

New DOE Grant for Catalysis Research at the NSLS

The Division of Chemical Sciences, Geosciences, & Biosciences in DOE's Office of Basic Energy Sciences has recently awarded a \$900,000 grant to a group of scientists to create dedicated facilities for catalysis research at BNL's National Synchrotron Light Source (NSLS) beam lines X18B and X19A. The two facilities will be operated by the Synchrotron Catalysis Consortium, charged with improving and expanding catalysis research,

using the NSLS's unique investigation tools.

Catalysis is a major area of research in the United States because it is so important to the nation's industry, especially the chemical and petroleum industries. Estimated to be involved in 90 percent of all chemical processes and in the creation of 60 percent of the chemical products on the market, catalysis is also becoming more important to environmental protection, pharmaceuticals and bioengineering,

and fuel-cell development.

The consortium's main investigative tool will be x-ray absorption fine-structure (XAFS) spectroscopy, in which scientists measure how a material absorbs x-rays to learn about that material's molecular structure and electronic behavior.

"XAFS is well-suited to studying catalysis, and can often yield more in-depth information on a material's structural, electronic, and catalytic properties than more widely used techniques,"

said Anatoly Frenkel of Yeshiva University, one of the consortium's principal investigators. "We hope to help make more scientists aware of the advantages of using synchrotron radiation in general, and XAFS in particular, and provide support for scientists who wish to start catalysis experiments at the NSLS."

The two other principal investigators are Jingguang Chen of the University of Delaware and Radoslav Adzic of BNL's Chemistry Department. Chen said, "Synchrotron techniques are currently under utilized or unexplored by the catalysis community due to various perceived and real barriers. The primary purpose of the consortium is to promote the utiliza-

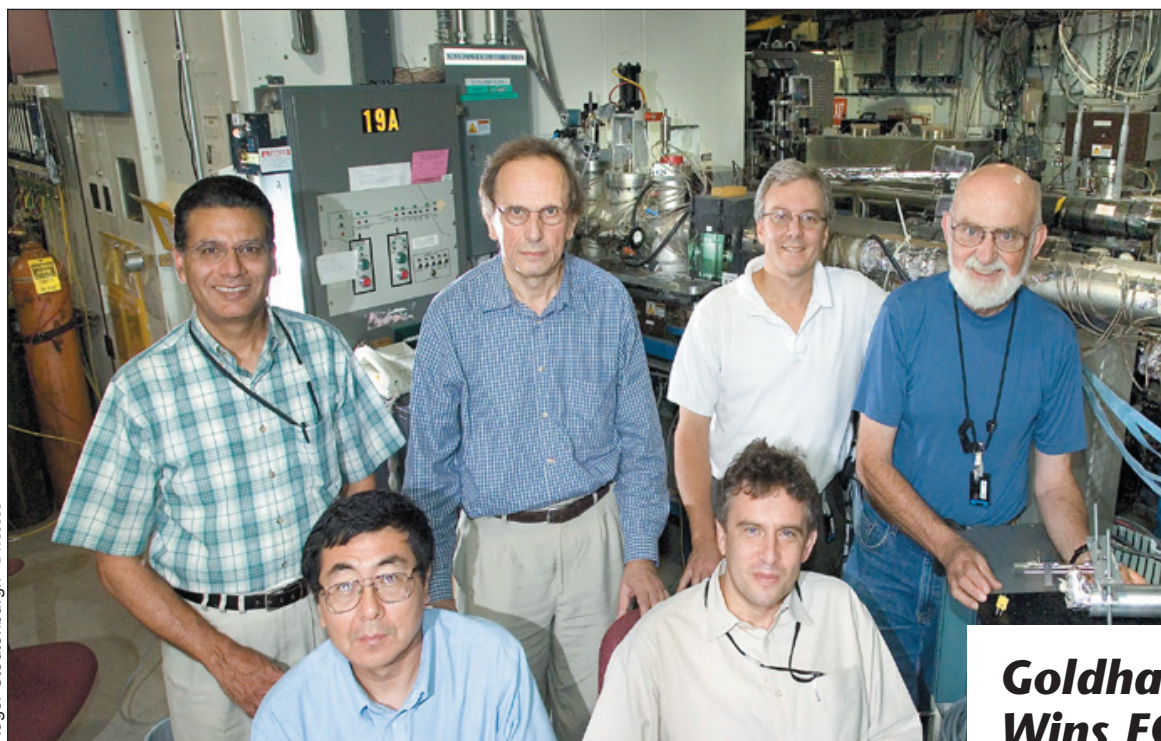
tion of synchrotron techniques to perform cutting-edge catalytic research under *in-situ* conditions."

Said Adzic, "This consortium is expected to have a particularly strong impact on the research and development of fuel-cell electrocatalysts. Capabilities for *in situ* characterization of electrocatalysts in a fuel-cell environment under various conditions will be provided by adequate cell designs."

The consortium's co-principal investigators are: Chi-Chang Kao and Steve Hulbert, NSLS; Jan Hrbek, Jose Rodriguez, and Jonathan Hanson, BNL's Chemistry; David Mullins and Steve Overbury, Oak Ridge National

(continued on page 2)

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Roger Stoutenburg D1100905

Some key members of the Synchrotron Catalysis Consortium are: (front, from left) principal investigators Jingguang Chen and Anatoly Frenkel; (back, from left) NSLS scientist Syed Khalid, who runs beam line X18B; and co-principal investigators Radoslav Adzic, Steve Hulbert, and Jonathan Hanson. Not pictured: Chi-Chang Kao, Jan Hrbek, Jose

Goldhaber Fellow Dev Chidambaram Wins ECS Award for Corrosion Work

Dev Chidambaram, a Goldhaber Fellow in the Environmental Sciences Department, was recently honored with the 2005 Morris Cohen Award by The Electrochemical Society (ECS).

The award recognizes outstanding graduate research in the field of corrosion science. Chidambaram's graduate advisors were Clive Clayton and Gary Halada from the Materials Science Department at Stony Brook University (SBU). Chidambaram earned SBU masters' degrees in both materials science and biomedical engineering and a Ph.D. in materials science and engineering. He was selected on the strength of his dissertation on determining the mechanism of protection offered by chromate conversion

coatings.

"Any structural aluminum, like those used in aircraft and automobiles, corrodes and pits," he said. "A chromate coating currently in use prevents corrosion, but since chromate has been found to be a carcinogen posing serious environmental and health risk problems and is being banned from use, the Air Force has been searching for a replacement."

"Our work has shown that molybdenum may be a viable replacement, exhibiting even better protection properties," he said.

Chidambaram has extensively used the National Synchrotron Light Source (NSLS) to understand how chromate helps to protect metal from corrosion.

Some of his key findings were possible only due to the use of the NSLS, he said.

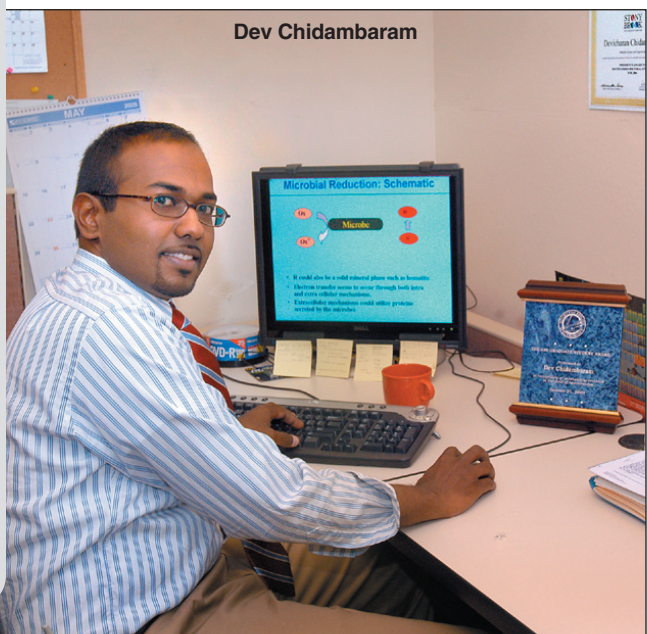
Having won awards for his doctoral work from both the Society for Applied Spectroscopy and the American Vacuum Society, Chidambaram enjoys interdisciplinary research. He specializes in electrochemistry and received a B.Tech in the field from the Central Electrochemical Research Institute in Southern India in 1998.

"Anything that transfers electrons is electrochemistry," he said. "That includes everything from batteries and fuel cells to paints and electroplating."

Collaborating with his mentor, A.J. Francis, ESD, Chidambaram has been investigating the fundamental nature of electron transfer reactions in biomolecules and those mediated by microorganisms and their application in stabilizing toxic metals and radionuclides.

"We are using electrochemical techniques to study microbial stabilization of actinides and other contaminants," he said. "These same techniques can also be applied to biofuel cells or biosensors, which can be used to detect a chemical or biological attack."

Chidambaram will travel to Los Angeles in October to give a talk



Joseph Rubino D3640505

BSA Distinguished Lecture, 11/10 John S. Rigden to Talk on Einstein: The Standard of Greatness

In honor of the World Year of Physics 2005 — a United Nations-endorsed international celebration of physics — physicist John S. Rigden, author of *Einstein 1905: The Standard of Greatness* (Harvard University Press, 2005) will give a talk in Berkner Hall on Thursday, November 10, at 4 p.m. Sponsored by Brookhaven Science Associates, the company that manages BNL, Rigden's talk, which has the same title as his book about Einstein, is free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

A century ago, Albert Einstein, a 26-year-old clerk working in a patent office, published five papers in six months that laid the groundwork for modern physics. One paper, on the nature of light, made him the father of quantum physics. In addition, Einstein demonstrated the reality of atoms, established the dimensions of atoms, put the laws of thermodynamics on a new footing, established the validity of the kinetic theory, enhanced the significance of the speed of light, and purged the basic concepts of space, time, mass, and energy of profound fallacies.

These accomplishments, says Rigden, qualified Einstein as one of the



greatest physicists, but the Einstein mystique cannot be explained in terms of what he did. Einstein is the standard of greatness for deeper reasons, which Rigden will discuss in his talk.

John Riden, currently an honorary professor of physics at Washington University in St. Louis, received a B.S. from Eastern Nazarene College and a Ph.D. from Johns Hopkins University, and

was a postdoctoral fellow at Harvard University. After holding several academic positions, he joined the American Institute of Physics in 1987 as director of physics programs.

Ridgen is a molecular physicist as well as a science historian. He wrote *Physics and the Sound of Music*; *Rabi: Scientist and Citizen*; and *Hydrogen: The Essential Element*, in addition to his recently published book on Einstein. His book on hydrogen was named one of the 20 best science books of 2002 by the magazine *Discover*. Ridgen has also edited academic as well as popular science books and is currently editor of the scholarly journal *Physics in Perspective*. He is a Fellow of both the American Association for the Advancement of Science and the American Physical Society.

— Diane Greenberg

CALENDAR

OF LABORATORY EVENTS

- The BERA Store, located in Berkner Hall, is open weekdays, 9 a.m.-3 p.m. For 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 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events.
- 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, 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. 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/toastmasters/default.htm.

Tues., Wed. & Thurs: Rec Hall Activities

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

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. 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/pers./6-weeks. Brookhaven Center, N. Ballroom. Beginner merengue, 6 p.m., adv. foxtrot, 7 p.m. Instructor: Giny Rae. John Millener, Ext. 3853; 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. 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.

— THIS WEEKEND —

Friday, 10/28

***Halloween Costume Dance Party**
7 p.m. Brookhaven Center. Sponsored by BERA Social & Cultural Club. See page 4.

Sunday, 10/30

*Children's Halloween Party

5 p.m. Rec. Hall in apt. area. Hospitality Committee sponsors costume party for trick-or-treating. All welcome. See page 4, bottom left.

National Business & Disability Council Honors Roy Lebel

Roy Lebel, BNL's Environment, Safety, Health & Quality Directorate Manager, received the 2005 Manager of the Year Award from the National Business & Disability Council (NBDC). Lebel received the award at the annual Awards of Honor reception, held in Chicago on October 6.

The mission of the NBDC, which was established in 1980, is to be the leading source for employers seeking to integrate people with disabilities into the workplace with the goal that everyone will be treated with equity and respect.

Stasia Scocca, an employee with a disability who works for Lebel, nominated him for the award. According to Scocca, Lebel has been a true advocate by breaking down barriers, allowing her to become an essential member of his team. In addition, she states, Lebel demonstrates his commitment by actively participating in many



At the National Business & Disability Council's 2005 Awards of Honor reception in Chicago are: (from left) Michael Paquette, American Disabilities Act Committee; Sol Rosario, BNL Diversity Office; honoree Roy

activities for the disabled, including mentoring and participating in Disability Awareness Month committees and events.

"It is a life's honor to receive this award," said Lebel. "This is only the beginning. We on Long Island have a long way to go in understanding all people and utilizing all the talents available to us.

Getting to work with and know Stasia has been a wonderful experience for me, for those on my staff, and for the entire Lab community. She is a hard-working, remarkable woman who has overcome her disability with courage and grace. She is a key member of our team, and she is the true honoree."

— Jane Koropsak

Human Resources, Budget Issues: Topics of Brown-Bag Session, 11/1

All employees are invited to attend a brown-bag informational session on benefit and budget issues, on Tuesday, November 1, from 12-1 p.m. in the Hamilton Seminar Room in Chemistry (Bldg. 555). Since this year's open enrollment period during which employees may choose to change their health insurance carrier runs through November 10, it is hoped that the session will be extra useful at this time. The event will also be webcast and archived on WBNL for those unable to attend, and live questions will be taken online (e-mail questions to pubaf@bnl.gov during the event).

New DOE Catalysis Grant at NSLS (cont'd)

The grant will fund new hardware additions and changes at X18B and X19A, allowing scientists to study chemical transformations in catalytic materials over a wide range of energies in real time and at realistic operation conditions. Examples of new devices that will benefit the catalysis-research community are state-of-the-art reactor cells, gas-handling equipment, and detectors. The upgrades will also include the latest advances in beam-line instrumentation. All these changes will provide new experimental opportunities for scientists interested in catalysis.

In addition, the grant includes funds to hire a beam-line

staff to run the new facility and provide support for visiting research groups. The budget also includes funds for travel, which will help new user scientists start synchrotron research programs as well as attend catalysis workshops and training courses.

Most components at X18B and X19A will be in place by April 2006. Catalysis users are now being contacted with invitations to start their research program at the NSLS, and the first users will start experiments in February 2006. The grant covers a time span of three years. For more information, visit the consortium's website, www.yu.edu/scc.

— Laura Mgrdichian

2006 BSA Scholarship Deadline, 11/15

Applications for 2006 BSA Scholarships may now be obtained from the Human Resources Division, Bldg. 185. The application deadline is November 15.

Applicants must be secondary school seniors who will be graduated during the current academic year and entering college by fall 2006. To qualify, applicants must be: children of BNL employees who began regular, full-time, or regular, eligible part-time employment no later than November 15 of this year, and who are employed by BNL at the time the award is announced; or children of retired employees or employees who died while in regular service at the Lab. Stepchildren are eligible if the employee regularly claims the child as a dependent for income-tax purposes, or if the stepchild has resided in the employee's household for the previous two years before making the application.

All scholarships are awarded competitively and are renewable for up to a total of four years of study toward an academic degree. Selection is made by an independent committee appointed by Scholarship and Recognition Programs in Princeton, NJ. Thirteen scholarships will be awarded without regard to ethnicity. Two additional scholarships will be awarded to under-represented minorities (Black, Hispanic, or Native American) achieving the requirements established for these scholarships.

For more information, call Bonnie Hulse, Ext. 2885.

Fidelity Investment Counseling, 11/22

A Fidelity Investment representative will be at the Lab on Tuesday, November 22, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

Take5, BNL's Monthly Video, Celebrates First Anniversary

One year ago, in October 2004, the Lab community was invited to watch "Take5" — a monthly video featuring a mix of short takes on Lab science and happenings around the site including an unexpectedly humorous and informative look at serious safety concerns.

Take5 is the creation of Lab videographer Alex Reben of the Community, Education, Government, and Public Affairs Directorate. Reben gets ideas from his and others' knowledge of current and historic Lab affairs and then adds his own creative touch.

If you go to the WBNL web page, you can view the first Take5, which included BNL research on deriving crude oil from plants rather than from fossil fuels; students' work on preserving rare species in the Upton Wildlife Refuge, and advice on proper lifting technique, sugar-coated in the vision of a BNL worker who struggles to pick up a sheet of paper while motivated by play-by-play commentary borrowed from an Olympic weight lifting competition. You will also find the most recent Take5, which focuses on the ground-breaking for the Center for Functional Nanomaterials, money-saving ideas on ride-sharing, and why it is a good reason to plan ahead before starting to drill through a wall — a story that ends with a twist that would do credit to the late "spooky" satirist Charles Adams, creator of the Adams Family. The months between provide many other Lab goings-on-about-town worth viewing.

Says Reben, "I am always looking for interesting Take5 material, so contact me with your ideas at reben@bnl.gov or Ext. 3680."

The video footage produced for Take5 has been used by television stations, BNL researchers, and the local community, and has been on view at DOE headquarters in Washington, D.C.

To see Take 5, if you have missed it so far, go to www.bnl.gov/video. The November Take5 will be coming to your



Joseph Rubino CNE-12401

One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Wednesday, November 23; Tuesday, November 29; and Wednesday, November 30, to answer employees' questions about financial matters, such as the importance of protecting assets against inflation, finding the right allocation mix, learning about TIAA-CREF retirement income flexibility, and comparing lifetime income vs. cash withdrawal options. For an appointment, call Kathy Murphy, (866) 842-2053, Ext.

Change Clocks Back This Weekend Change smoke, CO detector batteries too

Daylight-saving time ends this weekend at 2 a.m. on Sunday, October 30: clocks should be turned back one hour. And, while you remember, why not also check your smoke-detector and carbon-monoxide detector batteries to be ready for the cold weather.

BNL Water Wins Healthfest Taste-Test



Joseph Rubino D1081005

For the first time in the six years that the BNL Drinking Water Quality Committee has been offering water tasting at the annual Healthfest fair, BNL's drinking water has won the blind taste-test.

This year, 70 visitors to the Drinking Water Quality Booth decided the fate of four "brands" of water in the annual water-taste contest, which was held on Wednesday, October 19.

BNL's water (sample B) was voted No. 1, by earning 173 points. Placing second was water from the Riverhead Water District (sample C), with 165 points. Tied for last place with 158 points each were Shelter Island water (sample A) and Nature's Best (sample D), which is the bottled water distributed on site, but is actually Suffolk County Water Authority tap water treated and bottled by Culligan of Commack.

Once again, BNL water received the most last-place ballots; but, this year, what made the difference is that it also earned the most first-place endorsements, plus many votes in between.

What made this difference possible, according to Water Treatment Engineer Phil Pizzo, is the faucet from which the BNL water was drawn this year: a Cafeteria kitchen sink. Why did this make a difference? "Because of the nature of the Cafeteria's operation, they run their water morning through afternoon," says Pizzo, thereby eliminating "rusty" water that might affect taste.

Water that enters BNL's distribution system is virtually free of iron for one of two reasons: either because it comes from one of the three BNL drinking-water wells that produces water naturally low in iron, or because, if it comes from one of the three high-iron wells, the water is treated in a ten-step process to remove iron at the Water Treatment Plant.

While being delivered around site via 45 miles of underground water mains, however, BNL water can and does pick up insoluble iron. It is deposited in BNL's water-distribution system as a result of the oxidation of the cast-iron and ductile-iron mains. Depending upon where a building is located along the water-distribution system, "rusty" water can be more or less of a problem. Over the last several years, the Plant Engineering Division has been systematically addressing the issue by flushing the mains over a week each spring, summer, and fall (see notice below). — Marsha Belford

Water Mains to Be Flushed Next Week, 10/31-11/4

To improve the quality of BNL water delivered to the consumer's tap by eliminating "rusty" water, PE's Water Treatment Engineers will be flushing the Lab's water mains from Monday, October 31, through Friday, November 4.

Fall hydrant-flush schedule:

- Mon., 10/31: Rutherford Drive, Lawrence Drive, and south of Bldg. 490
- Tues., 11/1: Upton Road through the apartment area
- Wed., 11/2: Cornell Avenue and its cross streets
- Thurs., 11/3: Brookhaven Avenue east to the Upton Forecast Office and west to Bldg. 51
- Fri., 11/4: Bell Avenue

Before drinking or using water during and after water-main flushing, run the water in your sink, fountain, or shower. You may have to run the water for 5 to 10 minutes until it runs clear. If a "rusty" water problem persists beyond the hydrant-flushing schedule, then call the Maintenance Management Office, Ext. 2468.

So that discolored water is not used for washing clothes, the on-site laundries will close at 8 a.m. on Tuesday, November 1, and reopen on Wednesday, November 2, at 10 a.m.

Teen-Parent Communication Workshop, 11/3

Join John Quinlan of the Cornell University Cooperative Extension on Thursday, November 3, noon-1 p.m. in Berkner Hall, Room B, where he will present "Teen-Parent Communication: What Works and What Doesn't," a communication workshop designed to build a more supportive relationship. Preregistration is required for this talk. Check your mailbox for registration forms. For more information, contact Michael Thorn, Ext. 8612.

Wanted: BNL Art and Crafts for Fall Show

BNL artists, photographers, sculptors, and crafters — your most beautiful, eye-catching work is needed for the BNL Art Society's upcoming Art and Crafts Exhibit to be held at Berkner Hall from Monday to Wednesday, November 21-23, 11:45 a.m. -1:30 p.m. An evening reception with refreshments will also be held on Monday, November 21, 5 - 7 p.m.

BNL employees, retirees, facility users, guests of BNL, and family members 15 years and older, may all contribute. More than one piece may be entered by an exhibitor, to be shown as space permits.

Exhibits for the show must be delivered to Room C, Berkner Hall, between 2 to 4 p.m. on Friday, November 18, and collected on Wednesday, November 23, between 1:30 to 3 p.m. You may have a friend deliver and/or collect, but be sure the friend is reliable.

To be included in the catalog, send your name, phone number, your exhibit's title (if there is a title), the type of work (photograph, painting, etc.), and a short description (medium, material, size, etc.) to Liz Seubert, Bldg. 134, or e-mail the information to lseubert@bnl.gov by Monday, November 14.



BSA Noon Recital: Cello Quartet, 11/2

The Rastrelli Cello Quartet will give a concert on Wednesday, November 2, at noon in Berkner Hall. Founded in Stuttgart, Germany, in 2002, the Quartet plays a variety of music — including classical, pop, and jazz — that expands the cello's sound. The quartet's artists hold an impressive collection of international competition prizes among them. Sponsored by Brookhaven Science Associates, the company that manages BNL, noon concerts are free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.



Roger Stoutenburgh D0480905

Former Astronaut 'Doc' Graveline To Talk on Space Radiation Effects , 11/1

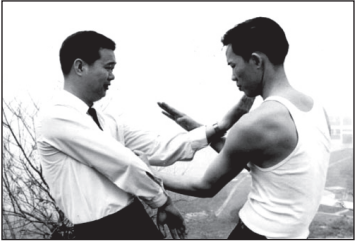
Duane "Doc" Graveline, a former astronaut who received international recognition for his research on the effects of zero gravity on the human body, will speak about some of the medical effects of space flight at BNL on Tuesday, November 1, at 1:30 p.m. The public talk, entitled "Retinal Flashes and Return to the Moon," will be held in the Medical Department's conference room.

Because today's astronauts are spending more time in space, NASA works with BNL and others to learn about possible risks to humans exposed to space radiation. To study the radiobiological effects using beams that simulate the cosmic rays found in space, a new, \$34-million NASA Space Radiation Laboratory has been established at BNL.

Visitors to the Lab ages 16 and over must bring a photo ID.

Ving Tsun Kung Fu Demonstration, 11/10

Master William Moy, Head of the Moy Yat Family of Ving Tsun Kung Fu and a Master of Ving Tsun, will give a demonstration of this traditional art as taught in China, with some of his students, in Berkner Hall on Thursday, November 10, noon-1 p.m. All are welcome to attend this free event. If there is enough interest among members of the BNL community for a new BERA club to be formed, Master Moy is willing to teach Ving Tsun on site to all interested, for a reasonable tuition. For more information, contact Scott Bradley of the Information Technology Division, bradley@bnl.gov.



Defensive Driving Course 12/10

A six-hour defensive driving course is scheduled for Saturday, December 10, in Berkner Hall, Room B, 9 a.m.-3:30 p.m. The course is open to BNL, BSA and DOE employees; BNL facility-users; and their families, at \$30 per person. To register, send a check made payable to NYSTA to: NYSTA, c/o Don Kelley, P.O. Box 185, Selden, NY 11784.

Write the course date on the check and include your phone number in case you need to be contacted. For more information, contact Sarah Wiley, Ext. 4207.

X-Rays at OMC

The Occupational Medicine Clinic (OMC) regrets that it can no longer perform x-ray examinations ordered by an employee's personal physician. Due to the small volume of x-rays requested, and new regulations concerning the way that x-ray readings must be reported, it is no longer practical to provide this service in a timely fashion at the Lab. Instead, OMC will be pleased to help employees find a convenient x-ray facility off site, if they do not know of one. X-rays ordered by OMC physicians and by the OMC Nurse Practitioner will continue to be performed on site.

Arrivals & Departures

— Arrivals —	
Jo Anna Black.....	PPM
John Gottlieb	Plant Eng.
Anne Sickles.....	Physics
— Departures —	
Firas Barazi	ES&T

On-Site Service Station Tip of the Month

Several BNLers have received traffic tickets for not having current New York State (NYS) motor vehicle inspections, reports the on-site service station, where inspections are done while vehicle-owners are at work. Call Ext. 4034 to schedule an inspection, preferably well before the expiration date.

CALENDAR (continued)

— WEEK OF 10/31 —

Monday, 10/31



Tuesday, 11/1

Costco Wholesale Club Demo
9 a.m.-3 p.m., Berkner Hall. Representatives will present BNLers with discounts, coupons, and special membership rates. For more information, contact Joann, 982-2070.

***Talk on Space Radiation**
1:30 p.m. Conference Room, Bldg. 490. Former astronaut Graveline talks on space radiation effects. See notice, left.

Wednesday, 11/2

***BSA Noon Recital — Cello Quartet**
Noon. Berkner Hall. Rastrelli Cello Quartet. See above, left.

Friday, 11/4

Blues, Rock Concert
8 p.m. Prof. "Louie" & the Crowmatix, with the Lone Sharks band to open. Tickets: \$15 in advance, \$20 at door. Sponsored by the BNL Music Club. See notice, page 4.

— WEEK OF 11/7 —

Tuesday, 11/8

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

Thursday, 11/10

Free Prostate Cancer Screening
Pre-registration is required for this service, which includes a PSA blood test and a digital rectal examination, offered 2-4 p.m. on 11/10 in the Occupational Medicine Clinic. Call 1-800-862-2215 to register. For information, contact Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

***Talk on Einstein's Discoveries**
4 p.m. Berkner Hall. BSA Distinguished Lecture by John Rigden, Washington University, on "Einstein 1905: The Standard of Greatness." All are welcome to this free lecture. See page 1.

Friday, 11/11

Veterans' Day — Lab Closed
The Lab will be closed in honor of Veterans' Day. No Bulletin will be issued this week.

— WEEK OF 11/14 —

Tuesday, 11/15

Free Lecture on Menopause
Noon, Berkner Hall, Room B.

Wednesday, 11/16

Brookhaven Lecture
4 p.m. Berkner Hall. Peter Johnson, Physics Department, will talk on "One Hundred years of Photoemission From Albert Einstein to the Quantum World." All are welcome.

Pilates Classes, 11/7

Pilates classes will start at noon on Monday, November 7. Call Christine Carter, Ext. 5090.

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

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

LABORATORY RECRUITMENT – Opportunities for Laboratory employees.

TB3613. SR. OFFICE SERVICES ASSISTANT (CW-3, term appointment) - Requires several years' relevant work experience, excellent interpersonal skills, a working knowledge of Microsoft Word, Excel, PowerPoint, and Outlook Publisher, and the ability to multi-task and meet deadlines. Must be able to obtain and maintain a DOE Q-clearance. Duties include routine and non-routine tasks with responsibilities that include, but are not limited to, issuing identification badges and vehicle stickers, and processing security clearances. Will be responsible for a variety of complex clerical assignments for the Personnel Security and badging function and will interact with DOE offices on and off site. Safeguards & Security Division.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK3424. – CFN DEPUTY DIRECTOR FOR OUTREACH AND OPERATIONS (M-3) –The Center for Functional Nanomaterials (CFN) is a science-based user facility supported by the Office of Science of DOE to accelerate the scientific understanding and creation of nanomaterials in support of the DOE missions. Key to the success of the CFN will be the strong integration of the science and user activities, as well as efficient communication between the CFN, partner universities, educational and scientific institutions and the general public. The CFN Deputy Director (CFN-DD) will be a key member of the management team to achieve our mission. The CFN-DD will be responsible for developing and leading outreach activities for the CFN. This will include: being the spokesperson for the CFN at a variety of external venues, conferences, workshops and technical meetings; oversight of public information on nanoscience in the form of posters, brochures, booklets, video, etc.; oversight of the CFN User activities and the internal CFN operations within the department and across BNL organizations; working closely with the CFN Director and theme and facility leaders to develop, implement, and facilitate strategic plans. As appropriate, the CFN-DD will represent the CFN at meetings with other nanoscience institutions, domestic and international, as well as interface with local, state and federal governmental representatives. The CFN-DD reports directly to the CFN Director. This position requires a strong research background in nanoscience, outstanding communication (written and verbal) skills, exceptional organizational skills and a team-oriented work approach. Center for Functional Nanomaterials.

Motor Vehicles & Supplies

04 CHEVY TAHOE Z71 - Fully loaded, all pwr., excel. cond., 2 TV/DVD's, too much to list. 20K mi. \$29,500. 767-2380.

04 CROSSROADS CRUISER - 30' trailer, dbl. slide, qu. br. bath, bunks, storage, excel. Used 5 times only. \$21,500/neg. 924-0139.

03 FORD F150 XLT - V8, orig. owner, 6 cd changer, immaculate,. 9000 mi. \$26,500. Mike, 325-0447 after 5 p.m.

01 CHRYSLER SEBRING COUPE LXI - a/t, a/c, p/s, p/w, p/l, LoJack, s/rf., excel., all serv. recs. 115K mi. \$8,900/neg. 363-6940.

01 TOYOTA CAMRY - V6 XLE coltr.'s ed., 100K ext. warr., lthr., 6-cd, extras, must sell. 83K mi. \$8,995/neg. 549-6037 leave msg.

99 FORD EXPLORER - 2 dr., sport 4x4, leather, all pwr., moonroof, tow pkg., hitch, v. clean. 68K mi. \$7,000. 744-4611.

98 HONDA CIVIC EX COUPE - black, 2 dr., new tires & batt., s/rf., all pwr., excel., must sell. 84K mi. \$5,600/neg. Ext. 4705.

98 TOYOTA SIENNA - am/fm/cd, p/l, p/s, p/w, c/c, sec. alarm, new brks., abs, capt. chrs., \$6,300/neg. Ext. 2774 or 369-3098.

97 JEEP GRAND CHEROKEE LAREDO - 4X4, loaded, black, well maint., excel. cond., 112K mi. \$6,000/neg. Artie, Ext. 5937.

97 FORD ESCORT LX - 4dr sedan, a/t, great gas mileage & condition. \$2,000 obo. Karen, 917-513-2729.

97 FORD MUSTANG - a/t, V6, convt, a/c, p/s, p/w, p/l, am/fm, must sell. 97K mi. \$3,499/neg. Jerome, Ext. 3852 or 646-541-9918.

96 SUZUKI DIRTBIKE - RM 125cc, runs v. well. \$1,700/neg. 831-0851.

95 GMC YUKON SLE - 4x4, orig. owner, immac., well maint., hwy. mi., upgrades, lthr., cd., etc. 150K mi. \$4,500. 874-9073.

94 TOYOTA COROLLA - 30-35 MPG, v. gd. cond., no dents. 123K mi. \$1,900. 286-1169.

93 FORD TEMPO - . 131K mi. \$800/neg. William, Ext. 3859.

92 FORD EXPLORER - Eddie Bauer Edition, good shape, runs well. 141K mi. \$1,800/neg. 363-2268.

91 HONDA CIVIC - 4dr., am/fm/cass., a/t. Runs very well. 121K mi. \$1,350/neg. Cesar, Ext. 5651 or 344-1087.

90 RANGE ROVER COUNTY - 8 cyl, 4dr, a/c, am/fm/cass, a/t, 4wd, p/b, p/s, p/w.; steerg. box/minor work to do. \$1,400/neg. Ext. 7007.

83 YAMAHA VIRAGO 750 - low mi., gd. cond., many extras. 325-0447 after 5 p.m.

69 CHEVROLET CORVETTE - a/c, a/t, 350, T-tops, am/fm/cd. Mech. excel. Good body. Runs well. \$18,000/neg. 325-9671.

HUB CAPS - 15" lock-on hub, like new. Mike, 325-0447 after 5pm.

RIMS & TIRES - 17" 4-lug chrome rims w/low profile tires, vg. condition. \$600/obo. Bill, Ext. 7961 or 929-3082.

Boats & Marine Supplies

FISHING ROD AND REEL - Penn 9/0, Senator reel, line, matching rod, big fish, mint cond., \$125. Annamarie, 878-8967.

Furnishings & Appliances

CABINETS, COUNTERTOPS - Kitchen, vanity cabs. Store closeout. Granite & corian c/tops. Must go. best offer, 924-0139.

COMPUTER WORK CENTER - standard. Holds 18 CD's, compartment for tower. \$50. 275-8445 or 849-2187.

COUCH & LOVESEAT - multicolor, excel. cond., need to sell by 11/15. Ask \$400. Barbara, Ext. 3431.

DINING ROOM SET - Art Deco, solid blond oak & chrome, table, 4 chairs, buffet, china cabinet. Make offer. 473-2716.

DRYER - Maytag, full size \$50. Ext. 8321 or 804-8609.

ELECTRIC RANGE - Frigidaire 4-coil stove & oven, storage drawer. Circa 1984, gd. cond., you pick up. \$50/obo. Marcus, Ext. 5238.

FUTON COUCH/BED - Nr. new. Dark, heavy wood frame, moving, must sell. Pd \$500, ask \$250. Gary, Ext. 2550 or 312-3205.

HAND-MADE CABINET - 3 sep. compartments. Good for pantry, sweaters, more. \$50. John, Ext. 4446 or 275-8445/849-2187.

MOVING SALE - new ss fridge, \$650. Tw. bed, \$100. desk \$25. Dinette tbl, chrs, \$100; a/c, \$75. leaf blwr, \$50. More. 917-513-2729.

SOFA - wicker, antique, 5' w/cushion, painted white, excel. cond. \$75. 588-7989.

TABLE - 4' Rd solid oak w/18" leaf, \$100; Sunbm air clnr. needs filter, \$10; Samsonite 30" suitcase, \$75. Ext. 5322.

WASHER - Maytag, old but well maint. \$75 obo., you pick up. Ext. 4517 or 775-0330.

Audio, Video & Computers

2 32" TVs - Good Cond. About 7 yrs. old. RCA & Sharp. Ask \$75/ea. 276-1635.

COMPUTER - Compaq Presario 5155, 350Mhz K6, 8GB hard drive, 128MB RAM. \$25 obo. Gary, Ext. 2550 or 312-3205.

Sports, Hobbies & Pets

BEER MAKING EQUIPMENT - Incl.: Bottle washer & dry rack, pails, jug. All you need except kit and bottles. Charles, Ext. 2350.

CAR BIKE RACK, HOLDS 4 BIKES - Hooks to trailer hitch fits 2 & 4 inch hitch. Cost \$150, sell for \$75. Great condition. Charles, Ext. 2350.

LUFTON LIGHTHOUSES - Ten for sale, different houses. Cost \$30-\$40/ea., sell for \$15/ea. Charles, Ext. 2350.

MASSAGER - smaller portable, electric, \$5. Jim, Ext. 2432.

POCKET BIKE - silver, 49cc, \$275. Maryann, Ext. 4705 or 929-4978.

SKI BOOTS - Nordica T5.2, sz. 250-255, 290 mm. Walk/ski switch, replaceable shoes, used once, best offer. Ext. 4409.

SLAM MAN BOXER - electronic. Incl: Slam man, gloves, video. Full bxg. work-out simulator. Cost \$250. Like new, \$75. 821-1525.

Tools, House & Garden

LIGHTING FIXTURES - elegant hanging, 1 lg. for dining room or entry hall, 2 small. \$100 obo for all. Ext. 4517 or 775-0330.

RADIAL ARM SAW - 10" Sears Craftsman w/table & blades, excel. cond., you pick up. \$75. Susan, Ext. 4298.

UTILITY TRAILER - 44x56 flat, tilt bed, stored indoors and never assembled. Susan, Ext. 3492 or 734-2593.

WET SAW - MK, 10" w/stand, 1 blade for marble & tile, 1 blade for brick pavers, \$50/day. 878-0071.

Miscellaneous

LUGGAGE - 7-pc mtchg. Amelia Aerhardt-Burg/twd/wheels, v.g. cond., alum frame, 2-29", 27, 25, 21, tote, garm. \$250. Ext. 2860.

CRIB QUILTS - 2 w/bumper & dust ruffles, in excel. cond., \$35 ea./neg. 744-3569.

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

EVENING GOWNS - formal, Daymor designer nos. 2105 & 2109, pics at www.daymor.com, excel., sz.10. \$200/ea. 581-7656.

LEXMARK INK - 12A1970 Black and 12A1980 Color ink tanks, genuine Lexmark, sealed, \$30/both. Ext. 2425.

MATTRESSES - Not used. Bunk beds, inexpensive. 928-5185.

SOIL FILL - clean, sandy soil, 20+ cu.yds., trailer from Manorville. James, 344-5537.

SUITCASE - 30" Samsonite Suiter, \$75; 4' rd solid oak table w/18" leaf, \$100; Sunbm air clnr, needs filter, \$10. Ext. 5322.

SUZUKI BIKE - '94, starter, 125 cc, flyscreen & bag, Pt. Jeff. area, 3K, gd. running cond., \$650, call after 8 pm. 473-8716.

VINTAGE HATS - \$25/ea, Day Bed \$125, Beannie Babies, \$1/ea, new infant bathtub, \$5, PakNplay \$5, booster seat \$3. Ext. 7007.

Community Involvement

ENTERTAINMENT BOOK - fund raising for Seneca 8th grade science trip, lots of half price and discounts! \$20. Kelly, Ext. 7746.

SCALLOP DINNER - Cutchogue Methodist Church, Elec. Day, 11/8, seating at 5, 6, & 7 p.m., adults \$16; under 10 \$8. Robert, Ext. 2451 or 734-9087.

Free

BED & CRIB - Qu.- size bed & a crib. Avail. 10/30/05, you pick up. Xueying, Ext. 4343.

COMPUTER DESK - brown, good cond.; single bed and other items to go. Moving. 821-7569 after 5 p.m.

EXERCYCLES - two; 3-spd girl's bicycle, need tires, tune-up. Dorothy, 289-6652.

HOSPITAL BED - 5-way, 110v electric, 48" wide, 650 lb cap. Wheel chair: 24" wide, 650 lb cap., tele. tray table. Peter, Ext. 3981.

KITTEN - orange tabby, male, clean bill of health from vet, affectionate, litter trained. Mona, Ext. 5056 or 767-6206.

RABBIT & GUINEA PIG - 5 & 3 yrs. old, moving, includes cages and food. 821-7569 after 5 p.m.

Wanted

EXCAVATOR-BACKHOE - 20-40 yd. trailer for hire. Jim, 344-5537.

INFANT CAR SEAT - with car seat base. Byoung-Chul, Ext. 7073.

MONITOR, CRT - 15-17", must be in working order. Morris, Ext. 4192.

SLIDE PROJECTOR - Used working Bell & Howell slide cube projector. Jim, Ext. 2432 or 821-9178.

SUPERMARKET COUPONS - for free turkeys, to donate to area food pantries. Send to M. Beckman, Bldg. 120. Maria, Ext. 5483.

For Rent

BELLPORT - Upstairs loft bdrm, bath w/ shwr. stall, full kitchen. Pkg in d/day. Util & sat. TV incl. One mo. sec. \$900/mo. 286-7088.

LIZ SEUBERT, editor
JOHN GALVIN, reporter
ROGER STOUTENBURGH, photographer

Halloween Costume Dance Tonight, 10/28

Today, Friday, Oct. 28, at the North Ballroom, Brookhaven Center, the BERA Social & Cultural Club will sponsor a "Pre-Halloween Dance Party," open to the public. Come in costume to be eligible for the costumes contest.

Live music — swing, foxtrot, ballroom, and Latin — will be played by bandleader Tommy James and the All-Stars. In between sets, DJ music will include hustle, Argentine tango, bolero, bachata, salsa, and more. The evening starts at 7 p.m. with a free, 45-minute Lindy Hop lesson for beginners. Live music starts at 8:30 p.m. Tickets are \$12 in advance at the BERA store in Berkner Hall, and \$15 at the door. The admission fee includes the dance lesson, a cold hero buffet, tea/coffee, dessert, and refreshments. Guests must present a photo ID at the main gate.

Blues, Rock Concert at BNL, 11/4 Professor 'Louie' & The Crowmatix With The Lone Sharks to Open the Show

Professor "Louie" & The Crowmatix, a Woodstock, New York-based band that plays a mix of blues, rhythm & blues, and rock both nationally and internationally and whose CDs include the "Spirit of Woodstock" to be released this fall by the New York State Museum, will give a concert in Berkner Hall on Friday, November 4, at 8 p.m. The Lone Sharks, a local band founded by singer-songwriter Gene Casey, will open the show. Sponsored by the BNL Music Club, the concert will be open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Tickets for the concert cost \$15 each in advance, and \$20 each at the door on the day of the show. Buy tickets in advance from ticketweb.com; or the BERA Sales Office in Berkner Hall, weekdays, 9 a.m.-3 p.m. For more information, call Ext. 3846.

Celebrate Diwali, Festival of Lights, 11/19

All are invited to celebrate Diwali, the Festival of Lights, with the BERA Indo-American Association on Saturday, November 19, at Berkner Hall. The cultural program of Indian music and dances starts at 3:15 p.m., followed by a traditional Indian dinner at 7:30 p.m. Admission: adults, \$12; children of ages 5-12, \$8. Part of the proceeds will be donated to the American Red Cross. For tickets, contact Shailendra Chouhan, Ext. 2443; Ramesh Gupta, Ext. 4805; or Sharadha Sambasivan, Ext 4862. For more information, see <http://geocities.com/TheTropics/Harbor/1595/iaaEvents.html>.

BROOKHAVEN HAMLET - 4 bdrms., 2 bath, fp, heated sun porch, stove, avail. 12/5, WIFI. <http://timyurl.com/cskjn>. \$2,000/mo. 374-2537 or michael@rmrco.com.

CENTER MORICHES - waterfr. 50' blkhd, 3-bdrm, 2-bath, cape, l/r, d/r, den, eik, det. htd fam/rec rm, dd. end, new kit, w/d, pt. bsmt. \$2,200/mo./neg. Ext. 5288 or 775-0724.

CENTER MORICHES - New huge one bdrm apt., waterview, a/c, w/d, d/w, kitch, bright l/r, full bath, plenty of closet space No smoking/no pets \$1,250/mo. 878-1478.

CENTEREACH - 1 bdrm., bath, l/r/kit combo, util incl., pvt. ent. no pets/smkg., 1 mo. sec., 20 min to BNL. \$950/mo./neg. 580-4337.

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 smoke/pets, refs req. \$775/mo. 928-0466.

EAST MORICHES - 1-bdrm apt. in historic home, park-like prop. walk to town & bay 10 min to Lab, non-smoker, avail. immed. \$900/mo. Nick, Ext. 4979 or 513-6688.

EAST PATCHOGUE - like new, 3 bdrm., 2 bath, kit., d/r, l/r, fp, cac, fin. bsmt., gar., deck, no pets, + util. immed., also for sale, 675,000 \$2,100/mo. Maire, 475-2068.

EAST PATCHOGUE - 3-bdrm. house, like new, 2 bath, kit, d/r, l/r, fp, cac, fin. bsmt., gar., deck, no pets, + util, immed. \$2,100/mo. 475-2068.

EAST PATCHOGUE - 2 rms., not bdrms., apt., eik, full bath, no pet/smkg., suitable for 1-2 adults, util., incl. \$850/mo. 289-1240.

MANORVILLE - lg. studio in estate home on over 3 acres, quiet, kitchenette, full bath, pvt. ent., 5 min. to BNL, incl. all utils. & sat TV. \$785/mo. Rick, Ext. 3005 or 874-9639.

MANORVILLE - 1 bdrm., eik, lg. l/r, lots of closet space, 1st. flr., quiet, priv. incl. heat & elec., 1 mo. sec. \$1,100/mo. 878-8967.

MASTIC - 2-bdrm. apt., cln/pntd. Sep. ent. & therm. Use of yrd, 1st flr. Manorville schools. Mins to Lab, shpg, beach. Pets neg/no smk. All incl., \$1,300/mo. Ext. 5154 or 707-2549.

NORTH PATCHOGUE - 2-bdrm. house, 1 bath, lg. kit., l/r, and den. 2 mo. sec., refs req'd. \$1,450/mo. Paul, 289-9727.

RIDGE - newly renov., kit, l/r, bsmt. at grd. level, incl cable, heat, elect. No pets/smkg. \$1,100/mo. Dave, 516-369-8041.

RIDGE - Studio, full bath, kitch, priv. ent. Available on Dec. 1. \$700/mo. Ray, 821-0859 or 872-7392.

RIDGE - brand-new spacious 1 bdrm. apt., incl. all \$1,000/mo. 924-6395.

ROCKY POINT - New 1 bdrm bsmt. apt. in house. Avail 11/1. Sep ent. Pvt. bath, kitch. Shared laundry. Incl util, DirecTV, wireless internet. \$550/mo. Bjorg, 745-9611.

On the Web, the Bulletin is located at www.bnl.gov/bnlweb/pubaf/bulletin.html. A calendar listing scientific and technical seminars and lectures is found at www.bnl.gov/bnlweb/pubaf/calendar.html.

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In Appreciation

With deep appreciation for your kind gift & good wishes while Dennis recovers. We love you all — you know who you are!

— Sue & Dennis