



See details on p.2

Message From Lab Director Sam Aronson

Last Thursday, April 26, we narrowly avoided tragedy.

We had a very serious safety incident on site and we're fortunate no one was badly hurt. A worker was unloading a cart of six large cylinders from a vendor's truck outside the building housing the PHENIX detector when the cylinders

tipped over and fell onto the worker. He received scrapes to his elbows, one hand, and back. After receiving treatment at the Occupational Medicine Clinic, he was able to return to work. Take a moment to look at this picture of the scene (see p.2). You can see how this incident had the potential to turn tragic.

This safety incident was classified as Significance Category 2 "near miss" and reported to the U.S. Department of Energy (DOE). The Lab has started an investigation to determine how this occurred so we can learn from the incident and put a remedy in place to prevent it from happening again. See p.2



Michael Herbert 03380412

BNL commemorates completion of NSLS-II ring building, commissioning of linear accelerator

With the blare of an air horn and hammers clanging, on April 26 about 440 members of the Lab community — employees, visiting scientists, their families, retirees, contractors, and invited guests — crossed the starting line to walk the half-mile-round ring building that will house Brookhaven Lab's next world-class facility: the National Synchrotron Light Source II (NSLS-II).

The attendees gathered in the hangar-like hallway of NSLS-II to celebrate two major construction milestones — completion of the massive ring building in February and the commissioning of the light source's linear accelerator, or LINAC, in March. The celebration coincided with Take Our Daughters and Sons to Work Day, so the

children of employees and guests were able to join in the festivities.

NSLS-II will provide sophisticated new tools that will allow scientists to see materials at the scale of a nanometer, or one billionth of a meter — a capability not available at any other light source in the world. Working at the nanoscale, researchers will focus on some of the nation's most important scientific challenges, including developing novel materials for clean and affordable energy production, molecular electronics, and high-temperature superconductors.

"If the past is any indication of the future, this machine has decades of groundbreaking science ahead of it," Lab Director Sam Aronson said as he wel-

comed attendees to the milestone celebration.

Aronson expressed his appreciation for members of the Department of Energy, Brookhaven Lab, companies, and unions who were responsible for the NSLS-II's reaching these milestones. He also invited the children in attendance to work toward becoming the next generation of scientists who could use the research capabilities at NSLS-II.

Next, Steve Dierker, the Associate Laboratory Director for Photon Sciences and Project Director for NSLS-II, welcomed participants.

"This has really been a Lab effort. Everybody has pulled together and managed to accomplish this — we have a lot to be proud of," Dierker said.

After restating the invitation to become future users at NSLS-II, Dierker added, "The x-rays at NSLS-II will be 10,000 brighter than those produced at NSLS across the street, so the science that NSLS-II will support is going to be fantastic."

Dierker then recognized representatives from two contracted companies for their companies' efforts in reaching the milestones: Joe Klitsch of Torcon, Inc. for building the facility's ring building, and Aron Metz of Research Instruments for building and installing the facility's LINAC. The LINAC will generate and accelerate the electrons that then go on to a booster and storage ring to create the bright synchrotron

light that researchers will use to probe the structure and function of everything from solar cells to cellular proteins.

NSLS-II construction, which began in 2009, is currently 70 percent complete, and the \$912-million facility is on track to begin operations in 2015. The American Recovery and Reinvestment Act provided \$150 million of NSLS-II's total funding earlier than planned to accelerate conventional construction. During the course of construction and operation, NSLS-II is expected to create more than 1,250 construction jobs, most from local labor unions, as well as 450 scientific, engineering and support jobs.

— Joe Gettler and
Mona S. Rowe

Scientists Discover Bilayer Structure In Efficient Solar Material

Findings may offer clues to superior performance and guide synthesis of materials with improved properties

Detailed studies of one of the best-performing organic photovoltaic materials reveal an unusual bilayer lamellar structure that may help explain the material's superior performance at converting sunlight to electricity and guide the synthesis of new materials with even better properties. The research, published in *Nature Communications* on April 24, 2012, was conducted by scientists at Brookhaven Lab, in collaboration with researchers from Stony Brook University, Seoul National University in Korea, the Max Planck Institute for Polymer Research in Germany, and Konarka Technologies.

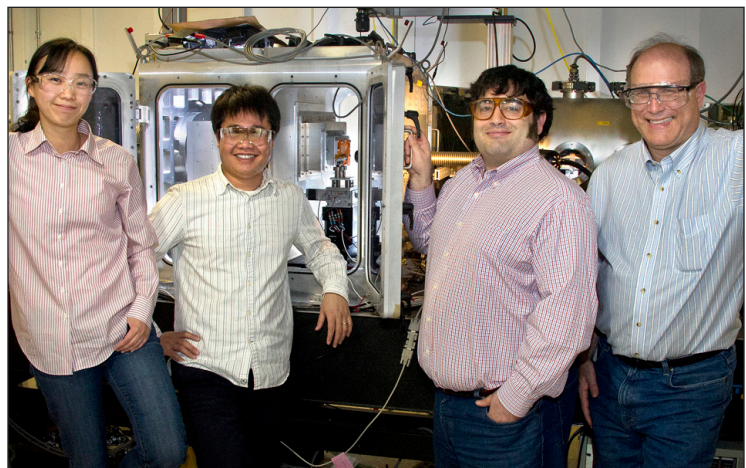
The material, known by the

handle PCDTBT, is an example of a "polycarbazole conjugated polymer," a molecule composed of a chainlike carbon backbone with alkyl side chains. Its ability to move electrons around — both "donating" and "accepting" them — makes it among the best organic photovoltaic materials currently in use, able to convert sunlight to electricity with efficiency as high as 7.2 percent in organic solar cells.

"Despite the fact that this material has been extensively studied, no one has reported detailed structural features to provide a basis for its superior performance," said Brookhaven physicist Benjamin Ocko, who led the

current research. "Understanding why this material performs so well will help scientists harness its essential attributes to engineer new materials for a wide range of applications, including displays, solid-state lighting, transistors, and improved solar cells," he said.

This research was funded by the DOE Office of Science, Konarka Technologies, the Energy Laboratory Research and Development Initiative at Brookhaven Lab, the German Research Foundation, and the German Federal Ministry of Education and Research. The National Synchrotron Light Source at Brookhaven is also supported by the DOE Office of Science.



Roger Stoulenburgh 01140412

Brookhaven Lab research team members Xinhui Lu, Htay Hlaing, David Germack, and Ben Ocko

To probe the molecular structure, the team exposed thin films of PCDTBT to intense beams of x-rays at Brookhaven's National Synchrotron Light Source (NSLS) using a high-resolution x-ray scattering technique. Unlike previous studies, which used less-intense x-rays, these studies revealed the formation of a crystalline-like phase at elevated temperatures.

Furthermore, the patterns produced by the diffracted x-rays indicated that the structure is comprised of layers of conjugated backbone pairs, a pattern quite different from the single backbone constructions observed in all other organic photovoltaic materials studied to date.

Xinhui Lu, the paper's lead...

See *Solar Material* on p.2



Joint NSLS/CFN Users' Meeting, 5/21-23

Attention, users: The last day to register without paying a late fee is today, Friday, May 4.

The National Synchrotron Light Source (NSLS) and Center for Functional Nanomaterials (CFN) 2012 Joint Users' Meeting, to be held May 21-23, provides a venue for scientists from diverse disciplines who use the NSLS and CFN facilities to share their work and discuss future directions for their research. New results and advances in experimental capabilities in synchrotron radiation and the nanoscale science research will be highlighted.

This year's theme, "Expanding the Toolbox for 21st Century Science," will showcase the vital roles served by the Department of Energy's NSLS, NSLS-II, and CFN, with an emphasis on new tools that have been developed recently for current facilities and planning for the upcoming transition to NSLS-II. The program includes updates from DOE's Basic Energy Sciences and BNL management, invited talks, workshops, a poster session, and exhibits that showcase new technology and instrumentation. Plenary sessions will be held Monday and Tuesday mornings, with workshops in the afternoons.

Keynote Speaker: Gina Kolata, *The New York Times*

The Keynote Speaker on Monday, May 21, will be Gina Kolata, bestselling author and award-winning senior writer for science and medicine for *The New York Times*. She has traveled the country lecturing at universities and medical schools, demystifying scientific and personal health issues for the general public and passing on her considerable knowledge of science writing and communication.

Special Session: Transition from NSLS to NSLS-II

In the afternoon of Monday, May 21, a discussion will be held on planning for the transition from NSLS to NSLS-II. User feedback will be critical for moving forward on this issue. All NSLS (and prospective NSLS-II) users are strongly encouraged to plan on attending this session.

Plenary Sessions Free, Open to Public

Monday and Tuesday morning plenary sessions, as well as the Monday afternoon transition discussion, are open to the public and free of charge. For more information on the meeting and to register, go to <http://usersmeeting.ps.bnl.gov/default.aspx?year=2012>.

Solar Material from p. 1

...author, noted that by analyzing the scattering patterns, they discovered undulations along the polymer's backbone, and how the undulations in neighboring backbones are shifted with respect to each other. By carrying out molecular modeling simulations, the authors were able to predict which polymer backbone configuration would be most stable.

In a conjugated polymer, the backbone provides the path for electrical conductivity and the alkyl side chains, similar to simple oils, provide the solubility required for processing. Though necessary, these side chains interfere with the polymer's electrical performance. PCDTBT is novel, the scientists say, since it is predominately composed of the backbone with little alkyl material. "Similar to oil and water, the polymer's conjugated backbone pairs 'phase separate' from their alkyl side chains and this gives rise to the bilayer structure," said David Germack, one of the paper's coauthors. It is this structural motif that likely contributes to the material's excellent electrical properties, and this understanding could guide the design of new organic solar materials.

"While we have significant in-house expertise in synthetic chemistry and organic solar device fabrication, we lack the in-depth structural characterization tools available at Brookhaven Lab," said Jeff Peet, a senior scientist at Konarka Technologies, a world leader in the development and commercialization of organic solar cells. "These kinds of tools and collaborative studies with research partners at Brookhaven can elucidate very subtle differences between materials, giving us critical insights into how we should design our next generation of solar cell materials."

Additional collaborators on this research are: Htay Hlaing of Brookhaven Lab and Stony Brook University, Won Ho Jo of Seoul National University, and Denis Andrienko and Kurt Kremer of the Max Planck Institute for Polymer Research.

DOE's Office of Science, which supported this research, is the single largest supporter of basic research in the physical sciences in the United States, and is working to address some of the most pressing challenges of our time. For more information, please visit science.energy.gov.

— Karen McNulty Walsh

Take F&O's Annual Customer Support Survey

The Facilities & Operations Directorate (F&O) is asking for your input on the facilities and services it provides: from workspaces, to moving assistance, to the cafeteria, and more. Input will be used to direct attention to what needs to be improved, monitor annual performance, and compare performance of counterparts at other national laboratories.

Please take just a few minutes to complete the short survey before Thursday, May 10: <http://bit.ly/JPEesB>.

Message From Lab Director Sam Aronsonfrom p. 1

This cylinder fall — combined with other very concerning safety and operational incidents during the past year — puts the Lab's future at risk. When incidents like this occur, Lab resources go to investigations instead of science and operations needs, and damage is done to our relationships with stakeholders, including DOE and other funding sources. As I have been saying in great detail lately, we have been working hard to address the Lab's safety and operational challenges, and I thank you for your support.

I will update you as the investigation progresses regarding the cylinder fall.



The fallen cylinders on April 26. An investigation of the incident has begun.

McNaughton and Marsicano's Lessons in Leadership

Two BNLeers attend supervisor training workshop in Idaho

Brookhaven Lab has no nuclear power facilities or any operating reactors on site, but Jim McNaughton and John Marsicano of the Lab's Facilities & Operations Directorate (F&O) are finding that the leadership skills required of managers in the nuclear power industry are relevant and applicable to their work here at Brookhaven.

In early March, McNaughton and Marsicano returned from a four-day workshop titled "First-Line Leadership," which the National Academy for Nuclear Training hosted near Idaho National Laboratory (INL). Most of the approximately 30 workshop attendees were from INL. McNaughton and Marsicano were the only participants from Brookhaven Lab.

"Over time, the nuclear power industry has developed some of the most rigorous procedures and management techniques that apply to managing facilities anywhere," said Lanny Bates, Assistant Laboratory Director for F&O. "They have found that good leadership is the most critical ingredient. Good leadership is also a critical ingredient for our focus of sustained excellence at Brookhaven."

During those four days, workshop trainers stressed how important it is for supervisors to uphold standards, be a role model demonstrating patterns of good judgment, and maintain communication with employees.

"We're outside the realm of nuclear power, so we have different rules to stick to, but everyone has to be consistent with standards, especially when it comes to safety," McNaughton said. He supervises the heavy equipment mechanic operators (HEMO) for the Lab's Site Resources Division. He arrived at Brookhaven in 2010 after two years at the Metropolitan Transportation Authority (MTA) as a fleet maintenance superintendent and 28 years at Verizon, where he started as an equipment operator and moved up to the role of fleet manager. At BNL, his crew operates and maintains the Lab's heavy equipment, such as cranes, backhoes, and snow removal equipment. They also maintain components of the Lab's infrastructure, including emergency power generators and elevators.

"At the beginning of the workshop, we characterized our own personalities to identify strengths and weaknesses," McNaughton explained. "Then,



Jim McNaughton (left) and John Marsicano of the Facilities & Operations Directorate know that the leadership skills required of managers in the nuclear power industry are also critical for sustained excellence at BNL.

"One of the best pieces of advice I picked up at the workshop is not to tell team members, 'Good job,' without explaining what they did well. A supervisor needs to be clear in telling people exactly what they did to meet or exceed expectations." — John Marsicano, F&O

we covered techniques to exploit our strengths in handling situations that all supervisors are faced with at some time or another — from engaging the people you supervise, to managing conflicts, to being a good role model for safety culture and coaching the next generation of supervisors."

"People in our crews face different challenges every day," McNaughton added. "They are professionals and adapt well, but our standards for working safely, planning properly, and communicating have to be clear to everybody."

Marsicano, a multicraft supervisor for the Site Resources Division's mechanical group, also found the workshop useful. He oversees plumbers, steamfitters, and heating, ventilation, and air conditioning workers in the Lab's central facility complex. He has 30 years of experience working as a general contractor and one of his final projects before officially joining the Laboratory was demolishing the duct service building at the Brookhaven Graphite Research Reactor.

"Of course, we want our people to get work done as efficiently as possible, but as supervisors, we have to think beyond the 'just-get-the-job-done,' mentality," Marsicano explained.

"Just like people operating a power facility, we are trained to realize that jobs that seem small or insignificant can still have unintended consequences. We need to get work done, keeping multiple people safe and operations going, which is why proper work planning and control is so essential."

Proper work planning and control is a critical component of the Lab's Integrated Facility Management program (IFM). IFM — a Blueprint initiative — is Brookhaven's way of managing and maintaining the 350 buildings on site, and it provides the work planning and control required to achieve operational excellence and sustainable safety at Brookhaven.

Marsicano noted, "One of the best pieces of advice I picked up at the workshop is not to tell team members, 'Good job,' without explaining what they did well. A supervisor needs to be clear in telling people exactly what they did to meet or exceed expectations. In that way, they know you notice and appreciate their efforts, and they are much more likely to repeat those positive actions in the future."

And explaining what their workers do well is something both these workshop attendees from Brookhaven are eager to do. — Joe Gettler

Marty Woodle: Engineering/Science Volunteer Extraordinaire

Marty Woodle retired from BNL in November 2001 as Mechanical Engineering Section Head at the National Synchrotron Light Source. In January 2012, he retired after several years as a consultant at the Accelerator Test Facility. But Woodle doesn't see himself retiring any time soon from his work as a volunteer at the Lab's primary and secondary school science competitions.

"When I first started volunteering, it was lot of fun and it is still is a lot of fun," Woodle explained. "The Lab is truly the best place I've ever worked."

Woodle has volunteered at the contests organized by the Office of Educational Programs (OEP), for more than 30 years. It began with his fostering of the Bridge Building Contest, in which high school students build bridges that must meet construction design criteria and then withstand the weights loaded onto them to test their structure. Woodle was the competition's first engineer and originally designed the much-revised software that keeps track of the bridges' performance in the competition.

In the years since, Woodle has volunteered at the Lab's annual



Marty Woodle, left, with students participating in the Office of Educational Programs' 2012 Maglev Contest at BNL

Maglev Contest, Regional Science Bowls for middle and high school students, and Science Fair for elementary school students — as well as Summer Sundays, when the public can visit the Lab's world class facilities and participate in science-related activities.

"Marty is a super volunteer," said Melvyn Morris, an OEP administrator. "He has always given his time to OEP and is always willing to help. He's been responsible for keeping the Bridge Building Contest going. I value his experience and his talent."

Apart from the fun of activities and competition, Woodle said that the events play an important role in piquing young people's interest in science.

"I think a wide education in science, engineering, and math is basically necessary for any society to advance," Woodle said. "New inventions are coming out all the time and are vital to our economy. The competitions are usually fun for the young people and may start a lifetime interest in these areas."

At a recent Bridge Building Contest, Woodle met a parent

who had participated in a contest that had taken place at BNL decades earlier.

"Now, that parent is an engineer and his kids are interested in the same things and were also participating in the Bridge Building Contest," said Woodle. "I felt very good that I had an effect on someone who went into engineering. While I don't know if the Bridge Building Contest made him do it, he was interested, and I was able to help him."

"I think it's really important to help young kids to get educated in a field that's going to support them and provide them with interesting work that's worthwhile," Woodle said.

By this time of year, most of OEP's school competitions have already taken place, the trophies and medals have been given out, and the winners have advanced to the national stages of competition.

One competition, however, is still to come.

"I'm looking forward to the event this Saturday, the Elementary School Science Fair," said Woodle. "That's really cool, and it's great to see what some of the kids do." — Natalie Crnosija

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on May 9 and May 29 to answer employees' questions about their financial matters.

To make your one-on-one appointment, call 1-800-732-8353 or go on-line at www.tiaa-cref.org/bnl and select "set up a meeting."

BREA Annual Luncheon, 6/7

Retirees: Come join the great get-together!

The annual BNL retiree luncheon will be held on Thursday, June 7, when the Brookhaven Retired Employees Association (BREA) will celebrate its annual social get-together. The Bellport Country Club will host BREA members and guests for an afternoon of good food, good company, and good fun — a perfect occasion to reunite with old friends and former colleagues.

The menu will feature appetizers, followed by a four-course meal with starter, salad, choice of entrée, dessert, coffee or tea, and unlimited wine, beer, and soda, all for \$40. The luncheon is open to BREA members and their spouse or guest(s). If you no longer live on Long Island, this is a great reason to come for a visit and see former associates.

To make a reservation, send a note to BREA, BNL, Bldg. 421, Upton, NY 11973-5000, with a check made out to BREA for \$40 per person. Please include your name and the name of your spouse or guest(s), and your address, telephone number, and e-mail address (if applicable). Also, note any special requests, such as help needed with transportation. For more information, please contact Ken Mohring at 631-929-6744 or kenwadingriver@gmail.com.

Reminder From the Benefits Office:

Select BSA Benefit Plans Are Now Managed By P&A Group, Including Plans for Retirees

By Denise DiMeglio, Manager, Benefits Office

Brookhaven Science Associates (BSA), the company that operates and manages Brookhaven Lab, announced in December 2011 that it had hired a benefits administration company — the P&A Group — to manage benefit plans for retirees, participants receiving long-term disability, and the family members who are covered by these plans. The P&A Group has been responsible for mailing bills and collecting payments since January 1, 2012.

Monthly premium payments for the people participating in our P&A-administered plans are due on the first day of the month, but payments will be accepted without consequence until the 30th. Be sure to pay your monthly premium before the 30th of each month to avoid your benefits coverage being cancelled.

Those who prefer to have monthly payments withdrawn automatically from a bank account, rather than mailing a check each month, can set up automatic clearinghouse (ACH) payments. A computer is not necessary to request an ACH form or get payment information. Instead, you can call the P&A Group at (800) 688-2611 and then select option 2, followed by option 1. They can mail you an ACH form, which you would complete and mail back to them.

If you prefer to cancel your BSA benefits, please call the Benefits Office at (631) 344-2877 or (631) 344-5126.

BNL's New 'Portal to Discovery' Offers Hands-on Summer Science Explorations for Students

Three-day mini-camps for grades 4-6, week-long camps for grades 7-9

The "Portal to Discovery," a new partnership between BNL's Office of Educational Programs and the Long Island Matrix of Science and Technology, is hosting a variety of hands-on science summer camps for students entering grades 4-12.

The three-day mini-camps at the Science Learning Center have been reserved for children/grandchildren of BNL employees at no cost. Students must be entering grades 4-6 for the "Astronomy and the Sun" camp. BNL employees can choose from sessions on July 10-12 and August 6-8. Times are 8:30-11:30 a.m. Additional sections of this mini-camp will be offered to the public for a nominal fee.

To register for the Science Learning Center mini-camp for BNL employees, contact the Science Learning Center office, Bldg. 400, Ext. 4495.

Two separate week-long programs are also being offered for students entering grades 7-9. These fee-based camps are available to the public as well as the BNL community. One course will explore alternative energy sources while the second course will examine cutting-edge engineering. Program times are 9 a.m.-2 p.m.

Formerly known as the Community Summer Science Program, these Summer Science Explorations for students entering grades 10-12 provide seven different program choices for high school students. The fee-based, week-long workshops include Physics Fundamentals, Calculus Fundamentals, Mathematical Modeling, Modern Physics, Integrating Modern Physics, Solving Protein Structures at the Synchrotron, Exploring Long Island's Diverse Ecosystems, and Marine Archaeology using underwater Remote Operated Vehicles (ROVs). Program times are 9 a.m.-4 p.m.

For more information call (631) 344-4495 or visit: www.bnl.gov/education/program.asp?q=173.

Employee Assistance Program Offerings

To attend the Employee Assistance Program (EAP) talk or webinar listed below, register with Nancy Losinno, EAP Manager, Ext. 4567 or nlosinno@bnl.gov.

Achieving Professional Success, 5/9

"Achieve Professional Success Via Emotional Intelligence" is the title of a talk to be held on Wednesday, May 9, at noon in Berkner Hall, Room B.

Emotional intelligence is a mind and skill set that includes emotional engagement with correct boundaries, empathy, social skills, ability to regulate one's own mood and emotional reactivity, self-awareness, and skills in communication.

Quitting Smoking? Webinar, 5/18

The last in a series of webinars offered through the EAP is titled, "Are You Prepared to Quit Smoking?" It will be held 1 to 2 p.m., Friday, May 18. After registering for this webinar with Losinno, she will provide you with a the web link, a call-in number, and handouts for the webinar.

CALENDAR

— WEEK OF 5/7 —

Wednesday, 5/9

***EAP Talk on Professional Success**
Noon-1 p.m. Berkner Hall, Room B. "Achieve Professional Success Via Emotional Intelligence," talk sponsored by the Employee Assistance Program. Register with Nancy Losinno, nlosinno@bnl.gov. See below.

Thursday, 5/10

***Plant Sale for AdoptaPlatoon**
11 a.m.-1 p.m. Berkner Hall parking lot, Bldg. 400 if it rains. Buy plants to benefit troops abroad. See p.4.

Friday, 5/11

***Plant Sale for AdoptaPlatoon**
11 a.m.-1 p.m. Berkner Hall parking lot. See 5/10, above.

Thursday, 5/17

Talk: Searching for Cosmic Particles
4 p.m. Berkner Hall. Sponsored by Brookhaven Women in Science, Petra Huetenmeyer of Michigan Technological University will give a talk titled "Searching the Universe for Highly Energetic Cosmic Particles and Role Models." All are welcome to this free event, open to the public. Visitors to the Lab of 16 and older must carry photo ID.

Friday, 5/18

***Webinar' on Quitting Smoking**
1-2 p.m. At your computer. "Are You Prepared to Quit Smoking?" See notice below.

— WEEK OF 5/21 —

Monday, 5/21

***Joint NSLS/CFN Users' Meeting**
All day. Berkner Hall. Plenary Session, Special Session, all welcome. See p.2.

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.

Arrivals & Departures

— Arrivals —

Brian Anderson.... Site Resources
Anna Lewandowski-Andralojc
.....Chemistry

— Departures —

Pankaj ChaudharyBiology
Jeffrey Fitts Env Sciences
Sheryl GoldenEnv Restor Projs
Jonathan HansonChemistry
Deokie Himaya..... Medical
Charles Hofmayer..... NS&T
Joonah Yoon.....CMPMS

BERA Fitness Class Sessions for May, June

Advance registration is required for the following classes. Please make checks payable to BERA and mail to: Recreation Office, Bldg. 400A.

Aqua Aerobics: 8-week session. \$32 for once a week, \$60 for twice a week. 5:30-6:30 p.m. at the Pool. Tuesdays and Thursdays, May 1 until June 21.

Pilates: 8-week session. \$40 for once a week. Noon-1 p.m. Rec Hall, Bldg 317. Tuesdays: May 8 until June 26.

Yogalates: 10-week session, now already begun, 8 weeks remain. Classes cannot be prorated. \$50 for once a week (re-posting). Noon-1 p.m. Rec Hall, Bldg 317. Mondays until June 18.

Zumba: 8-week session. \$40 once a week, \$80 twice a week. Tuesdays: May 1 until June 19 from noon to 1 p.m. at the Gym, Bldg 461. Wednesdays: May 2 until June 20 from 5:15 to 6:15 p.m. at the Rec Hall, Bldg 317.

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/.

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for laboratory employees only.

INSULATION WORKER - Under general supervision, performs installation and removal of insulation and protective coverings about piping, ductwork, fixtures, and devices as required. Performs limited removal, cleanup and disposal of asbestos insulation in accordance with applicable environmental control standards pursuant to laws and regulations governing BNL. Will be trained and must be certified as asbestos abatement worker to standards as adopted for such work by NY State. Site Resources Division Please apply to Job ID #16090.

REFRIGERATION & AIR CONDITIONING ENGINEER (TERM APPOINTMENT) - Under minimum supervision constructs, installs, repairs, maintains and operates refrigeration, air conditioning, ventilating and auxiliary and related equipment. Will perform the same work on air compressors and vacuum pumps whether or not associated with the above equipment. Shift workers assigned to Building 600 acknowledge all Laboratory alarms in the control room and make appropriate notifications. Please apply to Job ID # 16098

CUSTODIAN (TEMPORARY) - Under general supervision, performs general cleaning and housekeeping duties in all Laboratory buildings. Please apply to Job ID # 16097.

Motor Vehicles & Supplies

09 KIA SPORTAGE - 35K mi. 4cyl, 2L, 2wd, a/t, black, gd cond. \$12,500 neg. Galina, 217-549-4075 or gyakubova@bnl.gov.

09 JEEP WRANGLER - 20K mi. 4 Jeep Wrangler Tires & Rims; Stock size; 255/70/17R; Vg cond; Used less then 20k mi. \$450 neg. 516-655-6876.

08 HONDA CIVIC - 47K mi. end of '08, 4cyl, 4dr, a/t, a/c, p/s, p/w, p/l, am/fm, MP3, CD, tilt wheel, eng, ABS brakes in excel cond. \$11,800 neg. 339-3444.

08 JEEP GRD CHEROKEE LAREDO - 40K mi. green, V6, excel, dealer-maint incl 30K svce, orig ownr, avail mid-June. \$18,500 neg. 995-0816 10a-7p, jingostar1980@hotmail.com.

08 HONDA ODYSSEY EXL - leather interior, dvd, fully loaded. \$22,500. 516-521-7501.

04 KODIAK CAMPER K235 - 0 mi. 23"L, slide out, dinette, couch, 2/q beds, m/wve, oven, stove, full ba, heat, a/c, awng, antenna, cable, am/fm/cd, sleeps 6+. \$8,500. Ext. 7978.

02 CHEVROLET TRAILBLAZER - 128K mi. a/c, orig owner, great shape, reg, maint leather int, am/fm/cd, Bose sound, s/roof, ABS, tow pkg. \$5,500. Richard, Ext. 7975.

99 TOYOTA CAMRY - 127K mi. runs reliably, grey 4 dr Sedan 4-cyl, 2.2 Liter, a/t, new tires, well maintd, v/gd cond. \$4,300. 392-8768.

99 MERCURY SABLE - 6-cyl, all options, new tires, needs nothing, mechanic owned, view at on-site garage, 90-day guarantee. \$2,500. Ext. 4034.

97 TOYOTA CAMRY - 4-cyl, full pwr, clean, mechanic-owned, needs nothing, 90 day guarantee, low mi, view at on-site gar, 90-day guarantee. \$3,000. Ext. 4034.

97 DODGE NEON - 83K mi. 4 cyl, white w/gray int, timing belt at 60k mi, tuned w/oil; runs, drives like new, \$2,500 neg. Charlie, 681-9800.

91 HONDA CIVIC - 205K mi. a/t, 4drs, new tires/brakes, runs well, 33 mpg, slightly neg. \$1,300 neg. Charles, Ext. 2372 or cdparra@bnl.gov.

ALTERNATOR - from a '92 Lexus SC300 coupe, 3.0L L6 eng, \$110. Anthony, Ext. 4035.

RIKEN TIRES - 2 Raptor ZR, ultra high performance tires, 225/40R18, 92w #82151, pics avail, \$100/both. Caitlin, Ext. 7432 or cscholl@bnl.gov.

TRUCK TIRES LT275/70R18 - used radial tires; set of 4 Continental Contitrac TR LT275/70R18 125/122 ms, \$75. 404-8109.

Boats

25' STAMAS WALK-AROUND - '86 Stamas /twin '86 125HP O/B motors, solid boat n a trailer, new tires/brake lines,

needs TLC, \$1,500 neg. 516-790-0680.

18' REGAL CUDDYCABIN - full, red canvass, 4 cyl, iron Duke, I/O, runs well. \$1,500. Mike, 516-993-4313.

Furnishings & Appliances

AC - Friedrich, 21,000 Btu wall unit w/ timer, 220 volt, in gd shape, \$300/obo. John, Ext. 7939.

BABY CRIB - white, no mattress, 2/mos, orig/\$99, ask/\$5; baby walker/\$20, girl's booter seat \$5, photos avail upon request. mah_070@hotmail.com.

FREEDOM CHAIR - for handicapped or elderly, 2yrs old, pd \$8K for computer set-up, 44,560/mi, ask/\$3,500. 516-521-7501.

FURNITURE - dining set w/6 chairs and lg hutch + 2/leaves/\$200/obo; sofa/\$50/obo, pic avail. 312-3495 or gvis@bnl.gov.

FURNITURE - double sofa-bed, excel cond/\$150; 3-drawer chest w/removable changing table, gd cond/\$100. Alexander, Ext. 3712 or shura@bnl.gov.

MOVING SALE - Whirlpool drier & fabric freshener, printer, chair, cooler, baby stuff, kitchenware, etc, price & photo at <http://tinyurl.com/7ffo3jf>. 995-0816, 10a-7p, or jingostar1980@hotmail.com.

OVERSTUFFED CHAIR - lg, cream-color, 51" w, 38" d fr-to-back, approx 29" h at back, slightly soiled but cleanable, gently used, \$50/neg. Ext. 6344 or phraner@bnl.gov.

PANASONIC AIR CONDITIONER - w/ remote, old but still works, 7800 BTU/h, make offer, Model# CW-XC82YU. Mike, 365-9405 or mlopez@bnl.gov.

REFRIGERATER - Whirlpool 25cubic ft side by side water/ice on dr/\$450. Joseph, 585-0655.

PORTABLE WASHER & DESK - Haier HLP21e washer, 0.91 cu ft tub, 3 water levels, 3 wash cycles, easy to hook up/\$150; lg white IKEA Desk 60"x30", \$50. 392-8768.

Audio, Video & Computers

BLACK WII GAME CONSOLE - blk ops, MW3, mariocart w/whl, tony hawk w/brd, madden, hockey w/stks, more. Nunchucks, xtra controllers, wired headset, \$400/obo. 208-0309.

CANON 40D CAMERA KIT - DSLR kit, super lo shutter counts, <4k, kit lens 28-135mm IS, w/HOYA HMC UV, protector, extra batt, a few 12G Sandisk card/\$800. 995-0816, 10a-7p.

CANON LENS - 70-300 mm IS USM Lens, like new, used once, w/BW UV protector, \$410. 995-0816 10a-7p, or jingostar1980@hotmail.com.

SONY CLOCK RADIO - w/nature sounds, 2 alarms, audio input, sleep timer, Model ICF-C707, \$10. Cindy, Ext. 3461, 874-3652 or salwen@bnl.gov.

Sports, Hobbies & Pets

BICYCLE - Trek Mountain Bike 220, 18 gears, 24" whls, gd for teen under 5' tall, v/gd cond, new for \$270 ten yrs ago, pics avail, \$85, neg. Bob, Ext. 5588, 905-3141, howe@bnl.gov.

CIRCLEGLIDE EXERCISER - Tony Little CircleGlide Pro Total Body Exercise System w/CD, pd/ \$99.95, ask/\$50, all put together, u-pic-up. Melinda, Ext. 2280.

CONTINENTAL CARGO TRAILER - enclosed 10', 6'6"h, hvy duty, internal lights, spare tire, hvy duty ladder racks, diamond plate protec, int w/mounting racks. 922-1664.

DOG - 2 yrs old female, shepard mix, needs gd home, up to date shots/spayed. Ext. 7040 or patty@bnl.gov.

FISHING ROD - Custom, Penn International 30 TW reel w/2 pc stand-up tuna rod. Alum butt, high vis line. Mint. \$350 firm. Louis, Ext. 4417 or levers@bnl.gov.

INVISIBLE DOG FENCE - Innotek IUC-4100, brand new in box/\$250. Mark, Ext. 3970 or mwahlert@bnl.gov.

JETS TICKETS!!! - 3-texans mon 830p, cardinals sun 1p, chargers sun 820p-\$340/game (face val) 3 seats+prkg pass; 2 preseas games giants & pntrs \$170/ea, 1/2 price. 626-3724.

SHAVINGS FOR STALLS - sold in bulk, appx. 60lbs per bag, \$6/per bag. 516-818-4295.

SKATEBOARDS/PAINTBALL GUNS - 3 skatebrds; 1 ZooYork/Deck only, 1 Enjoi & 1 Plan B full board/\$125/all; Tippman Gryphon & Tippman 98 Cust, \$150/both. tlazar@bnl.gov.

STALLS FOR RENT IN RIDGE - full board, outdo ring w/lights, plenty of trails, individual turnouts, TLC for your horse, mins from Lab, \$525. Wayne, 516-818-4295.

SURF BOARD - Roxy, 7.5' light blue w/pink details, cushion, non-slip surface, leash incl, excel cond, \$400. Margaret, 219-7196.

SWIMMING POOL - Doughboy 16x28 oval, w/DE Hayward filter, pump, 2 yr old solar covr & reel, 2 yr old wint'r covr, hoses, chems, etc, many accessris, \$900/neg. Joe, Ext. 8205.

WETSUIT - Youth size 12, like new, pd/\$105, ask/\$50. Lynda, Ext. 7235.

YAKIMA BIKE RACKS - 2 upright roof racks, used but v/gd/cond, \$150/takes both. Mark, Ext. 3970 or mwahlert@bnl.gov.

Tools, House & Garden

10" CRAFTSMAN RADIAL ARM SAW - Installed on top of tool box w/rollers. Old but works perfectly. \$100. Edward, Ext. 7502.

BACK PACK POWER BLOWER - Stihl, Blower BR 600, 2 yrs old, excel running/looking cond, orig/500+tax, sell/\$285. Joe, Ext. 3783, 487-1479 or cracco@bnl.gov.

DRILL - new 3/8" Skil elect, variable spd, reversible, \$25. Cheng-Lin, 766-7189.

DRIVEWAY SEALER - Latex-ite, Airport Grade, 4/ea, 5 gal cans never opened, w/ new applicator, valued at over \$100 plus tax Home Depot, selling all/\$80. 929-3388.

MISC ITEMS - Tobi Steamer \$20; Samsung 64" 1080i TV \$400; white double dr frig w/ ice & water dispenser, \$200. 404-8109.

MITER POWER SAW - Delta 10", \$30. Steve, Ext. 7593.

RADIAL ARM SAW - Craftsman, 10" blade w/vacuum connection on blade guard, v/ gd cond, extra Blades incl, ask/175. Joseph, Ext. 8119 or jsullivan@bnl.gov.

STORAGE TANK + POWER WASHER - air storage tank portable or for Compressor 12 gal, \$25; elect pwr washr, \$35. Both grt. cond. Joe, Ext. 3783, 487-1479, cracco@bnl.gov.

TABLESAW - Makita, new, never used, list price/\$840, ask/\$500. 475-8211.

Miscellaneous

KID'S - Todays Kids colorful plastic playard: 2 sets, 6 panels, 28"x22" in ea, gd cond, \$80; Simmons mattress for crib/toddler bed, excel. \$30. Alexander, Ext. 3712.

Community Involvement

CRAFT FAIR & FLEA MARKET - Vendors Wanted at The Big Duck, 9a to 4p, Sat., 5/19 rain date Sun., 5/20, 10x10' spot \$50, Info:727-0593 or bigduck.org. Ext. 8962.

Happenings

DINNER/SHOW OUTING - to see *Jonah* at Sight n Sound Theatre in PA on Sat, Oct 13, 2012. Deposits by May 30, call for details. Kim, Ext. 2896, 399-3098 or khayes@bnl.gov.

MATH/SCIENCE CAMP - Quinipet Camp & Retreat Cntr, www.quinipet.org/, Shelter I, for children ages 11-14, Aug/25-31. \$800 (sibling discounts avail.) Registration: <http://sigmacamp.com/registration/>. Contact: 371-3271, info@sigmacamp.com.

PHOTO EXHIBIT: BNLeR Erin Gettler will share a collection of photos, titled "This Familiar Wilderness" all May at Hampton Bays Library. Opening reception: Saturday, May 5, from 2 to 4 p.m. www.thefamiliarwilderness.com.

THEME BASKET AUCTION - St. Andrew's Episcopal Church, E. Main St, Yaphank, 12th Annual Theme Basket Auction, Sat, 5/5, Admission \$5. Doors open @ noon. Fun for all! info@standrewsyaphank.org.

Free

PRICKLY PEAR CACTUS, CHIVES, - and garlic chives, in Ridge. 404-8109.

Wanted

ADOPT-A-PLATOON - Monetary donations gratefully accepted towards mailing shipments to our platoon stationed overseas and to send goodie packages to BNL family members. Thank you. Joanne, Ext. 8481.

APT FOR RENT - for Post Doc & wife, reg 2/ bdrm apt on E. LI, within 30 min dr of BNL, move in May 25, Rent <\$1400/mo, no pets, non smokers, 1/bdrm apt option at lower rent. Ofie Mante, 540-449-1980 or omante@vt.edu. BNL FAMILY MEMBERS IN MILITARY - If you have a family member that has been deployed overseas, please contact Adopt-a-Platoon so we may send them a goodie package. Joanne, Ext. 8481.

WANTED: DECK CLEANER/HANDYMAN/ WOMAN - to clean Trex deck that can't be powerwashed. 6 miles from Lab. Have cleaner, sprayer. Also other misc. work done around house. Linda, 395-6784 or ldipierro2@optonline.net.

GARDEN TOOLS - in gd cond, rakes, shovel, clippers, trowel, etc. Ext. 2198, 909-7080 or lysik@bnl.gov.

MAGIC CARDS - and the Gathering playing cards, for my two sons. Lawrence, Ext. 4797 or lvogt@bnl.gov.

MENS BIKE - used Mountain Bike that fits 6' man, not more than \$150. Caitlin, Ext. 7432 or cscholl@bnl.gov.

POP TOPS FROM SODA/BEER CANS - Collecting for Shriner's Children's Hospital. Please send or drop off @ Bldg 400A, Transportation Office. Paula, Ext. 2535.

ROOMMATE - female to share a 2/3 bdrm apt close to BNL. yixyang@bnl.gov.

USED CPAP MACHINES - Do you have an obsolete CPAP that you no longer use? I am collecting CPAP's that will be refurbished for needy people in our community. Nancy, Ext. 4567 or nlosinno@bnl.gov.

VACUUM CLEANER - Do you have an extra or a used one in gd cond? Richard, Ext. 7443 or porqueddu@bnl.gov.

Lost & Found

TODDLER SHOE - Lost on recent visit to Berkner Hall during lunch. It's white sneaker w/pink accents. John, Ext. 5077 or adbucket@cynicmag.com.

For Rent or Sale

WEEKI WACHEE, FL - priv ranch on Gulf, 70m Orlando, 45m Tampa, fly Islip direct, near beach/tennis/park, SW architecture, 3/bdrm, 2/bath, d/r, f/p, 2gar, igp in lanai, fruit trees, see review.oktane.net/House-Tour. \$450/wk or \$120,000 neg. 344-5537.

For Rent

BELLPORT VILLAGE - 1 bdrm apt in 2-Fam Hse, newly renov, wd flrs, prvt ent & drwy, enclsd porch, bk yd, village amen., util incl, no smkrs/pets. \$1,350/mo. 275-0745.

CANCUN, NY - Five Star Royal Resorts, Dec 1-8, Villa sleeps 6/\$1,100, suite/\$800 or 1 bdrm lockoff/\$600. 352-509-4265.

Administrative Computer Systems Down for Maintenance Tomorrow, 5/5

The Information Technology Division (ITD) will perform a significant maintenance of its systems on Saturday, May 5, from 8 a.m. to 4 p.m. During this time, nearly every administrative computer and web-based application on the Lab's network will be unavailable. Details: <http://1.usa.gov/K8YITu>

Skin Cancer Screenings, 6/7

On Thursday, June 7, the Occupational Medicine Clinic Health will offer a limited number of free, full-body, skin cancer screenings. To request an appointment, contact Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

BERA Update

For the latest news on BERA activities, see www.bnl.gov/bera/ or stop by the BERA Store, 9 a.m.-3 p.m. Monday-Friday, in Berkner Hall. The BERA Store has discount tickets for Splish Splash, the Long Island Aquarium, and movie theaters, as well as conference supplies and BNL souvenirs.

Join the BERA Weight Room and receive two free personal consultations each month. In May, the trainer will be available on the 8 and 17 from 5 to 7 p.m. Also see the fitness class listings on p. 3.

Trips, Events

The latest event listings: www.bnl.gov/bera/recreation/events.asp

Baseball Trips: all prices are listed per person and include a luxury bus, ticket, and driver's tip. All are 7 p.m. games. Rules: www.bnl.gov/bera/recreation/events.asp

Mets: 50 tickets are available per game. All are in Pepsi Porch; Tickets will go on sale on Friday, May 11. Limit 4 tickets per person, per game

Friday, July 20, vs. Los Angeles Dodgers, \$46

Friday, August 24, vs. Houston Astros, \$46

Friday, September 21, vs. Miami (Florida) Marlins, \$37

Yankees: 54 tickets per game. Tickets will go on sale Friday, May 18. Limit 4 tickets per person, per game.

Friday, June 29, vs. White Sox, Sect. 307, \$35

Friday, August 3, vs. Seattle Mariners, Sect. 233A, \$37

Friday, August 31, vs. Toronto Blue Jays, Sect. 434B, \$20

Thursday, Sept. 20, vs. Toronto Blue Jays, Sect. 434A, \$20

Join the Veggie Club!

Join the 'Green Thumb' community-supported agriculture (CSA) group to get fresh produce from an organic farm in Water Mill, where the Halsey family grows 350 varieties of fruits and vegetables. For 26 weeks — June 7 to November 20 — freshly picked seasonal produce will be delivered weekly to BNL for you to pick up. The fee is \$420, due at sign-up, by May 18. For more information, brochures are in the BERA Store in Berkner Hall, or contact Ruth Comas, comas@bnl.gov or Ext. 3545.

AdoptaPlatoon Event:

Plant Sale: 5/10, 11

Save some plant-buying this spring until Thursday and Friday, May 10 and 11, when the Brookhaven Veterans Association's AdoptaPlatoon members will hold a plant sale — just in time for Mother's Day on May 13. The sale will be held from 11 a.m. until 1 p.m. in the parking lot outside Berkner Hall, or in Bldg. 400 lobby in case of rain. All proceeds will go towards supporting troops in Afghanistan.

CORAM - priv rm & b/r, share home w/2 males, \$550/mo all, off stt prkg, quiet, safe n'borhd, furnd/unfurnd, backgrd/credit chk, 1st mo rent/1 mo sec. \$550/mo. 848-4381.

EAST PATCHOGUE - 1 bdrm apt on quiet cul de sac, l/r, kitch, bath, cac, priv ent, drway prkg spot, incl all utils, 13 mi to Lab. \$1,200/mo. Sue, 872-1874.

FARMINGVILLE - 1 bdrm grnd flr apt, kitch/lr combo, lg bdrm & closet, own heat, cac, utils & cable incl, no smkg/pets, 1/mo sec. \$900/mo. 974-0770.

LAKE GEORGE, NY - Lakefront cottage, fully furn, 3 bdrm, 1 ba, 2 decks, gas grill, screen prch, outdr f/p, dock, canoe, Hulett's Landg, avail 8/11-9-1. \$1,850/wk. 518-747-7821.

MASTIC - 3 bdrm, 2 f/bath, forml l/r, d/r, f/p, fully equip new eik, quiet 7 min to BNL, walk to McDs, Subway, CVS/KOHL's, no smkg/pets, 1/mo sec. \$2,050/mo neg. 339-3444.

MIDDLE ISLAND - Artistlake Dr, 5 min to Lab, 1/big bdrm, upper flr, 900SF, new appli/ decoration, 1/mo deposit, no pets. \$1,125/mo. Lei, 516-637-1088.

MIDDLE ISLAND - renov, 900 sq ft upper condo, 1/bdrm 1/ba, 10 min/BNL, heat/water incl, new applis, full w/d, 1/mo sec dep \$1,200, lease ends 5/1/2013. \$1,200/mo. 813-5097.

MIDDLE ISLAND - 2 bdrm, 2 bath condo, upper flr, 1300 sq ft, w/d, eik, 8 min to BNL, avail end May, no pets, prefer non-smkr. \$1,450/mo neg. 646-409-9715.

N. SHIRLEY - 1 bdrm apt, spacious, quiet, close to Lab, sep ent, furn, incils all, no smkg/pets. \$800/mo. Ext. 3849.

RIDGE - 1 bdrm lvgrm, kitchenette, mins to Lab, sep prkg/ent, incils all, no pets/smkg in apt. \$975/mo. Lynne, 924-0002.

RIVERHEAD - 3bdrm, 2 full ba, ranch, kit, dw, l/r, d/r, gar, new windws & furnce, quiet, lg...

...prpty, c-d-sac, nr shops, no smkg/pets, refs, cc reqd, 1/mo sec-util. \$2,250/mo. 512-6470.

SHOREHAM - share a hse w/professional, lg furnd bdrm, cable/int, no smkg/pets, 8 mi to BNL, avail now. \$650/mo. 464-8134 or gg19582003@gmail.com.

WADING RIVER - 4/bdrm Cape, full bsmt, f/p, lg eik, owner cares for home & prppty, oil heat, landld supplies service contract. \$1,750/mo neg. Joe, Ext. 3783, 487-1479.

WADING RIVER - 2/bdrm Cape, f/p, oak flrs, rug in bdrm, l/r. lg clean yd, owner cares for prptry & eik srvice, full bsmt, clean. \$1,575/mo. Joe, Ext. 3783, 487-1479.

For Sale

CENTER MORICHES - Victorian 5 bdrm, 3.5 ba, Jacuzzi, lg kit w/bkst nook, fam rm w/ fp, hwd cer flrs, fin bsmt/attic, 2 car gar, prof garden, 0.83 acres. \$569,000. 766-7189.

MIDDLE ISLAND - 4 bdrm ranch, 2 ba, eik, f/p, cac, pool, deck, fin bsmt, 2 car, sprinklers, shed, 600sq ft shop. \$279,900 neg. 775-513-3984, drfrank1953@gmail.com.

RIDGE - Colonial w/4 lg bdrms, new roof, windows, kitch, baths; wood flrs, f/p in den, Crown molding, 2-car gar, beautiful grnds. \$374,990. Ray, Ext. 3541.

SHOREHAM - 3 bdrm, 1.5 ba Colonial on c-d-sac, updated ba & kitch w/ss applis, den w/fp, bsmt, gar, lg deck & wood shed, 10 min to Lab. \$349,000. Andrea, Ext. 3347, 744-8793 or dreashouse@aol.com.

On-Site Service Station

In addition to selling gas, we provide oil or battery changes, checkups, all sorts of vehicle maintenance and repairs, New York State inspections, done conveniently while you are at work. Ext. 4034.