

## Structures of Important Plant Viruses Determined

**Findings may lead to new ways to protect crops and make other useful products**

Flexible filamentous viruses make up a large fraction of known plant viruses and are responsible for more than half the viral damage to crop plants throughout the world. New details of their structures, which were poorly understood, have been revealed by scientists using a variety of sophisticated imaging techniques at BNL and collaborating institutions.

These findings, published in the October 1, 2008, issue of the *Journal of Virology*, may lead to new ways to protect crop plants from viruses and other forms of damage. The structural information may also benefit scientists interested in using viruses as agents of biotechnology to coax plants to produce other useful products, such as pharmaceuticals.

This research was funded by the U.S. National Science Foundation and the U.S. Department of Agriculture, with funding for several of the research facilities provided by the Offices of Basic Energy Sciences (BES) and Biological and Environmental Research (BER) within DOE's Office of Science, and by the National Institutes of Health.

"These are very important viruses, and we knew almost nothing about their detailed structure before these studies," said Gerald Stubbs, a structural biologist at Vanderbilt University and lead author on the paper. "If you are to come up with any molecular way of

combating these plant diseases, you need to know the details of their structures." For example, structural information could help scientists design molecules that interfere with the virus's ability to infect plant cells.

The scientists from Vanderbilt, Brookhaven, Boston University, Illinois Institute of Technology, and the University of Kentucky studied the structures of two plant viruses from unrelated families, the *Potyviridae* and *Flexiviridae*, using a combination of complementary imaging techniques — x-ray diffraction at Argonne National Laboratory, cryo-electron microscopy at Vanderbilt, and scanning

transmission electron microscopy (STEM) at BNL.

"STEM measures the number of electrons scattered from a length of filament, thereby 'weighing' the segment relative to a standard — in this case, tobacco mosaic virus," said co-author Joseph Wall, a biophysicist at BNL who designed and runs the BNL STEM facility, one of only a few in the world. "Knowing the mass per unit length, the subunit size, and the axial repeat gives the number of subunits per turn."

By itself, STEM cannot determine the structure of the viral protein coat, but it did allow the scientists to determine which structure of the several alternatives they had come up with from other techniques was correct.

See *STEM* on pg. 2

The STEM technique used at BNL provided the definitive answer.



The BNL STEM Group: (from left) James Hainfeld, Martha Simon, Frank Kito, Beth Lin, and Joe Wall.

## Scanning Transmission Electron Microscopy Facility

**An Outside-User Facility at the Biology Dept.**

The STEM facility at Brookhaven Lab is partially funded by the Office of Biological and Environmental Research within DOE's Office of Science and by fee-for-service support. For information about fees, contact Joseph Wall, wall@bnl.gov, or go to: [http://www.biology.bnl.gov/stem/stem\\_charges.pdf](http://www.biology.bnl.gov/stem/stem_charges.pdf). For additional information about STEM, go to: <http://www.biology.bnl.gov/stem/stem.html>.

## 'Tennis for Two' 50<sup>th</sup> Anniversary Celebration

Play one of the world's first video games!  
Friday, October 24  
11 a.m. – 2 p.m.  
Bldg. 400



Seen with Lab Director Sam Aronson (third from left) are representatives of the organizations that won a 2008 BreakThru Mini-Grant: (from left) Stephen Long of the Children's Museum of the East End, Steven Orlando of the Custer Institute and Observatory, Ray Hopp of the William Floyd Community Summit, Tracie Van Dina of the Boys & Girls Club of the Bellport Area, and Ava Carroll of Wyandanch Youth Services.

## BSA Awards Grants to Five Suffolk County Nonprofit Organizations

**Grants to Fund Programs in Science, Math, Technology**

Representatives from five local nonprofit groups gathered at BNL on October 1 to receive the first-ever BreakThru Mini-Grants. The Mini-Grants were funded by Brookhaven Science Associates and managed by the Lab's Community Relations Office. Winners received awards of up to \$5,000 and were selected based on new or existing programs designed to engage 10- to 15-year-old females, African Americans, Hispanics/Latinos(as), and/or Native Americans as they learn about science and math in creative, fun ways.

"Much of the current economy is built on basic scientific research discoveries of the past 100 years," said Lab Director Sam Aronson, as he addressed the winners. "We can't be sure where the next generation of scientists will come from, but we hope

that the BreakThru Mini-Grants will help increase the pool."

Descriptions of the winning programs of the five nonprofit organizations: Boys & Girls Club of the Bellport Area, The Children's Museum of the East End, Southold's Custer Institute and Observatory, The William Floyd Community Summit, and Wyandanch Youth Services follow:

**The Boys & Girls Club of the Bellport Area** was the first organization to receive a BreakThru Mini-Grant. This club is dedicated to ensuring its community's disadvantaged youth with greater access to quality programs and services that will enhance their lives and shape their futures. Led by Executive Director Tracie Van Dina, the Boys & Girls Club of the Bellport Area will use its BreakThru Mini-Grant to fund its "Operation

Connect" program. The club will purchase desktop computers that will be used to help children better understand how computers work while preparing them for today's high-tech world. See also [www.bgcbellport.org](http://www.bgcbellport.org).

**The Children's Museum of the East End** in Bridgehampton was awarded a BreakThru Mini-Grant for a hands-on math exhibit titled, "Fun, 2, 3, 4: All About a Number of Things." The Children's Museum strives to provide a stimulating and dynamic environment where children and parents learn about their community and culture through natural sciences, history, and the arts. Through the leadership of Executive Director Stephen Long, the museum will use the math exhibit to improve math skills and lessen math

See *Mini-Grants* on pg. 2

## Five BNL Scientists Awarded Tenure

BSA granted tenure effective August 1 to Michael Blaskiewicz, Collider-Accelerator Department (C-AD); Jamie Dunlop, Physics Department; Alexei Fedotov, C-AD; Etsuko Fujita, Chemistry Department; and Huilin Li, Biology Department. A series describing the accomplishments of each of the scientists started in the Bulletin of October 3 with Blaskiewicz and Dunlop, continued on October 10 with Fedotov and Fujita, and concludes with Li, below.

### Huilin Li

Huilin Li, a biophysicist in the Biology Department, received tenure for his research on the structure and function of molecular complexes that are important to life processes, especially through the use of cryo-electron microscopy. This type of microscopy, in which the sample is frozen to minus 300 degrees Fahrenheit to preserve its molecular structure, is particularly effective for the study of large protein assemblies.

"Huilin Li has established external collaborations with several outstanding researchers to determine the structures of complexes that are important to DNA replication, bacterial infection, and



Tenured scientist Huilin Li

neurological degeneration," said Biology Chair Carl Anderson. "Also, he has developed some valuable new techniques for analyzing molecular complexes in response to DOE's needs."

In 2004, Li, with researchers from BNL and Stony Brook University (SBU), determined the two-dimensional crystal structure of a membrane protein, called PapC, which is involved in the assembly of hair-like projections called pili on *E. Coli* bacteria. These pili allow the bacteria to invade cells lining the bladder and kidneys, causing infections. This year, Li and his collaborators further revealed the structure of

the entire pili assembly machinery. This research might facilitate developing new strategies for prevention and treatment of urinary tract infections.

In 2006, Li and his collaborators published the first detailed reports on the biochemistry and structure of a protein-cleaving complex known as the proteasome that was isolated from the bacterium that causes tuberculosis (TB). The bacterium relies on the proteasome to survive in its mammalian host. Finding a way to inhibit the activity of the bacterial proteasome might lead to an effective treatment for TB.

See *Huilin Li* on pg. 2

*Mini-Grants from pg. 1*

anxiety among diverse youth, including those who live in Spanish-speaking households. See also [www.cmee.org](http://www.cmee.org).

**Southold's Custer Institute and Observatory** received a BreakThru Mini-Grant to extend the "Custer Education Through Research Program." The Custer Institute and Observatory works to advance astronomy by providing educational and research programs. Under the direction of Donna McCormick, President, the institute will use its Mini-Grant to provide research opportunities for children in low-income areas while fostering relationships with other organizations already working with populations that are under-represented in the field of astronomy. The inclusive program will allow students from remote locations across Suffolk County to do astronomical research through the institute via the Internet. See also [www.custerobservatory.org](http://www.custerobservatory.org).

**The William Floyd Community Summit** located in Mastic, was awarded a BreakThru Mini-Grant to support its "Advancing Environmental Stewardship Among Students" program. The William Floyd Community Summit focuses on improving the quality of life for residents of Mastic, Mastic Beach, Moriches, and Shirley through a variety of committees including the Youth Services Committee. Under the leadership of Elizabeth Wahl, Summit President, and Ray Hopp, Chair of the Youth Services Committee, this organization will use its BreakThru Mini-Grant to encourage diverse middle-school students to participate in experimental field research that will benefit open-space resources in the community. These students will also have an opportunity to visit Brookhaven Lab and interact with environmental scientists there. See also [www.wfcs.us](http://www.wfcs.us).

**Wyandanch Youth Services** received a BreakThru Mini Grant to strengthen its daily "We Care After-School Program." Wyandanch Youth Services aims to prevent youth delinquency by meeting the social, emotional, physical, and educational needs of children in the community. Managed by Dane E. Carroll, Executive Director, Wyandanch Youth Services will introduce a weekly science "fun day" at which participants, mostly African-American and Hispanic youth, will focus on science concepts and experiments. See also [www.wyandanchyouthservices.org](http://www.wyandanchyouthservices.org).

— Joe Gettler

**Digital Framing Workshop, 10/30**

The Camera Club is sponsoring a special Matt/Mounting/Framing Digital Demo Workshop featuring professional photographer and framer Yvonne Berger on Thurs., Oct. 30, in Berkner Hall Room C, at 5:30 p.m. For more information, call Ripp Bowman, Ext. 4672.

**CIGNA Representative**

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

**New Mayor of Bellport A Lifelong Ambassador For the Lab**

Brookhaven research associate and new Bellport Mayor David Pate is known to rise to a challenge. Whether installing feed-throughs for the ATLAS detector at CERN in Switzerland, or helping to set up the e-cooling facility here at RHIC, he has often been presented with just an empty building.

"I'm not afraid of start-ups," he said. "I can put together what's needed for a project to move forward. I'm a 'can do' sort of person."

Apparently, the Bellport Village board of trustees agreed, recently appointing Pate to fill the remainder of the final term of former Mayor Frank Trotta, who had served in the position for the past 25 years. Trotta resigned abruptly following some political infighting on the board. Pate, who had "feet in both groups," had served as chairman of the Bellport Village zoning board since 2004.

"I have no political alliances," he said. "I believe in democracy

and in the process. And I believe that's why I was appointed."

Bellport's new mayor considers himself a "second-generation Lab brat." His father, Howard Pate, who brought his family to BNL from England in the '50s, worked in instrumentation and health physics. While his son, who once headed the RHIC vacuum group, has lived and worked elsewhere from time to time in the intervening years, he has found Brookhaven to be a good fit.

"My uncle, Brian Pate, started working at Brookhaven Lab in 1956," Pate said. "On his advice, my father loaded his family on a boat and said 'we're going to America.' My mom thought there would be cowboys and Indians here." The family lived in an apartment on site that still exists.

After six years with the Coast Guard, Pate attended Suffolk Community College, before moving to the New York Institute of Technology "on the 11-year program," while working

*STEM from pg. 1*

One surprise was that the two viruses the scientists studied, though from unrelated families, turned out to have very similar structures: thin filaments with a spiral structure featuring just under nine molecular subunits per helical turn. "The spiral is so tightly packed that it could not be seen by conventional electron microscopy," Stubbs said.

Some scientists had predicted there would be similarities between these virus families, but there was a lot of disagreement. This study provides the first experimental evidence that they are indeed similar in shape. That could speed up the pace of discovery because what scien-

tists learn about one family can be applied to the other.

Potential applications include engineering molecules, based on the viral structure, that interfere with the viruses' ability to infect plants.

Another application would be using modified versions of these viruses to introduce into plants genes that help protect the plants from viruses, or even from other forms of damage, such as insect attacks. Still another application would be to use modified viruses to introduce genes instructing plants to make other useful products — for example, antibiotics or other drugs.

— Karen McNulty Walsh

**Employee Lunchtime Tour, 10/24**

**Learn about world-renowned BNL scientific instrumentation**

On Friday, October 24, the Employee Tour will take employees, retirees, and visitors to the Instrumentation Division to see the wonders of electronics as built by BNL scientists. The visiting group will also be able to view the "video arcade" which will be located in Bldg. 400C in honor of William Higginbotham and his invention of "Tennis for Two" (see notice on pg. 4). No reservations are needed. Meet the group in the upper lobby of Berkner Hall at noon to start the tour. Contact Elaine Lowenstein, Ext. 2400 if you have any questions.

**A Reminder From the Benefits Office**

The birth of a child, adopting a child or getting married are all exciting life events. Please remember to enroll any newly attained dependents in your medical and/or dental programs within 30 days from the date your new dependent is born, adopted, or otherwise becomes eligible for coverage. If you do not enroll your dependent through the Benefits Office within 30 days from the date he/she first becomes eligible, you will be required to wait until the next Open Enrollment Period to enroll him/her. Call the Benefits Office, Ext. 2877 or 5126 if you have questions.

**BWIS Wine & Cheese Party, 11/6**

All BNLeers are invited to the Brookhaven Women in Science (BWIS) Wine & Cheese Party on Thursday, November 6, from 5:15 p.m. to 7 p.m. in the Recreation Hall, Bldg. 317, in the apartment area. BWIS holds this event annually to thank all who have helped with and supported BWIS programs, welcome new members, and introduce the new executive board to the Lab community.

Both men and women are welcome to join BWIS. The group's primary mission is to promote the advancement of women in the scientific professions. More information about BWIS and the membership application form is available at the BWIS website: [www.bnl.gov/BWIS/](http://www.bnl.gov/BWIS/). For more information about the November 6 event, contact Stephanie LaMontagne, Ext. 7141 or [stephl@bnl.gov](mailto:stephl@bnl.gov).



David Pate

Roger Stoulenburgh 03460808

at Brookhaven and later at the never-opened Shoreham Nuclear Power Plant. He came back to BNL in 1988 and has been here ever since, except for an 18-month stint at CERN starting in 2000. He returned to the Lab as a work control coordinator in the Collider-Accelerator Department. He is currently part of the Superconducting Accelerator and Electron Cooling Group, which is charged with the physics, design and construction of RHIC superconducting radio frequency

accelerators and electron coolers and novel electron cooling techniques.

"I think I have always been an ambassador for the Lab," he said. "My job makes for interesting dinner conversation."

Pate has lived in and around Bellport for the past 50 years, graduating from Bellport High School in 1971. He always took an interest in village politics, and was appointed chair of the zoning board by the former mayor.

— Kay Cordtz

**Dr. Mow Shiah Lin Scholarship 4th Annual Award Ceremony & Reception, 10/22**

The BERA Asian Pacific American Association (APAA) invites all to attend the Award Ceremony on Wednesday, October 22, for the 4th annual Dr. Mow Shiah Lin Scholarship. The award of \$1,000 will be presented to Ning Zhang, a graduate student at the Department of Materials Science & Engineering, Stony Brook University (SBU), studying defect analysis and quality improvement of semiconductor crystals.

The APAA established the Dr. Mow Shiah Lin Scholarship to commemorate the life and career of Mow Lin, a distinguished scientist at the Energy Sciences & Technology Department. In honor of his research, remarkable achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with a student visa matriculating toward a doctoral degree at an accredited institution of higher education in environmental and energy technology, biology, or chemistry, in remembrance of the manner in which Lin began his career.

Zhang, who will be introduced by his advisor, Michael Dudley, Chair of the SBU Department of Materials Science & Engineering, will present a brief introduction on his current research.

The ceremony will be held at 4 p.m., in the Hamilton Seminar Room of the Chemistry Department, Bldg. 555. Refreshments will follow the presentation. For more information, contact Susan Eng Wong, Ext. 7988.

**Service Anniversaries**

The following employees celebrated service anniversaries during July 2008:

- 40 Years —  
David Diamond ..... ES&T
- 35 Years —  
Jacqueline Mooney ..... Physics  
Carl McKeever ..... PPM  
Nicholas Houvener ..... Facils/Ops.
- 30 Years —  
Thomas Butcher ..... ES&T  
Rosalie Lawrence ..... Fiscal  
John Flannigan ... Business Sys.  
Gerhard Barnett ..... Maint & Fab  
James Kierstead ..... Instrum.  
Peter Ingrassia ..... C-AD  
Jack R. Tallent, Jr. .... NSLS  
Kuo-Chen Wu ..... Magnet
- 25 Years —  
Robert Sweet ..... Biology  
James Meier ..... C-AD
- 20 Years —  
Cyndy Chisare ..... ISD  
Janet Soper ..... PPM  
David Peter ..... Lab. Prot.  
Kerry Botts ..... Site Services  
Joseph Rubino ..... CEGPA  
Allen Jones ..... EWMD  
Joseph DeCicco ..... C-AD
- 10 Years —  
Ognian Novakov ..... Physics  
Ronald Prwivo ..... EWMD  
Virginia Coccores ..... Intel. Prop.  
Renée McNeil ..... Business Sys.  
Mitchell De La Vergne ..... C-AD  
Frank Naase ..... C-AD  
John Bohnenblusch ..... C-AD  
Robert Baker ..... C-AD

*Huilin Li from pg. 1*

After Li earned a Ph.D. in electron microscopy and crystal structure from the University of Science and Technology in Beijing, China, he joined DOE's Lawrence Berkeley National Laboratory as a postdoctoral fellow in 1994. He became a scientist in Berkeley's Life Sciences Division in 1998. In 2002, he joined BNL as an associate biophysicist and was promoted to biophysicist in 2005. Since 2003, Li has also been a faculty member at SBU.

— Diane Greenberg

**In Memoriam**

**Joseph Musorrafiti**, who became a technical associate I in the Safeguards & Security Division on April 15, 1991, died at age 64 on September 22, 2008. He had left the Lab as a technical project supervisor on December 8, 2005.

**Arrivals & Departures**

- Arrivals —  
Gary Welch ..... HR/OMC  
Oliver Witzel ..... Physics  
Huijuan Xu ..... NSLS-II  
Hongli Zhai ..... Medical
- Departures —  
Maria Beckman ..... ESH&Q  
Victor Cassella ..... Envir. Scis.  
Stephen Klerk ..... EWMS  
Thomas Morton ..... HR/OMC  
Wolfgang Soldner ..... Physics

## Newsflash — Explosion

An explosion occurred at about 9:30 p.m. Monday, October 13, at a drinking water pump station located in a remote area of the site. No one was injured; the building was substantially damaged. The cause of the explosion appears to be a propane leak. A full investigation is being made, and more information will follow. Press releases on this subject are available at [www.bnl.gov/bnl-web/pubaf/pr/newsroom.asp](http://www.bnl.gov/bnl-web/pubaf/pr/newsroom.asp).

## Healthfest News

**Free Trial BERA Classes (all week)** For more information, go to [www.bnl.gov/bera](http://www.bnl.gov/bera)

### Open House (10/21)

Location: Gym, Pool and Weight Room

Time: 11:30 a.m.–1:30 p.m.

### Healthfest Fair (10/23)

Displays, screenings, raffles, drinking-water taste testing, home-water sample testing

Time: 10:30 a.m.–1:30 p.m.

Location: Bldg. 400 Lobby

### Swim\* (10/29)

400-yard swim

Time: 11 a.m.–1:30 p.m.

Location: Pool in Bldg. 478

### Biathlon Swim\* (10/31)

800-yard swim

Time: 11 a.m.–1:30 p.m.

Location: Pool in Bldg. 478

\* Must be 18 or older

Register online for the events, at <http://intranet.bnl.gov/healthfest/>. No computer access? Contact Michael Thorn, Ext. 8612, to register.

## New Badges For Guests, Retirees, Family Members

The Laboratory Protection Division has begun issuing new site-specific photo identification badges. The current solid purple Guest and Retiree badges will now be green, the same as the Family Member badge. All three will be a darker shade than the current Family Member badge.

The "old" badges for these three groups will remain valid until expiration, but you may stop at the Badge Office in Bldg. 400 at your convenience to receive the newer version. The office is open Monday-Thursday, 8:30 a.m.-4 p.m., and on Friday, 8:30 a.m.-1:00 p.m. Construction contractors will continue to receive the striped purple photo ID.

Lecture, 10/24

## Fighting the Spread of Nuclear Weapons: Helping Ourselves by Helping Others

On Friday, October 24, at 1 p.m. in the Hamilton Seminar Room in the Chemistry Department, Bldg. 555, Mona Dreicer, Program Leader for Nonproliferation & International Security in the Global Security Directorate at Lawrence Livermore National Laboratory, will talk on "Fighting the Proliferation of Nuclear Weapons: Helping Ourselves by Helping Others." All are welcome to this free lecture.

In 2004, the United Nations Security Council passed resolution UNSCR 1540, requiring countries to establish effective, enforceable measures and controls to prevent the prolif-

eration by non-state actors of nuclear, chemical and biological weapons and their delivery systems. Nearly five years later, progress is mixed. Dreicer will raise questions of how to best implement this key part of the nonproliferation toolkit and improve communication between states that need assistance and those willing to provide it. Previously, as Director of the Office of Nuclear Affairs at the U.S. Department of State, Dreicer's office assessed compliance of nuclear arms control treaties and worked to ensure effective verification of nonproliferation and U.S.-Russia nuclear materials programs.

## BERA Updates: Buy Tickets at BERA Store

**Doctor Atomic**, Sat., Nov. 8. Metropolitan Opera, *Doctor Atomic*, an opera about the development of the atomic bomb. 1 p.m. matinée. Orchestra Rear \$130/person, Balcony \$90. The Graduate Center in NYC offers related talks in Oct. For list, contact [lseubert@bnl.gov](mailto:lseubert@bnl.gov) or Ext. 2346.

**Radio City Music Hall**, Sun., Dec. 7. Holiday extravaganza, \$85. Coach will leave BNL at 8:30 a.m. for 11:30 matinée, leave NYC at 5 p.m.

**NYC Do As You Please Trip**, Sun., Dec. 14. Leave BNL at 9 a.m., leave NYC 5 p.m. \$10/person. Under 2 yrs with no seat, free.

Check online for new fitness schedules: <http://www.bnl.gov/bera/recreation/fitness.asp>.

## Defensive Driving Course in Two Parts, 10/27 & 30

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday and Thursday, October 27 and 30, in the Bldg. 490 Large Conference Room, 6–9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$38 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number. For more information, call Sarah Wiley, Ext. 4207.

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

A TIAA-CREF consultant will visit BNL on Wednesday, October 22 and Thursday, October 30 to answer employees' questions about their financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare life-time income vs. cash withdrawal options. For an appointment, call 516-454-4025 or schedule on-line at [www.tiaa-cref.org/moc](http://www.tiaa-cref.org/moc).

## Flu Vaccines Now Available at Clinic

The Occupational Medicine Clinic offers the influenza (flu) vaccine to all full-time and part-time-eligible Lab employees now through Friday, October 24. Shots will be given at the Clinic, Bldg. 490, according to last name, during the following times:

| Time               | Last Name | Time          | Last Name |
|--------------------|-----------|---------------|-----------|
| 9:30 – 10:45 a.m.  | T – Z     | 1 – 2:30 p.m. | H – M     |
| 10:45 – 11:45 a.m. | N – S     | 2:30 – 4 p.m. | A – G     |

Wear a short-sleeve shirt to receive a flu shot and please do not ask to change a scheduled time. For those who cannot attend scheduled times, flu shots will still be available through December, or until the Clinic runs out of vaccine supplies. Retirees, students, contractors, guests and employee family members should obtain shots from their personal physicians. For more information on the flu vaccine, call to speak with a nurse, Ext. 3670.

## Disability Awareness Event, 10/21

*Game raises awareness of people's differing abilities*

To mark National Disability Awareness Month this October, on Tuesday, October 21, the Diversity Office in partnership with the National Business Disability Council (NBDC) will bring a culture-sharing event to Berkner Hall. For one hour, from noon to 1 p.m., NBDC will transform Berkner auditorium into a studio where a "Who Wants to Be a Millionaire?" game will be used as a vehicle to raise everyone's awareness regarding people's differing abilities. The contestants will be challenged with questions that focus on effective interactions with individuals who have different abilities in hearing, vision, speech, and mobility.

All are encouraged to come and experience this group learning activity that promises to be fun yet informative. Training credit will be given for this event, so be sure to sign the training roster. For more information, contact Senior Administrative Services Assistant Tiffany Minter, Ext. 6253.

## Informal French For All Levels

Sponsored by English for Speakers of Other Languages, Galina Polyanskaya gives free informal French classes for people interested in learning or improving their French language skills. Now, the beginners can select from two levels of skill, "low" and "high." Classes, which are held upstairs at the Recreation Building, are scheduled as follows:

**Wednesdays:** : High Beginners from noon–1 p.m.; Low Beginner (very basic) from 1–2 p.m.

**Thursdays:** 5:30 p.m. Intermediate – Advanced

Contact Galina Polyanskaya for more information and to register at: [galpol@mail.ru](mailto:galpol@mail.ru).

## Meet Ila Campbell

In January 2001, Ila Campbell volunteered to lead a yoga class in which she was a student. At the time, she had no idea that the instructor would not return. Today, over seven years later, Campbell still leads the free Wednesday yoga class sponsored by the BERA Indo-American Club, from 12:10 to 12:55 p.m. each week.

Campbell, a customer support analyst in the Collider-Accelerator Department, teaches hatha yoga, which consists of some 200 asanas, or steady poses, designed to stretch and strengthen all parts of the body. The poses emphasize making the spine supple and increasing circulation. Breath control and meditation are also part of yoga, and these practices, along with the asanas, foster good health and deep relaxation.

Campbell began to learn yoga in 1967, when she was a student in a girls' boarding school, the Maharani Gayatri Devi School in Jaipur, India — the school that was the site of the Beatles' visit to India for five days in the late 1960s, during their more extended stay in India to learn meditation. Under the direction of the BBC, which was planning to air a program on yoga, all the students in the school were given yoga instruction every day. Campbell was one of 40 promising yoga students from the school that producers selected to star in the two-hour BBC film.

"For the next two years, to prepare for participation in the show, I practiced yoga three hours a day every day," Campbell said. "After that, yoga was a required course in the school."

Nowadays, Campbell practices yoga and meditation every morning. She says the yoga practice



Roger Stoutenburg 08/11/07

helps relieve her chronic back pain, which started with a fall on ice. Campbell also knows of others who were helped to overcome physical challenges through yoga. She said her 60-year-old uncle, when faced with the ordeal of coronary bypass surgery, decided to skip it and try a strict vegetarian diet, medication and 90 minutes of yoga every day. "The flow of blood through his three clogged arteries improved steadily, and now, ten years later, his arteries have created a natural bypass," she said.

"I believe in the power of yoga," Campbell said. "But it has to be practiced every day to be most effective. It does take discipline."

All BNLers are welcome to join Campbell's free yoga class on Wednesdays in the Brookhaven Center North Room. For more information, see her website. Campbell is not a certified instructor, so it is an informal meeting of yoga enthusiasts. If you have health problems, she recommends that you consult with your physician before practicing yoga.

## CALENDAR

Friday, 10/17

### \*Healthfest Fitness Run

Noon-1 p.m. Outside Bldg. 463. 5 km (3.1 miles). Register with Michael Thorn. See notice, left.

Saturday, 10/18

### \*Rhythm, Blues Concert

8 p.m. Berkner Hall. BNL's George Bostick and Blues House, surviving members of The Moroccos, and other distinguished blues performers will perform. Tickets are \$15 in advance, \$20 on the day of the show. Buy them at the BERA Store or [www.ticketweb.com](http://www.ticketweb.com). See pg. 4.

— WEEK OF 10/20 —

Tuesday, 10/21

### Disability Awareness Event

Noon-1 p.m. Berkner Hall. Sponsored by BNL's Diversity Office and the National Business Disability Council. Watch a fun, quiz game that raises awareness of people's differing abilities. See notice below, left.

Wednesday, 10/22

### Mow Lin Scholarship Ceremony

4 p.m. Hamilton Seminar Room, Bldg. 555. All are invited to the award ceremony for the 4th Dr. Mow Shiah Lin Scholarship, sponsored by the BERA Asian Pacific American Association and the Lin family. See notice, pg. 2.

Thursday, 10/23

### \*Healthfest Fair

10:30 a.m.-1:30 p.m. Bldg. 400 lobby. Displays, screenings, raffles, drinking-water taste testing and home-water sample testing. All are welcome.

Friday, 10/24

### \*Celebrate Video Game's 50th!

11 a.m.-2 p.m. Bldg. 400 lobby. All are invited to a 50th anniversary celebration of BNL scientist William Higinbotham's design of one of the world's first video games, "Tennis for Two." Play this game, now rebuilt by the Instrumentation Division, and play other video games. Also, tour Instrumentation. See below and notice, pg. 4.

### \*Employee Tour — Instrumentation

Noon-1 p.m. Berkner Hall lobby. See related event in Bldg. 400 above. Meet in Berkner lobby to be taken to Instrumentation to see how BNL scientists build electronic instruments. No reservations are necessary. See notice at left.

### \*Fighting Nuclear Weapons' Spread

1 p.m. Hamilton Seminar Room, Bldg. 555. Mona Dreicer, Lawrence Livermore National Laboratory, will talk on "Fighting the Proliferation of Nuclear Weapons: Helping Ourselves by Helping Others." All are welcome to this free talk, sponsored by BNL's Nonproliferation & National Security Department. See notice at left.

— WEEK OF 10/27 —

Monday, 10/27

### IBEW Meeting

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

— WEEK OF 11/3 —

Thursday, 11/6

### \*BWIS Wine & Cheese Party

5:15-7 p.m. Recreation Hall in the apartment area. See notice, pg. 2.

### BSA Distinguished Lecture

7 p.m. Berkner Hall. "Inflationary Cosmology: Is Our Universe Part of a Multiverse?" Presented by Alan Guth, MIT. All are welcome to this free public lecture. Visitors to the Lab of 16 and over must carry a photo ID.

## 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

**TRAINING SPECIALIST (A-6)** - Requires a bachelor's degree and four years' previous experience working in a radiological field. Equivalent knowledge may be obtained through a combination of education and/or work experience. Excellent verbal communication, interpersonal and writing skills are necessary as is proficiency with computers. Expertise in material handling or industrial safety/hygiene fields highly desirable; previous instructor experience a plus. Will be responsible for presenting radiological and industrial safety classroom and skills training. Will also develop training courses and materials and participate in assessment of programs. Training and Qualifications Program Office, Human Resources and Occupational Medicine Division. Apply to Job #14652.

**OFFICE SERVICES ASSISTANT (CW-2, term appointment)** - Requires a high school diploma and a minimum of two years' relevant work experience. Under close supervision, carries out basic work assignments that may require the appropriate selection of detailed guidelines and procedures. Responsibilities include records management assistance, including database support for which documents are required to be organized, categorized, scanned, copied and then filed. May be required to act as back-up support to existing department administrators. Environmental Restoration Project Directorate. Apply to Job ID #14646.

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

**SCIENTIFIC STAFF POSITION (ASSISTANT/ASSOCIATE/SCIENTIST - S1/S2/S3)** - Requires a Ph.D. in low energy nuclear physics, with several years of postdoctoral experience, preferably in experimental nuclear structure research, though experience in low energy nuclear reaction research will also be considered. Knowledge of computer programming languages, such as FORTRAN, HTML, C++ and Java is also required. We are seeking a detail oriented person with good written language and communication skills, willing to take directions, to follow tight schedules, and a team player with good people skills to be able to work with others. Development and maintenance of computer codes and/or web applications is an inherent part of the job. Knowledge of evaluation and compilation procedures for nuclear physics data, database management and services will be viewed as an advantage. The position involves evaluation, compilation, literature scan, and processing of nuclear physics data. The successful candidate will work in web-based scientific-user service environment. Some basic research opportunities exist, but mostly at own initiative. The level of the position will be based on the background and experience of the selected candidate. Under the direction of P. Oblozinsky, Energy Sciences and Technology Department. Apply to Job ID #14648.

**POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in biochemistry or structural biology. Experience in protein engineering, analytical biochemistry and/or phenolic chemical characterization (FPLC, LC-MS, GC-MS, and NMR) is preferred. The qualified candidate will employ laboratory protein evolution, x-ray crystallography, and the related biochemical approaches to probe the structure-function relationship, and the structure-based protein evolution for the enzymes involved in lignocellulosic biosynthesis and/or the related secondary metabolisms. BNL has a state-of-the-art facility for biochemistry and biophysics studies. Convenient synchrotron beamlines are available in the National Synchrotron Light Source. Under the direction of C.-J. Liu, Biology Department. Apply to Job ID #14649.

**POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in biochemistry or plant molecular biology/molecular genetics. Experience in membrane protein handling and functional assessment, plant gene function characterization by the forward and reverse genetics strategies, and cell wall chemical

composition analysis is strongly desired. Knowledge of bioinformatics and cell biology is preferred. Excellent communication and teamwork will be important assets to work in a cross-functional environment where scientists with diverse expertise work closely as a team and with other teams across the organization. The qualified candidate is expected to employ biochemical genomics approaches to systemically identify and characterize the potential components/transporters involved in the inter- and intracellular sequestration and transportation of lignocellulosic precursors. Under the direction of C.-J. Liu, Biology Department. Apply to Job ID #14650.

**POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in biochemistry. Experience in membrane protein manipulation and functional assessment for membrane integrated transporters is strongly desired. The ideal candidate is expected to have strong protein chemistry background and be able to develop and conduct the modern biochemical analysis to dissect mechanisms underlying the transportation of plant lignocellulosic precursors. This position will be a part of an interdisciplinary research team. Under the direction of C.-J. Liu, Biology Department. Apply to Job ID #14651.

**POSTDOC RESEARCH ASSOCIATE - X-RAY OPTICS (reposting)** - Requires a Ph.D. in Physics or a related discipline. Knowledge or experience in high energy resolution x-ray optics and/or synchrotron x-ray optics is highly desirable. Candidate will work with research group that is focused on achieving 0.1 meV energy resolution for inelastic x-ray scattering experiments. The selected candidate will specifically assist with examining the issues associated with achieving ultra high energy resolution in the hard x-ray regime using synchrotron x-ray techniques. Candidates must have excellent written and oral communication skills and be able to interact effectively with a diverse group of scientist, technical staff and users. The selected candidate will report to the NLS-II Inelastic X-ray Scattering Group Leader. National Synchrotron Light Source-II. Apply to Job ID #4476.

**TECHNOLOGY ARCHITECT (1-9, reposting)** - Requires a BS degree in engineering, computer science, or physics, or equivalent and a minimum of 10 years' experience in system architecture. The successful candidate will have superior analytical and problem-solving skills and considerable experience functioning in a lead designer role. Strong communication skills and the ability to work effectively with a diverse group of scientists and engineers are critical. Responsibilities include: leading the team that will design, develop, and deploy accelerator global systems including: distributed networks for computer and instrumentation and global timing systems. The position also includes directing the effort in gathering communication requirements from all subsystems, design and evaluation of networks, test, installation, integration, monitor and operational support of global networks. Reports to the Controls Group Leader, NLS-II. National Synchrotron Light Source-II. ERAP eligible - \$1,000.00. Apply to Job #14393.

**SR. HR REPRESENTATIVE (A-6, term appointment)** - Requires a bachelor's degree or equivalent experience, at least four years' experience in the recruitment of technical, engineering and information technology staff, excellent oral and written communication skills, knowledge of MSWord, Outlook and Excel, and experience in developing web-based recruitment strategies. Knowledge of innovative recruitment techniques, including experience in locating non-active job seekers highly desirable. Knowledge of PeopleSoft highly desirable as is experience in the diversity/EEO field and knowledge of applicant tracking databases. SHRM/HR certifications are highly desirable. Responsibilities will include recruiting, interviewing, and hiring non-exempt and exempt level employees, working with Lab staff to develop recruitment strategies, functioning as an internal consultant to Lab employees by providing information, guidance and interpretation of Lab policies, practices and procedures. Human Resources & Occupational Medicine Division. Apply to Job #14654.

**ELECTRO-MECHANICAL SR. TECHNICAL SPECIALIST (T-3, reposting)** - Requires an AAS degree in electrical/mechanical technology or equivalent experience, plus at least six years of relevant experience in the assembly and testing of electro-mechanical equipment with an emphasis on the manufacture and assembly of precision prototype components. Requires the ability to use hand tools, as well have a working knowledge of manufacturing/machine shop processes, material properties, and mechanical drawings. The ability to work from electrical schematics, the use of standard test and measurement equipment (function generators, oscilloscopes, multi-meters) are highly desirable. Work experience with vacuum system components, high voltage/high current systems, RF systems, and cryogenics is a plus. Under general technical direction and with engineering support, will assemble, test, install, and maintain components used in particle accelerators such as magnets, power supplies, RF systems, and electronic diagnostics. Must consistently show a high degree of initiative and judgment when solving technical problems. Will report to the Beam Components/Instrumentation Group Leader, Collider-Accelerator Department. Apply to Job ID #14632.

### Motor Vehicles

06 HONDA MOTORCYCLE 250CC REBEL BLACK - 146 mi. \$2,450/neg. Ext. 7484.  
05 HARLEY DAVIDSON SPORTSTER 883 CUST. - white, excel. cond, saddle bags, hwy. lights, eng. guards, must sell, make offer. 3800 mi. Ext. 3505 or 929-6467.  
04 JEEP GRAND CHEROKEE - 4wd, 4dr, a/c am/fm, cd, c/c, p/l,pb,p/s,p/w, excel cond., gray. 57K mi. \$15,500/neg. 375-7959.  
03 FORD FOCUS - 5spd, 4cyl, 4dr, a/c, cd, mint cond, red exterior, grey/black interior. 51K mi. \$5,500/neg. Ext. 3927.  
03 CHEVY VENTURE - orig. owner, 20/26 mpg, new tires/batt., 8 pass. a/c, p/w, fr/side air bags, excel. cond. 69K mi. \$6,200/neg. Ext. 5128 or 727-4417.  
02 ACURA 3.5RL - excel cond., new tires/brakes. 41K mi. \$13,800. Ext. 7484.  
00 ISUZU TROOPER - 6 cyl, auto trans., 4WD, TOD, a/c, all pwr. Excel. cond. 93K mi. \$4,800. 331-0433.  
99 HYUNDAI ACCENT L - 4cyl, 5spd, 2dr, hbk, fwd, am/fm cass 28/37mpg, 2 minor dents, needs tires, runs well. 94K mi. \$1,500. Ext. 7465 or 484-0995.  
99 DODGE INTREPID ES - v6, 3.2L, a/t, all std features + CD & sunroof, new fr & rr brakes & fr tires, gd cond. 82K mi. \$3,400/neg. 775-0099.  
97 NISSAN ALTIMA GXE - 4dr, 4cyl, a/t, a/c, c/c, fm/cd, pwr. win, rem. dr locks, new muff, brks, white, fair cond., 26 mp 172K mi. \$1,750/neg. Ext. 3413 or 871-9060.  
97 DODGE CARAVAN SE - v6, ac, p/w, c/c, p/l, r/k/e, am/fm/cass, 2-slide/drs, 3 rows seats 2 remove, orig., runs well, 145 mi. \$2,100/neg. Denise, Ext. 7860.  
97 FLEETWOOD BOUNDER MOTOR HOME - Appliances, self-contained. Entry dr/hydraulic lift rear dr. A/C, heat, stabilizers, Exc. cond. \$14,000. 294-1540.  
94 DODGE RAM XLT - a/c,p/w,am/fm/cd, a/t,p/l,p/s, 8cyl, fiber glass cap, bed liner needs a little work, gd work truck. 150K mi. \$3,000/neg. 924-7476.  
91 TOYOTA CELICA - gd cond., 4cyl., 5spd stick. 153K mi. \$1,600/neg. 878-9592.  
85 FORD F-150 - pickup,4wd,4spd,300cid, 6cyl 1bb1, not pretty, gd. for gen. work, runs well, new parts. \$850/neg. Ext. 3050.

### Furnishings & Appliances

BOX SPRING - brand new, still in wrapping queen size, Sterns & Foster, \$350/retail, ask/\$100. Steve, Ext. 4211 or 286-3681.  
GATES - wall mounted swinging gates. Great for children/pets, white, 3 avail., \$20/ea. or 3/\$50. Angela, Ext. 7397.  
MOVING SALE - Haier, 1.7 Cu. Ft. Compact Refriger. - White: \$12; Microwave, Panasonic: \$10; plates, cups, Huan, Ext. 3829.

### Audio, Video & Computers

JVC BOOKSHELF STEREO - AM/FM 6 disc CD, real wood cabinet, high power. Excel audio quality. \$50. Ext. 5937.  
PRINTER - Hewlett Packard Desk Jet, 842C, \$50. 281-4459.  
SCARFACE MOVIE MEMORABILIA - Al Pacino Plaque w/his pic, 2 bullets, a Cuban cigar, & saying "Say Hello to My Little Friend!" \$35. 591-4267.  
SONY TV - 27" WEGA flat screen tube w/glass stand/panasonic VCR, excel. cond., \$100. Ext. 5937.  
XBOXSYSTEM - w/cables/2controllers/13 games, email for list of games, \$150. donna@bnl.gov, Ext. 2826.

### Sports, Hobbies & Pets

BACKYARD HOCKEY RINK - Play ice hockey at home. Brand new, never used. \$50. Angela, Ext. 7397.  
CELLO - c.1950, excel., w/case. \$4700. Stephen, Ext. 4475 or 929-3251.  
FISH TANKS - 48"Lx21"Hx18"W and 30"Lx12"Hx12"W. Make offer. Bill, Ext. 7507 or 631-298-1058.  
PROWLER CAMPER - '05, 32', Quad Bunks, q/bdrm, sleeps 10, full bath w/shower & tub, a/c/heat, new awning, back dr. 4 storage. 807-9916.  
UNIVERSAL GYM - Pacific Fitness Multi Station, ilke new, \$250. Leah, Ext. 3536.

### Tools, House & Garden

ANIMAL CAGE TRAP - Havahart 24" x 7" x 7", ideal for catching squirrels and rabbits. \$10. Ext. 5648.  
BRICKWORK - Brick & Sand repairs. Make your walkway & patios look like new. Expert, honest estimates. BNL Discount. No job too small. 25 yrs' experience. Tony, 736-7942.  
FIG TREES - white/red, potted, ready for pick up. Jim, 325-9293.  
TARPAULINS - 2, new brown 6'x10' polyethylene all-purpose ask/\$5/ea. Ext. 5669.

### Miscellaneous

BREAD MACHINE, JUICER, MEAT GRINDER: all w/instruct. manual & recipes, excel working cond, \$25/ea. 591-4267.  
FIREWOOD - seasoned, \$200/cord, delivery avail. Michael, Ext. 5262 or 284-2277.  
I DREAM OF JEANNIE DOLL - Pretty 1997 Trendmasters LTD Collector's Series Fully Posable 12" doll in Genie Costume, boxed \$40. Linda, Ext. 2733 or 395-6784.  
SPRINKLERS - sprinklers, poly pipe, installs, repairs, winterize. 284-2277.  
WEDDING GOWN - white, straight, beaded, sleeveless gown w/train, size 4, gd. cond., \$150. 281-4459.  
WEDDING SLIP - A-line crinoline full length slip, lace trim, worn once, sm., 28" waist, pd/\$250, ask/\$25. 646-369-5272.

# BERKNER HALL

## RHYTHM & BLUES REVUE

### SATURDAY, 10/18

Get into rhythm and blues at Berkner Hall tomorrow, Saturday, 10/18, at 8 p.m. BNL's George Bostick will lead Blues House, with Sonny Henderson, lead guitarist from the 1969 Riverhead-based band, The Moroccos, scheduled to appear, as well as other Moroccos' members, and guests Ralph Boardman on sax and keyboard, Big Al Allen on sax, Waddie Bolling on drums, Melvin Robinson on guitar, and Curtis Highsmith and Dave Mann on vocals. The event is open to all. Tickets are \$15 at the BERA Store; 9:30 a.m.-3 p.m., or at [www.ticketweb.com](http://www.ticketweb.com); or \$20 at the door.



Joseph Rubino A0070231

BNL's George Bostick

# TENNIS FOR TWO

## 50th ANNIVERSARY

October 24 | 11 a.m. - 2 p.m.

All are invited to celebrate the fiftieth anniversary of one of the world's first video games, "Tennis for Two." BNL scientist William Higinbotham, a nuclear physicist who had worked on the Manhat-

tan Project and lobbied for nuclear nonproliferation, designed Tennis for Two to "liven up" a 1958 Brookhaven open house.

On Friday, October 24, from 11 a.m. until 2 p.m., come to the lobby of Bldg. 400 to play Tennis for Two as well as an array of later-day games, and take a tour of the Lab's Instrumentation Division, where Tennis for Two was created and new electronic marvels are being designed every day. For more information on Tennis for Two, go to <http://www.bnl.gov/bnlweb/history/higinbotham.asp>.

### Save the Date! Adopt-a-Platoon Fundraiser, 11/5, 6, 7

The Brookhaven Veterans Association (BVA) will hold a fundraiser at Berkner Hall, 11 a.m.-1 p.m., on 11/5, 6, & 7, to help support service members. On view will be more than 60 items to order — you'll get them in good time to give as holiday gifts. A preview with photos of the items will soon be available on the web.

### Happenings

COPIAGUE LIBRARY - Latin Rhythms 10/26 at 2 pm, Yvette Malavet-Blum sings w/Bob on piano & Brian on conga, bossa, nova jazz. Yvette, Ext. 5591.  
SCALLOP DINNER - Cutchogue Methodist Church Mens Club, 11/4, Election Day 5.6,7pm seatings, \$21/Adults, \$9/Children under 10. Bob, Ext. 2451.

### Free

CAT, FREE TO GOOD HOME - Loving, 1 1/2 y/o gray DSH male cat needs new home by Nov. 1st. Moving and cannot take. Michelle, Ext. 6387 or 793-7080.  
CHRISTMAS TREE - artificial, 6 1/2' tall, not pre-lit, but very nice. Ext. 5937.  
INDOOR PLANTS - Plumeria, 3', Ficus, 5'. Brussel's Money tree, multi-trunk, 5', u pic up. PK, Ext. 5648.  
TIRE - Goodyear Wrangler RTS 225/75R15, gd. cond., Ext. 5937.

### Wanted

DONATIONS & SPONSORS - for the American Cancer Society Walk in Central Park on Sunday 10/19. Any donation-large/small. Christine, Ext. 5090.  
DONATIONS & SPONSORS - For Lupus Foundation Walk in Eisenhower Park, Oct 19. [www.firstgiving.com/philharrington](http://www.firstgiving.com/philharrington) Thank you! Phil, Ext. 5669.  
NEED CERAMIC TILE REPAIRMAN - to repair flr. 744-8386.  
RIDE-ON LAWNMOWER - reasonable price. Joe, 807-6214.

### Lost & Found

FOUND - Power Greaser. Ken, Ext. 3124.

### For Rent

CENTER MORICHES - 1 bdrm, full bath, living/kit. combo, gas stove, w/d, incl. util. and cable, +1 mo. sec. \$1,000/mo. Chris, Ext. 3715 or 736-2275.  
CENTER MORICHES - 3 bdrm, 1.5 bath house, eik, d/r, l/r, den, gar., bsmt, beach & boating rights. \$1,900/mo. 846-4331.  
CORAM - 1 br full kit./bath way off st. prkg., incl ht/cble sep ent., 12 mins Lab, no smkg/pets. \$950/mo. John, 924-3492.  
MIDDLE ISLAND - 1 bdrm, lg remodeled high bsmt apt, pvt ent/drwy, incl. all, quiet. Strictly no smkg/pets, BNL or Sto Brk employee only. \$900/mo. 672-2451.

PORT JEFFERSON - 1 bdrm, upstairs, view of water, l/r, kit, bath, extra rm, landrfd not on premises, no smkg/pets, single prof. \$1,000/mo. Jennifer, 258-6143.  
SHOREHAM - spacious, 1 br, furn. studio apt, sep. ent., kit. & bath, lg. deck, big yd., sep. therm, cable TV, avail. 11/1, no smkg/pets; 7 min Lab. \$775/mo./neg. 821-4318.  
SHOREHAM - studio apt, eik, walk-in closet, sep. ent., elect/ cable/heat incl, 1 mo. sec, no smkg, 8 mi. to Lab. \$900/mo. 849-2593.  
SOUND BEACH - Col. house 4 bdrm, 2.0 Bath, sky light, d.w., wsh, dr. 15 m. to BNL, 10 m to beach Miller Place SD \$2,050/mo./neg. Ext. 2485.

### For Sale

MILLER PLACE - well maint'd Old Field Ranch, 3 bdrm, 1 full bath, l/r w/fp, And/sen W/dows, lg .34/acre level prop. w/1.5 car det. gar. w/elec \$285,000/neg. 241-4166.  
PALM BEACH SHORES, FL - Marriott's Ocean Pointe timeshare. Ocean front unit, exchangeable w/many other locations, must sell. \$16,000/neg. 998-3195.  
PORT JEFF STATION - 4bdrm Col in 3 Vill SD, vinyl/brick, cac, gas heat/hw, f/p, inp, lgs, sunrm w/jacuzzi, deck, new roof, appli., firm price. \$415,000. 834-8255.  
RIDGE - beautiful home, lg rms, great location, 4 bdrm, 2 1/2 bath, fin. bsmt w/ose for income potential, FDR, f/p, 2 car gar, cac, gas heat. \$449,999 807-9916.  
WADING RIVER - lg 3 bdrm, 2 bath on .5 acre, lg mstr bdrm w/cath ceiling, lg lvg area w/study, 1.5 car gar, unfin bsmt. SWRS, approx .5 mi to Sound. \$450,000/neg. 379-2282.  
WESTHAMPTON - Condo, 1 bdrm, 1 bath, quiet complex 10 min. to ocean, new carpet/heated pool, upstairs unit. \$299,000/neg. 998-3195.

### On Site Service Station

Check out our inexpensive gas prices. We also to NYS inspections, oil changes, repairs while you are at work. Ext. 4034.

### In Appreciation

I am thankful to all of my friends and co-workers for their support during the recent death of my eldest daughter. Your condolences, cards, donations and flowers have helped me through an extremely difficult and very sad time. — W. Trevor Pratt