



In front of the Center for Functional Nanomaterials (CFN) are (from left) U.S. DOE Project Director Joe Eng, CFN Project Director Michael Harrison, and CFN Project Manager Michael Schaeffer.

## Construction Projects at BNL Win DOE Achievement Award

Two large construction projects at BNL — the U.S. ATLAS Detector Project and the Center for Functional Nanomaterials (CFN) — are winners of the DOE Secretary's Award for Achievement. The awards recognize DOE facilities with outstanding project management in completing projects within cost and schedule. Representing BNL, DOE Project Director Joe Eng and CFN Project Manager Michael Schaeffer, who, with CFN Project Director Michael Harrison, oversaw construction, received the award plaques on March 31, at the 2009 Annual DOE Project Management Workshop in Alexandria, Virginia.

BNL shared the award for the detector project with Fermi National Accelerator Laboratory for its Compact Muon Solenoid (U.S. CMS) Detector Project. These projects successfully contributed key components

and expertise to state-of-the-art particle detectors built for the Large Hadron Collider (LHC), the world's highest energy and largest collider, located at CERN, the European laboratory for particle physics, near Geneva, Switzerland. First collisions are expected in the fall of 2009. ATLAS has over 2,000 scientists from 37 countries and is expected to yield fundamental discoveries to address leading questions in particle physics.

Howard Gordon, the BNL physicist who was in charge of the U.S. ATLAS Project and is currently head of the U.S. ATLAS Program Office, said, "Funded by DOE Office of Science and the National Science Foundation, the ATLAS and CMS projects together cost \$331 million, with almost \$164 million of that amount going toward ATLAS. Construction for U.S. ATLAS began in 1997 and ended by June



U.S. ATLAS Project Manager Howard Gordon

2008. Both projects affirm the U.S. as an influential and reliable partner in international science, and enable American scientists to participate in the largest collaborative effort in the physical sciences."

Designed by HDR Architecture, Inc., of Alexandria, Virginia, and constructed by E.W. Howell Co., Inc., of Woodbury, NY, the CFN is a 94,500-square-foot, state-of-the-art

See *DOE Award* on pg. 2

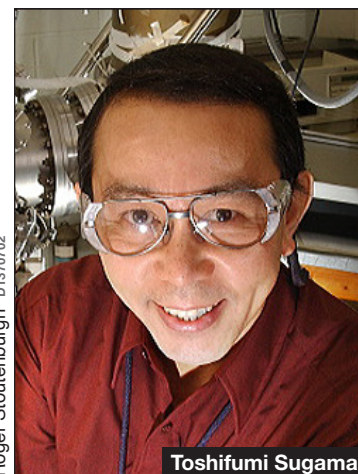
## New Patent Available for Licensing Corrosion-Resistant Nano-Coating for Metals

Thinner, less toxic than existing coatings; efficient and economical to produce

Research at BNL supported by DOE's Office of Energy Efficiency & Renewable Energy has revealed a new method for coating metal surfaces with an ultrathin film containing nanoparticles (particles measuring billionths of a meter), which renders the metal resistant to corrosion and eliminates the use of toxic chromium for this purpose. Chemist Toshifumi Sugama, a guest researcher in the Energy Sciences & Technology Department, has been awarded U.S. Patent number 7,507,480 for his method and the corrosion-resistant metals made from it. The technology is available for licensing.

"Our coating is produced right on the metal using a simple two- or three-step process to produce a thin film structure by crosslinking among the component compounds," said Sugama. "The result is a layer less than 10 nanometers thick that protects the metal from corrosion, even in briny conditions." The coating is economical because very little material is needed.

Corrosion resistance is essential for metals used in a wide range of applications, from electronics to aviation to power plants. Sugama's coatings can be applied to a wide array of metals, including aluminum,



Roger Stoutenburg D1370702

Toshifumi Sugama

steel, nickel, zinc, copper, bronze, and brass. According to Sugama, the technique should be of specific interest to industries that produce coated valves, pumps, and other components, as well as the manufacturers of aluminum fins used in air-cooled condensers at geothermal power plants, where preventing brine-induced corrosion is a high priority.

"Among the key factors that ensure the maximum corrosion-mitigating performance of these ultrathin coating films are the great water-repency, the deposition of metal oxide nanoparticles over the metal's surface, and their excellent adhesion to metal. The combination of these factors

See *New Patent* on pg. 2

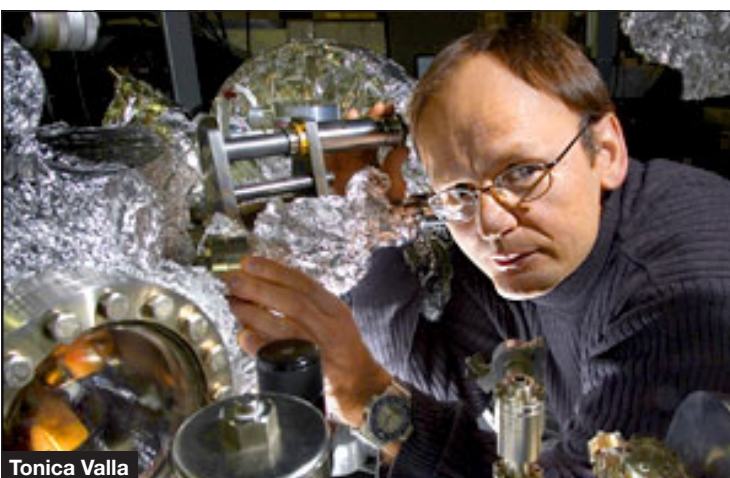
## Eight Brookhaven Scientists Are Granted Tenure

Brookhaven Science Associates (BSA) granted tenure effective December 1, 2008, to eight Brookhaven scientists. They are: Elaine DiMasi, National Synchrotron Light Source; Rita Z. Goldstein, Medical Department; Yangang Liu, Environmental Sciences Department; Hong Ma, Physics Department; Cedimir Petrovic, Condensed Matter Physics and Materials Science Department (CMPMS); Triveni Rao, Instrumentation Division; Tonica Valla, CMPMS; and Paul Vaska, Medical. Since February 27, The Bulletin has been featuring the newly tenured scientists in alphabetical order: summarized below are contributions from Valla and Vaska.

### Tonica Valla

Tonica Valla of the Condensed Matter Physics & Materials Science (CMP&MS) Department was granted tenure for his world-class research in the application of photoelectron spectroscopy, an investigative technique that is one of the core strengths in BNL's program in studying strongly correlated materials.

"Tony is recognized both nationally and internationally as an outstanding photoelectron spectroscopist with an excellent understanding of the physics of condensed matter systems," said CMP&MS Chair Peter Johnson. "He has made some outstanding contributions to our understanding of correlated systems through



Tonica Valla

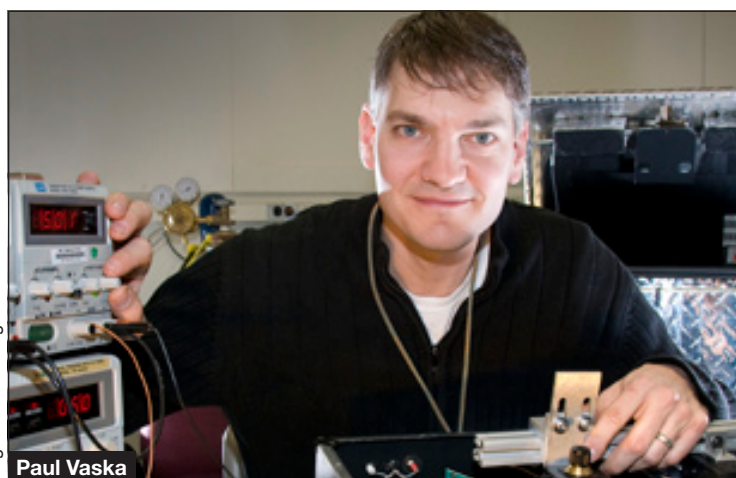
his photoemission studies of a range of different materials, including the high temperature superconductor cuprates and the dichalcogenides. While at BNL, he has coauthored 39 papers — 18 of which appeared in *Physical Review Letters*, *Science*, or *Nature*, with Tony as the first author on ten of the 18. He is an integral component of the strongly correlated program at the Lab and fully deserving of promotion to a tenured position."

Recently, Valla and coworkers have started synthesis and spectroscopic and transport studies of graphene, a material that in certain conditions has exotic electronic properties that make it a promising candidate for electronic devices, or possibly for spintronics devices. The group overcame difficulties to produce

high quality samples of graphene with these properties, an accomplishment that enables new technologies to be explored. In other observations, Valla and his coworkers found that graphene sheets play an important role in superconductivity in graphite intercalated compounds, contradicting recent theories.

Valla received his Ph.D. from the Institute of Physics in Zagreb in 1996. He joined the electron spectroscopy group in the Physics Department as a postdoctoral fellow that same year, and he was promoted to assistant physicist in 1999. In 2001 he became an associate physicist and was named a physicist in 2004. In 2005, he was given a continuing appointment in Physics and joined the CMP&MS Department as it was formed.

— Liz Seubert



Paul Vaska

### Paul Vaska

Paul Vaska, a scientist in the Medical Department, has been awarded tenure for his outstanding contributions to the field of medical imaging with positron emission tomography (PET) and for his strong support of Laboratory facilities.

Said Gene-Jack Wang, Medical Chair, "Paul's work has had an important impact on the advancement of medical imaging. He is clearly one of the best among a handful of young imaging physicists. He has demonstrated outstanding scientific rigor, creativity, and leadership, portending even greater achievements for the future."

Among Vaska's major achievements was his key role in developing and validating one of the

world's first small-animal PET systems, the microPET R4. For his effective solution to a problem he had discovered involving background interference in this kind of device, he was awarded the 2004 Concorde Microsystems Novel Application of the Year.

Vaska played a pivotal role in developing a new miniature PET device, the RatCAP, that allows an animal to be studied while awake and moving. He built on this technology to develop multimodality imaging using both PET and magnetic resonance imaging — a breakthrough in the field. He also applied this technology to detecting nuclear materials for homeland security.

In 2004, Vaska was honored with a Presidential Early Career Award for Scientists & Engineers

See *Paul Vaska* on pg. 2



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 followed with an asterisk (\*) have an accompanying story in this week's Bulletin.

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See [www.bnl.gov/esol/schedule.html](http://www.bnl.gov/esol/schedule.html) for schedule. Jen Lynch, Ext. 4894

**Mondays: BNL Social & Cultural Club**  
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, [alforque@bnl.gov](mailto:alforque@bnl.gov)

**Mondays & Wednesdays: Pilates**  
12:15-1:15 p.m. Mons.; 5:15-6:15 p.m. Mon. & Wed. Rec. Hall. \$65/once/wk., Registration is required. Ext. 5090

**Mondays & Thursdays: Kickboxing**  
\$5 per class. Noon-1 p.m. in the gym. Pay as you go. Ext. 8481

**Mon., Thurs., & Fri.: Tai Chi**  
Noon-1 p.m., B'haven Cntr N. Rm. Adam Rusek, Ext. 5830, [rusek@bnl.gov](mailto:rusek@bnl.gov)

**Tuesdays: Hospitality Coffee**  
10:30 a.m.-noon, Rec. Hall lounge. All welcome. Ext. 5090

**Tuesdays: BNL Music Club**  
Noon, B'haven Center, N. Room. Come hear live music. Joe Vignola, Ext. 3846

**Tuesdays: Knitting Class**  
2-4 p.m. Rec. Hall. All levels of skill. Ext. 5090 for information.

**Tuesdays: Jiu Jitsu**  
6:30-7:30 p.m. Gym. All ages, 6 yrs. to adult. \$10/class, pay as you go. Tom Baldwin, Bldg. 452, Ext. 4556

**Tuesdays: Toastmasters**  
3 monthly meetings: 2nd Tuesday: Noon, Berkner, Rm. D: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. [www.bnl.gov/bera/activities/toastmasters/](http://www.bnl.gov/bera/activities/toastmasters/)

**Tue., Wed. & Thurs.: Rec Hall Activities**  
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, 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](mailto:flood@bnl.gov)

**Tuesday & Thursday: Aqua Aerobics**  
5:30-6:30 p.m., Pool. Registration is required. Ext. 2873

**Tuesday & Thursday: Jazzercise**  
Noon-1 p.m. Rec. Hall. 8-wk session, \$90 2x/wk. Holbrook & Wading River locations too. Registration is required. Ext. 2873

**Wednesdays: On-Site Play Group**  
10 a.m.-noon. Rec. Hall. Infant/toddler drop-in event. Parents meet while children play. Restarts 9/10. Petra Adams, 821-9238

**Wednesdays: Ballroom Dance Class**  
B'haven Center, N. Ballroom. Instructor: Giny Rae. New series starts 2/25. Three 1-hr. classes, starting at 5:15 p.m. Ext. 3845

**Wednesdays: Yoga**  
Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, [ila@bnl.gov](mailto:ila@bnl.gov)

**1st Wednesday of month: LabVIEW**  
1:30-3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379

**Thursdays: BNL Cycletrons Club**  
Noon-1 p.m., First Thurs. of month. Berkner, Rm. D. Toni Hoffman, Ext. 5257

**Thursdays: Reiki Healing Class**  
Noon-1 p.m., Call for location. Nicole Bernholz, Ext. 2027

**Fridays: Family Swim Night**  
5-8 p.m. BNL Pool. \$5 per family

**Fridays: Family Gym Night**  
5-8 p.m. Family gym activities. Free

**Fridays: BNL Social & Cultural Club**  
Noon-1 p.m., B'haven Center, S. Room, free beginners dance lessons. 7-11:30 p.m. N. Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, [alforque@bnl.gov](mailto:alforque@bnl.gov)

CIGNA Representative

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

Getting the 'Scoop' on Lab Happenings

Not everyone knows that BNL has an Envoy Program, with the primary purpose of sharing information about the Lab's accomplishments and activities. Employees are recruited to be "ambassadors," who become well informed about Lab affairs so that they can talk to their family, friends, and neighbors about some of BNL's main research goals and upcoming events.

The program has been successful, and the Lab is now looking for new employees to join the Envoy team.

The Envoy Program started in 1998. At that time, Lab employee Jane Koropsak lived in Mastic Beach and decided to join the program. Koropsak continues with her story:

"The Lab wanted employees who were interested in becoming envoys, that is, helping the local community to become more familiar with what goes on here. A small group of us attended meetings at BNL to learn the latest news in anything that might interest or affect our neighbors, so that we could answer simple questions or refer people to someone knowledgeable on site.

As an active member of a local civic, the Mastic Beach Property Owners' Association



Joseph Rubino D7760309

Two Lab envoys, BNL's Jane Koropsak and retiree Tom Muller, who have been part of the program since it started in 1998, look over Lab brochures. Brochures are helpful, but Koropsak and Muller agree that presentations given at envoy meetings on Lab topics are the most informative and useful ways to share Lab news with family, friends, and neighbors.

(MBPOA), it seemed I was a perfect candidate to become a Lab envoy. It was a great way to gain a better understanding of BNL and support the Lab's community outreach efforts, so I became one of the first employees to join the envoy team. I feel that the relationships I have developed with the community members are worthwhile, so I continue to attend the monthly meetings of the MBPOA, even though I no longer reside in Mastic Beach.

Brookhaven Advocacy Council Members Needed: Stop By, Learn More, 4/6

If you are a good listener who can maintain confidentiality, remain impartial, and base your judgment on fact rather than emotion, consider becoming a Brookhaven Advocacy Council (BAC) member.

BAC members have the opportunity to participate in establishing an atmosphere of trust between BNL management and its employees. Are you willing to devote time and energy to ensure that everyone equally enjoys the quality of life that BNL offers? If your answer is yes, there just may be a seat for you on the BAC.

The BAC is a key component of BNL's system of ensuring a respectful, fair and equitable workplace. 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 functions independently of the Human Resources & Occupational Medicine Division, reporting directly to the Lab Director.

The members of the BAC will be hosting a table in Berkner Hall lower lobby on Monday, April 6, 11:30 a.m.-1:30 p.m. If you would like to learn more about the BAC or are interested in becoming a member, stop by and speak with the members or visit the website, [www.bnl.gov/bac](http://www.bnl.gov/bac).



Aluminum fins from a geothermal power plant subjected to 24,000 wet/dry cycles of exposure to briny conditions. The far left fin, with no protective coating, completely dissolved. The middle fin had a nano coating with a low level of cerium oxide, while the far right fin had a coating with a higher concentration of cerium oxide nanoparticles.

New Patent from pg. 1

considerably decreased the corrosion of metals," said Sugama.

The corrosion resistance of these coatings can be comparable, and even superior, to traditional chromium-based coatings, he said. In fact, these new coatings provide even better coverage of metal surfaces than chromium coatings. Sugama added,

"This is particularly advantageous when the metal to be coated possesses fine structural detail."

For information about licensing this technology, contact BNL Licensing Associate Poornima Upadhyay, (631)-344-4711, [pupadhyay@bnl.gov](mailto:pupadhyay@bnl.gov).

— Karen McNulty Walsh

For more detail, see [http://www.bnl.gov/bnlweb/pubaf/pr/PR\\_display.asp?prID=929](http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=929)

You may think, 'But I, myself, am not associated with a specific community group.' Or, 'I don't want to talk in front of an audience.' Being an envoy does not require you to give formal talks, nor do you need to belong to a specific group. Being an envoy gives you the opportunity to acquire information on Lab topics so you can talk with your friends and neighbors across a dinner table, on the sidelines at a Little League game, or

at a local fundraiser. I admit that I was somewhat nervous about speaking with friends and neighbors about Lab happenings. But, after attending just a few envoy meetings and listening to presentations on a variety of topics like nanotechnology, NSLS-II, and cultural resource management, I found that I could easily understand the general picture of what was going on. I realized that you don't need to be an expert on the Lab's history or current research. The presentations at envoy meetings always give me enough information to engage in conversation. As a bonus, I meet new colleagues and friends."

The next envoy meeting is April 8, at 9 a.m., in the large conference room in Bldg. 490. This month, there will be a presentation on the Brookhaven Graphite Research Reactor and the High Flux Beam Reactor decommissioning projects. No obligation. Stop in, listen, share. Envoys always welcome new "ambassadors" to the table.

— Jane Koropsak

For more information on the Lab's Envoy Program contact Nora Detweiler, Ext. 4458, [ndetweiler@bnl.gov](mailto:ndetweiler@bnl.gov).

Note: Employees should obtain supervisory permission to attend meetings.

DOE Award from pg. 1

laboratory/office facility expected to attract an estimated 300 researchers annually.

The \$81-million facility provides researchers with advanced probes and the ability to use new fabrication techniques to study materials at nanoscale dimensions, typically, billionths of a meter, or 1,000 times smaller than a human hair. These materials have chemical and physical properties that differ from those of bulk materials and could form the basis of new technologies, particularly in energy.

Construction of the CFN began in September 2005 and was completed in April 2007, six weeks ahead of schedule and under the baseline cost. Thus, its scope was enhanced with an additional \$5.3 million of research tools included in the project, allowing researchers an earlier and more aggressive start on the scientific program. Official operations began in March 2008, after all technical equipment was installed.

"The CFN project met and exceeded performance while maintaining standards in security and in environmental, safety and health aspects," said Schaeffer. "The whole project team deserves credit and recognition for their outstanding work."

The CFN has been awarded a LEED — Leadership in Energy and Environmental Design — silver rating by the U.S. Green Building Council. It also received a 2007 Build New York Award from the General Building Contractors of New York State, and two awards from the American Council of Engineering Companies in 2009.

— Diane Greenberg

Paul Vaska from pg. 1

neers. In 2007, he received an IEEE Outstanding Young Engineer Award, Long Island Section. He holds four patents and has another pending.

Vaska earned his B.S. from Clarkson University in 1989, and an M.S. in physics, 1994, and a Ph.D. in nuclear physics, 1997, both from Stony Brook University (SBU). Having joined Medical as an assistant scientist in 2000, he rose to associate scientist in 2003. In 2001, he also became an adjunct professor in SBU's Department of Biomedical Engineering. Vaska was named head of PET Physics in 2004 and promoted to scientist in 2006. — Liz Seubert

Arrivals & Departures

— Arrivals —

Richard Bryan ..... Medical  
Justin Pack .....Deputy Dir. for Operations  
Victor Soria .....CAD

— Departures —

Zhi Wei Lin ..... CMP&MS





# Sharing the Road With BNLER Larry Hoff

Some people enjoy driving to work; others prefer not to. Brookhaven’s Larry Hoff is of the latter group. Although 13 miles separate the Lab from his home in East Patchogue, this group leader in the Collider-Accelerator Department (CA-D) commutes throughout most of the year via bicycle.

“The bike ride is a half hour longer than driving — but I really like riding the bike,” Hoff explained. “There are lots of secondary reasons I’d rather ride my bike rather than drive: saving money by not buying gas, environmental reasons, staying in shape. But the main reason I ride is because I really like riding a bike.”

Hoff began riding his bike to work when he first started work at the Lab 24 years ago. Now that his children are older, Hoff commits to a bicycle commute throughout the entire span of daylight savings time, from March until November each year.

“I only ride to and from work during daylight savings. I have no interest in riding home in the dark, I don’t feel safe doing it,” stated Hoff. In fact, he travels by car whenever safety is an issue —



(From right) Larry Hoff with fellow Collider-Accelerator Department bicyclists Sev Binello and Seth Nemesure.

for example, in the rain. Hoff also wears a helmet each time he mounts his pedal-powered steed.

Hoff is eager to spread his enthusiasm and love for bike riding. Each week, he rallies fellow C-AD bicyclists during their lunch break on Fridays for an hour-long ride — which is usually another 25 miles in addition to his daily 26-mile commute. “I hope BNLERs realize how supportive the Lab is of bicycle commuting with the

plentiful amount of bike racks and showers available on site,” Hoff added.

So as the sun shines longer each day and you begin thinking about exercising or saving some gas money, think about riding a bicycle — whether it be to work or the corner store. Remember Larry-Hoff clocking in more than one hundred miles each week, and share the road if you are driving and see him or other bicyclists riding along. — Joe Gettler



Thinking about riding a bicycle to work? Larry Hoff has some advice:

1. Plan your travel route in advance; use roads with less traffic and wider shoulders.
2. Learn to fix a flat tire on road; get a tire repair kit and air pump.
3. Get the cell-phone number of a sympathetic co-worker, in case you get stuck.
4. Bring work clothes to the Lab in advance so you don’t have to carry them each day.
5. Pay attention while you ride; don’t listen to music though audio books and podcasts still allow you to hear traffic.

## BWIS Talk Women and Physics, 4/8

Sponsored by Brookhaven Women in Science, Christine Nattrass, a graduate student at Yale University and winner of the 2008 Gertrude Scharff-Goldhaber Prize, will give a talk, titled “Women and Physics: An International Perspective,” at noon on Wednesday, April 8, in Berkner Hall, Room B. The entire BNL community is invited.

Nattrass attended the third International Conference on Women in Physics sponsored by the International Union of Pure and Applied Physics in September 2008, where women from around the world discussed the common issues facing women in physics and traded strategies for dealing with them. Nattrass will discuss the resolutions made at the conference and what is being done in response to help ensure that women have an equal chance with men to succeed at physics. For more information, contact Kathy Walker, Ext. 7105, or [kwalker@bnl.gov](mailto:kwalker@bnl.gov).

## Learn Russian Free, ‘From Scratch!’

Don’t miss the chance to learn Russian “from scratch!” Starting April 9, a new Russian class for beginners will be given free by tutors Olga Dulneva and Kseniya Kayran, on Thursdays, 2:30-3:30, in the Recreation Hall, in the apartment area. This class is sponsored by BNL’s English for Speakers of Other Languages Program, coordinated by Jennifer Lynch. For more information, see [www.bnl.gov/esol/](http://www.bnl.gov/esol/) or contact Lynch, [jlynch@bnl.gov](mailto:jlynch@bnl.gov) or Ext. 4894.

## Concert, 4/10 Duo To Perform Guitar, Harmonica Workshops Offered Next Day

Acoustic duo Paul Rishell and Annie Raines will give a concert on Friday, April 10, at 8 p.m. at the Brookhaven Center. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab 16 and older must bring a photo ID.

Rishell and Raines met in a pub in Boston in 1992 and have racked up thousands of miles on musical tours in the United States and Europe ever since. Country blues guitarist Rishell and harmonica ace Raines have released several CDs including “Moving to the Country,” the winner of the 2000 W.C. Handy Award for best acoustic blues album of the year. In addition to performances on TV, radio, and at festivals and concert halls internationally, the two also sponsor musical workshops and seminars.

Tickets cost \$15 in advance or \$20 at the door. Tickets can be purchased at the BERA Store, or through [www.ticketweb.com](http://www.ticketweb.com) or at Jeff Denny’s Music Station in Shirley, 631 399-2713. Advance ticket purchase is strongly recommended.

In addition to the concert, Rishell will offer an intermediate and advanced guitar workshop and Raines will offer a harmonica workshop on Saturday, April 11, at the Brookhaven Center. Both two-hour workshops will begin at 2 p.m. and each is limited to 10 places. The cost is \$40 per workshop.



## Softball Players Wanted

The BNL softball season will start during the first week of May. At BNL, two family-friendly leagues are ready to welcome any BERA member older than 18: the Employees League, which plays by the Seniors Rules; and the Mixed League, which plays by the mixed league rules. We are always looking for new players of any caliper, from seasoned players to never played before. If you are interested in playing, contact Jim Durnan, Ext. 5993.

## Play Golf! 4/17

To kick off spring, the BERA Golf Association will host an outing at the Pine Hills Country Club in Manorville on Friday, April 17. The outing will cost \$55, which includes greens fees, a golf cart, and \$10 towards prizes. An 18-hole scramble format will be used during the outing. All golfers are welcome. For more information or to sign up, contact Jeff Williams, Ext. 5587 or [jwilliams@bnl.gov](mailto:jwilliams@bnl.gov).

## New Golf Association Members Welcome

The BERA Golf Association is now accepting applications for our 2009 Golf League. New members are welcome. For more information about the league visit <http://www.bnl.gov/bera/activities/golf/> or contact Jeff Williams, Ext. 5587 or [jwilliams@bnl.gov](mailto:jwilliams@bnl.gov).

## TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Tuesday, April 7, Thursday, April 23, and Wednesday, April 29, to answer employees’ questions about financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare life-time income vs. cash withdrawal options. For an appointment, call 1-800-732-8353.

## BERA Updates

The Pool will be closed for maintenance from Monday, April 6, until Saturday, April 11.

### Trips

**Clearwater Festival Hudson River:** Saturday, June 20. Leave Brookhaven Center at 9 a.m., leave park at 5 p.m. \$40 per adult, \$10 per child of age 12 and under. <http://www.clearwater.org/festival/index.html>

**Cirque Du Soliel Kooza:** Saturday, May 9, 4 p.m. show. \$80 per person (adults and children). Leave Brookhaven Center at 1:30 p.m., leave event at 6:30 p.m. or conclusion of the show

**Long Island Ducks:** Minor league baseball team. Tickets for home games are available at the BERA Store. \$10 per person. Visit [www.liducks.com/](http://www.liducks.com/) for the schedule of games

### New Fitness Class Schedules

Advance registration is required for the classes listed below. Make checks payable to BERA and mail to: Recreation Office, Bldg. 400.

**Aqua Aerobics:** 8-week session, \$20 for one class per week, \$40 for two per week, Tuesdays & Thursdays: 4/28 – 6/18, 5:30 – 6:30 p.m. Lab pool, Bldg. 478

**Jazzercise:** 10-week session, \$110 for two classes per week\* Tuesdays and Thursdays: 4/7 – 6/18\*\*, noon – 1 p.m. Bldg. 317

**Pilates:** 9-week session, \$65 for one class per week, \$90 for two Mondays: 4/13–6/15\*\*, 12:15 – 1:15 p.m. and 5:15 – 6:15 p.m. and Wednesdays: 4/1 – 6/3\*\*, 5:15 – 6:15 p.m. Bldg. 317

\* Can use Holbrook & Wading River locations in addition to on-site classes  
\*\* No classes will be held during Memorial week

## CALENDAR

### — WEEK OF 4/6 —

#### Monday, 4/6

##### \*Brookhaven Advocacy Council Seeks New Members

11:30 a.m.-1:30 p.m. Berkner Hall lobby. Stop by the Brookhaven Advocacy Council table to find out more about this valuable Lab asset. See notice, pg. 2.

#### Wednesday, 4/8

##### \*Learn About BNL’s Envoy Program

9 a.m. Large Conference Room, Bldg. 490. Meeting of the Envoy Program, open to all. Read the “Scoop” article on pg. 2.

##### Finance: Retirees in Volatile Market

Noon. Hamilton Seminar Room, Bldg. 555. Sponsored by Brookhaven Retired Employees Association, TIAA-CREF’s Thomas Kelly will talk on “Retirees Staying on Track in a Volatile Market.” All are welcome.

**\*BWIS Talk, ‘Women and Physics’**  
Noon. Berkner Hall, Room B. Sponsored by Brookhaven Women in Science, Christine Nattrass, Yale University, will talk on “Women and Physics: An International Perspective.” All are welcome. See left.

#### Friday, 4/10

##### \*Guitar/Harmonica Blues Concert

8 p.m. Brookhaven Center. Sponsored by the BNL Music Club, acoustic duo Paul Rishell and Annie Raines will perform country blues. The concert is open to the public. Buy tickets \$15 in advance (\$20 at the door) at the BERA Store or through [www.ticketweb.com](http://www.ticketweb.com). Visitors to the Lab of 16 and older must carry a photo ID. See below, left.

#### Saturday, 4/11

##### \*Two Workshops: Guitar, Harmonica

2 p.m. Brookhaven Center. Acoustic duo Paul Rishell and Annie Raines offer workshops. Limited to 10 places for each workshop. \$40. Reserve your place at the BERA Store, Ext. 3347, or through [www.ticketweb.com](http://www.ticketweb.com). See below, left.

### — WEEK OF 4/13 —

#### Wednesday, 4/15

##### 448th Brookhaven Lecture

4 p.m. Berkner Hall. James Muckerman of the Chemistry Department will give the next Brookhaven Lecture, “Theoretical Perspectives on Artificial Photosynthesis.” All are welcome to this free public talk. Visitors to the Lab of 16 and older must carry a photo ID.

### — WEEK OF 4/20 —

#### Wednesday, 4/22

##### 449th Brookhaven Lecture and 2009 Earth Day Lecture

Noon. Berkner Hall. “Global Change and the Terrestrial Biosphere” will be discussed by Alistair Rogers, Environmental Sciences Department. All are welcome to this free public talk. (Note, unusual time.) Visitors to the Lab of 16 and older must carry a photo ID.

## Celebrate Holi, 4/26

The BERA Indo American Association invites all to celebrate with them the Holi/Spring festival 2009, to be held on Sunday, April 26, 3 – 5 p.m. at Berkner Hall. As always we will have a colorful, rich cultural program consisting of dances, skits, instrumental music etc. More information is at: <http://www.bnl.gov/bera/activities/iaa/holi2009>. This event is now open for reservations both to attend and to perform. The event is free, but reservations are needed. All reservations, including modifications and cancellations, must be made by April 17, through: [http://www3.bnl.gov/bera-iaa/holi09/reserve\\_form.php](http://www3.bnl.gov/bera-iaa/holi09/reserve_form.php).



## 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/](http://www.bnl.gov/HR/jobs/).

To apply for a position, go to [www.bnl.gov](http://www.bnl.gov). Select "Job Opportunities," then "Search Job List."

### LABORATORY RECRUITMENT - Opportunities for Laboratory Employees

**MATERIAL HANDLER (LG-3) (TEMPORARY)** - Performs a variety of laboring and manual tasks in stores operations such as moving, loading, unloading, sorting and storing of materials. May operate motorized equipment pertinent to stores operations. Keeps stores facilities in neat condition. Send Transfer Form to Diana Hubert in HR, Bldg. 400B. Job ID # 14798.

**OPEN RECRUITMENT** - Opportunities for Lab employees and outside candidates.

**POSTDOCTORAL RESEARCH ASSOCIATE** (Plant Biochemistry, Plant Genetics, Molecular Biology) - Requires a Ph.D. in plant physiology, biochemistry, molecular genetics or a related field. Demonstrated experience in the standard techniques of biochemistry and molecular biology is required. Prior experience working with microalgae desirable. Excellent communication skills and an ability to work in a team-based research environment are essential. Will study the regulatory network controlling lipid synthesis and carbon energy storage homeostasis in plants and microalgae. Specific areas of interest include the molecular aspects of triacylglycerol assembly and deposition. Additional efforts will focus on understanding the mechanisms underlying the fatty acid partitioning and channeling with regard to lipid storage. When applying, include with your CV a cover letter detailing research interests and contact information for three references. Under the direction of C. Xu, Biology Department. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years. Apply to Job ID #14804.

**POSTDOCTORAL RESEARCH ASSOCIATE** (Organic Materials and Polymer Synthesis) - Requires a Ph.D. in chemistry, polymer science or materials science. Significant experience in the design and synthesis of polymers, block copolymers, and organic amphiphiles and a strong interest in applying these materials to energy conversation applications are also required. Requires close interaction with physicists and engineers in material design and device development. The research project involves the synthesis and characterization of polymer and small-molecule amphiphiles as integral components of energy conversion devices. This project is laboratory-intensive and will require familiarity with a range of techniques for the synthesis of novel organic materials. Under the direction of R.B. Grubbs, Center for Functional Nanomaterials. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years. Apply to Job ID #14808.

**CHIEF INTELLECTUAL PROPERTY COUNSEL** (M-3) - Requires a JD, 10 years of progressively responsible legal experience in the field of intellectual property, and strong managerial and communication skills, particularly writing and negotiating. Requires admission to at least one state bar, NY state preferred, and admission to USPTO, extensive knowledge and experience in legal matters pertaining to the protection of intellectual property, and familiarity with the technologies at BNL that lend themselves to patenting. Government contracting experience preferred. Directs the activities of the Intellectual Property Legal Support Group within the Office of the General Counsel in all functions relating to identifying, evaluating, reporting and protecting discoveries and inventions developed by or contributed to by Laboratory personnel. The group currently consists of a senior patent attorney and a paralegal. Formulates Laboratory policy relating to intellectual property matters. Oversees and participates in the identification of patentable intellectual property, the development of outside patentability and patent drafting contracts, discussions with inventors, web searches for identifying markets and customers, development of patent scope and preparation of patent applications. Oversees the patent prosecution work conducted by outside patent counsel and represents BNL with Patent Office Examiners. Provides guidance to management regarding most promis-

ing research and develops patent prosecution strategies. Provides legal advice on transactional matters including licensing and sponsored research contracts. Legal Office. Apply to Job ID #14802.

**ELECTRICAL PROJECT ENGINEER I (P-9)** Requires BSEE with an advanced degree preferred and a minimum of 10 years' experience with successful track record in the engineering, design and analysis of high speed analog and digital electronics. Must demonstrate expertise with design analysis tools and laboratory measurement techniques. Experience with design of FPGA/CPLD based logic including functional and timing simulation is highly desirable. Excellent communication skills and ability to develop affective technical procedures are required. Familiarity with use of OrCad Capture, PADS Power PCB, CAM 350, and AutoCAD design tools is required. Experience with project management tools such as MS Project in developing long-term project schedules that reflect tasks, durations, resources and cost scope are preferred. Candidate's role will be to plan, design, develop, and use new or improved engineering techniques or equipment, and accepted proven techniques for the solution and completion of technical research projects. Will maintain, develop, and employ capabilities to execute organizations plans and policies. Responsibilities will be to provide electronics engineering leadership and management for the STAR Collaboration members and technical staff working in support of STAR Operations. Will direct the work effort of the technical staff, and provide budgetary cost analysis and performance feedback for annual operations needs and project requirements. Will report to STAR Operations Group Leader. Physics Department. ERAP ELIGIBLE \$1,000.00. Apply to Job ID #14806.

**QUALITY ENGINEER I (P-9)** - Requires a bachelor's degree in engineering or a related discipline (advanced degree preferred) and 10 years' experience as a Quality Engineer in an engineering and manufacturing environment. ASQ certification (CQE, CQA) is a plus. Must have excellent written and oral communication skills and the ability to provide high quality reports and presentations. Must have excellent interpersonal skills and the ability to interact effectively with a diverse group of scientific, engineering, and technical staff. A working knowledge of QA systems and their implementation, as well as engineering drawings and manufacturing processes is required. Should be familiar with procurement processes and have considerable experience dealing with suppliers. The position will be matrixed from the QMO to the ERP; reporting on a daily basis to the ERP Manager, and also reporting on an institutional level to the QMO Manager. Responsibilities include the generation, implementation, and maintenance of QA systems and procedures, including design control, process control, discrepancy reporting, calibration, and receiving inspection. Will specify and enforce supplier quality requirements, perform pre-award surveys and surveillance, and ensure corrective actions as needed. Will also perform internal QA audits and provide support for external audits of the project. Work on environmental restoration projects and the clean-up of toxic and radiological materials a plus. Must be willing to work in the field in a construction environment. Will maintain an effective interface with the Laboratory Quality Management Office. Prior supervisory experience is a plus. Quality Management Office. Apply to Job ID #14810.

**ELECTRICAL PROJECT ENGINEER II (P-7)** - Requires a BS degree in electrical/electronic engineering and a minimum of seven years of experience in analog circuit design and layout, digital logic control, and small chassis design. Familiarity with PLC programming and serial communication, national electrical code and electrical safety practices is preferred. Experience with vacuum instrumentation and controls system and particle accelerator subsystems is a plus but not a requirement. Will do detailed design and fabrication of custom electronics, specification and procurement of commercial vacuum instrumentation, design and layout of electronic chassis, wiring, and racks, and interface to other accelerator subsystems. Responsibilities will include the construction, commissioning, operation, upgrades and maintenance of Relativistic Heavy Ion Collider (RHIC) vacuum instrumentation and control systems. Candidate will also provide work direction for technical staff to accomplish project goals. Must possess excellent written and verbal communication skills and interpersonal skills are required to interact with a diverse group of scientists, engineers, and technical staff. Reports to CAD Vacuum Group Leader. Collider-Accelerator Department. ERAP eligible \$1,000. Apply to Job ID #14807.

**LIAISON-MANUFACTURING RESEARCH ENGINEER II (P-7)** - Assist the Accelerator Systems Division Management in overseeing production and assembly plans, specifications and preliminary design reviews and test systems/equipment upgrades for scope of work. In particular, assistance in the following areas is desired: Participation in engineering design reviews; configuration management activities; evaluation of manufacturing capabilities and technical capabilities of potential suppliers; review and development of production and assembly plans; planning, preparation and tracking of procurements; monitoring of industrial production and development of corrective actions in response to any production problem; development in-house fabrication, test, and assembly facilities; development of inspection and test plans for production hardware; interaction with project controls

group to facilitate progress reports, schedule updates and refinements of work- and staffing plans. Requires a bachelor's degree in an engineering discipline or closely related field of study; minimum of seven years' progressively responsible related work experience required; sound knowledge of current principles and practices in liaison or manufacturing engineering. Qualifications Preferred: Knowledge of management support software tools such as Primavera; familiarity with BNL Safety and ES&H standards; experience working with site services of BNL highly desirable. Proficiency with appropriate software tools. National Synchrotron Light Source II. ERAP eligible: \$1,000. Apply to Job ID #14800.

**POWER SUPPLY DESIGN PROJECT ENGINEER I (P-9, reposting)** - Using expert design and troubleshooting skills, will lead a team to develop, design, implement, and evaluate plans and criteria for a variety of complex and multi-faceted electrical engineering projects for power supplies at the NSLS-II. Will also be asked to implement new or improved engineering techniques, procedures or equipment. Will also direct the work of technicians and designers as needed. Requires BS Degree in Electrical Engineering (MS degree preferred) and a minimum of 10 - 15 years' experience in design and development of complex precision analog and digital control systems. Experience with electronic circuit analysis software and hardware development systems for FPGA and micro-controllers required. Must possess project management skills; excellent interpersonal skills; demonstrated ability to interact with a diverse group of scientific and technical staff and to provide high quality reports and presentations. Must have demonstrated experience overseeing the work of engineers, technicians and others. Preferred requirements include experience in circuit board and small chassis designs; familiarity with high current power supplies and with the design of PLC controls for power systems and instrumentation data acquisition systems. Will report to the Group Leader of the Electrical Engineering Group. National Synchrotron Light Source II. ERAP eligible \$1,000. Apply to Job ID #14723.

**PHYSICS ASSOCIATE II (P-5)** (2-Year term, reposting) - Requires a Master's degree in structural molecular biology, biochemistry or related fields plus a minimum of five years' related work experience. Will participate in the development and operation of biomolecular solution scattering at NSLS. The responsibility of this position is to provide support to inexperienced solution scattering users at the new X9 beamline and to participate in the development of capabilities for high throughput measurements. This high throughput capability will eventually evolve into a mail-in service for solution scattering users. Extensive experience in utilizing x-ray solution scattering to perform structural analysis of biomolecules is required. Interest and experience in liquid handling instrumentation and macromolecular crystallography are a plus. The ability to carry out independent research to explore new methods of making use of solution scattering data is also desired. Reports to the lead scientist for the X9 beamline. National Synchrotron Light Source Department. Apply to Job ID #14431.

**BIOLOGY ASSOCIATE II/PLANT BIOCHEMISTRY (P-5, term appointment)** - Requires a M.Sc. degree in Plant Physiology and Biochemistry (and five years of relevant experience). Demonstrated experience in use of epifluorescence, confocal, differential interference contrast, light and electron microscopes including sample preparation, fixing, embedding, sectioning and staining is essential. Experience in high-throughput lipid mutant screening, map-based cloning, cDNA pyro-sequencing, cosmid library screening, BY2 cell culture and lipid analysis by thin layer chromatography and gas chromatography is a plus. Should also possess standard skills in DNA/RNA extraction, Northern and Southern hybridization, molecular cloning, gel electrophoresis, protein expression and purification and Western Blotting, and be self-motivated and capable of independent thought and research. Prior lab management experience is required. Duties will include culturing and performing molecular genetic experiments using algae and higher plants. Will be responsible for physical biochemical analysis of mutant and transgenic plants and algae to evaluate changes in lipid transport and accumulation. Biology Department. Apply to Job ID #14799.

**DESIGN ENGINEER (MECHANICAL) (T-5)** - Requires an Associate's Degree in Mechanical Technology and Design or equivalent experience. Minimum of eight years' experience with 3D-CAD software designing mechanical components and systems for fabrication. Experience with Pro-E wild-fire and/or AutoCad inventor required. Must have the ability to perform mechanical design functions independently with general direction and review by a mechanical engineer or scientist. Includes knowledge of material properties, component choice, manufacturing/machine shop processes, and dimensioning and tolerances. Must be able to create accurate and detailed 3D system designs as well as mechanical manufacturing drawings to ANSI Y14.5 standards. Work experience with vacuum system components, high voltage/high current systems, RF systems, and cryogenics is highly desirable. Must be able to review and check the work efforts of other design personnel. With engineering support, will design and provide fabrication drawings for components used in particle accelerators such as magnets, power supplies, RF systems, vacuum chambers, and electronic

diagnostics. Collider-Accelerator Department. ERAP eligible: \$1,000. Apply to Job ID #14809.

**APPLICATIONS ANALYST (I-4)** - Requires a BS degree in physics, computer science, or a related field, and a strong interest in working within a scientific research environment. Experience with programming in C++ and Java is required. Experience with UNIX/Linux and X Windows desirable. Candidate must have good problem solving and communications skills, both written and oral. Experience developing user interfaces is also required. Will work with a team of physicists, engineers, and programmers to develop application software used to control the particle accelerator physics facilities at BNL. Collider-Accelerator Department. ERAP eligible: \$1,000.00. Apply to Job ID #14805.

### Motor Vehicles & Supplies

95 CHEV PICKUP - 145K mi. 4x4 8cyl 5spd a/c bed liner, well maint. needs minr repr, \$2,000. 286-3681 or musolino@bnl.gov.

96 DODGE GRD CARAVAN SE - 155K mi. VGcond. well maint, p/w, p/l, 4dr, 6cyl, A/C. \$2,100. Richard, Ext. 7160, 929-8294.

08 HYUNDAI SONATA GLS - 15K mi. grt on gas, well maint, all pwr, plays mp3's & XM, \$11,900. 793-4568 or seda@bnl.gov.

TIRES - 4 Cooper Lifeliner tires, 185/60R14, on Toyota rims, less than 1500 miles on them. Ask \$575. 732-1028.

### Boats & Marine Supplies

17' HOBIE CATAMARAN - w/wings for comf seating, daggerbrds for gd upwind perf, gd cond., trailer. \$2,000 neg. 740-0754.

19' POLAR CENTER CONSOLE - 115 merc 2b stroke salt water ed.; '07 EZ roller trailer, Bob, many extras. Bob, 327-0106.

21' 4 WYNNs CUDDY/TRAILER - '84. 205 Santara. Merc 470 I/O (170 HP, 4 cyl). Fil canv. 2000 Load Rite trlr. \$3,000. Ext. 2599.

23 FT SUNRUNNER 230 SB - Midcabin family-cruiser, full galley aft cabin, enc. head, more. 278-2192, hoogsteden@bnl.gov.

### Furnishings & Appliances

3 VINTAGE GLASS LAMPS - 2 w/painted birds, 1 hurricane w/glass shade & painted pink flowers \$29.99/ea, \$75/all. 591-1390.

ARMOIRE - French Country Style, Honey Alderwood, 39wx78hx19d, \$250. 878-9020.

BEDROOM SET - 1950's contmpry, dresser, chest, 2 nightstds, king headbrd, excel., \$500. 591-1054 or hobson2@bnl.gov.

FRAME - Beautiful, \$60. <http://tinyurl.com/dl9btr>. 646-875-0666.

KITCHEN HUTCH - Solid oak, w/glass drs, excel. cond. ask/\$300/obo, pics avail. upon request. Wendy, Ext. 3924.

OAK ENTERTAINMENT UNIT - holds 32" tv, 51"hx61"wx22"d, 3 A/V componts, storage, \$125. 472-3488 or stelmach@bnl.gov.

PIANO - Hardman upright w/bench - \$500. Needs minor tuning - pick up only C. Moriches. 516-380-1618.

TV, 36" - RCA 36" TV, color, PIP, remote, vg cond, asking \$100. Louis, 732-1028.

WOOD STOVE - Cawley-Lemay #400 - 35.5"h x18"wx36"d, 300lbs, fire bx= 13.3"h x 10.5"wx20"d, upickup \$200. Ext. 2490.

### Audio, Video & Computers

52 - Model # WD52725. DLP. 1080i res. 4 yrs. old, HDMI port, rem, mnu. u-pic-up, \$400. Steve, Ext. 7268, perlstien@bnl.gov.

CF CARD - 4GB Sandisk Extreme III 4GB 30MB/s 200x CompactFlash Card. New. \$20. Min, Ext. 2508.

IMAC COMPUTER - Blue all-in-one, OS 10.3, wi-fi card, 500 MHz G3 Proc, MS Off, more, KBD, mouse. \$300. 821-3320.

LOCATION FREE BASE STATN - Sony LF-B10, \$70. 4GB Sandisk Extrme III 20MB/s 133x SDHC Crd. \$20. Min, Ext. 2508.

WEBCAM - for windows, \$25; PC gaming headset, \$20; Cannon all-n-1 printer, \$60, all new. Zhening, Ext. 2787.

### Sports, Hobbies & Pets

FISH TANK - & access., 29 gal. w/stdn, hood, light, heatr, fltrs, air pmp, misc.chems, hoses, just + H2O+fish, \$30. Lee, Ext. 6306.

HUTCH FISH AQUARIUM - new Cherry based, 24" glass tank; cabint 24"x17"x12" w/blck screen lid. \$150. Sue, Ext. 4931.

NIKON F/2.8 ZOOM SPORTS LENS - 80-200 ED f/2.8 lens, 5yr warr. w/case/caps/paperwork, was \$1200 sell/\$799. 219-1660.

### Tools, House & Garden

SET - pipe wrenches & lg tubing cutting, 10 pcs, 8" to 36", \$75/obo, 2 old hand saws, 1/antique 2-man saw, \$25/both. 327-0106.

### Miscellaneous

CAT ACCESSORIES - Omega paw self-clean litter box \$7; lg scratcher \$4; sleeping box \$6, more, pic avail. Yong, Ext. 7022.

CLUBHOUSE - Little Tykes 2 story w/ slide, all plastic, v/gd. cond., accessories can be added, \$75. Lloyd, Ext. 5225.

IN-GROUND-POOL LADDER - brand new, unused, ask/\$100. Richard, Ext. 4520.

MOTORS, DOLLY - Hvy duty steel wheel dolly, \$15; 3 110v elm. motors, 1 phase 110v 60 cycle, 1725 rpm, 1/3 hp 6.2 A & 1/4 HP 4.6 A, \$25/all. 327-0106.

SUNLINE TRAILER - '96, 24', 5 new tires/mattress, elec. jack, all incl., sleeps 4, out-dr. Ned, 924-5187, mabe324@yahoo.com.

TROMBONE - student model Maestro, why rent? only \$50, gd. cond. Ext. 5257.

### Happenings

AUCTION - Fri., 4/24, 7pm Holy Angels Regnl Sch, Patchogue's Auction at St. Francis Cabrini, 134 Midl Cntry Road, Coram. Admissn: \$10 pp, incls. 50 raffle tickets. Cash Raffle ...1 Prize \$500. 516-903-2636.

### Free

BUNNY - 2 y/o, male, beautiful pure white, sweet personality. Toni, Ext. 5257.

UNIVERSAL GYM - Pacific Fitness Malibu home gym, single stack wght system up to 250 pnds. pics on request. Leah, Ext. 3536.

### Wanted

VIDEOGRAPHER FOR WEDDING - wanted for wedding on May 16. Louis, 732-1028.

### Lost & Found

IPOD NANO - lost, silver. Jorge, Ext. 5126 or romero@bnl.gov.

### For Rent

EAST PATCHOGUE - 1 bdrm., 1/2r kit. combo, priv. ent., waterview, no smkg/pets, very nice, quiet area, price incl. all. \$950/mo. Janet, 758-1919.

MASTIC - 1 bdrm, full bath, kit, den, own drway/ent, for 1 person, no smkg/pets, 10 min to Lab, 1 mo. sec. \$850/mo. joe mondi, Ext. 3499, 219-7241.

MASTIC BEACH - 1 bdrm apt, full bath, 1/2r, kit., priv. ent. & drway, no smkg/pets, all incl. except cable, sec/refs req. \$950/mo. 281-4559.

MEDFORD - Condo, newly decorated, 1/2br,1/bath fully furn., pool, gym, golf, close to Lab. avail. June 1 plus util. \$1,350/mo. Gary, 338-5412 or gpolonsk@bnl.gov.

MEDORD - 1 bdrm bsmt. apt, full bath, priv ent, clean, bright, no smkg/pets. incls all 1 mo. sec. 15 min. to Lab. \$900/mo. 758-3723.

PORT JEFFERSON ST. - Studio apt, lg, pvt ent, kit, d/r, v/ clean, incl all, nr. all. \$650/mo. Sucheta Diwan, Ext. 3327, 828-6677.

PORT JEFFERSON ST - 3 bdrm, 1 bath, kit, d/r, 1/2r, lg priv. yd, 2 car gar., new appli., v/clean, close to all, no smkg, \$1,600/mo. Sucheta Diwan, Ext. 3327, 828-6677.

RIDGE - Cottage, all new, mins to Lab, 1br, full kitch, LR w/gas fpl, sep. dr/way & yard, no pets, adults only, all included. \$1,000/mo. Ext. 5165, 516-818-7388.

ROCKY POINT - 1 bdrm house, 1/2 bsmt, oil heat, no smkg/pets. \$1,100/mo. 744-8919.

SHIRLEY - lg bright 1-br bsmt apt, sep ent, nr beach/parks/hwys/LIRR, 1 mo rent + 1 sec, no smkg/pets, suitable for one. \$725/mo. Ext. 3846.

SHOREHAM - Share house w/professional, part furn. bdrms, 7 mi. to BNL, int/tv, all incl., no smkg/pets, single pref, 518-380-2650/cell. \$650/mo. 744-3543.

SOUTHAMPTON - 3 bdrm, 3 ba, new constr, single fam setg Indscape & maint inc., no smokg/pets, Refs reqd. Pics available. \$2,500/mo. Doug, 902-2338.

WADING RIVER - Studio apt, grnd flr, pvt ent & prkg; par furn.; kit/bath; cent, a/c; incl util. & cable. No smkg/pets. Suit for single. Sec dep, refs req. \$750/mo. 774-8261.

### For Sale

BROOKHAVEN - 3br, 2.5 ba, 2car gar, cust., wtrfront pro. Col., 1 acre, cul-d-sc, nat. prserve, atch office w/waitg rm., view, backyd. dock. \$589,000. 286-4584.

NEW YORK, NY - Three of three properties for sale: Manhattan Club <http://tiny.cc/dusDY>. \$10,000. Ext. 5322.

PORT JEFFERSON ST, - 4 bdrm 1.5 bath Col in 3Village SD, gar., fen., 1/3 acre, gas heat, c/a, igp, igs, f/p, sunrm, jacuzzi, make offer. \$400,000 neg. Ext. 2159, 834-8255.

SHOREHAM - Ranch, newly renov, 3 bdrms, bath, 1/2r, den, kitch/granite counters, ss applis, gar, large yard, family n'hood, SWRSD. \$350,000 neg. 258-4607.

SHOREHAM - 4 bdrm., 2.5 bath Col., fmlr 1/2r, d/r, den w/fp, fin. bsmt, 12x20 deck, igs, new gmt cnters, SWRSD, more, 7 mi to Lab. \$499,000. 821-3320 or dlynch@bnl.gov.

WESTHAMPTON BEACH - Turnkey mobile home, shed, deck, treed lot, 2 mi from Dune Rd & ocean beaches, 1/2 hr. from BNL. \$45,000 neg. Marty, 874-3478.

TAMPA, FL - Mobile home, 2BR, 2bath, living rm, kitchen & dining area. Excel. condition. \$8,500 neg. 813-735-1215.

POIPU, HI - Properties for sale in Diamond Resort at Poipu Point, EOY View at 2 links: Odd <http://tiny.cc/TJknr>. \$9,000.; Even <http://tinyurl.com/c7kztx>. \$9,000. Ext. 5322.

### On-Site Services

ENTERPRISE CAR RENTAL - Bldg. 400 lobby. Cars, pick-ups, vans available for short or long rental. Discounted rates for BNLers. Ext. 4888.

UPTON SERVICE STATION - In addition to filling up with gas, you may have your vehicle inspected, your battery checked or oil changed. A full range of repairs is available, all while you are at work. Ext. 4034.