

ALL-HANDS MEETING

Wednesday, 9/24, 10:30 – Noon, Berkner Hall

Lab Director Sam Aronson invites all employees to attend an all-hands meeting in which he will discuss BNL's strategy and news on the upcoming budget year, interactions with New York State, and recompetition plans for the Lab's prime contract.



BNLers Celebrate LHC Start-Up

On September 10, Brookhaven physicists, engineers, and technicians celebrated the start-up of the Large Hadron Collider (LHC), a massive particle accelerator located on the Franco-Swiss border. Brookhaven's event, which started roughly five hours after CERN scientists sent the first beam of protons all the way around the LHC's 17-mile ring, featured talks by Lab Director Sam Aronson, NYS Assemblyman Marc Alessi, and BNL physicists Peter Wanderer and Howard Gordon.

Next, via a live, two-way video connection, participants addressed questions to BNL scientists Pavel Nevski, Stephanie Majewski, and Steve Peggs, who witnessed the historical milestone firsthand from the ATLAS experiment's control room. Cake and coffee provided a sweet end to the morning event, as BNLers involved in the construction and operations of the LHC and its experiments gathered to celebrate in the Physics Building.

— Kendra Snyder

For more information about BNL's contributions to the LHC, go to www.bnl.gov/atlas. For personal accounts of this LHC milestone, check out the blogs of two BNLers: Stephanie Majewski, www.stephaticern.blogspot.com/ and Peter Steinberg, <http://entropybound.blogspot.com/>. An Employee Lunch Tour of the ATLAS facility at BNL will be held on 9/26 (see pg. 4).



Sam Aronson (left) with NYS Assemblyman Marc Alessi (right foreground)



Peter Wanderer

Howard Gordon

Human Performance Improvement at BNL

Following the April 2006 arc-flash electrical injury at the Relativistic Heavy Ion Collider, the Lab commissioned an independent review of the event using Human Performance Improvement (HPI) concepts to understand why the event occurred and what could be done to prevent such occurrences in the future. HPI, now being implemented at BNL, is a set of concepts and tools based on the knowledge of human behavior to help understand — and therefore better manage — the interaction of people, processes, equipment, work environment, and organization to reduce error and improve performance.

"The arc-flash review helped all involved to understand how all elements — people, equipment, processes, work environment, and organization — interacted prior to and during the event," said Joe Labas, BNL's HPI Coordinator. "The analysis went beyond focusing on the actions of the individuals involved and revealed opportunities for the organization and the Laboratory to improve performance."

The benefits of using human performance concepts to understand how and why errors occur impressed BNL management, and led to a study of how other labs and organizations were applying HPI, and what benefits could be realized by applying HPI concepts to a wide variety of tasks performed at the Lab. In August 2007, Director Sam Aronson announced BNL's intention to implement HPI.

"I view Human Performance Improvement as the next step in bringing our performance — as individuals, work groups, facilities, and as an institution — to the next level," said Aronson. "I expect everyone to play a part in making BNL a more productive and safer place using HPI principles and tools."



The Human Performance Improvement (HPI) Steering Team led by Assistant Lab Director for Community, Education, Government & Public Affairs Marge Lynch (front, second from right) also includes (seated, from left) Deputy Director for Operations Michael Bebon, Lab Director Sam Aronson, and Assistant Laboratory Director for Facilities & Operations Lanny Bates; (standing, from left) Human Resources & Occupational Medicine Division Director Bill Hempfling, Associate Lab Director for Light Sources and National Synchrotron Light Source-II Project Director Steven Dierker, Special Assistant to the Director Peter Bond, Deputy Director for Science & Technology Doon Gibbs, International Brotherhood of Electrical Workers Local 2230 President Joe Buscemi, and HPI Coordinator Joe Labas.

Several basic assumptions, known as the Five Guiding Principles, make up the foundation of HPI:

- People are fallible, and even the best make mistakes.
- Error-likely situations are predictable, manageable, and preventable.
- Organizational processes and values influence behaviors.
- High levels of performance can be achieved through encouragement and reinforcement from leaders, peers, and subordinates.
- Events can be avoided by understanding the reasons mistakes occur and applying the lessons learned from past events.

One key point in HPI is realizing the difference between an error and an event. Many errors have little or no consequence, and everyone makes errors — a

misdialed phone number, a wrong turn when driving, or a data-entry error in a spreadsheet. Sometimes, errors result in a more serious "event," like the RHIC arc flash, but it is important to understand that "the things that cause the little things are the same as those that cause the big things," said Labas.

"In reviewing an event, it is important to understand why a person did what they did at the time," Labas added. "Usually, people involved were performing work as planned or expected, but something else came into play — work conditions were different, equipment was not functioning properly, or instructions or diagrams were not clear or accurate. In working to get the job done, people will use their knowledge and experience to make the best decision given the information they have at the time, but it may

result in an error — and that error can lead to an event."

According to Labas, by recognizing "error traps" and "error-likely situations," people can consciously reduce or eliminate the likelihood of errors. Identifying traps and recognizing triggers and error-likely situations can be done as part of work planning, pre-job briefs, and even in post-job reviews.

Last fall, the Lab developed a plan to integrate HPI concepts and tools into work practices. As part of that plan, the Lab established an HP Steering Team, chaired by Marge Lynch, that includes senior managers and IBEW leadership, brought in an expert on HPI to assist with its implementation, and named Labas as HPI coordinator. In January and March 2008, 44 BNLers from across the Lab's departments and divisions were

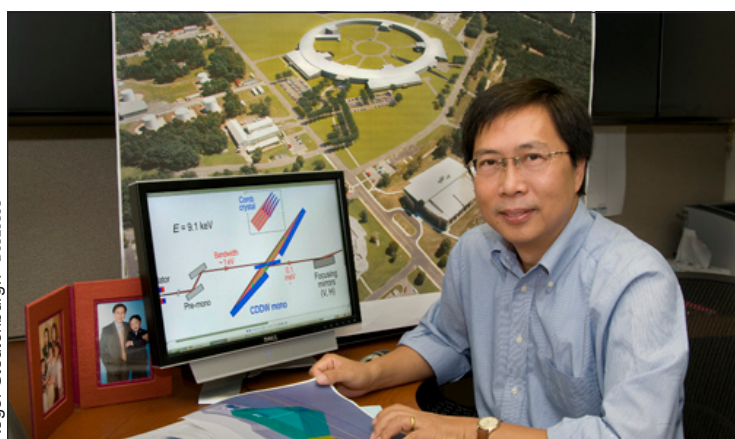
See *Performance* on pg. 2

439th Brookhaven Lecture, 9/24

A Path Through 'No Man's Land' — Inelastic X-ray Scattering at 0.1meV Resolution

To study how sound propagates through liquids, how biological molecules flop and perform their functions, and how seismic waves transmit through the center of the earth, scientists have used an experimental technique called inelastic x-ray scattering. The technique is made possible by bright synchrotron light sources that can be adjusted, or "tuned" to a particular wavelength. Currently, the technique is limited by the number of active instruments in the world and their need for improved energy resolution.

The new National Synchrotron Light Source II (NSLS-II) to be built at BNL will provide the new impetus for the continuing growth of the technique in this country. In particular, one of the key goals of NSLS-II is to achieve 0.1meV energy resolution for inelastic x-ray scattering experiments, making it possible to explore a region of dynamical response, dubbed as "no man's land," which has never before been possible.



Physicist Yong Cai will talk on developing a next-generation inelastic x-ray scattering facility for the new National Synchrotron Light Source-II.

To find out how this goal will be achieved, join Physicist Yong Cai of the NSLS-II Project as he gives the 439th Brookhaven Lecture, entitled "A Path Through 'No Man's Land' — Inelastic X-ray Scattering at 0.1meV Resolution," at 4 p.m. on Wednesday, September 24. All are invited to attend this free talk, which is open to the public and will be held in Berkner Hall. Refreshments will be offered before and afterward.

Visitors to the Lab of 16 and over must carry a photo ID.

During the lecture, Cai will review the current status of the inelastic x-ray scattering technique and research with examples taken from activities at BNL and elsewhere in the world. He will describe a new optical scheme that he and a team are investigating at NSLS-II, including research and development that promises to deliver the very

high-resolution goal at only half the energy currently needed for much lower resolution results. As Cai will explain, this new capability is expected to provide the important link between viscous and elastic behaviors of disordered materials, and at the same time, create new opportunities for other areas of energy research for the future.

Cai joined BNL in December 2007, after spending several years at SPring-8 synchrotron in Japan in a leading role for the construction and operation of the Taiwan Inelastic X-ray Scattering Beamline. He earned his Ph.D. in physics at La Trobe University in Australia. His interests in inelastic x-ray scattering include both instrumentation development and the study of electronic phenomena of materials utilizing the technique.

To join the lecturer at lunch in a restaurant off-site on Thursday, September 25, the day after the lecture, contact Lydia Rogers, lrogers@bnl.gov, Ext 4746.

— Liz Seubert

Performance from pg. 1

trained as HP advocates so they could serve as local organizational resources on HPI. Three DOE Brookhaven Site Office (BHSO) staff members were also trained as HP advocates. A list of HP advocates can be found in the contact list in BNL's Standards Based Management Systems, SBMS. Three teams formed from this group are now addressing HPI-related communication, training, and integration issues.

Training in use of HPI tools is under way in the Collider-Accelerator Department, the Facilities & Operations Directorate, and the Light Sources Directorate, and will soon spread across the Lab. BHSO staff are also being trained by their HP advocates.

"One of our major tasks for Fiscal Year 09 is to provide training in HPI concepts and tools to all employees," said Labas. "We'll conduct this training by directorate or organization, so that the managers, supervisors and staff in each directorate can quickly follow up with an HP advocate on how and where HPI can be specifically applied in their organization or facility. The Integration Team will continue integrating HPI principles and tools into institutional, cross-functional processes such as work observations and incident investigations."

Labas added that there will be a table at the Healthfest in October with information about HPI, and an HPI website is in development and will be made available in the coming months.

— Peter Genzer

BERA Trips

Tickets are available at the BERA Store, Berkner Hall, Bldg. 488, Ext. 3347, weekdays, 9 a.m.–3 p.m. All trips depart from the Brookhaven Center.

US ARMY @ West Point Football, Saturday 9/20

\$65/person (adult or child) includes luxury coach bus, ticket, cateredhottailgatelunch. Leave BNL at 7 a.m., leave West Point at 5 p.m.

NASCAR at Dover, DE, Sun. 9/21 (4 tickets left)

\$120 per person. Includes luxury coach bus, ticket and tailgate party. Leave BNL at 5 a.m., leave Dover at 6 p.m.

Cabela's in East Hartford, CT, Sat. 9/27

\$20 per person (adult or child). Coach leaves BNL at 7 a.m., and leaves Cabela's at 5 p.m.

Multi-Ethnic Walking And Noshing NYC Tour, Sun. 10/5

\$40 per person with lunch in Little Italy or \$25 for the tour only. Bus leaves BNL at 8 a.m.

Bear Mountain Oktoberfest, Sat. 10/18

\$15 per person (adult or child). Leave BNL at 8:30 a.m., leave Bear Mountain at 4:30 p.m.

CIGNA Representative

A CIGNA Healthcare representative is available as needed in Human Resources, Bldg. 400, or by phone to assist with claims issues you have been unable to resolve yourself through CIGNA's Customer Service number (1-800-CIGNA24). Mary Beth Kivlen will be available by appointment only. You will need to provide all pertinent documentation. To schedule, call the Benefits Office, Ext. 5126.

BWIS Talk, 9/23

Career Variables Among Scientists, Engineers

Sponsored by Brookhaven Women in Science, Nancy DiTomaso, Professor of Management and Global Business at Rutgers Business School, will give a talk titled "Advantage, Absence of Advantage, and Disadvantage Among Scientists and Engineers" at noon on Tuesday, September 23, in Berkner Hall. All BNLers are invited to attend.

DiTomaso will base her talk on survey data on the career experiences of 3,200 scientists and engineers from 24 major companies. Her survey findings indicate that most people who do well in their careers and make significant contributions to their organizations get assistance from others in their workplace in many forms, including offering opportunities such as good projects, providing resources that make good performance more likely, and opening up networking possibilities. DiTomaso will report on survey results and provide a theoretical framework for understanding how these processes work in a research and development environment.

DiTomaso received a Ph.D. in sociology from the University of Wisconsin, Madison, and also holds a certificate in business administration from the University of Pennsylvania's Wharton School. She previously taught at New York University and Northwestern University. She is currently Chair of the Department of Organization Management at Rutgers, and she held several national offices in professional organizations, including President of the Society for the Advancement of Socio-Economics and Chair of the Organizations and Occupations Section of the American Sociological Association. DiTomaso has co-authored or co-edited five books and has had articles published in such journals as *Administrative Science Quarterly*, *Academy of Management Journal*, *California Management Review*, and *Leadership Quarterly*.

For more information, contact Lynne Ecker, Ext. 2538 or lecker@bnl.gov.

Camera Club:

NYC Trip, 9/20

The Camera Club will be taking a field trip to New York City on Saturday, September 20. Shooting locations include Bryant Park, Little Italy, and the Brooklyn Bridge. For more information, contact Ripp Bowman, Ext. 4672.

Volleyball News

The BERA Volleyball League resumes play on Monday, Oct. 6. The league offers teams for players of every ability and skill level, so come and join in the fun! Players are invited to get warmed up for the season by playing open volleyball in the gym on Mon. and Wed. nights. Visit the website, www.vb.bnl.gov.

Meet Stephanie Majewski... And Follow Her Journey To The LHC

Just weeks before leaving New York for a year of work and play in Switzerland and France, Stephanie Majewski, a postdoctoral researcher in BNL's Physics Department, found herself steadily crossing items off of a massive checklist:

Apply for French and Swiss visas: done

Sell her car, TV, couch, and everything else that doesn't fit in a box: check

Brush up on her French: working on it

Help find evidence of supersymmetry: well, that's the ultimate goal

Now at CERN, on the French border just outside Geneva, Switzerland, Majewski is part of the ATLAS collaboration at the Large Hadron Collider (LHC), which is the world's most powerful particle accelerator since it started up on September 10 (see story, page 1). ATLAS, one of two massive general-purpose detectors, may help scientists unravel some of the deepest mysteries in particle physics such as the origin of mass or the identification of dark matter. Majewski joined the action in CERN when she left on September 8.

Specifically, Majewski's job focuses on making sure that the ATLAS liquid argon calorimeter—a central piece of the detector—is correctly measuring the par-



Roger Stoutenburgh 2870708

ticles produced from the LHC's extremely energetic proton-proton collisions. At CERN, she is taking "shifts" in the control room to monitor incoming data and pinpoint possible technical problems with the detector. She also serves as an additional liaison for the ATLAS group working on site at BNL, providing details and observations about the detector and the experiment itself.

"As I tell people about my move, I've been surprised by how many of my colleagues say 'Oh, I spent a year at CERN, too,'" Majewski said. "It seems like a rite of passage for particle physicists. I've been looking forward to this for a long time now."

Majewski, who received her Ph.D. in applied physics from Stanford University in 2007,

was originally interested in a career in computer science or chemistry. But after introductory physics classes at the University of Illinois, some reading about dark matter and the Higgs boson—the particle suspected to give objects mass—and an inspiring teacher's assistant, particle physics managed to capture her imagination.

"I really like gadgets and new technology in general, and particle physics is the epitome of cutting edge," Majewski said, adding that the ATLAS detector is essentially one giant gadget. "It's a huge engineering feat and amazing in itself, outside of all the amazing things we're going to see coming out of the LHC."

Of course, there are perks to living in the middle of Europe that don't involve a laboratory, and Majewski plans to experience it all.

"Paris, Prague, fondue, raclette, coffee, chocolate, wine—I'm looking forward to it all," said Majewski, who is considering joining the CERN ski club and already has plans for Oktoberfest. "I just really want to absorb the culture."

To follow Majewski's adventures overseas—at the LHC and around Europe—check out her blog: <http://stephatcern.blogspot.com/>.

— Kendra Snyder

Consult With TIAA-CREF Representative

A TIAA-CREF consultant will visit the Lab on Tuesday, September 23rd and Thursday, September 25th to answer employees' questions about their financial matters. The consultant will help you: understand the importance of protecting your assets against

inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare life-time income vs. cash withdrawal options. For an appointment, call Suzanne Leone (866) 842-2053, Ext. 4601.

Locker Audit

A locker audit will take place in the gym and pool locker rooms from Sept. 22–Oct 6. If you have a locker, please send your locker number to Christine Carter, ccarter@bnl.gov, or Ralph Garrapolo, garappolo@bnl.gov. If you have a locker and are not using it, please inform us and remove your lock.



Joseph Rubino A0070701



The Moroccos. Top row from left: the late Roland Wilson, Al Allen, Waddie Bolling. Bottom row, from left: the late Tommy Carter, Sonny Henderson, Melvin Robinson.

Rhythm & Blues Revue — Riverhead Style, 10/18

A rhythm and blues concert featuring musicians from the Riverhead area is scheduled in Berkner Hall on Saturday, October 18, at 8 p.m. Sponsored by the BNL Music Club, the revue will feature the band Blues House as well as surviving members of The Moroccos. The concert is open to the public. All visitors to the Lab age 16 and over must bring a photo I.D.

Blues House is a local band led by BNL's own George Bostick. Their set list contains mainly Chicago blues tunes from well-known artists like Muddy Waters, as well as some original songs written by Bostick. Scheduled to appear with Blues House is seasoned rhythm and blues

master Sonny Henderson, the lead guitarist from the 1960s Riverhead-based band, The Moroccos. Bostick, who is a personal friend of Henderson, said, "I learned chops (guitar runs) from Sonny. He was an inspiration and a true mentor to me. It will be an honor to play guitar standing next to him."

The Moroccos were cousins who started their career in the late 1950s by playing at school dances. Over the years, Henderson and the band also played at many local venues including routine gigs at The Bluebird, one of the hottest clubs in Riverhead in the 1960s; Dave's Diner; and the 5's in Bridgehampton. Their early set list included the music

of well-known musicians such as Chuck Berry, B.B. King, and Chubby Checker. Later, the group extended their play list to include songs by artists such as Otis Redding and James Brown.

Other distinguished guests expected to perform and jam at this revue include Ralph Boardman on sax and keyboard, Big Al Allen on sax, Waddie Bolling on drums, Melvin Robinson on guitar, and Curtis Highsmith and Dave Mann on vocals.

Tickets for the show are \$15 in advance and \$20 the day of the show. Buy tickets at the BERA Store in Berkner Hall, through www.ticketweb.com or at the door. Advance ticket purchase is recommended. — Jane Koropsak

Answering Employees' Concerns

BNL is committed to the highest ethical standards, to working safely, and to protecting the environment. The Lab's Employee Concerns Program was established to safeguard these commitments. Should any employee have unresolved issues concerning: the environment, safety, health, waste, fraud, or abuse, he or she may proceed in the following way:

Alert your line management to your concern

Is your environment, safety or health problem still not resolved? Contact your Environment, Safety & Health (ES&H) Coordinator or Facilities Support Representative. Concerns covered by labor agreements must be addressed through the labor grievance process.

You may also report an environmental, safety or health concern through the BNL ES&H Hotline, Ext. 8800, or via the web using the ES&H Concern and Suggestion Form at http://intranet.bnl.gov/ESHQ/ESH_Concern_Form.asp You may request anonymity in both cases.

If you still believe a condition or practice violates BNL standards, contact the Employee Concerns Program, Susan Foster, Ext. 2888, or EmployeeConcerns@BNL.GOV. A formal and confidential investigation will be conducted, and you will receive a response. The Lab will not discriminate against any employee who has filed a complaint.

Still not satisfied? You may request an inspection from a DOE representative by filing a request directly with the Brookhaven Site Office, Ext. 4089.

Also, be aware that DOE has a process for resolving differing professional opinions, "Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health," (DOE M 442.1-1, Approved 11-16-06). For information, call Ext. 4089. DOE will maintain confidentiality, if requested.

More useful information is available at https://sbms.bnl.gov/sbmssearch/subjarea/200/200_SA.cfm.

Defensive Driving Course

In Two Parts, 9/22 & 25

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday, 9/22 and Thursday, 9/25, in Brookhaven Center's South Room, from 6 p.m. to 9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$38 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number. For more information, call Sarah Wiley, Ext. 4207.

Arrivals & Departures

— Arrivals —

Raymond Filler..... NSLS II
Enju Lima NSLS II
Beatrice Latham N/P Physics
Erin Sheldon Physics
Nathan Martinez ES&T
Philip Settepani NSLS II
Sung-Yong Yoon..... NSLS II

— Departures —

William Anderson..... C-AD
Bethann Gilman.....ITD
Mitchell Richards.....Dir.'s Office
Tristan Ziska..... Physics

Staff Development Courses, Fall 2008

The Human Resources & Occupational Medicine Division has scheduled the following courses for fall 2008:

- Oct. 2** Legal Issues in Supervision, Part II*
- Oct. 7** Intervention*
- Oct. 15** Goal Planning & Appraising Job Performance*
- Oct. 23** Creativity and Innovation
- Nov. 5-6** Effective Supervision*
- Nov. 13** Managing Communication
- Nov. 18** Memory Enhancement
- Nov. 19** Writing Advantage
- Nov. 20** Conducting an Effective Interview*
- Dec. 4** Intro to EEO, AA, and Diversity Management*
- Dec. 9** Salary Review Workshop*
- Dec. 11** Salary Review Workshop*

*Supervisory and Management Courses

If you are interested in attending any of these courses, visit the HR website for course and audience descriptions. A Request for Training form is available at www.bnl.gov/HR/staffdev.

Santana Tribute Band, Milagro, To Play Berkner: Saturday, 9/27

Proceeds to benefit HHC Scholarship Program

Milagro, a Santana tribute band, will perform a two-hour concert in Berkner Hall on Saturday, September 27, at 7:30 p.m. Proceeds from the concert will benefit the BERA Hispanic Heritage Club's scholarship program.

Founded in 2004, Milagro is a seven-piece band with a full percussion section. The band has performed at venues all over Long Island, playing a variety of music that spans Carlos Santana's 40-plus year career as the unique, Latin-rock musician who founded the renowned band Santana and sold more than 90 million records.

Tickets cost \$12 in advance or \$15 at the door on the evening of the performance. Tickets can be bought at the BERA store in Bldg. 488. The concert is open to the public. All visitors to the Laboratory age 16 and over must bring a photo ID.



Courtesy of Ira Cohen, U.S. Army

Among attendees at the Casing of the Colors Ceremony were Lab Director Sam Aronson (fourth from left), DOE Brookhaven Site Manager Michael Holland (fifth from left), members of the BNL Veterans' Association, and others from BNL.

Historic Army Reservists Retire Colors at Camp Upton Site

On Sunday, September 7, BNL hosted soldiers from the U.S. Army at the ceremony of the Casing of the Colors, marking the retiring of the 77th U.S. Army Regional Readiness Command — the infantry division that began its distinguished 91-year history on the Lab site, formerly the site of Camp Upton, a U.S. Army induction and training center during World War I and World War II. The brigade will formally retire its colors on October 7.

Led by Major General William Terpeluk, the current commander of the 77th brigade, the event began with hundreds of soldiers marching in formation across the field under a large American flag proudly draped between two Lab fire trucks. After remarks from DOE's Brookhaven Site Manager Michael Holland, BNL Director Samuel Aronson, and historian Robert Laplander, each unit requested permission to "retire the command." A U.S. Army band played as each unit marched off the field.

The event concluded with a ceremonial 21-gun cannon salute while Terpeluk furled the division's flag and an echo of Taps played in the background. The division flag will be retired at the Center of Military History in Washington, DC. Soldiers currently serving in the 77th brigade have been reassigned to other units.

To watch a BNL video of the event go to: www.bnl.gov/to-day/story.asp?ITEM_NO=889. — Jane Koropsak



Courtesy of Ira Cohen, U.S. Army

New Badges for Guests, Retirees, Family Members

The Laboratory Protection Division will begin issuing new site-specific photo identification badges beginning the week of September 22, 2008. The current solid purple Guest and Retiree badges will now be green, the same as the Family Member badge. All three will be a darker shade than the current Family Member badge. The "old" badges for these three groups will remain valid until expiration; however, individuals may stop at the Badge Office in Bldg. 400 starting 9/22 to receive the newer version. The office is open Monday through Thursday, 8:30 a.m. to 4 p.m. and on Friday from 8:30 a.m. to 1:00 p.m. Construction contractors will continue to receive the striped purple photo ID.

Fidelity Full View — One Log-on, All Access

If you have accounts with many different vendors, financial management can be a challenge. However, a free service, Full View, available through Fidelity NetBenefits, gives you a display of all your personal information from more than 9,000 service providers on one secure; easy-to-view webpage. With a single log-on, you can access a consolidated view of your investment, bank, credit card, loan and mortgage accounts. You can also create views of other online personal information, including e-mail, addresses, travel services, and calendar.

Full View advantages

You can access and monitor multiple accounts online with one click and one password.

You can include non-Fidelity account information into NetBenefits planning tools, including myPlan Retirement Quick Check and Portfolio Review.

Fidelity and non-Fidelity finances are updated automatically.

To register for Full View, log in to NetBenefits at www.401k.com, www.netbenefits.com or www.fidelity.com/atwork. Look for "Monitoring Your Total Finances" within Tools & Learning.

CALENDAR

— WEEK OF 9/22 —

Monday, 9/22

*Defensive Driving, Part I
6-9:15 p.m. B'haven Center, South Room. See notice, left.

Tuesday, 9/23

*BWIS Talk: Career Variables
Noon. Berkner Hall, Room A. Sponsored by Brookhaven Women in Science. Nancy DiTomaso, Rutgers Business School, will speak on career variables among scientists and engineers. All BNLers invited. See pg. 2.

Wednesday, 9/24

*439th Brookhaven Lecture
4 p.m. Berkner Hall. Yong Cai, National Synchrotron Light Source II Project, will talk on "A Path Through 'No Man's Land' — Inelastic X-ray Scattering at 0.1meV Resolution." Open to the public. Visitors ages 16 and over must carry photo ID. See pg. 1.

Thursday, 9/25

*Defensive Driving, Part II
6-9:15 p.m. B'haven Center, South Room. Part II of two-part course. See notice, left.

Saturday, 9/27

New York City Dinner Cruise
5 p.m. Coach departs from B'haven Center for World's Fair Marina, Flushing. Dinner, dancing, cruise, \$90/person. Buy tickets at BERA Store, Berkner Hall.

*Santana Tribute Band: Milagro
7:30 p.m. Berkner Hall. See notice, left.

— WEEK OF 9/29 —

Monday, 9/29

IBEW Meeting
6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

Wednesday, 10/1

BSA Noon Recital
Noon. Berkner Hall. Pianist Igor Lovchinsky, grand-Prize winner of the Eastman International Piano Competition will perform transcriptions of Gershwin songs composed by Earl Wild, a Rachmaninoff work transcribed by Wild, and a Shostakovich sonata. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

440th Brookhaven Lecture
4 p.m. Berkner Hall. Featuring Rita Goldstein, Medical Department will talk on "Reward, Self Control, & Free Will in Cocaine Addiction: Brain Imaging Results." All are welcome.

Thursday, 10/2

What Are They Up To Now?
1:30 p.m. Hamilton Seminar Room, Bldg. 555. A symposium, hosted by Leonard Newman, Environmental Sciences Department, in which former Goldhaber Fellows presently employed at the Lab: Devicharan Chidambaram, Oleg Gang, Adrian Gozar, Peter Petreczky, and Hua-Gen Yu will give short talks on their research.

Ballroom Dance Lessons, 9/24

Three new six-week sessions of ballroom dance lessons in the Brookhaven Center, sponsored by the BNL Ballroom Dance Club and given by instructor Giny Rae at \$30 per person for each session, will start on Wednesday, 9/24.

Beginner ONLY salsa/mambo lessons, 5:15-6:15 p.m.; beginner/intermediate foxtrot lessons, 6:15-7:15 p.m.; and intermediate hustle lessons, 7:15-8:15 p.m.

For more information contact Donna Grabowski, Ext. 2720.

Classified Advertisements

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

SCIENTIFIC STAFF POSITION (Assistant/Associate/Scientist - S1/S2/S3) - Requires a Ph.D. in nuclear physics. A strong background in nuclear structure physics and several years of experience in experimental nuclear structure physics research, strong computer skills with proven record of code development, and capabilities to perform nuclear structure and decay data evaluations are also required. Will be involved in research and development of the evaluated nuclear structure data file ENSDF and performing evaluations for ENSDF, as well as management of this database and developing and maintaining computer codes in support of ENSDF. The level of the position will be based on the background and experience of the selected candidate. Under the direction of P. Oblozinsky, Energy Sciences & Technology Department. Apply to Job ID# 14617.

PHYSICIST/GROUP LEADER (S-3) Submicron Resolution X-ray Spectroscopy Beamline (Reposting) - Requires a Ph.D. in physics and at least five years of relevant postdoctoral experience. Experience in x-ray fluorescence spectroscopy with microbeams (focused to ~1micron) is required and prior experience in managing the construction and operation of a beamline is preferred. Candidates must have excellent written and oral communications skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. Will be responsible for working with the user community to define the scientific mission and technical requirements for a state-of-the-art undulator-based submicron resolution spectroscopy beamline and for its design, construction, and commissioning. Will also be responsible for developing the user community for the beamline and for developing and managing a scientific research program based on the beamline. Reports to the Division Director Experimental Facilities, National Synchrotron Light Source II. Apply to Job ID# 14119.

PHYSICIST (S-3, Project Appointment) - Requires a Ph.D. in electrical engineering or physics and a minimum of ten years experience in the design, analysis, and troubleshooting of high power RF systems. Experience with high power RF amplifiers and high voltage supplies is required. Candidates should have experience with RF systems for particle accelerators, in particular RF cavities, RF feedback and cavity frequency tuner loops. Excellent communication skills and the ability to develop detailed technical specifications and procedures are required. Must have working knowledge of system analysis tools such as Pspice, MatLAB or equivalent. Experience with RF cavity finite element design tools such as Microwave Studio or Superfish is preferred. Demonstrated ability with test and measurement equipment, in particular network and spectrum analyzers, is required. The NSLS-II RF group is responsible for the development of RF systems for a 3 GHz s-band linac, 500 MHz normal conducting cavity system for booster synchrotron and superconducting cavity systems for the storage ring. Responsibilities will include analysis, design, specification, procurement, installation and commissioning of a broad range of RF systems for the NSLS-II complex, for example, a 500MHz normal conducting 5-cell cavity fed from 80 kW inductive-output-tube (IOT) amplifier and 2 to 4 super-conducting cavities powered from ~300kW transmitters comprised of combined IOT's or klystron amplifiers as well as the design and fabrication of a passive 1500 MHz SCRF cavity. In addition to the analysis and design of high power RF systems, due to the small size of the RF group, there will be significant overlap into the low level RF infrastructure and timing systems. Will work closely with the accelerator physics and engineering groups in the integration of the RF systems into the accelerator complex. National Synchrotron Light Source II. Apply to Job ID# 14613.

POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in condensed matter physics or a related field. Experience with lasers is also required. Expertise in synchrotron radiation, electron spectroscopy, surface science, and correlated electron systems is desired. Will participate in a research program using high-resolution photoemission to study the electronic structure and properties of correlated electron systems. When applying for this position, include references along with the CV. Under the direction of P. Johnson, Condensed Matter Physics & Materials Science Department. Apply to Job ID# 14615.

R&D MANAGER 2 (Mechanical Systems Section Head, M-2) - Requires an MS or Ph.D. degree in mechanical engineering or related field and at least 15 years' experience in relevant fields; professional engineering license is desirable. Successful candidate will demonstrate a combination of technical expertise and leadership capabilities. Working experience with mechanical engineering and design tools such as finite element analysis and AutoCAD is required. Requires experience with management of a

group similar in size to the NSLS Mechanical Systems Section and having led large scale engineering projects. Specific successful prior experience with synchrotron radiation systems is advantageous. Excellent communication (written and oral) and interpersonal skills are essential. Will need to work well with accelerator and beamline scientists and NSLS users, in addition to the Section staff of engineers, designers, and technicians. Responsibilities include the planning and operation of the NSLS Mechanical Systems Section in the NSLS Experimental Systems Division. The mission of this section is excellence in the accomplishment of mechanical engineering, design, and technical support of the operation, upgrades, and R&D of NSLS accelerator systems and NSLS beamline systems. In particular, the Mechanical Systems Section will be centrally involved in the planning and execution of projects to upgrade NSLS beamlines and their endstations for future transfer to NSLS-II. This set of beamlines will productively support a significant number of users at the start of NSLS-II operations, and beyond. The NSLS Mechanical Systems Section Head will work under the supervision of the Experimental Systems Division Head and closely with all NSLS staff and stakeholders. Responsible for management of ~30 staff as well as budgeting and performance review. Also responsible for scheduling of the semi-yearly ring maintenance periods during which large upgrades and repairs of accelerator systems are performed. National Synchrotron Light Source Department. Apply for Job ID# 14621.

DIGITAL DESIGN ENGINEER II (P-7, reposting) - Requires a BSEE (MSEE preferred) along with excellent systems engineering skills and a minimum of seven years' hands-on design experience with digital hardware. Familiarity with high density programmable gate arrays and design tools for schematic capture and simulation is required, as is experience with computer bus interfacing. Must be able to analyze and troubleshoot systems with test equipment such as logic analyzers and oscilloscopes. Excellent communication skills and experience with project planning & scheduling are necessary. Embedded microcontroller hardware/firmware design and development systems experience is highly desirable; experience with analog signal interfacing desirable. Industrial PLC experience a plus. The Collider-Accelerator Department (C-AD) is responsible for operation, maintenance, and upgrade of the Relativistic Heavy Ion Collider (RHIC). Responsibilities in the Accelerator Controls Group include designing, testing and integrating state-of-the-art, real-time distributed control and data acquisition systems for the RHIC complex. Collider-Accelerator Department. ERAP ELIGIBLE \$1K. Apply to Job ID# 14552.

ADVANCED TECHNOLOGY ENGINEER (I-7, reposting) - Requires BS degree in computer science or related field with at least five years of system administration experience. Experience in the administration of a network of Linux or Unix workstations and servers is required. Must have strong organizational and communication skills and demonstrated skills in problem solving. Knowledge of programming/scripting languages is required. Must be able to participate effectively in the system design process and independently carry projects to completion with attention to schedule and quality of work. Will join the team responsible for the system administration of a large network of computers supporting physics research in the Collider-Accelerator Department Control System. Apply to Job ID# 14554.

STAFF SPECIALIST (A-6) - Requires a bachelor's degree in accounting, business administration or equivalent plus four years' related experience. Extensive administrative experience should include financial performance, contract administration, coordination of program funding, grant preparation, and financial reporting. Excellent written and oral communication skills, proficiency in Excel and other MS Office products and experience with PeopleSoft is required. Will assist in overall management for the department administrative business activities including budgets, subcontracts, and grant preparations for DOE and other federal agencies. Medical Department. Apply to Job ID# 14620.

SR. DESIGNER MECHANICAL (T-4, term appointment) - Requires an AAS degree in mechanical technology or equivalent, and a minimum of six years' experience in 3D modeling of complex mechanical components and systems; demonstrated ability to perform professional level design functions; working knowledge of engineering fundamentals and handbook formulas, machine shop practices and vendor products; and considerable experience managing layouts, parts and assemblies in the drawing database. Preferred requirements include substantial experience in specifying drive components such as motors, gears, bearings, actuators, switches and connectors; knowledge of accelerator magnets, vacuum systems, instrumentation and beamline hardware; work experience in an accelerator or light source facility. Responsibilities include generating complex 3D models and 2D drawings of accelerator and beamline instrumentation components such as BPMs, current monitor, scrapers, flags, strip lines and slits; interpreting and ensuring conformance to applicable standards,

codes and policies including ANSYS14.5; document designs through detailed drawings including bill of material, ECN and catalog items; successful interaction and working closely with engineers. Reports to the Mechanical Engineering Group Leader, National Synchrotron Light Source II. ERAP ELIGIBLE \$500. Apply to Job ID# 14614.

PHYSICS ASSOCIATE IV (P-1) - Requires a BS in physics or related field and excellent written and oral communication skills. Background experience in high power pulsed power supplies, digital electronics, computer controls and programming, as well as laboratory test and measurement techniques is desirable. Primary duties, as part of a rotating shift team, include the operation and troubleshooting of the Collider-Accelerator (C-AD) Complex for the experimental physics program. Will be part of C-AD emergency response team while on shift. Collider-Accelerator Department. Apply to Job ID# 14601.

AUTO-TRUCK MECHANIC (LG-10) - Under minimum supervision, performs required repairs, maintenance, servicing and incidental operation of gasoline, diesel engine, or propane/compressed natural gas (CNG) driven vehicles such as automobiles, trucks, trailers and material handling equipment. Performs all duties associated with the removal and installation of two-way radios, back-up sensing devices, upholstery repair, D/C power inverters, back-up cameras, and remote alarms. Performs limited welding, brazing and painting and other body and fender repair work in order to maintain vehicles in operating order. Uses and maintains all hand and portable tools, shop machines and equipment necessary to perform assigned work. Staff Services Division. Apply to Job ID# 14601.

Motor Vehicles

07 HYUNDAI ENTOURAGE - Mini van, fully loaded, htd seats, DVD, lthr, seats 7, working rear windows, auto drs, 28K mi. \$22,000/neg. Ext. 5753 or 924-6395.

06 JEEP WRANGLER - 65th Anniv. Ed., 4wd, 6cyl, a/t, a/c, cd, both soft/hard tops, ext warr incl. 22K mi. \$19,500/neg. Ext. 7837.

06 HONDA MOTORCYCLE 250CC REBEL BLACK - 146 mi. \$2,450. Ext. 7484.

05 FORD F250 - super duty supercab, 4x4, tow/plow pkg., factory brake contr. syst., 1 rack w/work winches. 48K mi. \$16,000/neg. 765-8092.

05 CARGO MATE TRAILER - barn drs on r/side, sing axel w/elec. brkes. V/nose 12x6X6. 20K mi. \$2,000/neg. 765-8092.

05 PROWLER TRAVEL TRAILER - Quad bunks, full ba., ac/heat, q/BR, gar dr, for storage, easy access. \$16,500/neg. 807-9916.

04 DODGE RAM 1500 - 5.7l hemi, quad cab 4wd, p/w,p/l,p/s,a/c,cd,abs, chr. trim, bed-liner, loaded. 50K mi. \$15,000. 521-5101.

03 FORD FOCUS - 5 spd, 4cyl, 4dr, a/c, cd, excel.cond, red, grey black int. 51K mi. \$6,500/neg. Mary, Ext. 3927.

02 ACURA TL 3.2 SEDAN - 6 cyl., FWD a/t manual, blk w/bge lthr int. Grl cond in/out. 94K mi. \$8,300. Ext. 4872 or 801-2666.

00 DODGE NEON - excel. cond., new tires (4) & batt., gas saver (33 mpg), a/c, 4dr., white. 100.000 mi. \$3,995. 902-5129.

99 CHEVY 3500 MOTOR HOME GULF STREAM ULTRA - 21', sleeps 6, v/clean, dealer maint'd, a/c, awning, 5,000 watt gen. 31K mi. \$15,000/neg. Ext. 5248.

98 CHEVY SUBURBAN LT K1500 - a/t, a/c, p/w, cd, 4x4, toe pkg., F&R, p/l, 5.7L new 17" whls/tires. 108K mi. \$5,750. Ext. 3498 or 849-2520.

98 HONDA CIVIC LX - orig owner, red, 4dr, a/t, a/c, am/fm, p/w, v. clean, excel. cond. 36K mi. \$6,500/neg. Ext. 5343 or 924-9657.

95 TOYOTA CAMRY - Black, 4cyl, a/c, a/t, c/c, p/s, p/w, dual a/bag, perf. cond., runs v. well. tinyurl.com/56kbpu 167K mi. \$2,950. Harmen, Ext. 5805 or 295-7163.

CAR TOP CARGO BOX & VW RACK - Photos avail., 18cu ft dbl hinged cargo box, sep. VW bug rack. \$175 & \$75, \$200/both. 765-4147/516-924-4299.

Boats

10' YAMAHA GP1300R - PWC jet ski, 30/hrs., like-new aluminum trailer, cover & PFD. \$6,500/neg. Mark, 902-8188.

Car Pool

HICKSVILLE - near train station area to BNL, Mon-Fri. Yuping, Ext. 4992.

Furnishings & Appliances

BEDROOM SET - Knotty pine, qu. sz canopy frame, mtching dresser w/mirror. Ask \$325. Leave message. Marge, 475-4715.

CHEST FREEZER - apt. size, Avanti, 3.27c ft, 2 yrs old, \$50. Roger, Ext. 4084.

LARGE OAK ARMOIRE - with 2 bottom drawers. Ext. 3008 or 516 617 0557.

DINING TABLE - oval, 1/2x43 w/2inserts & chrs, wood, gd cond, \$65; Qu metal bed-frame, \$15, B&D inflator \$15. 949-7412.

TABLE AND CHAIRS - glass d/r table 60" x 36", 4 chairs, \$75/obo. John, Ext. 5215.

Audio, Video & Computers

MONITOR - Compaq 19" flat screen mon, integ spkrs, new in box, \$150. Ext. 3884.

PIANO - upright, nds sme work/tuning, can help move, ask/\$300. Ext. 7235 or 286-1018.

PRINTER - Brand new HP Deskjet printer, \$50. Ext. 3884.

Employee Lunchtime Tour: U.S. ATLAS Facility, 9/26

Next Friday, September 26, at noon, join a group in Berkner Hall lobby to be taken to see and learn about the ATLAS control center at BNL, returning to Berkner by 1 p.m. ATLAS, which BNL helped to build, is one of the experiments at the Large Hadron Collider (LHC) that has just started up in CERN, Switzerland (see story, page 1). Events at the LHC could reveal the origins of mass, shed light on dark matter, and possibly find extra dimensions of space. In addition to serving as the U.S. host lab for ATLAS, BNL plays multiple roles in this massive international undertaking, ranging from construction and project management to data storage and distribution.

13th Annual Pine Barrens Research Forum, 10/2

The Thirteenth Annual Pine Barrens Research Forum, on "Current Challenges and Future Solutions," will be hosted by BNL on Thursday, October 2, 8:30 a.m.-5 p.m., in Berkner Hall. All are welcome to attend the forum, which is free and open to the public. Visitors to the Lab of 16 and over must carry a photo ID. Topics to be discussed will range from the "wildland-urban interface" to "Linking groundwater, pesticide occurrence and submerged aquatic vegetation," and many more. The event is sponsored by BNL, the Central Pine Barrens Commission, the L.I. Groundwater Research Institute at Stony Brook, and the Foundation for Ecological Research in the Northeast. See next week's Bulletin for more information or contact Tim Green, tgreen@bnl.gov or Ext. 3091.

SAMSUNG DLP HDTV - 43-in. Mint cond. Bought at \$1,500 last fall. 720 HD resolution. Beaut. picture. Ask \$750. Ext. 4872.

Sports, Hobbies & Pets

HORSE - Strawberry Roan appendix horse all discipline, grt for fam, 16 hands, 17yrs, \$1000/obo, Sara. 347-923-0041.

TICKETS - 2 Nascar, for 9/21, \$120/ea., Lab bus trip. Dale, Ext. 6273.

TRAVEL TRAILER - '05 prowlr, quad bunks, q/bed, ac/heat, full bath, new awng, lots storage, \$16,500/neg. 807-9916.

TRIKKE T6 3 WHEEL VEHICLE - Like-new pink cambering stand-up-on bike for children, adults under 200 lbs. \$75. Photos avail. Linda, Ext. 2733 or 395-6784.

Tools, House & Garden

HALOGEN LIGHT BULBS - 4 MR16, for track lighting 12V/50W flood, never used, \$16/new, now \$8. Sandy, Ext. 2922.

LAWNMOWER - Honda, 6.75 HP, FWD, rear bag, 2 y/o, mulch blades, works well, starts 1st or 2nd pull, \$75. Ext. 6306 or 897-7930.

SAW HORSES - \$10/set; Badmtn net, new \$5; Util. scale, \$5; B&D Workmate Vise Clampdwn, \$20; Bandsaw, \$40. 979-7412.

USED WOOD FENCE - 6'x8' sections. Gothic pickets. CCA pressure treated. Posts inc. \$20/section. 12 avail. 744-1706.

Miscellaneous

SPRINKLERS - poly pipe, also installation of complete lawn irrigation avail. Michael, Ext. 5262 or 284-2277.

Yard & Garage Sales

RIDGE - Fundraiser for Multiple Myeloma SAT, 9/27, 8:30-4. Come to shop or donate item for sale. Susan, Ext. 2828 or 924-3633.

Community Involvement

CARING FOR CAMERON - Sat. Oct. 4 @ 6 pm, Sayville Fire Dept., Tickets \$10/advance, \$15/door. www.caringforcameron.com. 495-5010.

HOLIDAY PIES - BMS Fundraiser, Grandma's gourmet country pies, order now, delicious!! Debbie, 776-0188.

Happenings

INTERNAT. MARTIAL ARTS COMPETITION - 9/27 & 9/28, 9am, Armory Center, 216 Fort Washington Ave. Manhattan, NY martialarts.ntdvtv.com George, Ext. 4033.

NITE AT THE RACES - Food, wine, beer, soda included with admission. VFW, 31 Horseblock Rd. Centereach on 9/20, 7 pm - \$10. (631) 585-7390.

CONCERT - Intro to M. Proust's *A la Recherche du Temps Perdu*, Sun., 9/21, 3:30 p. Greenport Library: Debussy, Hahn, Chaminate, Satie, soloist Leslie Rosenthal. Free. Also 11/21, 7 pm Sh/ham-Wading River Lib.

Lost & Found

LOST - cell phone, Fri. Sept. 12th. Sprint PCC 6700, Silver Smartphone PDA., flete@bnl. German, Ext. 8070.

SILVER HOOP EARRING - Found on treadmill at gym, 9/11. Richard, Ext. 3932.

Wanted

FISH TANK - 55-145 gal, no leaks, ready to use cond. 401-218-2344.

IPHONE - Apple, 3G or 8G, GSM network gd. cond., need asap. Yuping, Ext. 4992.

KNITTING EQUIPMENT & SUPPLIES - needed for Hospitality knitting class held each Tues. at 2pm in the Rec Hall. All are welcome! Christine, Ext. 5090.

REFRIGERATOR - sm., suitable for studio apt, reasonable. Ext. 4340.

RIFLES - starting a gun collection and looking mostly for rifles. Bob, 603-7261.

ROOMMATE - to share 3/bdrm. apt or house, near Lab. Meng, Ext. 4679 or 413-5718.

2-BDRM. APT/HOUSE - Quiet/clean tenant, R/head, Baigt Hollow, Calverton, Aquabogue area; no bsmt., ref. avail. Sue, Ext. 4931.

VIDEO GAME SYSTEMS - need to borrow working vintage game systems and games for BNL demonstration. Atari, Odyssey, NES, Coleco, etc. Will return. Joe, Ext. 3584.

FOR RENT

BELLPORT VILLAGE - 1g 1bdm apt on 1st flr of 2-fam home; priv ent; lr, dr, kit, full bath, yd, incl util. \$1,235/mo. 275-0745.

CENTEREACH - 1 bdrm, 2nd flr. apt., full kit/lr combo, pvt. ent., drway prkg, near stores, transportation. \$950/mo. 546-8600.

MANORVILLE - 4 bdrm, 2 baths on 5 acres, + sec/util., will consider sep. rm. rental for students, \$600/mo/ea. rm. \$1,900/mo. 874-1011/645-7139.

MEDFORD - 1-2 bdrm. Condo, recently renov., all new bath/kitchen/couner-top/flr/appl., dw, havac, w/w. \$1,100/mo. 806-8872.

ROCKY POINT - 1 bdrm house, w/d, 1 blk beach, 15 min. BNL, no pets, 1000 mo. + util/sec. \$1,000/mo. 744-5282.

ROCKY POINT - Studio apt. 12 mi. to Lab, sep. ent., sm cooking area & bath, Inc., TV/int., par. furn. \$700/mo. Nate, Ext. 2002.

RONKONKOMA - New 1 bdrm apt. Walk to lake/LIRR, 15 min to Lab. Recessed lighting. Utilities, cable/inet incl. \$1,050/mo./neg. Ext. 3008 or 516 617-0557.

SHIRLEY - 1rm, stove/kitnet, full bath, sep ent., tv/elect/heat/int/furn/all incl., 1mo. sec, 14 min to Lab/5 min to stores/beach/LIRR/no smkg/pets. \$650/mo. Ext. 8321.

SHIRLEY - 1 rm, microkitnet, full bath, sep ent, tv/elect/heat/int/all incl., 1mo. sec, 14 min to Lab/5min to store/beach/LIRR, no smkg/pets. \$650/mo. Ext. 8321.

SHOREHAM - studio apt., eik, walk-in-closet, sep. ent., elect., cable, heat incl., 1 mo. sec. no smkg., 8 mi. from BNL. \$900/mo. 849-2593.

SOUND BEACH - Beaut. Col. 2 story house, 8 rms, 2 bath, bsmt. w/d, d/w, skylight, 15 min. to BNL, dd-end str, walk to beach, Miller Place SD \$2,150/mo./neg. 849-3767.

ST. JAMES - 2 bdrm, 2 bath, l/r, d/r, eik, deck, a/c, updated appls, in gated Fairfield 55+ commnity, in/out pools, tennis, clubhse, catv incl, nr. town. \$1,800/mo. 584-3656.

WADING RIVER - new 2 br apt., full bath, eik, l/r, off st prkg, encl porch, across beach, sep. ent., heat incl, no smkg/pets, 1 mo. sec, 1 yr lease, \$1,250/mo. 929-3926.

For Sale

MIDDLE ISLAND - 1 bdrm. spac. co-op, lg, l/r, b/r, d/r & patio, open plan; 2nd flr., all new rms., bath, kit., appli., comm. igp/tennis, \$117,500/neg. Ext. 5453 or 220-3487.

PORT JEFF STATION - 3 Bdrm Col., fin. bsmt w/poss. 4th bdrm, 1.5 bath, l/r, d/r, eik, agp, 1/4 acre, gas heat, young families on quiet block \$355,000. 413-5012.

RIDGE - 4 bdrm, 3 full bath, 2 car gar. lr, dr, eik, fin bsmt, 8 min to Lab. 0.48 acre, quiet, nice garden. \$349,900 929-1033.

SHOREHAM - Middlecross Estates, 4 bdrm., 2.5 bath Col., frm l/r & d/r, den w/fp, lg. kit. w/dinette, 2 car gar, fin. bsmt., igs, SWRSD, \$529,000/neg. Ext. 2253 or 821-3320.

SHOREHAM VILLAGE - Spotless custom ranch, 3 bdrm, 3 bths, recently renov., 1 acre, borders pkland, wd flrs, pool, screened porch, igs. \$534,900/neg. 744-2404.

In Appreciation

Thank you all for the farewells and best wishes on my move out of state. I have met so many terrific people at BNL, some friends will never be forgotten, some will always be in my heart. 18 years of memories can never be lost. — Bethann Gilman

On behalf of our family, my brother Jim and I would like to thank our friends and co-workers at BNL who expressed kind thoughts to help us through this difficult time — the sudden passing of our father, James L. Desmond, Jr. — Margaret Desmond