



Joseph Rubino D2181008

From left, Scott Coburn, Condensed Matter Physics & Materials Science Department, and Peter Takacs and Gene Von Achen, both of the Instrumentation Division, watch as visitors play Tennis for Two projected on a large screen.

## Celebrating 'Tennis for Two' with A Video Game Extravaganza

"Tennis for Two," one of the world's first video games, was introduced to the public on October 18, 1958, at a BNL annual visitors' day. Invented by BNL nuclear physicist William Higinbotham to "liven up the place" and "convey the message that our scientific endeavors have relevance in society," the game was a big hit with visitors, who stood on a long line to play it. Two players would compete to hit the "ball," a bouncing dot, over the "net," a horizontal line, which they viewed on an oscilloscope with a five-inch screen.

On October 24, BNL's Instrumentation Division and Media & Communications Office held a celebration to honor the fiftieth anniversary of Tennis for Two. At the time of its invention, the game was considered unimportant compared to the more serious work in the Instrumentation Division. Never patented, the game was dismantled about a year after its public display and, later, its original parts were discarded.

No one guessed at the time that Tennis for Two would be an important piece of history — the forerunner to a multi-billion dollar industry that is still thriving today. While its recognition as the first video game has been contested, it was the first to be created just to be used for fun.

Nearly 200 people attended last week's anniversary celebration, and many of the visitors enjoyed playing a recreated version of Tennis for Two, rebuilt by the Instrumentation Division's Peter Takacs, Gene Von Achen and Paul O'Connor, with Scott Coburn, Condensed Matter Physics & Materials Science Department. In addition, more modern games were on display for people to try out, including Atari 2600, Sega Genesis, the original Nintendo (1985) and the current Nintendo Wii. Visitors were also invited to attend a tour of the Instrumentation Division to learn about the technological marvels that are created there nowadays.

"We decided to rebuild Tennis for Two about eleven years ago,

in preparation for BNL's fiftieth anniversary," Takacs said. Using Higinbotham's original plans, Takacs and his colleagues rebuilt the game with vintage parts, including mechanical relays and germanium transistors that first became commercially available in the 1950s. The original 1950s model analog computer that was made from vacuum tube circuits had to be simulated using modern integrated circuit chips.

"It took us about three-quarters of a year to rebuild it," Takacs added. "It was difficult to find the parts, then difficult to put them together. In contrast, it took Willy Higinbotham only two weeks to put it together and get it going."

The game held up well for about the first two hours of last week's celebration, then a spark went off in the inner workings of the game, and the horizontal line for the "court" on the screen disappeared. Takacs immediately looked at copies of the game's original plans, which were on display, interrupted a tour in Instrumentation, and with the help of colleagues Paul O'Connor, who found the necessary part — an oscillator chip — and Von Achen, who cut out the damaged chip and soldered in the new one, got the game working again within 25 minutes.

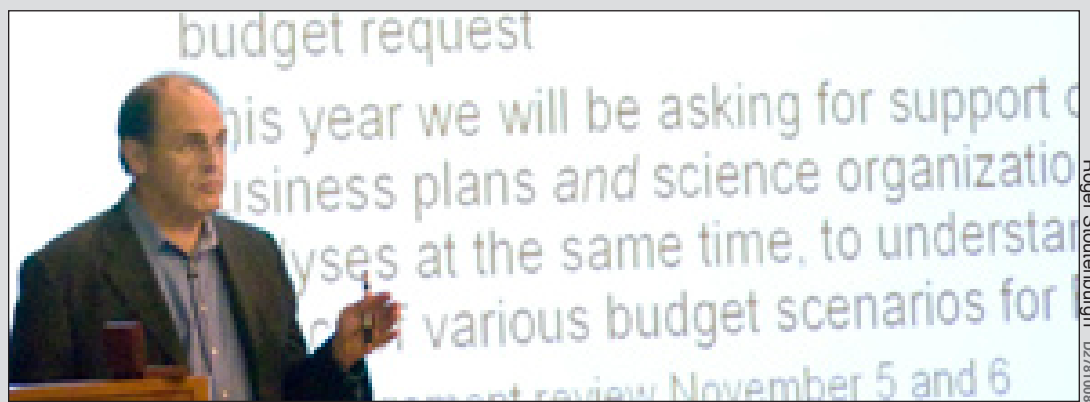
"Because it's an analog computer, I could quickly identify the part that we needed and replace it easily," Takacs said. "If one of today's video games broke down, that would not be the case. The electronics are very complicated. It would have to be sent back to the factory."

Fortunately, none of the other games broke down, and they were well used. But the game that attracted the most people was Tennis for Two, and playing it still held their interest, just as it did for BNL visitors 50 years ago.

For more information on Tennis for Two and William Higinbotham, see this website: <http://www.bnl.gov/bnlweb/history/higinbotham.asp>.

— Diane Greenberg

**MORE PHOTOS FROM THE CELEBRATION ON PG. 2**



Roger Stoulenburgh D2781008

## Director Stresses Need for Planning In View of 'Uncertain' Budget Picture

One week before the Presidential election, Laboratory Director Sam Aronson talked with employees about Brookhaven's development of a short-term budget strategy for Fiscal Year 2009 in the face of national economic uncertainty. During the all-hands meeting on October 28, Aronson assured the audience that although this year's funding picture is still unclear, he is working with Lab management to understand various cost-cutting actions that fit best into the long-term strategic plan. At the moment, Aronson said, options like raise freezes and reductions in staff are "off the table."

"I thought it was necessary to address a growing level of concern people have about the economic forecast's affecting everyone around the globe," Aronson said, adding that Brookhaven, with the entire DOE complex, continues to operate under a continuing resolution expected to hold until at least March. "We still don't know what the fiscal year 2009 budget will look like."

Approximately 250 employ-

"If we can figure out how to optimize the resources we do have, we'll do all right."

— Sam Aronson, Lab Director

ees made it to Berkner Hall despite a driving wind- and rainstorm, with an unprecedented 700+ watching the live webcast.

Aronson stressed that in terms of scientific and operational achievements, the Lab is performing well and continues to improve. Evidence of this is seen in agency support for the Lab's large-scale user facilities, numerous scientific awards, high marks during Integrated Safety Management reviews, increased worker safety, and recognition from DOE for good cyber security practices.

"We're all pleased with where we are and there's every reason to believe that the Lab will continue to do well," he said, adding that it is important to understand that Brookhaven is not being singled out in the

current budget crisis. "The fiscal problems that lie ahead are being felt throughout DOE and the whole of society. But if we can figure out how to optimize the resources we do have, we'll do all right."

Through the current continuing resolution, Laboratory funding is at the FY08 level, below the amount planned for based on the FY09 President's request, Aronson said. He noted a recent bright spot: DOE will allow initial construction activities planned for the National Synchrotron Light Source II (NSLS-II) to commence in the absence of a new budget. This important decision will help keep the project on track during the early part of the year, Aronson said, but if full funding isn't restored after March, progress could be greatly delayed for both NSLS-II and Laboratory projects as a whole.

"Right now, we have five months of last year's budget, and we don't know what comes after that," Aronson said.

To prepare, Lab managers are developing business plans

See *Budget Mtg.* on pg. 2

## 442nd Brookhaven Lecture, 11/12

### 'Which Came First, the Eggshell or the Egg? — Answering Riddles About Biomineralization'

Some of the hardest and sturdiest materials are not made in the factory; they are made inside the bodies of animals through a process called biomineralization. Look no further than your refrigerator for one of the simplest products of this natural construction company: a chicken's eggshell. Made out of just about a half-millimeter of layered calcium carbonate and protein, eggshells might be thought of as fragile, but they also provide vital protection for the chick forming inside.

Biomineralization, the process by which organisms form materials such as bones, mollusk shells, and other structures, has captured the attention of scientists for years. The cells in an animal's body have special ways of controlling the sizes and shapes of these mineral compounds and incorporating organic materials into the mix, making many materials that are stronger, harder, and more wear-resistant than rocks. Finding a way to mimic the properties of these sturdy and naturally made materials could lead to the medi-

cal engineering of replacement bone, teeth, and cartilage, as well as the development of new electronic and industrial materials.

To find out how scientists are investigating this important process, join physicist Elaine DiMasi of the National Synchrotron Light Source (NSLS) as she gives the 442nd Brookhaven Lecture, "Which Came First, the Eggshell or the Egg? — Answering Riddles About Biomineralization," at 4 p.m. on Wednesday, November 12, in Berkner Hall. All are invited to attend this free talk, which is open to the public. Visitors to the Lab ages 16 and older must carry a photo ID.

Refreshments will be offered before and after the lecture. To join the lecturer for dinner at a restaurant off site afterward, contact Angela Bowden, [bowden@bnl.gov](mailto:bowden@bnl.gov), Ext. 5169.

With collaborators at Stony Brook University, DiMasi develops different biomineralization models, including a protein network that resembles real tissue. Then, the researchers use x-rays at the NSLS and a technique called shear modulation force



Elaine DiMasi

Roger Stoulenburgh D2571008

microscopy to determine what biominerals look like and how they grow. In particular, DiMasi is interested in studying some of the earliest stages of biomineralization to find out what sets the process in motion.

DiMasi received her Ph.D. in physics from the University of Michigan in 1996 and, immediately after, joined Brookhaven's Physics Department as a research associate in charge of

See *DiMasi Lecture* on pg. 2



## CALENDAR

### OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Events 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, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See [www.bnl.gov/esol/schedule.html](http://www.bnl.gov/esol/schedule.html) for schedule. Jen Lynch, Ext. 4894

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

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

**Mondays & Thursdays: Kickboxing**  
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Ext. 8481

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

**Tuesdays: Hospitality Coffee**  
10:30 a.m.-noon, Rec. Hall lounge. Restarts 9/9. All welcome. Ext. 5090

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

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

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

**Tuesdays: Toastmasters**  
1st & 3rd Tuesday of month, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. [www.bnl.gov/bera/activities/toastmasters/](http://www.bnl.gov/bera/activities/toastmasters/)

**Tue., Wed. & Thurs.: Rec Hall Activities**  
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090

**Tue., Thurs. & Fri.: Ving Tsun Kung Fu**  
Noon-1 p.m., B'haven Center, North Room. Taught by Master William Moy. Scott Bradley, Ext. 5745, [bradley@bnl.gov](mailto:bradley@bnl.gov)

**Tuesday & Thursday: Aerobic Fitness**  
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, [flood@bnl.gov](mailto:flood@bnl.gov)

**Tuesday & Thursday: Aqua Aerobics**  
5:30-6:30 p.m., Pool. Starts Tues., 9/9; Thurs., 9/11. 8-wk session, \$20/once/wk, \$40/twice/wk. Mail chk to BERA.

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

**Wednesdays: Ballroom Dance Class**  
B'haven Center, N. Ballroom. Instructor: Giny Rae. Starts September 12 and 19. Ext. 3845

**Wednesdays: Weight Watchers**  
Noon-1 p.m. Michael Thom, Ext. 8612

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

**Wednesdays: LabVIEW**  
1:30-3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304

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

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

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

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

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

## CIGNA Representative

A CIGNA Healthcare representative is available 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.

## DiMasi Lecture from pg. 1

developing instrumentation for liquid spectrometers at the NSLS and Argonne's Advanced Photon Source, and studied the structures of surfaces and interfaces using x-ray scattering. She was promoted to assistant physicist in 1997, associate physicist in 1999, and to physicist in 2002. She joined the NSLS as a physicist in 2003, where she currently serves as the spokesperson and local contact for beamline X6B, and helps develop instrumentation for beamline X9.

— Kendra Snyder

## 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 Wednesday, Thursday, and Friday, November 5, 6, & 7, all proceeds to be donated to help support service members.

At the fundraiser, you will be able to view a range of military logo items for men, women, and children, such as camouflage apparel, T-shirts, hats, jackets, etc. — one example of each item — which you can order and pay for right away. Your order will be sent in time for holiday gift-giving. To preview the form and photos of the items that will be available, see [www.bnl.gov/bera/activities/va/Adopt\\_A\\_Platoon.asp](http://www.bnl.gov/bera/activities/va/Adopt_A_Platoon.asp).



Roger Stoutenburgh D1951008

## BNL Art & Crafts Show, 11/24-26 See Barry Lafler's Art Glass

Barry Lafler, Chemistry Department, has worked with glass for 40 years — the last 15 of them as BNL's scientific glassblower. Lafler creates custom-made glassware that cannot be purchased from a catalog, and he modifies and repairs existing scientific glassware for any department or division that needs his services.

But in his spare time, Lafler enjoys making colorful art glass, using the same kind of durable, heat-resistant glass, known as borosilicate, that he uses to make scientific glassware.

Lafler recently started to col-

laborate with glassmaker Cindy Lemmo of Pennsylvania. She makes colorful glass flowers, which Lafler fuses by fire onto his own creations — vases, dishes, or whatever type of art glass he wishes to make.

"It's fun working with an artist that has a skill level that matches your own," he said, and added, "I've done a lot of research on turn-of-the-century glassware in the Art Nouveau and Art Deco styles. These styles have influenced my work. I particularly like the curves and free form of the Art Nouveau period."

Lafler will be among many BNL artists, photographers, sculptors and crafts-makers displaying their work at the BNL Art Society's Art and Crafts Show to be held at Berkner Hall from Monday to Wednesday, November 24-26, 11:45 a.m.-1:30 p.m. An evening reception will be held on Monday, November 24, 5-7 p.m. All are invited to attend. Visitors to the Lab of 16 and over must carry a photo ID. — Diane Greenberg  
*Note: See a video of Lafler blowing glass: [www.bnl.gov/today/story.asp?ITEM\\_NO=946](http://www.bnl.gov/today/story.asp?ITEM_NO=946)*

## The Tennis for Two Celebration



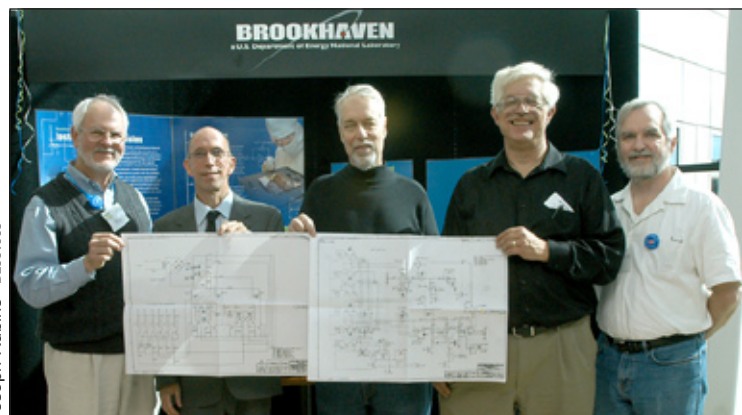
Joseph Rubino D2291008

Two BNLers play Tennis for Two on the 5-inch oscilloscope; onlookers can watch the game on a larger television.



Joseph Rubino D2361008

George Goode winds up for a strike while bowling on the Nintendo Wii.



Joseph Rubino D2551008

Holding up the blueprint for Tennis for Two with Peter Takacs (left) and Scott Coburn (right), both of BNL (see story, pg. 1) are: (from left) Billy Higinbotham, son of Willy Higinbotham, creator of the game; and Charles Dvorak and Bob Dvorak, sons of Bob Dvorak, who built the game.

## Budget Mtg. from pg. 1

tailored to three different budget scenarios: 1) The President's FY09 budget is enacted after the continuing resolution ends in March; 2) The continuing resolution is extended through the year, resulting in flat funding for the remainder of FY09; and 3) Funding is cut three percent from the FY08 level.

Numerous other possibilities exist, Aronson said, including the chance that Congress passes a FY09 budget shortly after the November elections. But the wide range of the funding scenarios listed above will allow the Laboratory to analyze the full impact of potential shortfalls, he said.

Possible cost-cutting measures include: a reduction in discretionary spending, including funding for the Laboratory Directed Research Development program, infrastructure renovation, and incrementally funded projects; a hiring freeze; and, as a last resort, the delay or cancellation of salary increases and voluntary or involuntary reduction in staff.

"It's not my intention to go to the bottom of this list and start with reduction in staff," Aronson said. "I don't want to think about that until I understand what real options there are. Similarly, I am not

planning to delay or cancel salary review unless there is no other way. Those options are currently off the table."

Lab leaders will review and analyze directorate business plans next week, resulting in a Lab-wide plan for each of the three scenarios. The plan will be based on a more "rational and considered approach to resource allocation than on across-the-board cuts," Aronson said. An important part of this process will include gaining a better understanding of how individual Lab directorates, departments, and offices support the overall strategic plan and prioritizing what activities the Laboratory needs to accomplish in FY09.

"We're all trying to cope with the interesting times we're living in and make the best of what we've got," Aronson said. "We're going to be limited to some degree by the funds we're given and we may not be able to pursue the Lab's mission in the short term the way we want to."

Aronson told the audience he will provide updates through future meetings, as necessary, and his Monday Memo messages.

To view the entire meeting, go to [http://www.bnl.gov/video/video\\_list.asp?show=employee](http://www.bnl.gov/video/video_list.asp?show=employee).

— Kendra Snyder

## In Memoriam

**Garfield Langhorn**, who joined the Plant Engineering Division as a janitor on January 22, 1968, died on October 25, 2008, at age 83. In 1977, he moved to the Central Shops Division and retired as a tool & crib attendant on August 28, 1987.

## Obituary Page on the Web

An online Obituary Page at [www.bnl.gov/bnlweb/pubaf/bulletin/obit.asp](http://www.bnl.gov/bnlweb/pubaf/bulletin/obit.asp) supplements In Memoriam notices in the printed paper. All are invited to send in memories of BNL colleagues or family members. Contact Liz Seubert, Ext. 2346 or [lseubert@bnl.gov](mailto:lseubert@bnl.gov).



Roger Stoutenburgh 00481199



This photo shows some of the younger performers who danced in the 1999 Diwali Festival arranged by the BERA Indo-American Association.

### Celebrate Diwali — Festival of Light, 11/8

The BERA Indo American Association (BERA-IAA) invites all to the annual Diwali Event — the Festival of Light — on Saturday, November 8, starting at 3 p.m. in Berkner Hall. The program will showcase the rich culture and traditions of the Indian subcontinent through music, dance, and the arts, performed by both professional and amateur artists. Authentic Indian snacks will be served during the intermission and an Indian dinner will be offered after the cultural program.

Tickets are \$15/adult; \$9/child. Visit <http://www.bnl.gov/bera/activities/iaa/diwali2008/tickets.htm> to reserve and pay for your tickets through PayPal. You are asked to enter your same e-mail address while registering and paying. Registration is not complete unless paid in full. The last date for registration is November 2. Though web-based registration is preferred, tickets can also be purchased at the BERA store in Berkner Hall.

For more information, contact Piyush Joshi, [joshi@bnl.gov](mailto:joshi@bnl.gov) or Ext. 3847, and consult [www.bnl.gov/bera/activities/iaa/](http://www.bnl.gov/bera/activities/iaa/).

### Ballroom Dance Lessons: New Series Starts, 11/5

Three new five-week sessions of weekly ballroom dance lessons, sponsored by the BNL Ballroom Dance Club and given by instructor Giny Rae at a cost of \$25 per person for each session, will start on Wednesday, November 5. The new schedule is as follows:

Beginner ONLY tango, 5:15-6:15 p.m.; intermediate tango, 6:15-7:15 p.m.; and intermediate quickstep, 7:15-8:15 p.m.

Classes and practice sessions are held in the North Ballroom of the Brookhaven Center. Lessons are open to all BERA members: BNL employees, retirees, official BNL visitors and their immediate families (spouse and children). Each BERA member may bring a partner, but a partner is not necessary to participate.

For more information contact: Donna Grabowski, Ext. 2720; Vinita Ghosh, Ext. 6226; Gail Donoghue, Ext. 2838; Dean McDonald, Ext. 7239; or Kathleen Tuohy, Ext. 3845.

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

All BNLers 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).

### Volunteers Can Help Give a Great Start To BNL's 2008 United Way Fund Drive

Each year, BNL collects for the United Way of Long Island, an umbrella organization that ensures that a wide range of service agencies on Long Island get extra, essential funding. An important part of the BNL campaign, the Volunteer Days Program, will run Oct. 23 through Dec. 31.

BNL community members who perform volunteer work and activities can help the United Way fund-raising effort by reporting their volunteer hours. For every hour volunteered between Oct. 23 and Dec. 31, BSA will donate \$20 to the Lab's Long Island United Way campaign, with a ceiling of \$10,000. To join the program, contact Coordinator Mary Campbell, [maryc@bnl.gov](mailto:maryc@bnl.gov) or Ext. 3927, who has the volunteer work receipt forms to fill out and submit.

All sorts of volunteerism qualifies for the BSA donation: work in volunteer fire fighting, soup kitchens, meals-on-wheels, hospitals, church activities, Habitat for Humanity, activities to benefit handicapped children, teaching, mentoring, lecturing, coaching, scout leading, and more.

To encourage participation in volunteer activity, with supervisory approval, an employee may make a one-time request of an hour's work time to perform volunteer work. To qualify for the BSA donation, a minimum of two hours is necessary, one work hour, and one from your own time. Thereafter, you may volunteer as many hours as you wish on your own time. If you would like information on volunteer opportunities, contact Campbell at Ext. 3927.

## 'Home For the Holidays' EAP Seminar on Stress, 11/12

The Lab community is invited to attend the "Home For the Holidays" seminar on stress on Wednesday, November 12, at noon in Berkner, Room B. Presented by the Employee Assistance Program (EAP), the seminar will feature speaker Nancy Losinno, EAP Manager, who will discuss:

- Managing stress, hardship, and trauma
- Increasing happiness through forgiveness, acts of kindness, and social connections
- Gratitude and positive thinking

For more information and to register for this event, contact Linda Di Pierro, Ext. 2733 or [dipierro@bnl.gov](mailto:dipierro@bnl.gov).

## BERA Fitness Classes

BERA has announced newly scheduled dates for fitness classes. Advanced registration is required for the following classes. Make checks payable to BERA and mail to the Recreation Office, Bldg. 400.

**Jazzercise:** 8-week session, \$90 for 2x/week\*  
Tuesdays & Thursdays from noon – 1 p.m. at the Recreation (Rec) Hall (Bldg. 317)

Tuesdays: Nov. 18, 25, Dec. 2, 9, 16, Jan. 6, 13, 20  
Thursdays: Nov. 13, 20, Dec. 4, 11, 18, Jan. 8, 15, 22

\* Includes option to use Holbrook & Wading River locations in addition to Tues/Thurs classes)

**Aqua Aerobics:** 8-week session, \$20 for 1x a week, \$40 for 2x/week

Tuesdays & Thursdays from 5:30 – 6:30 p.m. at the Pool (Bldg. 478)

Tuesdays: Nov. 4, 18, 25, Dec. 2, 9, 16, Jan. 6, 13  
Thursdays: Nov. 6, 13, 20, Dec. 4, 11, 18, Jan. 8, 15

**Pilates:** 8-week session, \$65 for 1x a week, \$80 for 2x/week, or \$130 for 3x/week

Mondays from 12:15 – 1:15 p.m. at the Rec Hall (Bldg. 317):  
Nov. 3, 10, 17, Dec. 1, 8, 15, Jan. 5, 12

Monday and Wednesday evenings from 5:15 – 6:15 p.m. at the Rec Hall (Bldg. 317)

Mondays: Nov. 3, 10, 17, Dec. 1, 8, 15, Jan. 5, 12

Wednesdays: Nov. 5, 12, 19, Dec. 3, 10, 17, Jan. 7, 14

## 2009 BSA Scholarship Alert

Applications for 2009 BSA Scholarships may now be obtained from the Human Resources & Occupational Medicine Division, Bldg. 400B. Completed forms must be sent to BSA Scholarships, Scholarship and Recognition Programs, P.O. Box 6730, Princeton, NJ 08541-6730, by Friday, November 14, 2008. Please submit the yellow copy of the application form to Leesa Allen, Bldg. 400B.

Applicants must be secondary school seniors who will be graduated during the current academic year and entering college by fall 2009. To qualify, applicants must be: children of BNL employees who began regular, full-time, or regular, eligible part-time employment no later than November 14 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 Scholarships 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, contact Leesa Allen, Ext. 2700, [leesa@bnl.gov](mailto:leesa@bnl.gov).

## Arrivals & Departures

— Arrivals —

Lauren Hubbell ..... HR/OM

Philip Kennelly ..... Maint./Fabric.

Colleen Michael ..... Medical

Raymond Romanski ... Rad. Control

— Departures —

None

## BERA Toy Drive

The annual toy drive for children who will lack gifts over the holidays will be more needed than ever this year. Please drop new toys, not wrapped, at the BERA Store or at the Recreation Office in Bldg. 400.

## BERA Happenings

BERA offers these events, but see also [www.bnl.gov/bera/recreation/events.asp](http://www.bnl.gov/bera/recreation/events.asp). Buy tickets at the BERA Store, Berkner Hall, 9 a.m.-3 p.m.

**Doctor Atomic.** Sat., Nov. 8. The Metropolitan Opera presents *Doctor Atomic*, an opera by John Adams about the development of the atomic bomb. 1 p.m. matinee. Orchestra Rear \$130/person, Balcony \$90. Leave BNL at 9 a.m., depart NYC after the show, about 4:30 p.m. Age 14 and over only.

**BERA Holiday Party.** Fri., Dec. 5, 7-11 p.m. at the beautiful waterfront Miller Beach Surf Club. Open bar, *hors d'oeuvres*, dinner buffet, dessert and a DJ with dancing for only \$45/person. Get friends, family, and department together for this exciting evening! Tickets are at the BERA Store and must be purchased by November 21. Seating will be limited.

**Book & Gift Fair.** Berkner Hall lobby. 10 a.m.-2 p.m., Monday and Tuesday, Dec. 15 and 16.

**Five-day Cruise to Bermuda.** Take Royal Caribbean's *Explorer of the Seas* from Bayonne, NJ, on Saturday, May 23, 2009, and return on Thursday, May 28, (Memorial Day weekend). Prices/person start at \$845, for double occupancy. Included: travel insurance, port fees, fuel charges. A \$200 deposit is required at the time of booking per double occupancy. Contact Joann Giambalvo, Ext. 7459, for more information or see BERA website: [www.bnl.gov/bera/](http://www.bnl.gov/bera/).

## CALENDAR

Note: At the events that are announced as open to the public, visitors to the Lab of 16 and over must carry a photo ID.

### — WEEK OF 11/3 —

#### Thursday, 11/6

**\*BWIS Wine & Cheese Party**  
5:15-7 p.m. Recreation Hall. See notice, left.

**\*BSA Distinguished Lecture**  
7 p.m. Berkner Hall. "Inflationary Cosmology: Is Our Universe Part of a Multiverse?" To be presented by Alan Guth, MIT. All are welcome to this free lecture, open to the public.

#### Saturday, 11/8

**\*Celebrate Diwali, Festival of Light**  
3 p.m. Berkner Hall. The BERA Indo American Association invites all to celebrate Diwali. Tickets: \$15/adults, \$9/children. See notice above, left.

**\*St. Martin's Pot Luck Party**  
4:30-8 p.m. Recreation Hall. Sponsored by BNL Hospitality Club and the German School of Long Island. Lantern parade, pot luck dinner, children's games, more. Bring lantern, dinner or dessert to share. Simone Oppenheimer, [soppenheimer@optonline.net](mailto:soppenheimer@optonline.net) or 929-0043. See pg. 4.

### — WEEK OF 11/10 —

#### Tuesday, 11/11

**Veterans' Day, BNL Closed**  
The Lab will be closed in honor of Veterans' Day. No Bulletin on Friday, 11/14.

#### Wednesday, 11/12

**\*EAP Seminar on Stress**  
Noon-1 p.m. Berkner Hall, Room B. Nancy Losinno, Employee Assistance Program Manager, talks on managing stress. See notice, above, left.

**442nd Brookhaven Lecture**  
4 p.m. Berkner Hall. Elaine DiMasi of the National Synchrotron Light Source Department will talk on "Which Came First, the Egg-Shell or the Egg? Answering Riddles About Biomimicrization." All are welcome to this free talk, open to the public. See pg. 1.

### — WEEK OF 11/17 —

**Marburger To Give Pogram Lectures**  
All are welcome as John H. Marburger, III, the Science Advisor to President George W. Bush and Director of the Office of Science & Technology Policy, gives the three George B. Pogram Lectures this week. These free lectures, open to the public, are sponsored by BSA, the company that manages BNL.

#### Tuesday, 11/18

4 p.m. Berkner Hall. John Marburger speaks on "The Science of Science Policy."

#### Wednesday, 11/19

4 p.m. Berkner Hall. John Marburger speaks on "Science and Money."

#### Thursday, 11/20

4 p.m. Berkner Hall. John Marburger speaks on "Science and Politics."

### — WEEK OF 11/24 —

#### Monday, 11/24

**BNL Art & Crafts Show**  
11:45 a.m.-1:30 p.m., 5-7 p.m. Berkner Hall, Room B. All are welcome. Opening reception with refreshments 5-7 p.m. To display art at the show, contact Bob Chrien, Ext. 3903; Elaine Lowenstein, Ext. 2400; or Liz Seubert, Ext. 2346.

**IBEW Meeting**  
6 p.m. Centreach Knights of Columbus Hall, 41 Horseblock Rd., Centreach. 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.



# Don't Forget: Benefits Open Enrollment Closes Today, 10/31!



Joseph Rubino A0010808

## Happy Trick or Treating!

### 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."

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

**POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in physics, chemistry, materials science or related field. Strong background in electrochemistry of lithium ion batteries, structural characterization and solid-state chemistry is required. Some experience with nanostructured materials, nanofabrication and electron microscopy is preferred. The successful candidate will take part in basic and applied research of electrode materials for lithium batteries. Research involves synthesis and characterization of nanostructured electrode materials and electromechanical studies (Galvanostatic, GITT, PITT). Will work with other researchers responsible for electron microscopy and microanalysis to develop an understanding of how fundamental electrode properties (e.g. microstructure, morphology, electronic structure) affect electrochemical properties (e.g. capacity, rate, cycle life). Under the direction of J. Graetz, Energy Sciences & Technology Department. Apply to Job ID # 14659.

**APPLICATIONS ANALYST (I-4)** - Requires a bachelor's degree preferably in computer information systems or equivalent work experience, good organization and communication skills, and at least one year's experience in an information technology field. Familiarity with user account management and provisioning (including Exchange e-mail) required. Candidate must have experience with Microsoft Windows XP/Vista operating systems in an enterprise environment. Proficiency in use of Microsoft Office productivity applications, such as Outlook, Word and Excel desired. Candidate will be responsible for account management with applications such as Net IQ and Exchange in addition to others. This position also involves datacenter operator duties, including process-driven tasks and the creation and/or maintenance of process documentation. Familiarity with PeopleSoft a plus. This position may require extended hours and/or after-hours support, and candidates must be able to lift 30 pounds. Information Technology Division. Apply to Job ID# 14658.

#### Motor Vehicles

02 ACURA METALIC GREEN 3.5 RL - new tires and brakes. 41K mi. \$13,800/neg. David, Ext. 7484.

99 HYUNDAI ACCENT L - 4cyl, 5spd manual trans, 2dr, hbk, fwd, am/fm cass 28/37mpg, 2 minor dents, needs tires, runs well. 94K mi. \$1,450. Ext. 7465.

97 CHEVROLET MALIBU - new tires/batt., excel. cond. 101K mi. \$2,300. 689-1877.

97 NISSAN ALTIMA GXE - 4dr, 4cyl, a/t, a/c, c/c, rem. dr locks, cd/fm, new muff, brks, fair cond., 26 mpg. 172K mi. \$1,675/neg. Ext. 3413.

94 FORD FULL SIZE BRONCO - sm. 8, 4X4, a/t, gd. cond. \$2,500/neg. Jim, Ext. 5993 or 365-6116.

92 DODGE NEON - runs well, a/t. gd eng. 125K mi. \$700/neg. Ext. 7266.

#### Furnishings & Appliances

BECKET OIL BURNER COMPLETE - w/ filter can. Good working condition, \$65. Joe, Ext. 3783 or 487-1479.

CAPTAIN'S BEDS - 2/twin, pine, 5 drawers, tons of storage, excel. cond., ea. w/near new mattress, \$150/both, or \$80/ea., u-pic-up. Ext. 5090 or 828-2172.

ENTERTAINMENT UNIT - solid oak, 51h x 61w x 22d, holds 32" TV and 3 a/v components w/storage under tv shelf, pics avail., \$225/neg. Chris, Ext. 7365 or 472-3488.

FURNITURE - Child's armoire w/matching twin headboard, \$100; Twin wicker headboard, \$25. Quilt rack, \$20, neg. Ext. 2716 or 878-2425.

RANGE HOOD - Broan, 36", Verona 24" gas cooktop, both biscuit color, v/gd. cond., \$75/ea. Ext. 4575 or 473-3604.

WINDOWS, DOORS, A/C - Anderson w/dws, Stanley ext/int drs, Freidrich a/c mcmatt@bnl.gov or call for list-price. 474-1158.

#### Audio, Video & Computers

17" MONITOR - in gd working condition, it is not a flat screen. You p/u in Pt. Jeff Station. \$5. Ext. 2159 or 331-7048.

ALTO SAXAPHONE - Yamaha YAS-23 in excel cond. \$600/neg. Maryann, Ext. 4705 or 929-4978.

HP INKJET PRINT CARTRIDGE - 78xl Tri-color, install before Jun 09, \$5. Ext. 5322.

PIANO - Upright, Winter brand, gd. cond., needs tuning, can help move, \$500. Lynda or Michael, Ext. 7235 or 286-1018.

TWO SAMSUNG A670 CELL PHONES - Verizon, camera, color screen, CDMA, used, fair condition with a charger, \$12 each or \$20 both. Ext. 3621.

#### Sports, Hobbies & Pets

PROWLER TRAVEL TRAILER - 05, 32', excel. cond, travels 10-quad bunks, heat/ac, full bath, new awning, hitch/tow bars incl. 807-9916.

#### Miscellaneous

AFRICAN GREY - w/cage, he/she is about 6 yrs old, has a wide vocabulary but not on command, ask/\$600/all. Ext. 4907.

BABY FOOD - 3 unopened cases of Similac Alimentum Formula ready-to-feed. Exp. date 1 May, 2009. 34\$ per case. Oshri, Ext. 4073 or 4134407.

BASSINETT - Blue and Beige Toile w/ storage basket and matching skirt EXCELLENT Cond. \$45. Ext. 7007.

CHILD'S CAR BOOSTER SEAT - Century, w/manual, in great shape and clean, \$15. Marc, Ext. 8281.

FIREPLACE - Martin 3-sided fireplace, including 3 sections of double-walled pipe. \$550. 631-523-7870.

FIREWOOD - fire/stove wood, 8"-15"L \$200/cord. Michael, Ext. 5262 or 284-2277.

HANDBAG - Coach, Chocolate Carly Bag, used, excel. cond., sale receipt avail., ask/\$200. 803-0260.

JACKETS - w/vests, leather & suede, men's & women's, different styles & colors, most never worn, \$5-\$30. Ext. 2913.

MEDICAL BOOKS - Kaplan Medical, USMLE Step 2 CK, 5-book set, brand new, \$40. Ext. 7505 or 689-8605.

SPRINKLERS - and poly pipe, winterize, installs and repair. Michael, 284-2277.

TREADMILL - ProForm Model 300, 2 yrs old, \$75. Girls equestrian helmet, \$35, Hallmark 10" photos cube, \$7. Cheryl, Ext. 2852.

WINDOWS - 2 Vinyl casement, 3 panel, center fixed, 2 sides crank out. Orig price \$250ea., ask \$100/both. 516-429-1962.

YES CONCERT TICKETS - 2 for Friday, Nov 14, \$170/both, New York, NY, Hammerstein Ballroom. Ext. 5335 or 492-7175.

#### Happenings

CONCERT - Intro to M. Proust's *A la Recherche du Temps Perdu*: Debussy, Hahn, Chaminade, Satie, soloist Leslie Rosenthal. Free. Friday, 11/21, 7 p.m. Shoreham-Wading River Library.

LI SINGLES EXPO - Sun 11/2 @ 3pm Marriot, Islandia, Seminars, shows, spd dating, dancing, \$20@dr [www.weekend-dating.com](http://www.weekend-dating.com). 305-448-7976.

SCALLOP DINNER - Cutchogue Methodist Church Mens Club, Election Day, Nov 4, seatings at 5,6,7PM. adults \$21, child \$9. Robert, Ext. 2451.

#### Free

DIESEL CAN - 5 gal., yellow. Gary, Ext. 7779.

DVD-ROM DRIVES - from my retired PC. Ext. 7505.

KITTEN - 9 month female, mostly black w/white marks, AIDS/Leuk negative, has shots, healthy, spayed, friendly. Peter, Ext. 2913.

MANTEL CLOCK - dark wood, needs repair, not sure of age. Jeanne, Ext. 2277.

#### Wanted

FIREARMS, OLD OR NEW - Fair \$\$\$ paid. Joe, Ext. 3783 or 487-1479.

HAVE-A-HEART TRAP - to borrow, to catch small family of cats to have them spayed. Patricia, Ext. 4657, 758-3952.

HOUSEMATES - 3 rms avail in Miller Place, share house w/owner, dog, drums, keys, DAW. utils incl., \$520-\$600/mo. 813-9434.

SHOP EQUIPMENT - need Arc or Mig welder, cutting torch and other welding supplies, willing to pay reasonable price. Gary, Ext. 7779.

#### Lost & Found

CELL PHONE - gray T-Mobile. Ext. 3766.

FOUND KEYS - has tag from Burners by Gordon-Platt Energy Group. Ext. 8481.

GRAY SWEATER - Found in lobby of bldg. 400 on Friday, October 24. Ext. 2345.

LOST & FOUND @ BLDG. 400 - Please forward all found items to Bldg. 400. Lost your eye glasses? See the collection in the BERA store. Christine, Ext. 5090.

#### For Rent

BELLPORT VILLAGE - On Great South Bay, View of Fire Island, Cozy 2 bdrm, 1 bath, eik, gas stove, w/d, part furn., util. incl. \$1,400/mo. Chris, 289-4641.

BROOKHAVEN HAMLET - 1 Bedroom Apt. living/kit.combo, full ba., util. and cable incl. Off street parking, no smkg/pets, ref/sec. \$1,100/mo. 286-9045.

EAST MORICHES/NEWPORT BEACH - 3-4 bdrm, 2 full baths, 1.5 bath, fin. bsmt, 1.5 detach gar., lg yd. \$1,500/mo. Joseph, 909-3156.

MANORVILLE - 1 Bdrm, L/R, full kitchen, full bath., private ent., all utilities included except phone. No smoking, no pets. \$1,000/mo. Stacey, 631-902-5712.

MEDFORD - 2 bdrm, grnd. level apt. quiet st. eik w/new appl., 15x10 bdrm, 20x25 l/r, f/p, lg, bath/closets, heat, water, cable, incl. pvt. ent. yd. \$1,400/mo. 730-8866.

MEDFORD - 3 bdrm, 1 bath house, kit, l/r, den or d/r, fenced yd w/ deck, pets okay, nonsmkr, 8 mi to Lab, ref req., plus util. \$1,800/mo. 289-9727.

MIDDLE ISLAND - 1 bdrm bsmt apt, bdrm, bath, kit, l/r, priv. ent., all util. incl., 7 mi. from BNL. \$900/mo./neg. 786-3620.

NAPLES, FL - 2 br, 2 ba furn. condo in gated golf comm., Jan-Mar \$3,250/mo, seasonal; non-seasonal/annual rental avail. at substantially lower rate. 523-7870.

PATCHOGUE - 1 bdrm. bsmt. apt., Canaan Lake Area. l/r, eik, full bath, priv. ent., own therm., basic cable/int., no smkg/pets, util. incl. \$900/mo. 654-0579.

PATCHOGUE - Waterfront House overlooking Great South Bay. 2 Bdr., 2 bath, open floor plan, room for office. Boat Slip included, 2-car garage \$2,400/mo. 447-1234.

## St. Martin's Pot Luck Dinner Party, 11/8

The BNL Hospitality Club and the German School of Long Island cordially invites you and your guests to the annual "St. Martinsfeier Laternenlauf," which is a St. Martins Party and Pot Luck Dinner, to be held on Saturday, November 8, 4:30-8 p.m., at the Recreation Hall. Visitors to the Lab age 16 and older must bring a photo ID.

Bring a lantern for each child, a dish to share for dinner or dessert, a flashlight, warm clothing — and a singing voice for the parade! The events of

the evening will include St. Martin's story, a parade with lanterns, dinner and dessert, children's games, and a sale of German Advent calendars.

For more information about the festival and how to make lanterns, visit [www.martin-tours.de](http://www.martin-tours.de) or [www.kidsweb.de/basteln/martin.htm](http://www.kidsweb.de/basteln/martin.htm).

For more information and to give an idea about how many will attend the party, contact Simone Oppenheimer, 929-0043 or [soppenheimer@optonline.net](mailto:soppenheimer@optonline.net).

## BSA Noon Recital: The Stone Guest, 11/19

On Wednesday, November 19, in Berkner Hall, the BSA Noon Recital will feature the Stony Brook Opera with a preview of Alexander Dargomyzhsky's groundbreaking opera *Kamenny Gost* (*The Stone Guest*, Pushkin's version of the Don Giovanni story). All are welcome to this free concert, open to the public. Visitors to the Lab of 16 or over must carry a photo ID.

## Social & Cultural Club's Dance Party, 12/12

Sponsored by the BNL Social & Cultural Club, Milagro, a Santana tribute band, will perform during the "Holidays Dance Party" at the North Ballroom of the Brookhaven Center, on Friday, December 12, starting at 9 p.m. Before the band performs, a shrimp cocktail and cold hero buffet dinner will start at 7 p.m., and then, at 7:45 p.m., a one-hour dance lesson in "Rumba" will be given by a popular Long Island dance instructress, Annette Alicante. The event is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

A seven-piece band with a full percussion section, Milagro performed in a concert in Berkner Hall last October, sponsored by the Lab's Hispanic Heritage Club. The band is in demand at venues all over Long Island.

Tickets cost \$30 in advance or \$35 at the door. Only 150 tickets will be sold. Buy tickets at the BERA Store, Berkner Hall, weekdays, 9 a.m.-3 p.m. or at the regular open-to-the-public "TGIF@Brookhaven" dance socials on Friday nights at the Brookhaven Center.

RIDGE - lg. sunny studio, full kit. & bath. sep. ent. & deck, util/ cable incl., min. to Lab, avail. 11/1. \$800/mo. Ext. 4720.

RIDGE - 1 bdrm apt. upstairs w/all new appl., own ent., all incl. \$950/mo. Beverly, 516-532-4631.

ROCKY POINT - 2 bdrm. apt., heat, hot water incl., off-st. prkg, s/facing, walk to stores, 15 min. to Lab, mcbennet@umich, \$1,200/mo. \$1,200/mo. 734-649-5800.

SHIRLEY - furn. bdrm, full bath, sep ent., tv/elect/heat/int/all incl., 1 mo. sec., close to Lab, 5min. to stores/beach/lirr/ no smkg/pets. \$700/mo. Ext. 8321.

SHOREHAM - spacious, clean, furn. studio apt, sep. ent., kit. & bath, lg. deck, big yd., sep. therm, cable TV, avail. 11/1, no smkg/pets; 7 min to 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. \$900/mo. 849-2593.

WADING RIVER - waterfront, 1 bdrm apt., util incl., 1 mo. sec., no smkg/pets. \$875/mo. 929-1093.

WADING RIVER - 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. \$2,200/mo. Jean, Ext. 4391.

WADING RIVER - 2 bdrm, 1 bath, full bsmt, walk to priv. beach & state park, + util. \$1,200/mo. 902-0080.

#### For Sale

BUYPORT - 2 story, 4+ bdrm, 3 baths on lovely pond, living, sun & family rms, cac, laundry, gar, cul-de-sac, near bay. \$749,000. 472-3113.

## Change Clocks Back This Weekend Change Smoke, CO Detector Batteries Also

More sleep ahead! Daylight-saving time ends this weekend at 2 a.m. on Sunday, November 2: clocks should be turned back one hour. And, while you remember, why not also check your smoke detector and carbon-monoxide detector batteries as well.

