, Ext. 4135.

TREADMILL - Proform-CrossWalk, best offer, you pick up. Karen, Ext. 4262.

WEIGH BENCH - no weights, \$15; Mattel pirate ship toy w/many access., \$15; all in excel. cond. Lloyd, Ext. 5225 or 587 7876.

DESK - wooden, excel. cond. You pick up. Richard, Ext. 3803 or 874-4017.

FIREWOOD - you pick up. Joe, Ext. 2384.

JUNK - cars, trucks removed free, Rich, 589-9103.

Happenings

GOLF FUNDRAISER - Habitat For Humanity sponsors 18 holes golf incl. cart @ \$25/ player. Mid. Isl. Co. Club, 11/18. Reserve tee time (8-10 a.m.) by 11/14, 924-4966, Ext. 100.

HUBBLE TELESCOPE TALK - John Wood, lead proj. eng. & sci. & outreach mgr. on the Hubble Space Telescope Proj. on "The Hubble Space Telescope: Latest Discoveries" at Astronom. Soc. of LI, Wed.,11/12, 8 p.m., at NY Inst. of Tech.'s Schure Hall, Northern Blvd., Old Westbury. Call Tony Pirera, 589-3502.

Services

A list of services offered by BNLeers is on the web at [www.bnl.gov/pubaf/bulletin/services.htm](http://www.bnl.gov/pubaf/bulletin/services.htm) or by calling Ext. 2345, or writing to the Bulletin, Bldg. 134.



FreshDirect Grocery Shopping Service Begins at BNL, 11/6

FreshDirect on-line grocery company, which is world renowned for their fresh produce, gourmet foods, cost savings, and ready-to-eat/ready-to-heat meals, with the convenience of grocery shopping from home, will begin service at BNL on Thursday, November 6.

Come meet FreshDirect representatives on Tuesday, November 4, in Berkner Hall at 11 a.m., noon, and 12:30 p.m., when they present products, information, and a Q&A session. BNL delivery is scheduled for Thursdays, 3-5 p.m., in the parking lot of Berkner Hall. For more information, contact Christine Carter, Ext. 5090.



Boats & Marine Supplies

24' CAPE COD SHIPBUILDING - '60 w/trailer, fast, planing daysailer, 2 suits of sails, spinnaker, cockpit cover, mooring, \$1,000/neg. Raven, Ext. 2051 or 689-8685.

22' CRUISERS INC. BARNEGIT - '87 rebilt. 350 Chevy & O/D, new parts, w/trailer, mint, \$7,000; Sea Doo jet ski w/trailer, mint. \$800. Paula, 516-798-2599 or 516-860-9339.

15' CANOE - Grumman, aluminum w/paddles, no trailer, \$425, excel. cond. Lloyd, Ext. 5225 or 587 7876.

Furnishings & Appliances

BED - captain's, solid ash wood, 4 drawers, 1 cabinet, mint. cond. \$400. Bobby, 331-4336.

BEDROOM SET - 6' dresser, 4' mirror, 2 night tables, 2 twin beds, king-size headboard, \$200; 30-gal. electric hot water heater, \$100. Horst, 874-2737.

DINING SET - 40 yr.-old, Broyhill, 2 leaves, buffet, china cab., 6 chrs., table pads, \$350; 3 sq. ft. l/r coffee table; glass & wood top, end table to match, \$50/both; Vic, 585-2084.

COUCH - 3 pc., gray, peach & beige sectional, excel. cond., \$900. Cynthia, 698-9016.

ENTERTAINMENT CTR. - 3 pc., \$350; pinball machine, \$50. JoAnn, Ext. 7009.

RANGE - gas, 30" caloric prestige w/ 2 ovens, works well, best offer. Bob, 472-5052.

REFRIGERATOR/FREEZER - college-dorm size, 20"x24"x34"H; \$35. John, 543-7065.

SOFA & LOVESEAT - flora on ivory background, \$250; queen, plaid, Castro Convertible sleeper/sofa, \$150; 3 brass lamps, \$25/ea., all excel. cond. 929-4369.

WALL UNIT - blk, 3 pc., \$325; blk. table, 40x72 w/4 chairs, \$250. Diana, Ext. 3681 or 399-3910.

WALL UNIT - oak, 3 section, 8' L x 6' H x 18" D. Lore, Ext. 5125.

WALL UNIT - lg. 3 pc., oak/glass, 7'H x 6'w, beautiful, \$300; 3 matching carved oak coffee/end tables, \$300. James, Ext. 3170.

Tools, House & Gardens

CEMENT MIXER - half bag, electric, works well, \$100 obo. Toby, Ext. 2012 or 929-6523.

COMPRESSOR - Brinks portable 1hp, 2 spray & filter regulator blowgun, 5 gal. pressure paint tank, instruction manual, \$100. Chris, 831-2647.

JOINTER - Craftmans 4" w/ 1/2 hp motor & stand, \$50 firm. Bill, Ext. 2378 or 758-3284.

LEAF VACUUM - Billy Goat, 5hp w/shrub attachment, best offer over \$250. Tim, 208-0408.

Sports, Hobbies, & Pets

BIKE - Raleigh M20 purple mountain bike, 21 spd., 26" tires, kid-size frame, like new, \$95. John, Ext. 3406.

BIKE - brand new Mongoose Pro Mountain ladies' 18-spd. bike, \$200; new white day bed, excel. cond., \$120. AnnMarie, Ext. 7007.

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

Audio, Video & Computers

LAPTOP - Sony Vaio V505AX, 1.8Ghz-P4, 40 Gbyte w/512 RAM, 802.11b wireless, DVD/CD-RW w/mem stick reader, 3-yr. warr., \$1,700. Dean, Ext. 7854.

PALM SMARTPAD - use w/palm III or higher, capture handwritten notes or drawing on your palm, tested & works, like new, \$50. Frank, Ext. 5920.

Miscellaneous

AUDIO STAND - silver, \$100; Kodak digital camera dock station, great for starter camera, \$125, both items brand new, never used, in orig. box. Mary, Ext. 2900.

AWNING - orig. 19' RollUp, 1yr. old, motorized, perfect cond., cost \$5,000, ask. \$3,500. Ralph, 325-0145.

COMFORTER SET - 3-pc, twin, white, \$25; exercise bike, \$15; cardio-glider, \$45; Hershey Kiss child's costume, \$10. AnnMarie, Ext. 7007.

TOYS - all Little Tykes, various kinds, various prices, all items in very gd. or mint cond. Call for details. Brian, 821-4234.

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

MOVING SALE - all items in house/garden, furnishing, computers, tools, etc. Jan, 751-6734.

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

Yard & Garage Sale

YARD/MOVING SALE - 11/1, furniture, collectibles, household, books, many things, old and new, 23 Maiden Lane, Patchogue, James, Ext. 3170 or 475-4947

Wanted

CHILDCARE/HOUSEKEEPER - P/T after school care for 2 girls, 8 & 10, 2:30-7:30 p.m., 5 days/wk., drvng., lt. hskpg., meal prep., car, refs. req. Michael, Ext. 7787 or 474-8715, eves.

GYM MATS - for Jiu Jitsu Club. Tom, Ext. 4556.

RECORD PLAYER - or turntable that will play 78 and 33 1/3 records. Frank, Ext. 2022.

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

Free

BIKE - Ross 3 spd., 20 yr. old, needs tires. Robert Ext. 4326.

On the World Wide Web, the Bulletin is located at [www.bnl.gov/bnlweb/pubaf/bulletin.html](http://www.bnl.gov/bnlweb/pubaf/bulletin.html). A Weekly Calendar listing scientific and technical seminars and lectures is found at [www.bnl.gov/bnlweb/pubaf/calendar.asp](http://www.bnl.gov/bnlweb/pubaf/calendar.asp).

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