

BNL's U.S. ATLAS Collaboration Celebrates End of Construction Phase

Congratulations on a fine achievement were the order of the day on September 12, when a group of BNL's U.S. ATLAS team members and others gathered to celebrate the successful achievement of Critical Decision 4A (CD-4A) for their work on the ATLAS detector. This milestone signals that, after almost 12 years of extraordinary research and development, construction, and testing, two critical components of the detector for the muon spectrometer are more than 97 percent complete. The remaining less-than-three percent will be accomplished at the time the entire detector is commissioned.

These detector components — the liquid argon calorimeter and the cathode strip chambers — were designed, prototyped, fabricated, and installed through the cooperative efforts of more than about 100 physicists, engineers, technicians, and administrative staff from BNL. The U.S. effort was funded by the Office of High Energy Physics in DOE's Office of Science and the National Science Foundation. The August 24, 2005 review by Dan Lehman, Director of the Office of Project Assessment within the Office of Science, which concluded with the necessary CD-4A, was achieved within budget.

ATLAS (A Toroidal LHC Apparatus), is a detector the size of a seven-story building, located close to Geneva, Switzerland, as one of four facilities at a powerful accelerator — the Large Had-



Among members of BNL's U.S. ATLAS Collaboration gathered to celebrate the completed construction phase are: (from left) Bill Willis of BNL and Columbia University, who is being honored by a plaque recognizing his leadership as Project Manager; Samuel Aronson, Thomas Kirk, Howard Gordon, David Lissauer, and Penka Novakova, all of BNL; Mike Tuts, BNL and Columbia; and Veljko Radeka, BNL.

ron Collider (LHC), which is now nearing commissioning. ATLAS is designed to detect particles created by collisions of protons. One of its main goals is to look for a particle dubbed Higgs, which may be the source of mass for all matter. Findings may also offer insight into new physics theories, as well as a better understanding of the origin of the universe.

In total, 150 laboratories and universities around the world are involved in developing and testing parts of ATLAS. BNL is the headquarters for the 34 U.S. institutions contributing to the project.

Given the extraordinary contributions of the entire BNL-ATLAS team, said Samuel Aronson, Associate Laboratory Director for High Energy & Nuclear Physics, it was hard to single out anyone deserving of the highest recognition. However, all subscribed to the decision to award Bill Willis of the Physics Department and

(continued on page 2)

Chaudhuri, Muckerman Identify Titanium's Role in Hydrogen Storage

As part of ongoing research on making hydrogen a mainstream source of clean, renewable energy, BNL scientists have determined how titanium atoms help hydrogen atoms attach to an aluminum surface. Funded by the Office of Basic Energy Sciences within the DOE's Office of Science, the study isolates the role of titanium, which is used as a catalyst in the crucial first step to trap hydrogen within a particular class of hydrogen-storage materials. The work may also help identify and develop similar hydrogen-storage systems.

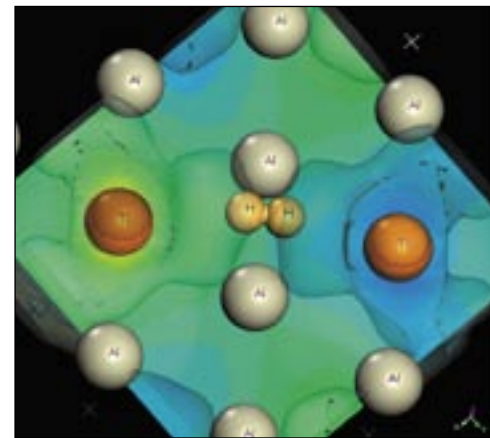
Santanu Chaudhuri of the Chemistry Department presented this research at the 230th national meeting of the American Chemical Society in Washington, D.C. on September 1.

To be a mainstream source of fuel, hydrogen must be stored safely and efficiently. Conventional high-pressure storage tanks can be dangerous and are too big and heavy for certain applications, such as hydrogen-based fuel cells in automobiles. Hydrogen-storage materials, however, incorporate hydrogen safely and compactly, and temporarily hold large quantities that can be recovered easily under safe, controlled conditions.

"A hydrogen-storage material must be able to store hydrogen quickly under 'normal' conditions — that is, without

very high temperatures and pressures," said Chaudhuri. "In tiny amounts, an appropriate catalyst, such as titanium, can speed up the reaction and make the hydrogen-storage process suitable for practical applications. Our study has helped us better understand the role of these catalysts."

Through this research, Chaudhuri and his collaborator, James Muckerman (continued on page 2)



The arrangement of titanium (Ti) atoms on or near the aluminum (Al) surface determines the way molecular hydrogen (H₂) is chemically absorbed. The picture shows a top-view of the surface in the initial stages of hydrogen adduct formation on one of the possible titanium-aluminum arrangements.

Safety Record Celebration, 10/4

The entire Laboratory community is invited to take part in a coffee-and-cookies celebration marking the recent record of 142 days without a lost-time injury. The Employee Safety Record Celebration will be held next Tuesday, October 4, at 12:30 p.m. in Berkner Hall lobby, and will include refreshments and remarks by BNL Director Praveen Chaudhuri, Assistant Laboratory Director for Environment, Safety, Health & Quality Jim Tarpinian, and others. The celebration is part of Safety Day, which kicks off Healthfest 2005, and features demonstrations, informational displays, and games focused on home and work safety, to be held from 11 a.m. to 2 p.m. in Berkner Hall lobby.

BNL, DOE, Community Celebrate Peconic River Cleanup

Photos by Roger Stoutenburgh

On Thursday, September 22, DOE, BNL, elected officials, regulatory agency representatives, and community members celebrated an important milestone in the Lab's environmental cleanup: the completion of the Peconic River project. The event, held at the historic Peconic Sportsman's Club on the banks of the river, followed nearly a decade of sampling, analysis, planning, presentations, and, finally, excavation of sediments from 19 acres of the riverbed on and off the Lab site. The re-planting of native vegetation along the riverbanks this past May signaled the end of a project that brought together community and government in a free, open, and ultimately successful exchange of information and viewpoints.

— Peter Genzer



Suffolk County Executive Steve Levy (left) and Jean Mannhaupt, Community Advisory Council member and administrator of the U.S. Environmental Protection Agency's technical advisory grant for independent technical review of BNL cleanup projects



Above: Some of the more than 200 banded sunfish, a N.Y. State threatened species, that were removed from the Peconic River prior to the start of the cleanup project and are now being returned to the river.

Left: Chart Guthrie, N.Y.S. Department of Environmental Conservation (left), and Tim Green, BNL, release several banded sunfish into the Peconic River on the BNL site.

Below: Suffolk County Executive Steve Levy addresses the audience at the Peconic Sportsman's Club. Levy characterized the Peconic project as a "shining example of what can happen" when government and community work together.



(From left) BNL Director Praveen Chaudhuri, Suffolk County Legislator Angie Carpenter, Suffolk County Executive Steve Levy, Suffolk County Legislator Mike Carraciolo, and DOE-Brookhaven Area Office Deputy Manager Frank Crescenzo stand along the banks of the Peconic.



CALENDAR
OF LABORATORY EVENTS

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 33470 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 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

- Weekdays: Free English for Speakers Of Other Languages Classes**
Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.
- Mondays & Thursdays: Kickboxing**
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.
- Mon., Wed., & Fri.: Tai Chi**
Noon-1 p.m., Brookhaven Center North Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.
- Tues. & Thurs: Aerobics**
5:15-6:30 p.m., Rec. Hall. 10 classes for \$40, or \$5 per class, pay as you go. Pat Flood, Ext. 7866.
- Tues. & Thurs: Aqua Aerobics**
5:15-6:15 p.m. \$20 to attend once a week, \$40 to attend twice a week. For more information, call Ext. 2873.
- Tues. & Thurs: Jazzercise**
Noon-1 p.m., Rec. Hall. Preregistration is required. Newcomers can get a free try-out. Christine, Ext. 5090.
- Tue., Thu. & Fri: Upton Nursery School**
8:30 a.m.-noon, Rec. Hall. 2- and 3-day programs available. Kati, 821-4131.
- Tuesdays: Welcome Coffee**
10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Meet in the gazebo in the apartment area. Lisa Yang, 979-3937.
- Tuesdays: BNL Music Club**
Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.
- Tuesdays: Jiu Jitsu Club**
6:30-7:30 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.
- Tuesdays: Toastmasters**
1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toast-mstrs/default.htm.
- Tues., Wed. & Thurs: Rec Hall Activities**
5:30-9:30 p.m. General activities, large-screen TV, ping pong, chess, games, and socializing. Christine Carter, Ext. 5090.
- Wednesdays: On-Site Play Group**
10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Meet in the apartment area playgroup. Fang Dong, 871-5362.
- Wednesdays: Weight Watchers**
Noon-1 p.m. Michael Thorn, Ext. 8612.
- Wednesdays: Yoga**
Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.
- Wednesdays: Ballroom Dance Class**
\$30/person/6-week series. Brookhaven Center, North Ballroom. Beginner merengue at 6 p.m., advanced foxtrot at 7 p.m. Instructor Giny Rae. Call John Millener, Ext. 3853; or Madeline Windsor, Ext. 5069.
- Thursdays: Reiki Healing Class**
Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.
- Fridays: Family Swim Night**
5-8 p.m. at the BNL Pool. \$5 per family.
- Fridays: BNL Social & Cultural Club**
6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.
- Fridays: BNL Social & Cultural Club**
6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

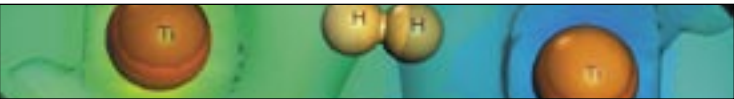
e-Performance Debuts in October

Beginning next week, supervisors and managers will begin completing FY05 performance appraisals in a new on-line PeopleSoft module. The introduction of this new system is an integral step in BNL's commitment to improving our performance appraisal management process.

The appraisal form content and rating structure remains the same as last year, but the system for entry, review and approval is now web-accessible and includes features such as on-line notification, status reports, and departmental line management approval. Supervisors interested in training on the PeopleSoft system may attend one of the sessions listed on the Staff Development web page, www.bnl.gov/HR/staffdev/PA_training.htm. Once finalized, appraisals will be printed and discussed with employees through individual meetings held with their supervisors.

The Lab is continuing last year's increased emphasis on rigorous and consistent standards in assigning performance levels. Employees should expect to receive an e-mail from their supervisor inviting their input into their appraisal in early October. Employees should also expect to meet with their supervisor to discuss the appraisal during the month of November.

Titanium's Role in Hydrogen Storage (cont'd)



also of Chemistry, hope to improve the performance of sodium alanate, a hydrogen-storage material composed of sodium and aluminum hydride. Sodium alanate, known as a "complex metal hydride," expels hydrogen gas (the fuel) and aluminum when heated, leaving a mixture of sodium hydride and metallic aluminum. But because neither aluminum nor sodium hydride absorb hydrogen well, putting the hydrogen back in — to reform sodium alanate and allow reuse of the material — becomes difficult.

"We found that aluminum absorbs significantly more hydrogen — and does so more quickly and at lower temperatures — when a small number of titanium atoms are incorporated into its surface," Chaudhuri said.

Chaudhuri and Muckerman created a computer model that provides a plausible mechanism for the reaction. Their model

agrees with an experimental x-ray absorption study of sodium alanate, performed at beam line X19A at BNL's National Synchrotron Light Source.

Chaudhuri and Muckerman's collaborators, Jason Graetz and Jim Reilly from the Energy Sciences & Technology Department, used x-rays to "see" and thus calculate how the titanium atoms subtly changed the atomic-level structure of the aluminum, resulting in a more hydrogen-absorbent surface. Results from these two studies agree on the role of titanium atoms on an aluminum surface and mechanisms of subsequent steps in hydrogen capture.

In the future, Chaudhuri and Muckerman's group plans to study the subsequent steps in the sodium alanate hydrogen-storage process, in which aluminum and hydrogen react with sodium hydride to reform the starting material.

— Laura Mgrdichian

BREA Seeks Nominees for Officers

The Brookhaven Retired Employees Association (BREA) is seeking nominees to serve as officers for the 2005 – 2006 year. Current officeholders are: Treasurer, Barney McAlary; Secretary, Alyce Daly; Vice President, Lew Jacobson; and President, Joyce Tichler.

Any member may apply to the nominating committee to be on the slate, and any member may nominate someone. A brief biography should accompany each nomination, as well as an agreement to serve. Nominees should be members in good standing.

Send nominations to the BREA office, Building 475C. Questions can be addressed to the telephone answering machine at 631-344-2707, and every effort will be made to supply a timely response.



Pine Barrens Research Forum
"Pining for the Forest of Old"
Thursday, October 6
Berkner Hall
8:30 a.m. - 4:30 p.m.

All are invited to this free event, which is sponsored by: the Central Pine Barrens Commission, BNL, the Long Island Groundwater Institute at Stony Brook, and the Foundation for Ecological Research in the Northeast.

The agenda will include a welcome from Lab Director Praveen Chaudhari and Peter Scully, Central Pine Barrens Commission Chair & Governor's Representative, then talks on: "Parks Twinning White Paper," "Central Pine Barrens Forest Health Monitoring," a poster session, "Plant Invasion in the Pine Barrens: Why isn't it worse?" "Recovery after the Fire," "Recovery of Pitch Pine Population: Ten years after the Fire," "The Relationship of Soil and Water Chemistry of Select Wetland Habitats in the Long Island Pine Barrens," and "The Central Pine Barrens Fire Atlas."



End of ATLAS Construction Phase (cont'd)

Columbia University, the U.S. ATLAS Project Manager, with a plaque commemorating his unique leadership. The plaque cited Willis for "his creative leadership insight and management of the U.S. ATLAS Construction Project from its conception in 1993 to its successful conclusion leading to critical decision CD-4A on September 30th 2005."



ATLAS (A Toroidal LHC ApparatuS), is a detector the size of a seven-story building, located close to Geneva, Switzerland.

Others recognized for extraordinary contributions included Thomas Kirk, Special Assistant to the Director; Howard Gordon, the Deputy U.S. ATLAS Project Manager and Deputy U.S. ATLAS Research Program Manager; and, at BNL, David Lissauer and Mike Tuts, the U.S. ATLAS Research Program Manager, of Columbia and BNL. Another essential contributor was Veljko Radeka, Head of the Instrumentation Division, who, with Kirk and Willis, went to CERN in 1993 to propose the U.S. participation in the LHC and who, with his division, has been involved in the U.S. ATLAS effort from its first days.

Said Gordon, "This project has been a tremendous experience for all of us. The collaborative efforts of everyone involved show that this was, in fact, a true Lab effort — including BNL staff from Physics and, at various times, the Budget Office, Central Fabrication Services, the Director's Office, Fiscal, Plant Engineering, Media & Communications, Procurement & Property Management, Staff Services. All have been essential in getting us to the final stretch of the very successful construction phase. Now, we will concentrate on the research, getting fully prepared for gathering data soon after the LHC is commissioned in 2007." — Liz Seubert

Healthfest 2005
October Is Healthfest
BNL's Month-Long Celebration Of Health, Fitness, Safety

During this year's Healthfest, BNLers are encouraged to take responsibility for personal health, fitness, and safety. To do so, BNLers are welcome to take part in Healthfest raffles, health screenings, safety demonstrations, fitness events, and the "Health, Fitness & Safety Fair." For more information, contact Healthfest 2005 Co-chairs Denise DiMeglio, Ext. 2881; or Michael Thorn, Ext. 8612.

— Next Week's Healthfest Events —

- Safety Day** Tuesday, 10/4 • 11a.m. – 2 p.m.
Berkner Hall, Bldg. 488. See demonstrations of: the proper use of fire extinguishers, a vehicle rollover, a mock smoke situation, home and office ergonomics, ladder and power tool safety, bicycle safety – and more. Get your "This Is Why I Work Safely" badge by bringing a photo to be cropped to 1.5" by 1.5") of someone or something that will serve as a reminder to work safely. New this year is the Integrated Safety Management "Wheel of Fortune" game, during which you can spin the wheel and attempt to answer questions correctly to receive prizes.
- Health Screening Day** Wednesday, 10/5 • 11 a.m. - 2 p.m.
Berkner Hall, Bldg.488. Blood pressure, cholesterol and diabetes screenings will be available, first-come, first-served.
- Fitness Walk** Thursday, 10/6 • 12 noon – 1 p.m.
A 2-mile walk with your co-workers at your own pace, starting across the street from the Science Education Center, Bldg 438, and going to the Upton Forecast Office of the National Weather Service and back. Participants will receive a 2005 Healthfest T-shirt (supplies are limited).

Mentors Wanted for Little Flower School

Children from the Little Flower School would benefit from mentoring relationships with BNL employees or retirees. If you are interested in learning more about this possibility, contact Terrence Buck, Human Resources & Occupational Medicine Division, Ext. 8715 or tbuck@bnl.gov.

Information Session, 10/6
BNL's Payroll-Deducted Savings Bonds

Representatives from National Bond & Trust Company will be at BNL on Thursday, October 6, 9 a.m.-1:30 p.m., in Berkner Hall, to answer questions and assist employees in enrolling in the payroll-deducted savings bond option. For more information, contact the National Bond & Trust Office at 516-797-6970, www.mbtco.com.

Radio City Holiday Spectacular, 12/11

BERA invites all BNLers for a bus trip to the Radio City Music Hall Holiday Spectacular on Sunday, December 11, 2005. Tickets, which are \$84 per person and can be purchased from the BERA Sales Office in Berkner Hall, include first mezzanine seats, 300 section, for a noon show, round-trip luxury bus transportation that will leave the Brookhaven Center at 9 a.m. and leave New York City at 6 p.m., and free time in the Rockefeller Center area to shop, browse, or dine.



BSA Noon Recital
Cello-Guitar Duo, 10/19

Cellist Michael Jones and guitarist Agustin Maruri will perform together in a concert to be held on Wednesday, October 19, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the company that manages Brookhaven Lab, the concert is free and open to the public. All visitors to the Lab age 16 and older must bring a photo ID.

Formed in Madrid in 1990, the Jones/Maruri Duo has given concerts around the world. In the U.S., they have performed at Lincoln Center and the Metropolitan Museum as well as other prestigious venues across the nation. The two artists explore a novel repertoire rich in music from the Spanish tradition. Their CD, "Original Music for Cello and Guitar," was among the top ten most popular recordings in Hong Kong for one year. The duo has recorded three CDs of original music, the most recent one recorded in 2004, called "Don Quijote and Dulcinea."



Guitarist Agustin Maruri (left) and cellist Michael Jones

CPR Training Offered for Employees
Respond to Heart Attack, Stroke, Cardiac Arrest, Choking

Cardio-pulmonary resuscitation (CPR) is required for some jobs on site. However, CPR training is also available to all employees at no charge.

The training covers the basic techniques of adult CPR, including the use of an automated external defibrillator — such as the defibrillators located around the BNL site and in other public places such as schools. In addition, trainees will learn the signs and actions to take for four major emergencies: heart attack, stroke, cardiac arrest, and choking. Priority for registration is given to employees who require this training for their jobs, but open slots are routinely available for other employees who want to attend. To register or see course schedule information, go to <http://training.bnl.gov/>, or write to training@bnl.gov. Check with your supervisor first for permission to attend as CPR courses are offered during work hours.

First Annual Block Party, 10/2

BNL's first annual block party will be held on Sunday, October 2, from noon to 4 p.m. at the gazebo in the apartment area. All are invited. If there is bad weather, then the event will be moved indoors to the Recreation Hall. Food, music, dancing, children's games and a "bouncy house" will be provided. Attendees are asked to bring a dessert to share. For more information, contact Jennifer Lynch, Ext. 4894; or Christine Carter, Ext. 5090.

Halloween Costumes
Wanted

The BNL Quality of Life/ BERA/Recreation Office is collecting Halloween costumes that are clean/gently used for underprivileged children in the local area. Please drop off your costumes to Christine Carter or Joanne Rula, Bldg. 179B.

Arrivals & Departures

Arrivals	None
Departures	
Gloria Ganci	Medical
Stephane Grenier	Physics
Paul Simons	PPM

On-Site Service Station
Tip of the Month

New York State inspections, oil changes, checks and replacements on batteries, brakes, and tires, and much more can all be done at the on-site service station, Upton Industries, Inc., while you are at your desk. For this convenient service, call Ext. 4034.

October is Hispanic Heritage Month
And to celebrate...


...FLIK Food Service will serve a Hispanic dish every Wednesday in the cafeteria in Berkner Hall.

...Dr. Richard Terga, a missionary priest of Spanish American descent, will present "Spanish Settlement in Puerto Rico From the 16th Century to the 18th Century," a BERA Hispanic Heritage Club-sponsored lecture on the population of Puerto Rico from 1508-1724 on Wednesday, October 5, in Berkner Hall, Room C. Terga belongs to a Catholic Missionary Order and has been a missionary in Guatemala for more than 20 years. He has worked with the Mayan Indians, learned to speak the Mayan native language "Poqonchi," has written nine books on the history of the different regions of Guatemala, and is preparing his eleventh book on the people of Puerto Rico from 1508-1724.

...Yvette Malavet-Blum, Director's Office, will perform two free Latin cabaret shows "Latin Rhythms," sponsored by the Suffolk County libraries. Catch the first show at 2 p.m. on Sunday, October 2, at the Brentwood Library and the second show at 2 p.m. on Sunday, October 9, at the Bellport Library. For more information and directions to the libraries, go to www.yvettemalavet.com. Latin Dance, October 14, 2005.

...There will be a Latin Dance on Friday, October 14, from 7 p.m. to midnight at the Brookhaven Center. The evening will start with free dance instruction from 7 to 7:45 p.m., and continue with general dancing to music by DJ Alex. At 9 p.m., guest dancers will perform salsa, merengue, and tango. Tickets cost \$12 if purchased in advance at the BERA Sales Office in Berkner Hall and \$15 at the door and include a cold buffet, dessert, coffee, and a cash bar. This event, which is sponsored by the BERA Hispanic Heritage Club and the BERA Social & Cultural Club with support from the BNL Diversity Office, is open to the public. Visitors to the Lab age 16 and over must carry a photo I.D.

Help Support Multiple Sclerosis Society
Join Bike Tour of New York City, 10/16

Volunteers are invited to join a team from BNL planning to participate in a bike tour for the Multiple Sclerosis Society of New York, with rides of 30, 45, 60, and 100 miles in and around Manhattan and New Jersey, to be held on Sunday, October 16. The Asymptotic Freedom Riders of BNL have been participating in this event for several years and are welcoming more people. Team T-shirts and support will be provided by the BNL VIP committee. Other volunteerism contributions for the event are also welcome. Contact: Ofer Rind, rind@bnl.gov, Ext. 6299.

Note: For information on the BNL Volunteers in Partnership program and its support of BNL employees' volunteer efforts, contact Barbara Blenn, Ext. 4458 or blenn@bnl.gov.

Next Camping Club Meeting, 10/10

The next Camping Club meeting will be held at the gazebo, at noon on Monday, October 10. Says Tom Seda, Club president, "We will briefly submit Executive Board nominees for the December election, then discuss the October 21-23 Halloween camp out at the gazebo, which is closed and heated for cold-weather camp outs."

Seda explains that the Halloween camp out coincides with the Orionids Meteor Shower. Planned events will include a showing of *The Village* on the big screen at the gazebo, bobbing for donuts for children and adults, a slow bike race, hot cider, a 'bring-a-dish' potluck supper, trick or treating at the rigs, 50/50 raffle, best costume prize, and an afternoon outing to pick pumpkins.

All are welcome to come to the October 10 meeting. New members will be offered a 15-month 2005-2006 sign-up special, which includes two Halloween camp outs, two "deep-fried turkey" camp outs, and two holiday parties, all for \$17.

Dance Social, 9/30

On Friday, September 30, hustle into the Ballroom, Latin, Swing, and Hustle Dance Social at the North Ballroom, Brookhaven Center, sponsored by the BERA Social & Cultural Club (SCC), with live music by Louis del Prete and his band "FAME," back by special request. Rudy Alforque will give a complimentary 45-minute dance lesson at 7 p.m.; the band will perform from 8 p.m. to midnight with DJ music in between sets. Admission is \$15 for BERA members, students with ID, and SCC and Swing Dance Long Island members; \$20 for others. The cost includes cold buffet, dessert, and refreshments. Visitors to the Lab age 16 and over must present a picture ID at the main gate. For more information contact Rudy Alforque, Ext. 4733, or rudy@bnl.gov.

Next Cycletrons Club Meeting, 10/6

The Cycletrons' next meeting will be held on Thursday, October 6, at 5 p.m. at the Brookhaven Center. For more information, contact Frank Dusek, Club president, Ext. 2022, or dusek@bnl.gov.



CALENDAR
(continued)

— THIS WEEKEND —

Friday, 9/30

***TGIF @ Brookhaven Dance Social**
7 p.m.-midnight. Brookhaven Center North Ballroom. Sponsored by BERA Social & Cultural Club and Swing Dance Long Island. 7-7:45 p.m., complementary dance lesson by Rudy Alforque. 8 p.m. live music by Louis del Prete and his band "FAME." Admission of \$15 for members, \$20 for guests. Cost includes cold buffet, dessert, refreshments. Rudy Alforque, Ext. 4733 or rudy@bnl.gov.

Saturday, 10/1

October is Hispanic Heritage Month
See notice at left for a list of events that BNL is hosting to commemorate Hispanic heritage. For more information, contact Omar Gould, Ext. 2656, ogould@bnl.gov.

Defensive Driving Course
9 a.m.-3:30 p.m. Berkner Hall, Room B. Open to BNL, BSA, and DOE employees, BNL facility-users, and their families. To register, send \$30 per person, in the form of a check made payable to NYSTA, to: NYSTA, c/o Don Kelley, P.O. Box 185, Selden, NY 11784. Be sure to write the course date on the check and include your phone number in case you need to be contacted.

Sunday, 10/2

***First Annual Block Party**
Noon-4 p.m. Gazebo in apartment area. All are welcome. Food, music, dancing, children's games. Bring a dessert to share. See notice below, left. Jennifer Lynch, 4894, Christine Carter, Ext. 5090.

— WEEK OF 10/3 —

Monday, 10/3

***BNL's Healthfest Month Begins**
See notice on page 2 and the Health Promotion Program's website, www.bnl.gov/hr/occ-med/HPP.asp. Register now for many activities.

Wednesday, 10/5

Sam's Club Demo
11 a.m.-2 p.m., Berkner Hall Lobby. Representatives from Sams Club will present BNLees with discounted membership rates and other special offers on their products and services. For more information, contact Kim Neuss, 447-0253.

Thursday, 10/6

***Cycletrons Motorcycle Club Meeting**
5 p.m., Brookhaven Center. All are welcome. Frank Dusek, Ext. 2022, or dusek@bnl.gov.

— WEEK OF 10/10 —

Tuesday, 10/11

BREA Monthly Business Meeting
Noon-1 p.m., Bldg. 475C, Conference Rm. 107. All are welcome to attend. Graham Campbell, gc@bnl.gov.

Friday, 10/14

***Latin Dance**
7 p.m.-midnight. Brookhaven Center. Celebrate Hispanic Heritage Month at the Latin Dance. See notice at left.

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.

Badminton Ladder Competition Begins, 10/3

With colder weather approaching, the BNL Badminton Club announces the startup of the 2005 indoor singles and doubles ladder competitions, beginning Monday, October 3, and running through April 2006. Two courts are available in the gym on a reserved basis: Monday through Friday at lunchtime, Tuesday evenings and Saturday mornings. Matches are arranged by competitors and played at any mutually agreeable time. Scoresheets, ladder standings, and player rosters are posted on the bulletin board at the northwest corner of the gym. For more information on the ladders' format or court reservations, please contact Jay Adams, Ext. 4994, or jadams@bnl.gov.



Pictured above are YY Chu (left), Chemistry Department, winner of last year's round-robin doubles tournament and Weidong Si, Physics Department, winner of last year's singles tournament.

Roger Stoutenburgh
D0560905

BERA Trips, 10/22; 11/5

Buy tickets for BERA trips at BERA Sales Office, Berkner Hall.

Saturday, October 22

Bear Mountain State Park in the Hudson Valley. Enjoy the Oktoberfest, ice skating, fall foliage, hiking, museums, more. \$10 per person pays for the luxury coach, pay as you go for all attractions. Leave BNL at 9 a.m.; leave Bear Mountain at 4:30 p.m. For more information, see <http://nysparks.state.ny.us/events/info.asp?eventID=1254>.

Saturday, November 5

Peddler's Village-Lahaska, Pennsylvania. Enjoy tax-free shopping in 70 specialty shops featuring gourmet foods, toys, handicrafts, home furnishings, collectibles, leather goods, flowers, and more; see www.peddlersvillage.com/. A free Apple Festival will be held 10 a.m. to 6 p.m., with craftspeople, live entertainment and pie-eating contests. Enjoy apple treats including apple butter, cider, dumplings, and fritters. \$20 per person pays for the luxury coach. Leave BNL at 8 a.m.; leave PA. at 5 p.m.

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 following positions have been exempted from the freeze by the Deputy Director:

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK3824. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in microbiology and/or biochemistry with experience in microbial physiology, enzymology, and molecular biology. Research will involve investigating the molecular mechanisms of uranium reduction and hydrogen generation by anaerobic bacteria. Will be expected to interact closely with molecular biologists and with a multidisciplinary research group engaged in the application of synchrotron radiation (XANES and EXAFS) to the study of metal-microbe interactions. Under the direction of A. J. Francis, Environmental Sciences Department.

MK3236. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics, chemistry or materials science, experience with x-ray scattering and diffraction, including instrumentation for synchrotron-based experiments. Experience with optical microscopy and research experience working with lipids, or liquid crystals and proteins highly desirable. Research will involve the study of self-assembled structures in thin lipid films and self-assembly of biomolecules and nanoparticles at the solid-water interface, especially in substrate-supported lipid bilayers. Under the direction of L. Yang, National Synchrotron Light Source Department.

NS3442. NETWORK ANALYST (I-4, reposting)– Requires a bachelor's degree or equivalent experience, preferably in computer science or related discipline, and a minimum of 1 year of hands-on experience providing installation, configuration and troubleshooting for LAN and WAN environments. The ideal candidate will possess understanding of major network operating systems and protocols, preferably within a Cisco network environment. Demonstrated ability to configure and install Cisco network hardware and software components (e.g. Cisco 6500 series MLS, Catalyst L2 switches) with minimal supervision required. Demonstrated knowledge of Network Management tools (Cisco Works) and verifiable proficiency in their use is extremely desirable. Demonstrated planning, documentation, organizational, customer service, and excellent communication skills are a must. Must be available to perform network maintenance 24x7x365, as required, and be willing to serve as weekend on-call duty network engineer approximately one weekend a month. Information Technology Division.

NS3238. BUSINESS OPERATIONS MANAGER 2 (M-1) - Requires a bachelor's degree in a business discipline, MBA strongly preferred, with several years of supervisory and/or management experience. Must be proficient in financial analysis and forecasting and possess strong people skills and excellent oral and written communication abilities. A good understanding of BNL policies and procedures as well as a working knowledge of BNL's PeopleSoft Financial, HR and Labor Cost Distribution systems is a strong plus. Experience with the grant and

proposal process of various funding agencies is a desirable. Will report to the Assistant to the Chair for Administration, and be responsible for the management of the Budget/Administration group at the NSLS Department. Responsibilities will include all aspects of budget management and reporting for NSLS Operating, Capital, AIP, WFO and other miscellaneous funding amounting to some \$40 million annually, as well as stockroom management, inventories, labor cost distribution, electronic time reporting, procurement, contract administration, property management and general administrative support for the NSLS facility. Will be required to summarize and prioritize budget and administrative data into reports and presentations and to convey that information to the Department and the Laboratory on the status of financial issues at the NSLS. May be asked to represent the Assistant to the Chair or act in his behalf. Will be expected to be innovative in finding solutions and work independently to find better ways to accomplish and exceed Department and Group goals. National Synchrotron Light Source Department.

TB3714. HEAVY EQUIPMENT MAINTENANCE SUPERVISOR (Multi-Trade Supervisor T-6, reposting) – Requires a minimum of 10 years progressive supervisory experience in heavy equipment fleet maintenance, construction, excavation, roads and grounds. Must have detailed knowledge and experience in the operation and maintenance of, but not limited to, earth moving equipment, fixed and mobile cranes, diesel generators, elevators, material handling, roads and grounds maintenance equipment. In addition, requirements include experience working with preventive and corrective maintenance systems, estimating, project planning, the ability to coordinate and schedule multi-craft activities, possession of a Class A CDL with endorsements, working knowledge of computers and software applications, and the ability to communicate technical information on all levels of the organization. Must have demonstrated good work habits, the ability to apply Environment, Safety and Health practices in the field, and the ability to work extended hours during the winter months for snow clearing activities. A crane operator's license is highly desirable. Will be responsible for the first line supervision of the Plant Engineering Division's heavy equipment mechanic-operator shop. Plant Engineering Division.

TB2677. ASSOCIATE STAFF ENGINEER (P-3) – Requires a BS in electrical engineering, MSEE preferred. This is an entry-level electrical engineering position in the Accelerator Controls Group. Should have excellent communications skills and must be able to work with a team with diverse skills and talents to complete assignments. Should be familiar with CAD tools used for schematic capture and simulation. PLC programming skills are a plus. Responsibilities include digital hardware and firmware design utilizing programmable gate arrays, micro-controllers, and associated peripheral devices. Ancillary duties include board level troubleshooting and repair and system level installation and maintenance. Collider-Accelerator Department.

Motor Vehicles & Supplies

04 HARLEY DAVIDSON HERITAGE SOFTAIL CLASSIC - black, Screaming Eagle II exhaust. New was 22k. Must sell. 6000 mi. \$15,250/neg. Lawrence, Ext. 4797 or 998-3084.

04 TOYOTA SIENNA LE - a/t, gold, power sliding door, rear air, alarm, excel. cond., 19K mi. \$21,000. Yongjiae, Ext. 8485 or 821-2260.

03 FORD F-150 XLT - V8, 6CD changer, immaculate, orig. owner. 9000 mi. \$26,500. Mike, 325-0447 after 5 p.m.

02 CHRYSLER SEBRING - LX, 4dr sedan, 4cyl, beige color in/out, new breaks, loaded, excel. cond. 28K mi. \$8,300. Ext. 4743 or 645-5850.

01 DODGE DURANGO SLT - 4WD, p/w, p/s, p/c, am/fm/cd, htd lthr seats, rear a/c, alarm, keyless ent., tow pkg., grill grd. 84K mi. \$11,500/neg. Craig, Ext. 4154 or 764-3353.

01 TOYOTA CAMRY V6 LE COLLECTOR'S ED. - XLE, V6, 6 cd, Mich. tires, extras, leave msg. 19K mi. \$8,995/neg. Louise, 294-7574 or 475-6056.

00 MAZDA 626 LX V6 - silver, new tires, well maintained, excel. cond., hwy. miles. 81K mi. \$5,500. Yongjiae, Ext. 8485 or 821-2260.

00 HONDA ODYSSEY - dents and scratches, but in excel. mechanical cond., orig. owner, well maint. od, ac, abs. 72K mi. \$9,500. Peter, Ext. 5816 or 751-7935.

98 CHEVY SUBURBAN - blue, new motor, brakes, leather int, excel. cond. \$9,000. 585-1125, leave message.

96 NISSAN QUEST MINI VAN - 3L, V6, a/t, a/c, built-in retractable child seats, v.gd. cond., garaged, well maint. w/records. 140K mi. \$3,900/neg. Paul, Ext. 3815 or 821-3486.

95 JEEP GRAND CHEROKEE - runs well, needs body work. 175K mi. \$2,500/neg. Anne, 803-2036.

95 BUICK SKYLARK - 4dr., 6cyl., abs, a/t, a/c, p/s, p/b, p/w, p/l, am/fm/cd, excel. cond. 107K mi. \$1,950/neg. Mao, Ext. 7694 or 344-1136, or chenm@bnl.gov.

95 VOLVO 960 - sedan 6 cyl., a/t, leather int., all power, executive model, must see. 94K mi. \$4,200. 205-0028.

94 DODGE CARAVAN - ,7-passenger minivan, a/c, p/s, dual front air bags. vg. cond. 96K mi. \$1,850/neg. Chen, 949-5257.

93 MERCURY COUGAR XR7 - 3.8l 6-cyl., a/c, p/w, p/l, new tires, adult driven. 130K mi. \$1,250/neg. 921-4899.

91 CHEVY S10 BLAZER - 4.3L 4wd., new alt., new batt. & starter, just tuned up. \$1,100/neg. Ext. 3670.

91 ISUZU AMIGO - 2wd, a/c, 5spd., new tires & brakes, orig. owner, blk. w/grey int., remov. top, new CD stereo & spkrs 39K mi. \$1,750. 786-8535 or 585-7293.

90 TOYOTA CAMRY LE - 6cyc. well maint. w/all options in good cond., excel. and reliable running car. 744-8386.

89 FORD F-150 4X4 - runs, needs new tires, and some mechanical work. 128K mi. \$900/neg. Tyler, Ext. 4482 or 252-8180.

YAMAHA VIRAGO 750 - low mi., gd. cond., many extras; hubcaps, 15" lock, like new. Mike, 325-0447 after 5pm.

Boats & Marine Supplies

22' CATALINA C22 - exec cond, 4 exec sails. \$2,200/neg. 751-8731.

30' SEA RAY TUNNEL DRIVE - '87, twin 260 hp eng., all new int., new nay top, gps, radar, inflatable, 5 hp eng., super con \$29,000. Bill, 475-7620.

Furnishings & Appliances

BEDROOM SET - girl's, bleached pine w/floral design, headbd, mirror, high and low dresser, night tbl., desk & chair. \$850. Ext. 2788.

CRIB - gd. cond. w/mattress. \$25. Ext. 4121.

DINING TABLE - 7' glass top table w/6 chairs. 2 yrs old, excel. cond., moving must go, paid \$1,300, ask \$450. Jo-Ann, Ext. 8594.

DINING TABLE - brown, 3.5x3ft, wrought-iron legs, very nice, \$45. Martin, Ext. 5244 or 764-6605.

FURNITURE - pine, early American, hutches, professional office desk, other furhishings, best offer(s). 208-0408.

PERSIAN RUG - hand made, 9.5' by 12'10", brand new, center medallian design, mainly cherry w/mix color. \$3,000. Ext. 4743 or 645-5850.

QUEEN MATTRESS - high quality Serta pillow-top mattress in good cond., ask \$50 and pick up from Port Jefferson. 240-9749.

ROCKING CHAIR - bamboo/wicker type, \$30. Martin, Ext. 5244 or 764-6605.

SUITCASE - Samsonite, expandable 30" upright Suitler, used one flight only, black, excel. cond. Ask \$95. Angela, Ext. 5322.

VACUUM CLEANER - Oreck, model XL, upright, good cond., ask \$95. 208-0408.

WALL OVEN - 24" gas, almost new "Magic Chef," used only two times. \$200. 514-9871.

WATER BEDS - marquise tube style, reversible w/memory, complete sets, excl. cond., queen size, \$300/set; 2 twin sizes, \$200/set. Ext. 4743 or 645-5850.

WICKER CHAIRS - 2, indoor, round, swivel-type on a stand, red/brown, cushions, \$50/ea. Martin, Ext. 5244 or 764-6605.

WOODEN TABLE AND CHAIRS SET - "This End Up" furniture. Wood table with four mauve cushioned chairs. \$50 negotiable. 514-9871.

Audio, Video & Computers

DSL/CABLE ROUTER + WAP - Linksys router and WAP11 wireless, \$40/both. Martin, Ext. 5244 or 764-6605.

INK CARTRIDGES - for Canon Photo Printer Pixma iP3000. All four (black, cyan, magenta, yellow) \$10. Angela, Ext. 5322.

MONITORS - Mag/Inovision, good cond., 17" for \$20; 19" for \$30; \$40 for both. Ext. 7505.

MS OFFICE 2000, SMALL BUSINESS ED. - new, sealed, Word, Excel, Outlook, Publisher, small business tools, clip art, paid \$99, best offer. Don, Ext. 7237 or 929-6571.

MEDIA STORAGE RACK - oak, 5' tall x 30" wide, holds 500 CDs or 300 VCR tapes. Call for photos. \$45. Diane, Ext. 8122.

SPEAKERS - Infinity model IL 60. Paid \$1500. Hardly used. \$600. Mary, Ext. 3670.

Sports, Hobbies & Pets

BIKE - men's Trek 420 21-spd. touring bike, mint cond., Suntour comp., loaded, aerobars, clipless pedals, cateye, pump. \$150. Richard, Ext. 4947 or 654-3609.

CAMOUFLAGED - military style, to conceal unsightly items, 2 sheets, ask \$75. 208-0408.

EXERCISE EQUIPMENT - Universal 4-station machine, extra weights, best offer. 208-0408.

Tools, House & Garden

LAWN TRACTOR - 18 HP, 48" cut, 20 yrs old, grass/leaf chute/bagger, good cond., needs starter solenoid \$175 obo. Mark, Ext. 2165 or 929-6610.

POOL VACUUM - Aquabot pool cleaner, fully automatic, cost \$795, best offer over \$100. 208-0408.

Miscellaneous

BABY BACKPACK CARRIER - Ridgeway by Keltly, useable cond \$20. Anna, Ext. 7132 or 793-4551.

BARBIE DOLL HOUSE - 49"H x 39"W x 15"D, includes furniture, excel. cond., paid \$175, ask \$75. Donna, 878-2425.

DRAFTING TABLE - 3'x5', adjustable, metal w/rubber mating. 2 drawers & outlet plugs, great cond. Mike, 325-0447 after 5 p.m.

FLORAL WREATH - very lg., beautiful, blue and pink hydrangea. \$75. Mary, Ext. 3670.

TICKETS - Need a Laugh? Comedy Night, McGuire's Comedy Club, 10/29, dinner & show, \$35. Tom, Ext. 4030.

Free

DISH WASHER - GE PotScrubber 1100, 1988 model, still works fine, standard size, under-the-counter. Tom, 286-2505.

IGUANA - looking for a good home for a 4-yr old female w/enclosed habitat, people friendly. Heather, 772-2534.

Wanted

APARTMENT IN SELDEN - Looking for 1 bedroom w/ living room for rent. Max \$800/ mo. Joseph, 631-484-8806.

ATX COMPUTER CASE - Computer case wanted full tower will pay reasonable amount if in good condition. Warren, Ext. 2080 or 751-5245.

HOUSE OR APARTMENT - 2-bdrm. rental in SWRSD, male, prof., single parent, w/15-yr-old son. Don, Ext. 7237 or 929-6571.

Lost & Found

FOUND: AUDIOVOX PAGER - found-Audiovox pager/communicator. Ext. 5090.

FOUND: DIGITAL CAMERA - Ruth, Ext. 3545.

FOUND: MONEY - found in Berkner Lobby by ATM on 9/15. Ruth, Ext. 3545.

REMINDER - Lost/Found is located in Staff Services, Bldg. 179B. Call if you've lost or found any items. Christine, Ext. 2873.

For Rent

CENTER MORICHES - waterview, priv., new, huge 1-bdrm., l/r, eik., w/d, dishwasher, a/c, sep. bldg., no pets/smgk., incl. heat, must see. \$1,475/mo. Ext. 4563.

CENTER MORICHES - waterview, prv., new, huge 1 bdrm., l/r, eik., w/d, dishwasher, a/c, sep. bldg., no pets/smgk., incl. heat, must see. \$1,475/mo. 878-8797.

CENTER MORICHES - 1-bdrm. 2nd flr. apt., priv. ent, off-st. pkg., bath, kit, gas stove, high ceilings, new carpet/paint, washer/dryer, no smkg/pets \$1,100/mo./neg. Chris, 736-2275.

COMMACK - lg. studio apt., kit,w/din, full bath, l/r, closet spc., all util./cable incld., above ground, single prof. preferred, no pets, pvt. ent. \$850/mo. Gary or Evelyn, Ext. 4669.

CORAM - studio apt., huge, sunny, ground level, w/newly renov. full kit., bath, pvt. ent, 8 mi. to BNL, util. & cable incl. 1 mo sec., no smkg./pets, refs req \$850/mo. 928-0466.

E.SHIRLEY - furn, bdrm., med size for 1 person, eik, lv/cor., full bath, sep. ent, no smkg./pets, 1 mo. sec., 5 min to stores & beach. \$650/mo. 804-8609.

EAST MORICHES - 4-bdrm. farmhouse, 2 bath, bsmt., sunroom, wrap-around porch, 3 story, 2 acre prop., walk to shops, school, avail 12/1 or earlier, non smkrs. + sec. \$2,000/mo. Anna, 513-6688 or 878-6760.

EAST PATCHOGUE - like new, 3 bdrm, 2 bath, kit., d/r, l/r, fp, cac, finished bsmt., gar., deck, no pets, + util., avail. immed. \$2,200/mo. Marie, 475-2068.

EAST PATHOGUE - 1-bdrm. 2nd fl. apt., priv. ent, off-st pkg, lg. l/r, d/r, closets, swimming, fitness, tennis, laundry in the complex. 15 min to Lab. \$1,110/mo. Ext. 3419 or 917-754-0232.

FARMINGVILLE - 1-bdrm. apt., central a/c, own heat control, utilities & cable incl., no smkg./pets, 1 mo. security. \$850/mo. Thomas, Ext. 4866 or 974-0770.

MANORVILLE - share furn. 2-bdrm. apt: your bdrm. 12x18, own bath, I'm away every F-Tu am. Lg. l/r, d/r, heat, Internet, W/D, a/c. \$600 if you feed cat Sa-Mo. \$750/ mo./neg. Rob, 917-865-9668.

MASTIC - 1-bdrm. apt., pvt. ent., pvt. d-way w/personal deck, no pets, rent includes all \$1,050/mo. Chris, 466-1675.

MILLER PLACE - big furnished apt., ceramic tile bath, complete kit. Internet, TV, own thermostat, prof. resid. area, 9 mi. to BNL, responsible non smoker. \$900/mo. 744-8386.

NAPLES, FL - seasonal rental, beautiful, new fully equipped condo in golf community, 2bdrm/2bath, Har-Tru tennis courts, pictures available upon request. \$600-\$1,100/wk. Denice, 208-0196.

RIDGE - new lg. 1-bdrm. bsmt. apt., w/windows, 2 oversized closets, bath., kit/lr combo w/area for office computer, more, avail. 10/1, incl. all. \$1,000/mo. Tammy or Ed, 924-6395.

RIDGE - 3 bdrm. apt.,2nd flr., quiet/safe, full kit., l/r, laundry rm., lg deck and patio, 1 family or individuals to share, incl. all \$2,000/mo. Cindy, Ext. 4343.

ROCKY POINT - bsmt. apt., 1 lg. bdrm, l/r, full bath, eik, incl. util., 1.5 mo. sec. no smkg./pets. \$850/mo. 821-7780.

ROCKY POINT - 1-bdrm. ground-flr. apt., no pets, heat incl. \$875/mo. Pat, 821-4252.

SAYVILLE - 1-bdrm. apt w/sep. ent. on quiet street, utilities, cable, use of washer/dryer incl., near all, no smkg./pets. \$950/ mo. Ext. 4450 or 516-987-4060.

SHIRLEY - 1-bdrm. bsmt. apt., partially furnished, sep. ent., all utilities incl., 1 month + sec. \$750/mo. Ext. 3846.

SHOREHAM - 2 lg. bd rms. & a/c in l/r, fully carpeted, kit., full bath, cable, priv. ent. on cul-de-sac., no smkg./pets. 8 mi. to BNL. \$1,200/mo. 445-7838.

SOUND BEACH - 1 bdrm, 1 bath house in quiet area, close to beach, 15 min to Lab, new carpets, pets ok, \$1,100/mo. John or Pete, Ext. 4028.

YAPHANK - 4-bdrm. Colonial house, lg. yd., wooded area, 5 mi to BNL, avail. 11/1. \$1,800/mo. Jerry, 924-5219.

For Sale

SHIRLEY, NY - 3-bdrm., 1.5-bath Colonial. l/r w/f/p, d/r w/wood flr, all season sunroom w/ vaulted ceiling, fin.bsmt, app, igs, nicely landscaped. \$397,000/neg. Jo-Ann, Ext. 8594.