



Roger Stoutenburgh D014005

From Monday's Memo

Salary Increases Granted, RHIC Ready for Action

In the Monday Memo of March 12, Lab Director Sam Aronson expanded on a broadcast e-mail sent out on Tuesday, March 5, to state that BNL is moving forward with the salary increases planned in the recent salary review, and that those increases will be granted retroactively to January 1. Supervisors have begun notifying employees of planned salary actions, and increases and retroactive payments for monthly employees will be reflected in March paychecks. Weekly non-bargaining employees will see increases in paychecks

issued this Thursday, March 15, and retroactive amounts in paychecks issued March 22.

Said Aronson, "I thank you all again for your patience over the past couple of months as Congress worked towards agreement on funding levels for FY07."

Other good news relating to the improved budget picture included sufficient funding for a 20-week experimental run at the Relativistic Heavy Ion Collider. After some technical difficulties, ion beams are circulating, and physics runs will soon begin.

Setting the Stage to Find Drugs Against SARS — BNL Scientists Develop a New Test

BNL scientists have developed a test for the rapid identification of compounds to fight against severe acquired respiratory syndrome (SARS), the atypical pneumonia responsible for about 800 deaths worldwide since first recognized in late 2002. While this outbreak was contained within about two years, the virus that caused it is likely to develop new, more virulent strains. Another epidemic could be prevented if antiviral agents are available.

In research to prevent a new SARS epidemic, Walter Mangel and William McGrath of the Biology Department and Lin Yang of the National Synchrotron Light Source (NSLS) characterized a component of the virus that will be the target of new anti-SARS virus drugs.

The results were published online by *Biochemistry* on November 17, 2006. The research is funded by the Office of Basic Energy Sciences within DOE, and the National Institutes of Health.

Wanted: Vaccine Against SARS

"Although vaccines against viruses are very effective, vaccines against viruses that mutate rapidly — such as the viruses that cause SARS, AIDS, and bird flu — are much more difficult to obtain," said Mangel, lead author of the paper. "Even if a vaccine is available, antiviral agents are important in stopping the spread of highly infectious viruses among people not vaccinated. If antiviral agents for SARS had been available, they could have been used to contain the outbreak to the initial site of the infection."

Antiviral Agents

The researchers studied a component of the virus, an enzyme that during infection is used to cut newly made viral proteins into smaller, functioning pieces. If this enzyme, the SARS CoV main protease, is prevented from working by drugs — antiviral agents — virus infection is aborted.

Danger: If Two Cutting Molecules Bind

Previous studies have revealed that the cutting enzyme is inactive when in the form of single molecules. But once two of those molecules bind together to make what is called a dimer, the cutting enzyme becomes active and is able to play its role in SARS virus reproduction.

Challenge: Determining Conditions

The challenge was to determine the concentration at which individual cutting molecules

Other Researchers Want to Use BNL's Test

The paper describing the new, BNL-developed test for potential anti-SARS drugs has already had results. A group at the Mayo Clinic in Minnesota has asked BNL researchers Walter Mangel, William McGrath, and Lin Yang, who developed the test, to try some of the potential anti-SARS drugs under study at Mayo. These tests are going on now at BNL, and already one compound has shown promise.

get together to form active dimers. Estimates at other laboratories have varied greatly on this point, up to a million fold. Knowing this concentration would allow researchers to identify and characterize anti-SARS drugs.

Success: BNL Identifies Critical Value

Using three different scientific techniques, including x-ray scattering at the NSLS, the BNL team obtained almost identical values for this concentration. Now that this crucial value has been narrowed down to a precise range, researchers can focus on finding compounds that bind to the active form of the enzyme.

Antiviral Drugs Prevent Virus Reproduction

"Targets for antiviral drugs must be carefully chosen such that binding to them prevents the virus from reproducing," Mangel said. "Viral proteases are excellent targets for antiviral drugs. One reason so many people are surviving the AIDS epidemic is the effectiveness of drugs targeted to the protease of human immunodeficiency virus (HIV)."

Getting There by Innovative Screening

One way to obtain compounds that bind to a cutting protein is to use high-throughput screening. Previously, Mangel's research group had published a procedure on the synthesis of a new compound that changes color in the presence of the active form of the SARS main protease.

A Snag Ironed Out

However, for this screening process to work, the SARS protease must be active to begin with. Knowing the concentration range for active dimer formation will therefore help researchers in their search for a compound to stop the virus.

Stage Set for Next Phase

"Now that the stage is set, high-throughput screening can begin," Mangel said. "Hopefully, it will yield an antiviral agent that can be stockpiled before a new, virulent strain of the virus reappears."

— Kendra Snyder

James Reilly Named Scientist Emeritus



Roger Stoutenburgh D2020706

James Reilly, a retired chemist who continues to pursue his research on a part-time basis in the Energy Sciences and Technology Department, (ES&T) has been named Scientist Emeritus. This status, which carries with it many of the rights and privileges of active employees, was granted to Reilly on the basis of his reputation as a leader in the field of metal hydrides. He has over 100 peer-reviewed publications

and 18 patents, plus one pending patent, in the field.

Reilly commented, "I have been most fortunate to have spent my scientific career at BNL; performing research with new materials, writing papers, filing patents — all kinds of opportunities are available. The freedom to explore one's research interests is rare, and I am glad that I can continue to do so in this new Emeritus position."

Hydrogen Research Since Mid-60s

When he first joined BNL in 1956, Reilly focused on developing methods for reprocessing nuclear fuel and storing nuclear waste. In the mid-1960s, he began his research on the properties and applications of metal hydrides, catalytic properties of metal hydrides, preparation and characterization of these materials for battery applications, and preparation of nano-composite materials via hydrogen-driven metallurgical reactions. Later on, he investigated metal hydrides as a hydrogen-storage material for use in fuel cells of hydrogen-powered cars, work that he continues today.

To be stored effectively, hydrogen gas must be placed under intense pressure. In liquid form, it can only be stored under cryogenic temperatures. The solution to these problems is the storage of hydrogen in hydride form.

During the energy crisis in the early 1970s, Reilly and the late Richard Wiswall, then a chemist in the Department of Applied Science, developed iron titanium hydride, a metal hydride that Reilly considers the most promising for hydrogen storage because it is inexpensive and can both supply hydrogen and be recharged at room temperature. During this period, Reilly and colleagues first demonstrated on an engineering scale that hydrogen storage could work in combination with a fuel cell.

Current Work: Hydrogen Storage for Fuel Cell Vehicles

Currently with colleagues in ES&T, Reilly is evaluating aluminum hydride as a promising hydrogen storage compound on board fuel cell vehicles. Aluminum hydride is an attractive storage material because it can contain a large amount of hydrogen in a relatively small, lightweight package. It easily meets the DOE 2010 weight and volume targets for automotive applications. DOE funds this research through the Office of Energy Efficiency and Renewable Energy's Metal Hydride Center for Excellence.

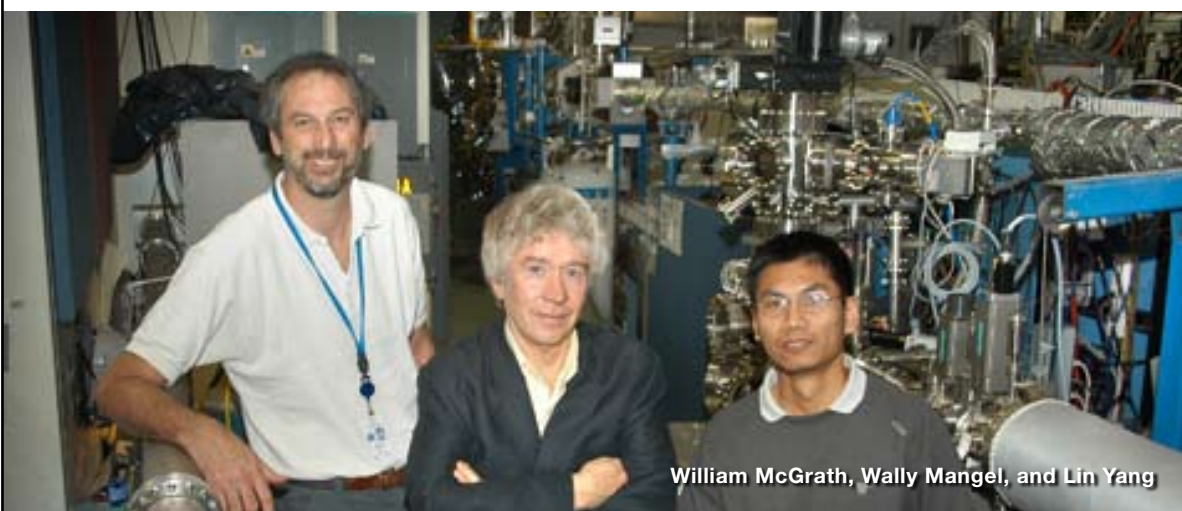
Background, Honors

After serving in the U.S. Navy from 1946-1948, Reilly earned a B.S. in chemistry from Fordham University in 1952. After some years as an industrial chemist, he joined BNL as a technical specialist in the former Department of Nuclear Engineering. He was granted tenure in 1980 and named leader of the Metal Hydride Group, 1980-1999. He was also Deputy Head of the Chemical Sciences Division of the former Department of Applied Science, 1994-1999, when he retired. Since then, until his current appointment as Scientist Emeritus, he has been a guest scientist in ES&T.

Among his honors and awards, Reilly received a 2006 DOE Hydrogen Program R&D Award in recognition of his lifetime contributions in hydrogen storage research and development. He also received an Outstanding Achievement Award at the 2006 International Symposium on Metal-Hydrogen Systems.

Reilly is a member of the American Chemical Society, the American Association for the Advancement of Science, the American Physical Society, the Electrochemical Society and the Metals Society.

— Diane Greenberg



William McGrath, Wally Mangel, and Lin Yang

Michael Herbert D0031106

CALENDAR
OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers Of Other Languages Classes

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

Mondays: BNL Social & Cultural Club

Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, alforque@bnl.gov.

Mondays: Pilates

12:15 & 5:15 p.m. Rec. Hall. Ext. 5090.

Mondays: Jiu Jitsu Club

6-7:30 p.m. B'haven Center. All levels, ages 6 & up. \$10/class. Tom, Ext. 4556.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

Mon., Tue. & Thu: Ving Tsun Kung Fu

Noon-1 p.m., B'haven Center, North Room. Taught by Master William Moy. Scott Bradley, Ext. 5745, bradley@bnl.gov.

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

Noon-1 p.m., B'haven Center North Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Jazzercise

Noon, Rec. Hall. Ext. 5090.

Tuesday & Thursday: Aerobic Fitness

5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, flood@bnl.gov.

Tuesday & Thursday: Aqua Aerobics

5:15 p.m., Pool. Ext. 5090.

Tuesdays: Welcome Coffee

10 a.m.-noon, apartment area gazebo. First Tuesday of every month is special for Lab newcomers and leaving guests. Lisa Yang, 979-3937.

Tuesdays: BNL Music Club

Noon, B'haven Center, North Room. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Toastmasters

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

Tue., Wed. & Thu: Rec Hall Activities

5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon, Recreation Bldg. An infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238.

Wednesdays: Ballroom Dance Class

B'haven Center, N. Ballroom. Instructor: Giny Rae. Arup Ghosh, Ext. 3974; Donna Grabowski, Ext. 2720; or Vinita Ghosh, Ext. 6226.

Wednesdays: Weight Watchers

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

Wednesdays: Yoga

Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Wednesdays: Pilates

5:15 p.m., Rec Hall. Ext. 5090.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholc, Ext. 2027.

Fridays: Family Swim Night

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

Fridays: BNL Social & Cultural Club

Noon-1 p.m., B'haven Center, South Room, free beginners dance lessons. 7-11:30 p.m. North Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, alforque@bnl.gov.

CIGNA: Tuesdays, Bldg. 400

A CIGNA Healthcare representative will be on site in Human Resources, Bldg 400, on Tuesdays, to assist you with any claims issues that you have been unable to resolve yourself. Janice Petgrave will be available for 30-minute meetings, by appointment only, 10 a.m.-1 p.m. Bring all pertinent documentation to your meeting. To schedule, call Linda Rundlett, Benefits Office, Ext. 5126.

Einstein-Inspired Art On View in Physics

Three of the children featured in an American Physical Society (APS) art exhibit, "A New World View," came with their parents to a reception held by Physics Department Chair Sally Dawson for BNL and APS employees to celebrate the exhibit's arrival at the Lab. Commemorating the ideas and life of Albert Einstein, the art was designed to challenge and inspire children — and others — to build on the science of the past and be a part of the science of the future. It is being shown at the Lab through the efforts of Robert Liegel of Physics and is currently on display in the large seminar lounge area in Physics, Bldg. 510.

"A New World View" has four glass columns each containing eight tiles. Three columns focus on Einstein's revolutionary ideas of 1905 — the composition of matter, the quantum nature of light, and the Special Theory of Relativity. The fourth column illustrates Einstein's life. In the actual artwork, faces of children peer through the glass at the images in front of them. With the exhibit is a poster, sponsored by the APS, the American Association of Physics Teachers, and the Society of Physics Students.

The Lab community is encouraged to come see the exhibit while it is on view at BNL for the next few months.

Take Our Daughters, Sons to Work Day, 4/26

Daughters and sons of ages 10-15 years old are welcome to come to work with their BNL parents on April 26. They will spend the morning with their parents, then, after lunch, they will learn more about the Lab in a program of talks and tours. Parents are invited to volunteer to help organize an interesting experience for all the children. For more information, contact Susan Foster, Ext. 2888, foster@bnl.gov or Liz Gilbert, Ext. 2315, gilbert@bnl.gov.



Roger Stoutenburg D1030207

With Physics Chair Sally Dawson (second from right) and Robert Liegel (right) of Physics at a reception held to celebrate the arrival of the American Physical Society (APS) art exhibit "A New World View," are: three of the "APS" children who are featured in the exhibit: (front, from left) Elisabeth Wesselborg, Evan Rupolo, and Christian Wesselborg; and their parents: Chris Wesselborg (second from left) of the APS and his wife Anne Westover (left); and Marie Rupolo (center) of the APS and her husband Joseph Rupolo (third from left).

Parent Volunteers Needed
To Prepare for Take Daughters, Sons to Work Day

Parent volunteers are needed to help prepare for "Take Our Daughters and Sons to Work Day," which will be held on Thursday, April 26. Contact Susan Foster, Ext. 2888, foster@bnl.gov or Liz Gilbert, Ext. 2315, gilbert@bnl.gov for more information.

Then & Now — In the Swim

'Virtual Swim' Around Long Island

The Lab's pool may be slightly shorter than an Olympic size 50-meter pool, but it is not short on its benefits or special events.

Earlier this year, about 65 BNLers participated in a "Virtual Swim Around Long Island." The event, organized by long-time BNL Swim Club member, Peter Heotis of the Radiological Controls Division, was designed as a group effort. Each group member's swimming laps were to be logged in until all the laps totaled 260 miles: the length of a swim around Long Island.

"We thought this event would be a fun way to 'kickstart' 2007. We had such an enthusiastic response that we actually completed laps totaling 400 miles," said Heotis.



Roger Stoutenburg D057207

Participants of the 2007 Virtual Swim Around Long Island, a BERA event at the Lab pool "dreamed up" and organized by Peter Heotis (third from left) with the help of BERA and other volunteers.

Pool of History

The pool, which was built by the U.S. Army in September 1944 as part of the Camp Upton convalescent hospital for soldiers, still provides recreation for many BNLers. Routine activities include swimming lessons, lifeguard training, healthfest swims, water aerobics, birthday parties, and scuba and emergency rescue training. Lab pool history spans from swimming lessons for Lab employees' children in the summer of 1947 to present-day healthful enjoyment by the Lab community and summer camp participants alike.

The first fees for pool usage were instituted in 1950. The cost: 20 cents for employees, 30 cents for family members, and 50 cents for guests. Today, BNLers pay \$3 for a swim or may purchase individual or family seasonal or monthly passes. Lab retirees swim for free.

Over the years, upgrades at the pool have included the addition of concrete steps at the shallow end and the replacement of iron ladders with aluminum ones in 1967. More recent improvements are: a new cushioned safety floor, fencing, a temperature-control cover and a safety seat for those who have difficulty entering the pool using the steps.

Back to Now

Heotis, who is a member of "BNL Accelerators," the Lab's masters swim team, emphasizes that the pool serves many purposes. "Most importantly, I consider the pool a vital ingredient for the enhanced health of employees and their families," he says.

Senior Lifeguard Susan Dwyer, agrees. "It not only provides recreation and a healthy atmosphere for the BNL family, it supplies the emergency response group with a location to conduct their required rescue training. And, it's an interesting part of the Lab's recreational history," she said.

For more information on the BNL pool, see www.bnl.gov/bera/recreation/fitness.asp, contact Heotis, Ext. 7461, pheotis@bnl.gov or call the Recreation Office, Ext. 2873. — Jane Koropsak

Getting Along Swimmingly During Healthfest

The pool provides extra enjoyment for participants in Healthfest, the Lab's annual health, fitness and safety celebration.

During Healthfest 2006, Co-Chairs Michael Thorn and Denise DiMeglio of the Human Resources & Occupational Medicine Division organized a fitness open house at the gym and pool, a 400-yard swim, and an 800-yard Biathlon Swim in which the swim results were combined with results of a fitness run. Led by Peter Heotis, the BNL Swim Club helped set up and run the two events, while Susan Dwyer and Denise Jennings served as life guards and, with Pat Rogers, also volunteered to help time and count laps.

Thirty-three swimmers — male and female employees and retirees of ages ranging from 29 to 78 — completed the 400-yard swim. For the women, Beth Mulligan had the fastest swim time of 6:45 (minutes:seconds) and Lucy Sukhanovit had the second place time of 11:00. For men, Heotis had the fastest swim of 5:31, with Ian Ballantyne swimming an easy 5:37. Ballantyne had the best time, 11:50, for the 800-yard Biathlon swim, in which 16 participants completed the swim. Beth Mulligan also had the fastest 800-yard swim for the ladies: 13:53; with Kathy Tuohy in second: 17:42. Robert Todd swam over two minutes faster than his previous 800 time.



D10891006

BNL employees and retirees enjoying the pool



D1020503

Pool showing new temperature-control cover



R.J. Walton 8-93-47

In the "new" Lab newspaper of September 1947, Isotopics, Volume 1, No. 3, a photo appeared of BNL employees' children who were having swimming lessons at the on-site pool. The caption read:

FUTURE SWIM CHAMPS: Edward Davidson, Edmond Goldsmith, Leslie Nims, Deborah Hamermesh, Hartland Snyder, Daniel Hamermesh, Jenny Scott, Paul Primakoff, Nina Primakoff, and Arthur Snyder line up for Instructor Marjorie Jamieson. William Scott, extreme left, anxiously watches his daughter while M. Hamermesh, rear, endeavors to prevent his daughter from a premature plunge.

Modern-day children of BNLers at a Lab summer camp. (See notice about applying for this year's camp, page 3.)



Joseph Rubino D0940706

In Memoriam

***Kaye Sneed**, who joined the Plant Engineering Division as a custodian on 1976, and retired from the Supply & Materiel Division as an assistant storeskeeper on February 15, 1990, died on May 21, 2006. She was 63.

Elizabeth Hicks, who joined the National Synchrotron Light Source Department as an assistant systems specialist on May 7, 1990, and left as an applications engineer on July 15, 2005, died on June 12, 2006. She was 41.

Rudolph Funn, who came to the Plant Engineering Division as a Lab custodian on December 27, 1955, died at age 81 on July 30, 2006. He became a driver in 1964 and retired as a Staff Services Division chauffeur on December 27, 1991.

Charles Thiessen, who joined BNL as a Cosmotron operator on October 21, 1957, and retired on June 30, 1971, as a senior designer in the Alternating Gradient Synchrotron Department, died at 85 on August 23, 2006.

George Capetan, who became a design engineer I in the Plant Engineering Division on April 5, 1993, and retired from the Collider-Accelerator Department on March 31, 2001, died at age 80 on August 27, 2006.

Adam Paskiewicz, who became Police Chief at the Lab on July 7, 1947, and retired from the Safeguards & Security Division on August 31, 1975, died on September 8, 2006. He was 89.

William Marcuse, who joined the Department of Applied Science as a senior scientist on September 1, 1969, and retired on September 30, 1993, died at age 82 on October 4, 2006. He had remained at the Lab as a guest scientist from October 1993 until October 1997.

Richard Satter, who became a heavy equipment mechanical operator in the Plant Engineering Division on July 24, 1978, died at age 68 on October 7, 2006. He had retired from Plant Engineering on January 18, 1997.

Thomas Snowden, who took a job at the Lab as a stationary engineer, senior, on May 23, 1977, and retired from the Plant Engineering Division on December 8, 1987, died on October 24, 2006. He was 84.

William Bone, who, on July 17, 1978, joined the Central Shops Division to be an experimental machinist, retiring on September 29, 2000, as a tool and instrument maker group leader, died on October 27, 2006. He was 67.

Anthony Ievolella, who became a tool and instrument maker in the Central Shops Division on July 28, 1980, retiring from the Lab on July 28, 1995, died at age 77 on October 31, 2006.

Frank Rumpf, who joined BNL as a technical associate II on August 22, 1949, and retired from the Physics Department on July 31, 1987, died on December 18, 2006. He was 81.

Note: The Bulletin greatly regrets that due to an error printed in the Bulletin of March 9, 2007, Kaye Sneed was referred to as "He." The correction is made in the announcement repeated above.



Photo Op B-N-L 6-0

3/21 at Noon

On Wednesday, March 21, all BNLers — employees, retirees, guests, contractors and on-site residents — are invited to take part at noon in a photo to celebrate the Lab's 60th anniversary.

Come to the field beside Police Headquarters, Bldg. 50, to form a living B-N-L 6-0.

Steinberg Talks on 'Quark-Gluon-Plasma,' 3/30
At the Long Island Science Center, Riverhead

All are welcome to attend a lecture on "Quark-Gluon-Plasma," to be given by Peter Steinberg of BNL's Chemistry Department at the Long Island Science Center in Riverhead, at 7:30 p.m. on Friday, March 30. The talk will be followed by a discussion and refreshments. To reserve tickets, call 208-8000. A \$5 donation is suggested.

Steinberg is a member of one of the experiments at BNL's Relativistic Heavy Ion Collider that investigate quark-gluon-plasma, the mysterious matter believed to have existed in the first moments after the Big Bang at the dawn of the universe. He will discuss his research and his participation in the "Quantum Diaries" for which he wrote a blog closely followed by many at the Lab and beyond. Steinberg has a B.A. in political science from Yale University and a Ph.D. in physics from the Massachusetts Institute of Technology. After two years as a postdoc at Columbia University, he joined BNL in 1999, with a concurrent Fulbright visiting Professorship at the University of Cape Town during the 2002-2003 academic year.

BERA Summer Camp Applications Open

The BERA Summer Camp will run for eight weeks, from Monday, July 2, through Friday, August 24. Campers begin the day at the Recreation Hall, Bldg. 317, at 8 a.m. and must be picked up at the pool no later than 5 p.m. The children must be between the ages of 5 and 14, and be the dependent child of a BNL employee, guest, or facility user. Applications and a deposit of \$100 per week are due by April 13. Payment in full is due by June 1. Make checks payable to BERA and mail to the Recreation Office, Bldg. 400. During the camp, Red Cross Certified Swimming Instructors will offer swim lessons once a week. Swim lessons are included in the BERA Summer Program fee. Daily open swim/gym time will also be available. Application forms are available at the Recreation Office, Bldg. 400, or at www.bnl.gov/bera/recreation/forms.



Joseph Rubino D1890706

BAC Member Needed

A representative of the Lab's diverse workforce is needed to become members of the Brookhaven Advocacy Council (BAC). Other members will also be needed later.

If you are a good listener who can maintain confidentiality, remain impartial, base your judgment on fact rather than emotion, are interested in establishing an atmosphere of trust between BNL management and its employees, and are willing to devote time and energy to ensure that everyone enjoys equally the quality of life that BNL offers, consider becoming a BAC member.

BAC is a key component of BNL's system of justice. The members advise and make recommendations to the Lab Director on resolving employee/guest/user concerns or issues that are brought to the BAC's attention. The BAC is charged with the authority to receive and respond to employee/guest/user concerns or issues; analyze and research data; and propose resolutions. Members have access to all pertinent, uncensored information, within BNL's guidelines regarding confidentiality, to assist them in resolving these concerns or issues. Membership responsibility consists of regular participation in the monthly Council meetings for three years. The BAC functions independently of the Human Resources & Occupational Medicine Division, reporting directly to the Lab Director.

If you would like to learn more about being a BAC member, or are interested in being a candidate either now or at a future time, contact Ernie Tucker, tucker@bnl.gov, Ext. 5753; or Amber Aponte, aaponte@bnl.gov, Ext. 3807.

Invitation!
BNL's 60th Anniversary Review, 3/21

On Wednesday, March 21, all are invited to recapture the pulse of the past six decades of BNL history through music, dance, photos, and personal memories of fellow BNLers — all in "BNL's 60th Anniversary Review," which will be held at 4 p.m. in Berkner Hall. Cake and coffee will follow.



Bus To Manhattan, 4/15

The BNL Hospitality Committee has organized a Do as You Please Trip to Manhattan, on Sunday, April 15. Departure will be from the Recreation Hall, Bldg. 317, at 9 a.m., with the drop off point in the Bryant Park area. The bus will leave the city at 6 p.m. To reserve: e-mail Monique de la Beij at mdelabey@optonline.net, or call 399-7656. You may pay on Wednesday, April 11, 10-10.30 a.m. in the Recreation Hall, and Friday, April 13, 10-10.30 a.m. in Berkner Hall. Tickets are: \$10/adult, \$5/children up to 12.

Jazzercise News

A new Jazzercise series will soon start, on Tuesdays and Thursdays, noon - 1 p.m., at the Recreation Hall, Bldg 317. The cost is \$90 for an 8-week session of twice a week, plus you may use the Shirley location.

Tues: 3/20, 3/27, 4/3, 4/10, 4/17, 4/24, 5/1, 5/8.

Thurs: 3/22, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10.

Aqua Aerobics News

An 11-week session of aqua aerobics starts in April, at \$30 for once a week, and \$50 for twice a week. Sessions will be held on Tuesdays and Thursdays, 5:15-6:15 p.m. at the pool, Bldg. 478.

Tues: 4/10, 4/17, 4/24, 5/1, 5/8, 5/15, 5/22, 5/29, 6/5, 6/12, 6/19.

Thurs: 4/12, 4/19, 4/26, 5/3, 5/10, 5/17, 5/24, 5/31, 6/7, 6/14, 6/21.

Arrivals & Departures

— Arrivals —

Kevin Casella Physics

Gary Rider Emergency Svcs.

— Departures —

None

Fidelity Investment
Counseling, 3/29

A Fidelity Investment representative will be available at the Lab on Thursday, March 29, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

BERA Trips

4/15. Ringling Brothers at Madison Square Garden, \$33.

5/6. *Romeo and Juliet*, New York City Ballet, \$69.

Buy tickets at BERA Store, Berkner.

CALENDAR

— THIS WEEKEND —

Friday, 3/16

***Employee Lunchtime Tour**

Noon. Berkner Hall lobby. Meet the group to be taken to BNL's Emergency Operations Center to learn about communications and emergency operations equipment. See page 4.

—WEEK OF 3/19—

Wednesday, 3/21

***BNL-60 All-Employee Photo**

Noon. Field beside Police HQ. All Lab community, retirees too, wanted to form a living B-N-L 6-0, to be photoed and videoed from the tower. Join in! See notice at left.

***BNL 60th Anniversary Review**

4 p.m. Berkner Hall. Six decades of BNL history reviewed through music, dance, photos, personal memories. All are welcome. Cake, coffee to follow. See notice at left.

Thursday, 3/22

Health Talk: Medication & Diabetes

Noon. Berkner Hall, Room B. Edmund M. Hayes, Stony Brook University Medical Center, will talk on "Medication and Diabetes," in a lecture organized by Lab Health Promotion Program Coordinator Michael Thorn. All are welcome. For more information, see www.bnl.gov/HR/OC-CMED/HPP.asp

— WEEK OF 3/26 —

Monday, 3/26

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.

Tuesday, 3/27

Larry Leipuner Symposium

1 p.m. Physics Dept. Large Seminar Room. "Celebrating the Physics of Larry Leipuner (1928-2006)," organized by William Morse, Physics Department. During the event, Michael Schmidt, Yale University, will talk on "Larry Leipuner as a Mentor; and a Tale of Two Lifetimes," at 3:30 p.m. To join a buffet dinner after the talks, contact Morse, Ext. 3859 or morse@bnl.gov.

Wednesday, 3/28

***"Good Lessons From Bad Women"**

Noon. Berkner Hall. In honor of Women's History Month, BWIS & the Diversity Office present a one-woman play, "Good Lessons From Bad Women."

423rd Brookhaven Lecture

4 p.m. Talk by Mei Bai of the Collider-Accelerator Department on "RHIC: the World's First High-Energy, Polarized-Proton Collider." All are welcome to this free lecture. Visitors to the Lab of 16 and over must carry a photo ID.

Saturday, 3/31

Costco Holbrook Opens for BNL

8:30-9:30 a.m. BNLers may enter Costco at Holbrook 1 hour before normal opening time, i.e., before 9:30 a.m., to see Easter and Passover items, and patio/porch furniture, lawn & garden merchandise, more. Free pastries, beverages — and no crowds! Non-members are offered membership at \$54.31, with a \$10 Costco cash card that day. Bring your BNL ID.

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

Classified Advertisements

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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/.

The Deputy Director has exempted the following positions from the freeze:

OPEN RECRUITMENT – Opportunities for Lab employees and outside candidates.

MK4007. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in theoretical, physical or computational chemistry or a related field such as computational or solid-state physics, and a thorough understanding of the theory underlying computational methods, with experience in one or more of the following areas: computational characterization of the geometric and electronic structure of solids, computational elucidation of reaction pathways in gas/surface reactions, theoretical treatment of the thermodynamics and kinetics of gas/surface and solid state reactions through MD and/or Monte Carlo simulations. Also requires expertise in DFT calculations and experience in DFT/MD and/or kinetic Monte Carlo (KMC) simulations. A strong background in both physics and chemistry is a plus, as is the ability to work effectively with experimentalists. Will investigate theoretical and computational aspects of hydrogen storage in complex metal hydrides and will conduct basic theoretical and computational research toward understanding the atomic-scale mechanism by which a 2-4 wt.% doping of Ti in NaAlH₄ renders hydrogen storage reversible under moderate conditions, and applying this understanding to the design of other materials that store a higher weight percent of hydrogen. Under the direction of J. Muckerman, Center for Functional Nanomaterials.

MK4008. SCIENTIST (S-2) - Requires a Ph.D. in chemistry, physics, biophysics, material science or related field and post-doctoral experience. Must have a strong background in single-molecule physical methods and their applications in soft matter or biophysics and demonstrate expertise in one or several of the following fields: advanced confocal imaging, fluorescence correlation spectroscopy, force measurements using laser tweezers, fluorescence resonance energy transfer, combined optical and scanning probes methods, and experience in applying the techniques to study soft matter or biomolecular systems. Should have demonstrated experience in the design and construction of the optical systems, and their integration with *in-situ* experimental environments. Will join an interdisciplinary team working on bio-inspired nanomaterials, soft matter assembly, nano-confinement phenomena, and interactions between hybrid and living systems and will be expected to collaborate with BNL scientists and develop independent research in one of the following areas: biomimetic and hybrid systems, nanofluidics, kinetics of bio-transformation and assembly, nano-plasmonics, solar energy. Under the direction of O. Gang. Center for Functional Nanomaterials.

TM4471. ASSOCIATE PHYSICIST - X-RAY OPTICS THEORY (S-2) - Requires a Ph.D. in physics or a related discipline and at least 5 years' relevant experience. Knowledge of x-ray optics is required. The selected candidate will perform thick lens calculations associated with achieving 1nm spatial resolution in novel x-ray optics for NSLS-II. Candidate will also interact closely with the experimental effort in the building of the optics by supporting the experimental group in the practical application of the theoretical calculations. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. Selected candidate will report to the NSLS-II High Spatial Resolution X-ray Optics Group Leader and may also supervise a Postdoctoral Research Associate in performing R&D work. National Synchrotron Light Source-II.

TM4472. POSTDOCTORAL RESEARCH ASSOCIATE- X-RAY OPTICS THEORY - Requires a Ph.D. in physics or a related discipline. Experience in x-ray optics is highly desirable. Candidate will perform thick lens calculations associated with achieving 1nm spatial resolution in novel

x-ray optics for NSLS-II. Candidate will also interact closely with the experimental effort in the building of the optics by supporting the experimental group in the practical application of the theoretical calculations. Candidate must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. The selected candidate will work under the direction of the X-ray Optics Theory Associate Physicist. National Synchrotron Light Source-II.

TM4473. ASSOCIATE PHYSICIST, DEPOSITION (S-2) – Requires a Ph.D. in physics or a related discipline and 5 years' relevant experience. Experience in thin-film deposition of complex oxides, UHV and thin-film characterization is highly desirable. The candidate's main goal will be to achieve 1nm x-ray optics at NSLS-II. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff and users. The selected candidate will report to the NSLS-II High Spatial Resolution X-ray Optics Group Leader and will lead the effort in growing and characterizing thin-film multi-layers for use in 1nm x-ray optics. Will also design and assemble the equipment needed for thin-film deposition. May supervise a Postdoctoral Research Associate in performing R&D work. National Synchrotron Light Source-II.

TM4474. POSTDOCTORAL RESEARCH ASSOCIATE, DEPOSITION – Requires a Ph.D. in physics or a related discipline. Experience in thin-film deposition is highly desirable. The candidate will work primarily on achieving 1nm x-ray optics at NSLS-II and will assist with growing and characterizing thin-film multi-layers to achieve that goal. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff and users. The selected candidate will work under the direction of the Deposition Associate Physicist. May assist in designing and assembling the equipment needed for thin-film deposition and in growing the films, but will primarily assist with characterizing the films after growth. National Synchrotron Light Source-II.

TM4475. ASSISTANT PHYSICIST, HIGH ENERGY RESOLUTION X-RAY OPTICS (S-1) – Requires a Ph.D. in physics or a related discipline and 2-3 years of relevant post-doctoral experience. Experience in high energy resolution x-ray optics is highly desirable. Selected candidate will work in the group that is focused on achieving .1 meV energy resolution and will specifically assist with examining the issues associated with achieving ultra high energy resolution in the hard x-ray regime. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientist, technical staff, and users. Selected candidate will report to the NSLS-II High Energy Resolution X-ray Optics Group Leader and may also supervise a Postdoctoral Research Associate. National Synchrotron Light Source-II.

TM4476. POSTDOCTORAL RESEARCH ASSOCIATE, X-RAY OPTICS - Requires a Ph.D. in physics or a related discipline. Knowledge or experience in high energy resolution x-ray optics is highly desirable. Candidate will work with research group that is focused on achieving .1 meV energy resolution. The selected candidate will specifically assist with examining the issues associated with achieving ultra high energy resolution in the hard x-ray regime. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. The selected candidate will report to the NSLS-II High Energy Resolution X-Ray Optics Group Leader. National Synchrotron Light Source-II.

TM4477. ASSOCIATE PHYSICIST, NANO-POSITIONING SYSTEMS (S-2) - Requires a Ph.D. in engineering or physics and 5 to 10 years of relevant experience. Experience developing positioning systems, specifically with positioning x-ray components, is required. An engineering emphasis within the candidate's background is preferred, as this position will have a strong engineering component. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientists, technical staff, and users. The selected candidate will report to the High Spatial Resolution Group Leader and will carry out R&D necessary to meet technical challenges associated with developing positioning systems with sub-1nm precision for NSLS-II. National Synchrotron Light Source-II.

NS4369. PROCUREMENT OPERATIONS MANAGER (M-2) - Requires a BA in business administration or in a related field (MBA and/or professional acquisition certification strongly preferred), and a total of 15 years' related experience including extensive management experience in the Federal contracts environment and working within an agency-approved procurement organization. Management and particularly procurement experience within the DOE complex is highly desirable as is experience in a large technical/scientific organization. A detailed knowledge of the Federal Acquisition Regulations (or equivalent in DEAR or

DFAR) is also required. The position is responsible for management of the Laboratory's procurement operations including planning and subcontract administration. Must have a highly successful, demonstrated management track record in procurement organizations, possess exceptional communications and interpersonal relationship management skills and operate with a high degree of customer orientation. Experience with and understanding of automated procurement systems is very desirable. An exceptionally high degree of personal integrity and accountability is a fundamental requirement. Procurement & Property Management Division.

TM4462. OFFICE SERVICES CLERK (CW-1) – Should have knowledge of basic office practices and procedures and skills in operating office machines. Position requires a high school or equivalency diploma and relevant work experience. The selected candidate, working under supervision, will perform routine office tasks such as setting up appointments, processing travel and distributing mail. Some overtime as needed. National Synchrotron Light Source-II.

Motor Vehicles & Supplies

03HYUNDAITIBURON - 6-spd man.transm., sports pkg., fully equipd, excel. cond. 30K mi. \$11,000. Ext. 5149 or 929-0961.

00 FOREST RIVER 275B CHEROKEE - 30' 5th whl trailer, bunks sleeps 8, big slide out, all opts, cover, excel, \$12,000. 929-8294.

98 JEEP SPORT - orig. owner, grt cond., black ext. w/grey cloth seats, s/roof, a/c, elec strtr. 75K mi. 75K mi. \$4,500. 265-1675.

98 DODGE GRD CARAVAN - 6cyl., 4dr, a/c, cd, c/c, p/l, excel., rec. trans. & eng tune up. 170K mi. \$1,800/neg. Patrick, Ext. 4638.

98 TOYOTA CAMRY LE - gd cond, SIRIUS radio.117K h/wy mi. \$4,200/neg. 921-3083.

96 HONDA SHADOW ACE VT1100 - excel. cond., red & wh., lots Honda, Cobra chrome, wdshield. 36K mi. \$4,800/neg. 235-3440.

84 MERCEDES BENZ 300SD - turbo diesel, blk, 4dr., no rust/dents, runs well, gd for veg. oil convrsn. 250K mi. \$2,500/neg. 205-0028.

84 PORSCHE 944 - excel. running cond., prof. maintained, must sell, make offer. 130K mi. \$3,500/neg. Ext. 8611.

Boats & Marine Supplies

21' REGAL 21 FF - M/C sterndrive w/reblt 485M/C F/W cooled eng., trailer, cuddy cabin. \$2,500/neg. 585-0655.

23' SUNRUNNER 230SB - 1984 Mid-cab. cruiser Volvo-Penta pwr, full galley aft-cabin, stdup head, full canv.. \$7,500/neg. 278-2192.

31' SEARAY SUNSPORT - 1994, Tw. Merc gas 454 eng, 340HP, 550hrs, 9'6 beam, a/c, heat, slps 2, stv, frg. \$34,990 neg. 284-3755.

OUTBOARD - Johnson, 100hp, 1986, rblt. Powerhead, 25" shaft, prop & controls incl., runs well. \$950. Ext. 5436 or 369-7809.

Furnishings & Appliances

APPLIANCES - 30" gas stove, over the range m/wave, under counter dishwasher, almond col., \$100 ea. 312-6451.

BEDROOM SUITE - Full bed w/mattress & foundation, dresser w/mirr, nightstnd. mahog., old. \$600. Ext. 5744 or 929-4440.

COUCH, CHAIR - living rm., compt. couch & swvl chr, gd cond. Ask \$250. 278-2192.

DINING RM. SET - oval table w/6 chairs and server, \$350; Curio cabinet, excel. cond. \$275. Robert, Ext. 4867.

FUTON - Lays flat w/full size mattress, excel cond. Light colored wood, picture available. \$250. Ext. 5744 or 929-4440.

HIGH CHAIR - kids, made by Cosco, vg cond., white w/blue pattern, instructions. Ask \$30. Lisa, Ext. 7524.

STOVE - Caloric, self-cleaning electric stove. Photos available - works well, looks great. \$65 firm. Ext. 3392 or 473-7832.

Audio, Video & Computers

COMPUTER STATION - oak, excel. cond. w/pull-out side drawer/shelf, storage cabinet top right. \$75. Mary, Ext. 6344.

GUITAR AMPLIFIER - Peavey Companion, 15 watts, lots built-in effects, batteries or elec pwr, excel. cond. \$90. Ext. 2913.

NINTENDO GAME CUBE - w/3 controllers, memory. \$40; Assorted games , \$5-\$25. excel. cond. Steve, 751-8240.

PIANO - Upright console w/bench. Ask \$950. Robert, Ext. 4867 or 278-2192.

SPEAKER CABINET - Northeast Audio ported bass w/200 watt PAS speaker, good wheels, \$75. Ext. 2897.

Sports, Hobbies & Pets

ENGLISH SADDLE - Size 17.5; Excel condition; 2nd owner; \$300. Mary, Ext. 6344.

HOME GYM - Weider 9635 home gym w/3 workout stations, \$75. Ext. 2897.

X-BOX 360/W EXT HARD DRIVE - Incl. 3 games: Call of Duty, Burnout, Hitman. Work nights, call after 6 PM. 929-5945.

Tools, House & Garden

GENERATOR - 2.5KW, 120V, Army surpl., 8hp HD cast ir. eng, runs perf., under 240 hrs op., 6 gal. fuel tank. \$250. Ext. 4201.

Miscellaneous

2003 SALEM CAMPER - slps 8, sat.tv/am/fm/cd, range w/oven, heat/AC, toilet, shwr, mch more. Ask \$13,999. 516-607-7523.

24' TRAVEL TRAILER - 2001 Wilderness LT; frt bdrm, rear bunkbeds, full kit., extras. Ask \$9,900. Ext. 4905 or 406-871-2628.

Employee Lunchtime Tour, Today, 3/16 Looking at BNL's Emergency Operations Center



Roger Stoutenburgh D4421006

On today's employee lunchtime tour — Friday, March 16 — participants will look at BNL's state-of-the-art Emergency Operations Center, where John Searing, Site Emergency Manager, will explain the newest communications and emergency operations equipment. Meet at the upper lobby of Berkner Hall at noon. No reservations are necessary.

Dance Social — 'Swingin' Into Spring,' 4/27

Bill Wilkinson & the Long Island Sound Orchestra will perform during a dance social celebrating BNL's 60th anniversary, in the Brookhaven Center North Ballroom, on Friday, April 27, 8-11 p.m., with dance music by a Digital-DJ until midnight. The event is sponsored by the BERA Social & Cultural Club and is open to the public. All visitors of age 16 and over must bring a photo ID.

Tickets include a cold hero buffet, cookies, and refreshments, and cost \$25 each in advance, or \$35 at the door. Buy tickets at the BERA Store. Contact Rudy Alforque, Ext. 4733, for more information.

CHRISTMAS ORNAMENTS - glass tree decorations, abt 60, varied colors, sizes, \$1 each, or all for \$25. Diane, Ext. 2347.

DELUXE TRAIN TABLE - w/storage drawers. Trains and track. Brio compatible. \$50. Steven, Ext. 4719.

HORSE STALLS - avail., full board Arena, turn outs, trails, priv. barn, feed 4 times daily, plenty of TLC, Ridge. 924-0002.

HOT TUB - Down East Hot Tub, sits 8, excel. shape, needs new cover. Ask \$1,799. Chris, 516-607-7523.

METS TICKETS - Tues. & Fri. games avail., LOGE Sec 5, Row G, 2 seats, face value. Rod, 751-7023.

PIANO/CANOES - Winter&Co console piano w/bench - \$400 obo; 2 Old Town Discovery 158 canoes \$400 ea obo. 717-343-8614.

Community Involvement

ANNUAL FUNDRAISER - Donations for M.I. Soup Kitchen; send checks payable to "Thee Island INN" to B. Royce, Bldg 460. Ext. 2098.

Happenings

BERA TRIPS - 4/15. Ringling Brothers at Madison Sq. Gdn, \$33; 5/6. Romeo & Juliet, NYC Ballet, \$69. BERA Store, Berkner.

SOUND SYMPHONY CONCERT - Sat., 3/31, William Floyd HS, 8 p.m.; Shostakovich, Copland, Prokofiev; \$10, under 12 free. Ext. 5056.

Free

50 LBS TEST FISHING LINE - almst new, mistakenly bought. Free to pers. who can use it. 50lbs test, 200+ yards. Ext. 7139.

Wanted

KNICKS TICKETS - 2 tickets for the 3/20 BERA trip. Nicole, Ext. 5098.

SOCCER GOALIE - The BERA Soccer Club SMSL team needs new goalie, 18 yrs or older, play Sundays 5 p.m. Rick, Ext. 5886.

On-Site Services

ENTERPRISE RENT-A-CAR - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see www.enterprise.com.

ON-SITE SERVICE STATION - All vehicle services, NYS inspections, new batteries, tires, timing belts, repairs, etc., done while you are at work. Ext. 4034.

NAYYARSONS DINING AT BROOKHAVEN CENTER - full menu dinners 5-8 p.m.; specials 5-6:30 p.m.: 3-course, wine/soda, coffee, \$10.95 or \$9.95 (no take out); Weds. rib-eye steak, veg., Bud. \$11.95, all plus tax.

Lost & Found

FOUND: BLACK EARMUFFS - outside Berkner Hall on Thurs, 3/8. Maria, Ext. 5483.

FOUND: EARPHONE - near Berkner Hall. Tom, Ext. 7448.

LOST CELL PHONE - T-Mobile cell phone, blue, lost on the Lab site on 3/7. Please call if found. Rajeshwar, Ext. 2058.

LOST: IPOD - white ipod shuffle, Sat 3/3. "...portable radio" song lyrics engraved. Possibly in/nr gym. Lindsey, Ext. 2728.

For Rent

CENTER MORICHES - apt., 2 lg. rms, full bath/kit, pvt. ent. & prkg., gar., nr stores/town, quiet area, heat incl., 1 mo sec req'd. \$775/mo. 375-7264.

CENTER MORICHES - 4 bdrm. wtr-frt. house, dock on creek, 2 bath, eik, d/r, w/d, f/p, yr. round. \$1,995/mo. 261-7908.

CENTEREACH - 1 bdrm., l/r, eik, full bath, own Th/stat, a/c, cable, utilities, Internet incl., no pets/smkg., 20 min to BNL. \$950/mo. 696-1581.

EAST PATCHOGUE - 1-bdrm. apt. walk to water, l/r, kit, bath, heat/water incl., pvt. ent., 1 mo. sec. \$950/mo. 484-2990.

FARMINGVILLE - 1 bdrm, 15 min. to Lab, lvg/kit combo, lg. bdrm., all util. plus cac and cable/l/net, no smkg./pets, 1 mo. sec. \$825/mo. Tom, Ext. 4866 or 974-0770.

NORTH CORAM - 1-bdrm apt., priv. ent., no smkg./pets. \$850/mo. includes all utilities. & cable. Call after 6 p.m. 473-4001.

PATCHOGUE VILLAGE - 2-bdrm. apt., new kit., new bath, 12x12, l/r, lots closets, walk to LIRR, village, reserved off-street pkg, no smkg. \$1,400/mo./neg. 289-9233.

ROCKY POINT - 1-bdrm. bsmt. apt., pvt. ent., laundry, kitch/ette, pets ok, off-st. prkg., temp ok, prt furn. \$800/mo. 398-8024.

S. HAUPPAGUE - 1 bdrm., furn/un., w-w carpet, eik, full bath, l/r, pvt ent/yard w/deck, incl. all: cable, Opt on line, heat, elect., prefer single. \$975/mo. Ext. 7105.

SHIRLEY - 2-bdrm. apt., v. close to BNL, heat, utilities, cable, a/c, inetnet incl., v. quiet, no pets/smkg., avail. from mid Sept. \$1,100/mo./neg. Tom, Ext. 7448.

WADING RIVER - clean, bright, spacious 1-bdrm. apt., walk to beach & park, no smkg./pets, all util. incl. \$975/mo. 988-7008.

WADING RIVER - new studio, l/r, full kit, lots storage, pvt. d/way, pvt. ent., pvt. patio w/ f/p & BBQ, 10 min. to BNL, 1 mile to beach, utilities incl. \$800/mo. Ext. 2553.

LENOX, MA - t/share unit, 11/17-11/24 2 bdrm., 2 bath., max. 6 people. \$900/wk. 909-1498.

For Sale

BROOKHAVEN - 4 bdrm., 2 bath cape, cac, full bsmt., new kitch. & baths, 2 car gar.,organic gardens, next to wooded preserve. \$449,000 286-2505.

E. PATCHOGUE - center hall cedar Colonial, 4 bdrm., l/r, d/r, eik, den w/fpl, bsmt., cac, htd pool, 2-car gar, shy 1 acre, walk to beach & golf. \$579,000 Al, 286-3615.

HALCOTTSVILLE - Log home, 1,750 sq. ft., 5+ acs, 3 bdrm, 2 bath, cath. ceilg, prpne heat/wood stove, hge deck, 15 min. to 2 ski rsrts. \$439,000 878-4159.

MIDDLE ISLAND - 5 bdrm., 3.5 bath, f/p, l/r, eik, formal d/r, laundry, hd. wd. flrs., 2-car gar, igp. \$478,000/neg. Elvin F Cabrera, 917-848-3071.

PATCHOGUE - 1 bdrm. condo in Waters Edge, redone hi-hat lites, lg. closets, pool/club hse/ avail. now. \$138,000, 286-3615.

SHIRLEY - 3-5 bdrm. mthr/dghtr (apt/w/kit), 2-car gar., bsmt., 2.5 bath, d/r, l/r, fenced yd, screen rm, 2 min. to beach, new roof, 10 min. to Lab. \$329,000/neg. 786-6106.

SHOREHAM - 4-bdrm. Colonial, 2-1/2 bath, l/r, formal d/r, fin. bsmt., igs, 2-car gar. \$589,000/neg. Don, 631-821-3320.

KISSIMMEE, FL - deeded t/share at any Westgate Resorts loc., 2 bdrm., sleeps 8-10, mster bdrm. w/whirl/pool, w/dry, kit., d/r, l/r, pool, balc. \$11,500/neg. 375-7959.

WESTMINSTER, CO - condo, 2-bdrm., a/c, f/p, all appl., freshly painted, cath. ceilings, gar., pool, tennis courts, mntn-view, ideal vacation home. \$114,900/neg. Ext. 2347.