

Roger Stoudenburch D257109

From left, Lisa Miller, BNL, Andreana Leskovjan, Stony Brook University, and Tony Lanzirotti, University of Chicago, whose earlier work on this topic was published in the October 1, 2009 edition of *NeuroImage*

## Brain Iron as Early Predictor For Alzheimer's Disease

**Research team from BNL, Stony Brook University, the University of Chicago, the Illinois Institute of Technology, and Argonne National Laboratory uses NSLS, APS for new findings**

New scientific information relevant to Alzheimer's disease has been discovered by researchers using the National Synchrotron Light Source (NSLS) at BNL and the Advanced Photon Source (APS) at Argonne National Laboratory and published in *NeuroImage*, March 2011. This work points to the use of elevated brain iron content, already observed in late-stage Alzheimer's, as a potential tool for early diagnosis. Since the disease is usually diagnosed only in later stages after cognitive symptoms appear and treatment may not be effective, a method for early detection would be a major breakthrough in fighting this debilitating neurological illness.

Highlighting the cooperative efforts of BNL, Stony Brook University (SBU) and others, authors on the paper are: Andreana Leskovjan, SBU and BNL; Ariane Kretlow, BNL; Antonio Lanzirotti, University of Chicago; Raul Barrea, Illinois Institute of

Technology; Stefan Vogt, Argonne National Laboratory; Lisa Miller, BNL and SBU. The research was funded by National Institutes of Health, while the NSLS and the APS are funded by the DOE Office of Science's Office of Basic Energy Sciences.

It has been known for some time that the formation of amyloid plaques in brain tissue is associated with Alzheimer's. These plaques may form for years before the patient actually suffers neurological symptoms. So, much recent research has focused on finding a way to detect the disease in its very early stages when treatment would be most effective.

One line of research has centered on the observation that the brains of patients in late stages of the disease showed elevated levels of metal ions such as iron, copper, and zinc. Measuring metal concentrations in cerebrospinal fluid or using magnetic resonance...

See **Brain Iron** on p. 2



Roger Stoudenburch D0040711

Steven Cannella, BNL's project manager for the proposed renovations, holds an architectural rendering of the seminar room in the physics building.

## BNL Awards \$33 Million Contract For Lab and Office Renovations

BNL has chosen U.W. Marx Construction Company of Troy, New York, to renovate approximately 89,000 square feet of laboratories, offices, and support space within two large buildings on the 5,300-acre campus: the chemistry building and the physics building. The renovation project, for which U.W. Marx will be paid \$33 million, is expected to begin construction by October 1, 2011.

"We are honored to have been selected as the contractor for this project at Brookhaven Lab," said U.W. Marx Construction Company President Peter B. Marx. "Through U.W. Marx's six-decade history, we have continually strived to provide the very best in construction services available anywhere. We look forward to a successful project and new friendships." See **Contract** on p. 2

## In Memoriam: John H. Marburger III

Former BNL Director John ("Jack") H. Marburger III — a physicist who also served as President of Stony Brook University, Science Advisor to the President, and Director of the Office of Science and Technology Policy — died at his home in Port Jefferson, NY, on July 28, 2011, after four years of treatment for non-Hodgkin's lymphoma.

Under his leadership, BNL commissioned the Relativistic Heavy Ion Collider (RHIC) and advanced a range of scientific programs and industrial partnerships, achieved ISO14001 certification of its environmental management system, and established a Community Advisory Council that fostered significantly improved support among neighbors and other stakeholders.

"Jack Marburger was an inquisitive thinker and a champion of Brookhaven Lab's research," said Sam Aronson, current BNL Director. "Throughout his long and fascinating career, his finest qualities included his ability to listen and to find common ground among people with very different points of view. He led the Lab through one of the most challenging times in its history, restoring public trust and putting in place policies of openness, inclusion, and environmental stewardship that still guide us today."

"Jack was an expert in bringing people together — even in his final weeks and days, he dedicated his time to enhancing the relationship between Brookhaven and Stony Brook University through strategic collaborative initiatives. His calm, reasoned demeanor, elegance, and bright smile will be missed by all."

Mike Holland, DOE Brookhaven Site Office Manager, added, "Jack Marburger's contributions to science and to society were generous and profound. His vision, leadership, and gentle manner will be missed."

Peter Bond, Special Advisor to the Director and former Interim Brookhaven Lab Director, said, "Jack was the right person at the right time at BNL. He came at a time when trust between BNL and the community was lacking. He was a master at listening, interacting, and responding to the community and is largely responsible for greatly improving the relationship with our neighbors. Many of us remember him as a gentle man and a gentleman."

Peter Paul of Stony Brook University, former BNL Deputy Director for Science & Technology and BNL Interim Director, agreed that Jack Marburger was the right man at the right time at BNL.

"I remember well when Jack joined the BSA team as designated director," said Paul. "His inimical style of optimistic leadership, addressing a small group or a crowd with enthusiasm and conviction (typically standing up while buttoning his jacket) served BNL well in rebuilding its relations with Long Island and with DOE. All of us who knew him and worked with him are deeply sorrowed by his untimely passing."



Roger Stoudenburch CN 6-7-08

"Jack was an expert in bringing people together — even in his final weeks and days, he dedicated his time to enhancing the relationship between Brookhaven and Stony Brook University through strategic collaborative initiatives." — Sam Aronson

### Background in Physics

John Marburger was born on Staten Island, NY, in 1941, and grew up in Maryland near Washington, DC. He earned a bachelor's degree in physics from Princeton University in 1962, and worked for a year at Goddard Space Flight Center before returning to school to earn a Ph.D. in applied physics from Stanford University in 1967.

Marburger joined the faculty of the University of Southern California (USC) in 1966, as a Professor of Physics and Electrical Engineering, eventually becoming Chair of the Physics Department and then Dean of the College of Letters, Arts and Sciences.

While at USC, he contributed as a theoretical physicist to the rapidly growing fields of nonlinear optics and quantum optics, subjects transformed by the invention of the laser in 1960. He was a co-founder of the university's Center for Laser Studies, a consultant at Lawrence Livermore Laboratory on high power laser phenomena, and a frequent public speaker on science, hosting a series of educational programs called "Frontiers of Electronics" on CBS television.

### Growth at Stony Brook

In 1980, at age 39, Marburger came to Long Island to become the third President of Stony Brook University. During his tenure, the university's federally sponsored scientific research grew to exceed that of all other public universities in the northeastern U.S. The University Hospital opened during this time, and biological sciences became a major strength of the university.

During his presidency at Stony

Brook, Marburger served on numerous boards and committees. He chaired the New York State Governor's Commission on the Shoreham Nuclear Power Plant and the 80-campus Universities Research Association, which runs Fermi National Accelerator Laboratory and operated the former Superconducting Super Collider Laboratory during the lifetime of that project. He also served as a trustee of Princeton University and a trustee or director of many other organizations.

In 1994, Marburger stepped down from the presidency, becoming a member of Stony Brook's faculty and resuming research in optical science as a professor in Stony Brook's departments of Physics and Electrical Engineering.

### Challenges at Brookhaven

In January 1998, Marburger was named the first president of Brookhaven Science Associates (BSA), which made a successful bid to manage BNL for DOE, replacing Associated Universities, Inc. Two months later, he became the Laboratory's first director under BSA.

As Brookhaven's Director, Marburger was faced with the challenge of restoring the local community's trust in the Laboratory after legacy environmental problems, including a long-term small leak of tritium from the Lab's now closed High Flux Beam Reactor, came to the fore. He played a significant role in the Lab's environmental restoration, and he successfully rebuilt the Lab's reputation as a responsible environmental steward. Under his leadership, nine internal Laboratory organizations...

See **Marburger** on p. 2



*Brain Iron from p. 1*  
...imaging would be an attractive technique for early diagnosis because it is noninvasive. Until recently, however, not much was known about how metal ions were distributed in plaque and non-plaque tissues during various stages of the disease.

Now, through the efforts of the research team, new light has been shed on the relationship between metal content, plaque formation, and Alzheimer's disease.

**Methodology**  
The scientists used a model system of amyloid plaque formation in mice to investigate how iron was distributed in the brain cortex and hippocampus over time. The cortex is the center of higher brain functions such as thought and reasoning, while the hippocampus is important for long-term memory storage. Malfunction of both of these brain regions is associated with Alzheimer's, though the hippocampus appears to be the first and most drastically affected.

The x-ray fluorescence microscopy (XFM) technique employed at the APS and the NSLS allowed the researchers to determine how iron content changes as the diseased brain ages. Their results show that iron content is significantly higher in the cortex early in the disease and that it corresponds with the onset of plaque formation; interestingly, the iron was not found within the plaques.

Given these findings, it is clear that quantifying brain iron content could be a powerful early indicator of Alzheimer's and has great potential as a diagnostic tool.

**Importance of Right Tools**  
Lisa Miller, biophysical chemist at the NSLS and Stony Brook University, emphasized that having the right tools and techniques was critical to moving the work forward.

"Access to synchrotron light sources such as the NSLS and the APS, where we could employ XFM, was instrumental in this work because there is really no other way to simultaneously image all of the physiological metals (calcium, iron, copper, and zinc) in the brain," said Miller. "We were able to use beamline X26A at the NSLS to study the plaques, but needed the high brightness and small beams at the Bio-CAT 18-ID-D beamline at the APS to image the large cortex and hippocampus regions efficiently."

**Future Pathway**  
Miller says that the team's work "now leads us to question whether metals in the plaques are a sign of metal ion imbalance in Alzheimer's disease, causing brain cell toxicity. Perhaps the 'metallated' plaques are even toxic themselves. Understanding this mechanism is our direction for the future."

*This article was largely taken from a June 2011 science highlight by Mona Mort of Argonne National Laboratory, available on the BNL website at [www.bnl.gov/today/story.asp?ITEM\\_NO=2492](http://www.bnl.gov/today/story.asp?ITEM_NO=2492). For more information on earlier research at the NSLS on this topic, see [www.bnl.gov/today/story.asp?ITEM\\_NO=1470](http://www.bnl.gov/today/story.asp?ITEM_NO=1470).*

# In Memoriam: John H. Marburger III (1941–2011)

*Marburger from p. 1*  
...achieved ISO 14001 registration, an internationally recognized standard of excellence in environmental management. Further, he was a strong advocate of community involvement and transparency as a way to foster better relationships with the Laboratory's neighbors and stakeholders.

"At Brookhaven, Jack Marburger built a citadel to science, community and partnership," said Jean Manhaupt, an original member of the Community Advocacy Committee formed at the start of Marburger's watch, and founder of the Community Working Group that preceded it. "He passed our way, cultivated all the seeds — leaving none standing alone — and we have collectively bloomed and grown because of his spirit. I am so heartened to have been lucky enough to call him Jack."

Marburger presided over numerous groundbreaking scientific advances at the Lab, including commissioning of the Relativistic Heavy Ion Collider, the Laboratory's world-class accelerator, which produced intriguing results in record time. He also expanded a program in medical imaging and neuroscience that has gained worldwide recognition for studies of how various diseases, aging, and addictive



Roger Stoulenburgh CNE-188-00

drugs affect the brain. Recognizing the importance of industrial partnerships, Marburger also placed more emphasis on BNL's technology transfer program.

## Achievements as Science Advisor

Marburger's eight-year term as Science Advisor to President George W. Bush and Director of the Office of Science and Technology Policy began immediately following the terrorist attacks of September 11, 2001. Among his significant achievements were helping to establish a science agency within the Department of Homeland Security and working to prevent the reaction to 9/11 from undermining U.S. participation in global science. He also

worked to preserve independence in Internet governance, freeing up large blocks of the broadcast spectrum for commercial wireless applications. In addition, he re-oriented the nation's space policy following the crash of the Columbia space shuttle in 2003.

Marburger played a significant role in international negotiations on climate change that would form the basis for U.S. climate policy. Further, he played an important part in developing the president's American Competitiveness Initiative and energy-related goals, including the U.S. re-entry into a project to build a fusion reactor, the International Thermonuclear Experimental Reactor. Serving the nation at a time of deep ideological divisions, Marburger sought to objectify decision-making in science policy through a movement known as the "science of science policy," which won international recognition. At the end of the Bush presidency in 2009, Marburger was longest-service science advisor in history.

## Return to Stony Brook

Marburger returned to Stony Brook University as a physics professor in 2009. The next year, Stony Brook's new president, Samuel Stanley, asked him to take on the job of Vice President for Research. He retired for

health reasons on July 1, 2011.

The author of numerous papers in the area of non-linear optics and quantum electrodynamics, Marburger co-edited *The Science of Science Policy: A Handbook*, which was published this spring (2011) by Stanford University Press. In September 2011, Cambridge University Press will publish his book on quantum mechanics: *Constructing Reality: Quantum Theory and Particle Physics*.

Marburger is survived by his wife, Carol Preston Godfrey Marburger of Port Jefferson, NY; his son John and daughter-in-law Marianne D'Amato of Annandale, Virginia; his son Alexander and daughter-in-law Tracy Lampula of Jamaica Plain, Massachusetts; and his grandson Ian, of Annandale, Virginia.

In lieu of flowers, the Marburger family requests that gifts in Jack's name be directed to the John H. Marburger, III Memorial Fund. Please contact Stony Brook's Office of Advancement at (631) 632-6300 for information.

A memorial service will be held at Stony Brook University on Friday, September 16, 2011.

Stony Brook University President Samuel L. Stanley Jr. also wrote a message, see [www.stonybrook.edu/sb/marburger/index.shtml](http://www.stonybrook.edu/sb/marburger/index.shtml). — Diane Greenberg and Karen McNulty Walsh

*Contract from p. 1*  
The Lab's chemistry building, designed by renowned modernist architect Marcel Breuer, was constructed in 1966. The physics building dates back to 1962. Although the buildings' basic core and shell construction are sound, their labs and office spaces, utilities and environmental support systems are obsolete. U.W. Marx will install air-handling systems that are more reliable and energy-efficient with improved temperature and humidity control in both buildings. HEPA filters will be provided for nanoscience research, and updated electrical power will be installed for better functioning of sensitive research equipment. Also, four elevators will be replaced, a fire sprinkler system will be installed and safety systems updated to meet modern laboratory standards.

The total project cost for the renovation is \$50.8 million, with \$17.8 million reserved for project support activities, including architectural/engineering design; project management; BNL engineering, field support, and inspection services; construction commissioning services; safety training and oversight for the contractor and others on the project; and early site preparation activities such as removal of legacy contamination, including asbestos, heavy metal dusts, and radiological materials. DOE's Science Laboratories Infrastructure program within the Office of Science will fund the renovations.

"We have started site preparation activities for phase I and have relocated approximately 44 employees within the chemistry building," said Steven Cannella, BNL's project manager for the renovations. "Phase II requires the relocation of about 84 physics employees. These relocation efforts are currently in progress. The Modernization Project Office team executing the relocations focused on small projects that provide future benefits for BNL, such as converting underutilized storage rooms to usable labs and office space. The chemistry library collection was relocated to the Lab's main library building to make permanent office space for scientific staff with the addition of modern furniture systems."

Both buildings will be renovated to meet the standards for a LEED silver certification for commercial interiors by the U.S. Green Building Council, which evaluates buildings for sustainability, water efficiency, energy and atmosphere, materials and resources, and indoor environmental qualities. In addition, the renovations were designed to meet Americans with Disabilities Act accessibility guidelines.

The renovations in the chemistry building will contribute to growing BNL's capabilities for basic research on sustainable and efficient synthesis and use of fuels. Scientists in the renovated wing will perform research that aims to convert solar energy to chemical fuels, work on develop-

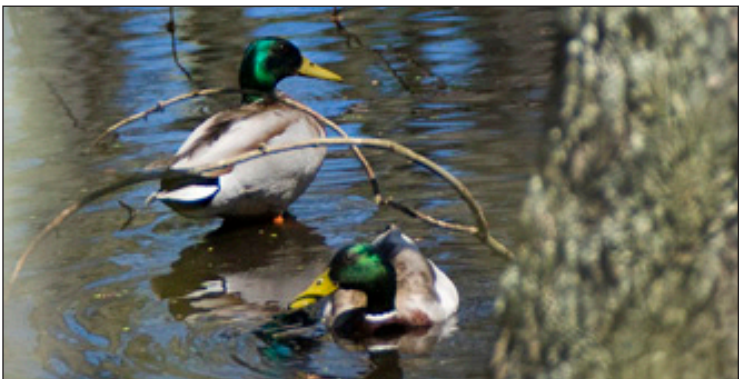
ing electrocatalysts for improved fuel cells, perform advanced battery materials research, and conduct basic research on combustion for efficient fuel use. This research has been limited by aging facilities. The new laboratories will support modern laser and instrument systems, provide improved capabilities for nanomaterials research, and upgrade chemical handling systems to meet modern safety requirements. Also, energy efficiency is expected to improve by about 50 percent in the approximately 26,000 square feet of space to be renovated.

About 2,000 physicists from around the world use the laboratory, office, and computing resources in the Lab's physics building. It is home to physicists who conduct experiments at the Lab's world-class accelerator, the Relativistic Heavy Ion Collider, and to the center for the U.S. ATLAS group that works at the Large Hadron Collider at CERN, the European Organization for Nuclear Research. The building also accommodates numerous other areas of physics research, including a leadership group in large-scale neutrino experiments and a new initiative in astrophysics. The 63,000 square foot renovations will include updating a three-story laboratory and office wing, refurbishing a seminar room, and constructing high-quality clean rooms, needed for building and testing detector components.

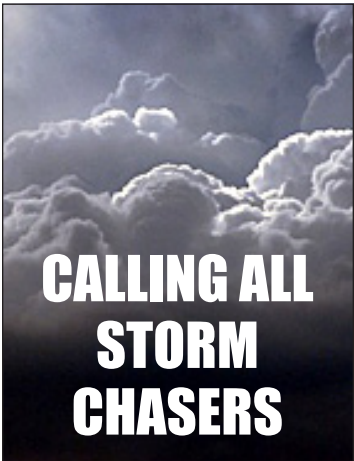
— Diane Greenberg

## Arrivals & Departures

— Arrivals —	
Michele Galletti.....	Env. Scis
Daniel Johnson.....	NNS
Eric Riehn.....	C-AD
— Departures —	
Suchit Bhattarai.....	Photon Scis
Christian Chiaverini.....	ITD
Yong Man Choi.....	Chemistry
Brian Oerter.....	C-AD
Limin Wang.....	Chemistry



Roger Stoulenburgh D260511



CALLING ALL  
STORM  
CHASERS

## Experience BNL's Summer Sundays

Each year, on Summer Sundays, the Lab is open for the public, employees, and their families to enjoy exciting science shows, tours of world-class science facilities, and hands-on educational activities.

No reservations are needed, but visitors age 16 and over must bring a photo ID. Visitors may arrive any time between 10 a.m. and 3 p.m. A different tour and new science show will be featured each week. The last facility visit takes place at 3 p.m. each week, and science shows will be held at noon, 1:30 p.m., and 3 p.m. each Sunday in Berkner Hall. A cafeteria and gift shop, also located in Berkner Hall, will be open until 2 p.m. and 4 p.m. respectively.

## This Sunday, 8/7: Storm Hunters!

Learn how meteorologists at the National Weather Service forecast the weather and track storms across the New York metropolitan area. Watch the launching of a weather balloon at 3:30 p.m. See the "Weather" show.

**Still to come ...**  
**8/14: Atom-Smashing Fun**  
Visit the Relativistic Heavy Ion Collider, a world-class particle accelerator where physicists recreate the conditions in the universe as they believe it existed microseconds after the Big Bang!



# UNNECESSARY NEAR-MISSES

## Traffic Safety and Construction Vehicles

By Chair of the Traffic Safety  
Committee Bruce Penn

We've had a series of incidents at BNL in which personal vehicles were coming too close to large construction vehicles. This puts everyone involved at great risk.

An incident occurred recently when a personal vehicle crossed through a convoy of construction vehicles moving a large crane from one location to another. This type of large crane is typically used in construction areas, such as the Interdisciplinary Science Building and National Synchrotron Light Source II sites.

The crane itself extends out over the back of its base truck by many feet and is kept in position by cables. The convoy is hard to miss, and its purpose is similarly hard to misunderstand. When the cranes are moved from one location to another, they're lowered down the backs of their base trucks and then driven at a safe and slow speed in the convoy. The lead and follow trucks are equipped with flashing yellow lights to alert other drivers.

Some drivers of personal vehicles, maybe impatient



Roger Stouenburgh 0273071

with the slow progress of the convoys, are darting between the crane truck and its following vehicle, passing beneath the stowed crane, exposing themselves, the truck driver, and the riggers on board these convoy vehicles to great risk of a collision, with personal injury or death not a far-fetched outcome.

A photo re-creation (see above) of the latest incident was arranged by Manager of the Site Services Division Tom Lamberton. This scene demonstrates what happens when a driver, stopped at a four-way intersection, decides to "break" the convoy and dart below the crane. I asked Tom what his team reported about the incident.

"You almost can't believe someone would do such a thing," he told me. "It's so startling to the riggers involved,

they're so concerned with keeping the vehicle and the crane on course and away from danger, that they don't have time to take down the license plates of offenders. In this incident they were surprised by the behavior of the other driver and felt lucky there was no collision among any of the vehicles."

The riggers are always highly attentive, including when they move a large piece of equipment around a site like BNL. "All their safety rules are in play. Their 'safety antennae' are up, you could say. They look for people alongside the road, other vehicles, any obstacles in the way or difficult road conditions, overhead wires, and more," Tom explained.

Large trucks with payloads need a lot of time to maneuver and stop, even if they're going slowly. Still, their progress is not

so slow that other drivers can't wait for a convoy to pass or even follow behind for a stretch of road until they reach their destinations. We're not asking for drivers on site to wait for 20 minutes while a slow truck goes by — we're talking about maybe 20 seconds. Your patience will go a long way toward keeping yourself and others safe.

Tom has a very personal take on this:

"These riggers have taken the safety value we talk about here at BNL and made it their own personal value. Now I just need everyone else at the Lab to do the same. Make safety your personal value. The alternative is frightening to think about."

# Safety

<http://intranet.bnl.gov/safety>

## Employee Lunchtime Tour Today, 8/5

### Visit BNL-Built System for Observing Atmospheric Particles

Mobile Aerosol Observing Systems built at BNL with DOE funds will soon be sent to the city of Lucknow, India, to help characterize the composition of aerosol particles in the atmosphere. Join the Employee Lunchtime Tour today, Friday, August 5, to visit these mobile lab research tools. Wear closed shoes and long pants to guard against ticks as the labs are situated in a field. The group will meet at noon at Berkner Hall lobby and return by 1 p.m. All the Lab community is welcome; no reservations are necessary.

## Procurement Moves Off Site Temporarily

By Manager of Procurement & Property Management Don Rawlings and Assistant Laboratory Director for Facility & Operations Lanny Bates

Major renovations that are long overdue at the Chemistry and Physics buildings (Bldgs. 555 and 510) are scheduled to begin soon. As these renovations take place, however, there will be a temporary shortage of office space on site since those who normally work in those buildings will have to work elsewhere. Therefore, in August, the Procurement & Property Management Division's (PPM) Procurement group will give up its space in Bldg. 355 on Brookhaven Avenue and temporarily relocate to an off-site office building on William Floyd Parkway, just south of the Long Island Expressway.

Temporarily relocating staff off site has not been done before at the Lab, but it is very common at other labs across the DOE complex. The solution is not optimal, but Procurement is one of the groups that can relocate without significantly impacting operations. Given the current state of the commercial real estate market, we also secured a three-year lease at a very reasonable cost.

Some key factors that were considered before making this decision included Procurement's technology requirements, the total number of moves involved, size of the space being vacated, and proximity of the vacated space for the groups that will temporarily work from there.

PPM members have worked with the Facilities & Operations Directorate for several months to coordinate this move and make sure the transition will go as smoothly as possible — both for members of the Procurement group and the customers they support here on site.

Procurement's most critical technological requirement for day-to-day operations is access to PeopleSoft and other intranet services, so we have worked with the Business Services Division to ensure that web connections between the new space off site and the servers on site will be accessible and secure. In addition to email and telephones, members of the Procurement group also will communicate with customers on site, buyers, and contract specialists via video conferencing. Ten workspaces — five on site, five off site, all with intranet access, printing capabilities, and other office necessities — have also been set up for those needing a temporary workspace at either location.

Once Procurement is established in the new location, an "open house" will be held for key customers to tour the new facility, learn how operations will be conducted, and see that, geographically, Procurement is still only a few minutes away from customers on site. By phone, email, or video conferencing, it is even closer.

## CALENDAR

Friday, 8/5

### \*Employee Lunchtime Tour

Noon. Berkner Hall lobby. The Lab community is invited to meet the group to be taken to visit BNL-built mobile aerosol observing systems and learn how they will be used in atmospheric research. The group will return to Berkner by 1 p.m. No reservations are needed. See left.

### \*Vending Machine Survey:

#### Last Day

All are asked to complete an online survey regarding service quality of vending machines on site. Please see <http://intranet.bnl.gov/NoviSurvey/n/vending.aspx>.

Sunday, 8/7

### \*Summer Sunday: Storm Hunters

10 a.m.-3 p.m. Visit the National Weather Service on site, watch a weather balloon launch at 3:30 p.m. Free, open to the public. Visitors of 16 and older must carry a photo ID. See p.2.

— WEEK OF 8/8 —

Sunday, 8/14

### \*Summer Sunday: Atom Smashing

10 a.m.-3 p.m. Visit the Relativistic Heavy Ion Collider. Stump a physicist, and meet "Einstein Alive." Free and open to the public. Visitors of 16 and older must carry a photo ID. See p.2.

— WEEK OF 8/21 —

Wednesday, 8/24

### BSA Noon Recital

Noon. Berkner Hall. Vocalist and Broadway star Melissa Errico will sing. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. Visitors of 16 and older must carry a photo ID. See notice at left.

— WEEK OF 8/29 —

Monday, 8/29

### 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.

## BERA Trips, Discounts

Get tickets at BERA Store, Berkner Hall, weekdays, 9 a.m.-3 p.m.

**Sat. 8/13.** North Fork Beer/Food Festival, Martha Clara Vineyards. \$50 (normally \$60): a meal, beer tasting, live music, cooking seminars.

**Tue. 9/6.** US Open, Flushing. Men's Round/Women's Quarterfinal, \$70. Dep. 8:30 a.m.

**Sat. 9/10.** Cabela's, Hamburg, PA. \$20. Sports, outdoors shopping. Dep. 7 a.m.

## Anyone for Golf? 8/8

The BERA Golf League invites all golfers to play in the 7th Annual Brookhaven Cup to be held Monday, August 8, at Pine Hills Country Club in Manorville. The cost to play in this fun competition is \$60 and includes greens fees, a golf cart, a bucket of balls and prizes. For more information, contact Jeff Williams, [jwilliams@bnl.gov](mailto:jwilliams@bnl.gov).

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

A TIAA-CREF consultant will visit BNL on August 18 and 23, and September 7, 8, 12, 19, and 27, to answer employees' questions about their financial matters. For an appointment, please call 1-800-732-8353 or go online at [www.tiaa-cref.org/bnl](http://www.tiaa-cref.org/bnl) and select "set up a meeting."

## SCCC Course on Accounting Offered on Site

Suffolk County Community College (SCCC) will offer the following course on site for the fall 2011 semester depending on enrollment. Fifteen students are needed to hold a course. Registration deadline is August 19, 2011.

### Principles of Accounting I

Computerized enhanced instruction examines nature and purpose of accounting theory and procedures through study of accounting cycle, asset valuation and financial statements. Develops foundation of accounting knowledge for additional learning in subsequent courses. No prerequisite. 4 credits.

Employees who take college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at 75 percent for undergraduate courses. For more information, contact Starr Munson, [munson@bnl.gov](mailto:munson@bnl.gov) or Ext. 7631.

## BSA Noon Recital, 8/24

## Vocalist Melissa Errico to Perform

Vocalist and Broadway star Melissa Errico, fresh off an exciting summer playing opposite Jeremy Irons in *Camelot*, will perform a special concert on Wednesday, August 24, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab 16 and older must bring a photo I.D.

Tony nominee Errico will be accompanied by her father, pianist Michael Errico, in a program that includes classical musical theater songs by Rodgers and Hammerstein, Irving Berlin, and Stephen Sondheim, as well as treasures by Michael Legrand from her upcoming recording *Legrand Affair* (produced by Phil Ramone, release date: October 18, 2011 on Ghostlight Records). Other songs will recall her starring roles in such Broadway musicals as *Les Miserables* and *My Fair Lady*.

Errico's additional Broadway credits include *Anna Karenina*, *High Society*, and Michel Legrand's *Amour* and *Dracula*. In the 2009-2010 New York theater season, Errico made a trium-



phant return to Broadway (since having three daughters, all now under age five) and starred in the Rosemary Clooney role in *White Christmas* followed by an acclaimed performance in the title role in George Bernard Shaw's *Candida*, in which she was called "gorgeous...a delight to behold" (*New York Times*). The role earned her a fifth Drama Desk nomination and was filmed for Lincoln Center. She went on to star in the film *Patrimony* opposite Robert Vaughn, which premiered at the Boston Film Festival in March 2011. She played Fiona in *Brigadoon* for one night on Broadway in June 2010, in an allstar benefit concert *The New York Times* called "exquisite" and "beautifully sung."



## 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.

**REFRIGERATION & A/C ENGINEER (LG-10) (Temporary 3 months) - 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. Site Resources Division. Please apply to Job ID # 15849.**

### Motor Vehicles

08 BMW 335I COUPE – 56.5K mi. bi-turbo, leather, s/roof, sport pkg, 6/spd trans, serv by bmw, \$27,900 neg. Brandon, Ext. 4028.

06 BMW 325i – 55K mi. black, 6cyl, 4dr, am/fm, cd, a/c, a/t, o/d, c/c, new batt, abs, lthr, p/l, p/w, \$19,000 neg. 626-6684.

05 MERCURY GRD MARQUIS GS – 66K mi. 4/dr sdn, p/s, CD, traction control, new brakes, adult driven. \$7,200 neg. 929-7289.

04 CHEVY MALIBU – 104 mi. gd cond, great mileage. \$4,300 neg. Lee, Ext. 5785.

03 JEEP GRD CHEROKEE LTD – 134K mi. w/blk lthr, m/roof, all pwr, heatd seats, V8, hitch, v/clean. \$6,200 neg. 772-359-9198.

02 KAWI VULCAN 1500 – 14K mi. classic, cust seat, new pipes, extras, bags, lgge rck, rider pass backrest. \$6,200 neg. 942-9284.

02 CHEVROLET CAMARO – 38K mi. convertible, 35 Anrv Ed, Z28, V8, loaded, mint, soft top, pic. \$11,000 neg. 275-0694.

01 HONDA ACCORD – 159K mi. excel cond, p/w, p/s, a/c, moonroof. \$3,400 neg. Chuyy, Ext. 4431 or cliu1@bnl.gov.

99 VOLVO S80 TURBO – 117K mi. a/t, a/c runs cold, heatd seats, 2 new tires, am/fm cd, nds some mech work, \$3,000 neg. 612-4568.

96 HARLEY D SPORTSTER – 36K mi. 900cc, huggerlow, wdshield, 3.25/gal tank, Cust exhist, more. \$2,650 neg. 807-1969.

81 HONDA CB750 CUSTM – 19.8K mi. windshld & rear rck, inclcs bike cover & shop manual, \$1,950 neg. 741-9169.

81 DELOREAN GULLWING – 56K mi. orig dealer maintd, full records, driven regularly, v/gd cond. \$20,000 neg. Peter, Ext. 7657.

ALL-TERRAIN TIRE – Michelin ATX, P235-65/R17, \$50. Karl, Ext. 3116.

### Boats

1986 BAYLINER CAPRI – '98, 120 hp mercury force eng w/low hrs, trailer, boat re-upholstered, \$1999.00. Bob, 804-2438.

WATER SKIS - STARTER – O'Brien Junior/\$35. Mark, Ext. 2599.

### Furnishings & Appliances

AIR CONDITIONER – Frigidaire 8000 Btu, slider through wall unit, almost new, FAK085Q7 orig/\$399, ask/\$250. 786-6363.

AIR CONDITIONER – Friedrich, 21,000 Btu, wall unit, 220 volt, excel shape, \$400/obo, pd/\$1300 6 yrs. John, Ext. 7939.

AQUARIUM SWING – w/water globe, lights, characters, mobile, FPrice, 8 songs, 3 ocean snds, \$40, pics. Joe, Ext. 3252.

ARMOIRE – \$375, like new, light wood, w/drawers, 40"wx21"dx68"h, pics avail. 935-3777 or lotusexp@yahoo.com.

BERMEX KITCHEN TABLE SET – maple table, 8 chrs, all wood, 60x60 w/leaf, ask/\$1000, pic avail. f150lady02@yahoo.com.

BONAVITA CRIB – quality Italian crib, solid wood, inclcs mattress, nat. wood color, pics avail upon request, \$160. Ext. 3621.

COMPUTER CART – gd for lcd monitor/laptop, pullout keybrd tray, casters for easy movement \$15. JS, 344-4290.

DINING & BED SETS – Barely used, 7-Pc Brn Marble table, lthr chrs-\$585, pics, 1/q bed w/hdbrd/mtrrs, \$375. 646-339-5777.

# Driving Forces: BNL Volunteers Gather Goods for Charity

## You can help so much by donating back-to-school supplies and canned goods

It seems as though school just let out for the summer, but already the “back-to-school” shopping ads are popping up all over Long Island. Fortunately, hundreds of children in low-income families won't have to go to school with empty backpacks, thanks to a yearly school supplies drive organized by Brookhaven Town Interface.

Interface is a partnership between the Town of Brookhaven and its “good corporate neighbors,” who work together to help provide for families in need. Contributing groups range from small-scale businesses like local delis and hair salons to large government operations like the IRS and BNL.

Christine Carter, BNL's supervisor for quality of life, BERA, and Lab recreation programs, also volunteers her time as an Interface board member and helps ensure that Lab employees can easily donate to the cause. Carter coordinates the monthly filling and emptying of bins for the back-to-school drive as well as the holiday toy drive around Christmas time, both of which are run by Interface.

“I'm just the liaison between Brookhaven Town Interface and BNL,” says Carter of her role in the organization's various collection activities. “Lab employ-



Christine Carter (right) and Linda Rundlett by the donation bins in Building 400 Not pictured: Linda Greves, co-chair of the food drive.

ees are off-the-charts generous in giving, whether it's a raffle or a donation of a backpack or a prom dress. And Brookhaven Town Interface makes that generosity last and last. They're the clearinghouse that supports about 20 other community agencies. So no matter what a family's need is — food or school supplies or clothing — they can go to one of those agencies, and Interface can take it from there.”

Food drive donations are picked up monthly by two other Lab employees, Linda Rundlett and Linda Greves. Since the '80s, food items have gone primarily to St. Anthony's Parish

Outreach in Rocky Point, but during the holidays and times of emergency, Interface also runs a food drive and receives items from the Lab.

“The wonderful thing about the food drive is that every single penny, every single can donated goes directly to the people who need it, because we have no overhead,” says Rundlett. “And — we're good shoppers! Whenever someone sends us a check, we spend it wherever we can get the best bargains on non-perishable items and the best two-for-one deals.”

Carter and Rundlett are also thankful for the cooperative ef-

forts of the American Physical Society (APS), which partners with the Lab in donating to the food drive, and for the many volunteers across the BNL campus who assist in delivering food from various departments to the on-site storage site, where they are picked up every month.

“The food drive has been around so long and is so well ensconced in the Lab that it basically runs itself,” Rundlett says. “Chris Carter organizes the volunteers for all Interface activities, and Linda Greves' and my responsibility is to monitor the checking account for the food drive, manage every penny, pick up the food, and of course, go shopping when people make cash donations — which is a big job in and of itself. If you've ever held a bag with more than a few cans in it, you know they can get pretty heavy pretty fast. Just imagine a hundred dollars' worth!”

The back-to-school drive runs through August 25. Anyone who would like to donate notebooks, calculators, markers, etc., to kids in need of supplies can find the designated bins in the lobby of Building 400. The food drive takes place year round, and bins can be found in most major buildings on site.

— Emily Ruppel

**SECTIONAL SOFA** – apt size w/full sleeper & chaise, off-white, zip cushions. \$100/obo. George, Ext. 5298, 591-1312.

**SLEIGH BED** – q/size, iron, antique brnz fin, paintd wheat desn on hdbrd/ftbrd w/frame, hdware, \$275, pic avail. 395-9610.

**TODDLER TRAIN BED** – \$50 Little Tikes toddler train bed, <http://tinyurl.com/3md5seg>, Rob, bnltoddlerstuff@gmail.com.

**WEBER HUGE BBQ** – 7420001 Weber Summit S-620 outdr nat gas grill, st/less steel, used 2 yrs, pd over/2K/new, \$600. Ext. 7443.

### Audio, Video & Computers

**2 BLACKBERRY CELL PHONES** – for sprint sale \$80/ea, both/\$150 only 1 charger avail, 602-614-6729 or rubinoj@bnl.gov.

**DELL STUDIO 1555 LAPTOP** – 2.2 GHz Intel Core Duo CPU, 64-bit Win7 OS, 4GB RAM, 500GB hd, more, 1.5 yrs old, \$700. Ext. 7570.

**HITACHI 57** – excel pic, perfect cond; HD-Ready, HDMI connects, virtual surround, \$250/neg, local deliv neg, pics. Ext. 7443.

**TV – 13” JVC**, white tube, \$15. Theresa, 935-3777 or LOTUSEXP@YAHOO.COM.

### Sports, Hobbies & Pets

**DRUM SET GROOVE PERCUSSION** – 5 pc Pro set. Bick w/hdwre (no snare std) Sabian B8 hihats, more. \$575/obo. Bob, Ext. 8141.

**FERRETS** – two 5 yr old females, spayed, w/cage & supplies, need loving care, orig/\$400, sale/\$75/neg. Ext. 4289, 219-8941.

**FISHING RODS/ITEMS** – Shimano Super Ultra It FX2550 5.5”; 2 pc w/Daiwa Megaforce +Reel/ \$50 combo, Shimano-Quickfire Graphite C Special 6.5” 2 pc w/Abugarcia cardinal #553 high spd retrieve reel combo/\$50. 786-6363.

**FRENCH STAND UP EASEL** – wooden, \$25. Donna, Ext. 2716, 878-2425.

**NEPTUNE ROWING MACHINE** – 6 mos old, grt cond, orig/\$800, ask/\$500/obo. Ben, Ext. 5839 or johnsonb@bnl.gov.

**PUNCHING BAG** – Everlast canvas heavy bag, in grt shape, needs hook to hang up, pic. \$20. Paul, Ext. 2899 or porfin@bnl.gov.

**PUPPIES** – 2/Yorkies Boy & Girl ready for new home, photos avail ONLY if you are interested. Menzel, Ext. 4495, mjones@bnl.gov.

**RECUMBENT BIKE** – Stamina, Resistance/\$50. Theresa, 935-3777.

**TODDLER SWING/SLIDE** – \$40; Little Tykes Swing along Castle, <http://tinyurl.com/3j7gpa>, rob, bnltoddlerstuff@gmail.com.

**TREADMILL** – Pro-form 1100, 2 yrs old, barely used, orig/\$800, 12 built-in Personal Trainer Workouts, ask/\$350. 419-6854.

**YOUTH COMPOUND BOW** – camouflaged bow w/arrows, target, accessories, Photos avail, ask/\$125. Ext. 3932.

### Tools, House & Garden

**12-TON HYDRAULIC PRESS** – Shop press, well used, hand bottle jack operated, \$60.Ext. 7443 or porqueddu@bnl.gov.

**PATIO UMBRELLA** – tilt crank/concrete base, new cond/\$50; Rope Hammock fr Pawley's Island, new cond/\$40. 281-2767.

**SANDBLAST CABINET** – w/TIP hardware, inclcs stand/light and new unopened 50# pail of blasting media, \$300. Ext. 7443.

**SERVING BOWLS** – decorative jeweled fruits in glass bowl/\$5; ceramic “autumn” bowl, 12”d, 5”h, pics, \$5. Paul, Ext. 2899.

**SLIDING GLASS PATIO DOORS** – pr, 36w x68h, wood trim int, \$50/obo. Ext. 3116.

**TORO 22” LAWN MOWER** – Recycler rear bagger, 1 yr old, lg rr whls, self prop, Briggs & Strtn eng, ask/\$195, orig/\$300. 849-5887.

### Miscellaneous

**AB CIRCLE PRO** – incl instructs & video, barely used, ask/\$150. Lynne, Ext. 5165.

**AUDI AND VW REPAIR** – Certified VW tech w/7 yrs dealer experience. All types of repairs, 484-9888 or wfieiltz@gmail.com.

**CAR SEAT & CAT CARRIER** – Eddie Bauer, blue/tan, Juvenile, holds 30-80 lbs, \$35; cat carrier/sm. \$10. Corinne, Ext. 7398.

**CELL PHONE** – Verizon Blackberry Curve 8530 w/4 cases & 8 gb micro SD disk \$100. Karen, Ext. 4432.

**HP COMPACT PHOTO PRINTER** – Photosmart 8536, ask/\$50. Lynne, Ext. 5165.

**JOURNEY TICKETS** – 4/Journey/Foreigner/ Night Ranger, Jones Bch, 8/17, Orch G, Rw SS, seat 1-4, in prs, face value. 766-0423.

**PLASTIC SHOE STORAGE BOXES** – 10 clear w/lids, \$2/ea or \$15/all. Tom, Ext. 3085.

**POWER/CHILL** – Thermoelectric cooler, h/c, 40 qt capac, \$50; Exersaucer car, \$20; girls bike, \$20. Ext. 2716, 878-2425.

**ROOCASE** – Executive e-Book case, leather/storage flap/magnetic closure, red, in box, never used, \$25. 878-2425.

**THULE 846 QUEST CARGO BAG** – attaches to all vehicle roof racks, purchased at Sears, unused, ask/\$80. 786-6363.

**VERA BRADLEY HANDBAG** – authentic, brand new never used, style is the Bowler sitting in a tree, \$40. costrick@bnl.gov.

### Yard & Garage Sales

**PATCHOGUE** – Sat, Aug 6, 9am-4pm, something for everyone. 862 Old North Ocean Ave. Kathy, Ext. 2818.

### Happenings

**CARIBBEAN CARNIVAL CRUISE** – 7 Day, Apr 15, 2012: St Thomas, Barbados, St Lucia, St Kitts, St Marten w/1-fun day at sea, all for \$846, 72 dbl occup balc, call for details. Kim, 399-3098 or khayes@bnl.gov.

**MACHU PICCHU AND THE GALAPAGOS** – a multi-media program by Richard Witkover, Riverhead Library, Aug 16th, 6pm. Visit [www.witkover.co](http://www.witkover.co). Richard, 727-3228.

**THAILAND...BANGKOK AND BEYOND** – A multi-media program by Richard Witkover, Hauppauge Library, Aug 10, 7pm, visit [www.witkover.com](http://www.witkover.com). 797-1600.

**WOUNDED WARRIOR GOLF OUTING** – Hosted by VFW Post #6249 in Rocky Point. The 4th annual outing will benefit wounded soldiers who have fought for our freedom. Calverton Links Sept 26. Kevin or Mike, 744-9106, vfw6249golf@yahoo.com.

### Wanted

**BIKE RACK** – hitch mounted that holds 2-4 bikes. Charlie, Ext. 4736 or ccardone@bnl.gov.

**COFFEE TABLE** – used. 344-4324.

**INVERSION TABLE** – to help w/chronic neck pain, please contact me if you have one you no longer want and/or wish to sell. Thank you. glitter5187@hotmail.com.

### Lost & Found

**BASEBALL GLOVE** – child's, found at softball fields, Rawlings, brown & black. Frank, Ext. 5010 or fearlino@bnl.gov.

**BOLLE SUNGLASSES** – I left them on the field near Curie/Guest House in mid-July, black frame and lenses. Gene, Ext. 7953.

### For Rent

**BROOKHAVEN/BELLPORT** – 3 br 50's ranch, 1 bdr = share office, hwd flrs, new bdrm, , Cbl/ int, water, heat incl, elect not incl, 1 mo rent + sec down. \$900/mo. coachperjv2@aol.com.

**MANORVILLE** – lg studio in estate home, over 3 acres, quiet, bright, kitchenette, full bath, pvt ent/prkg, 5 min to BNL, incl all utils & DirecTv. \$850/mo. 874-9639.

**MEDFORD** – 2 bdrm, 2 full baths balcony, dw, w/d, walk in closet, 1248 sq ft, gated community 1/mi n. of LIE on route 112, 15 mins to BNL. \$1,700/mo. Ext. 4894.

**MIDDLE ISLAND** – spacious 1 bdrm apt, kit w/all new applies,l/r,b/r, lg walk-in closet, full bath,priv ent, all util incl, off rd prkg, no pets/smkg. \$1,200/mo. Boyzie, Ext. 3951.

**RIDGE** – studio, priv ent/prkg, 1 bdrm, l/r, kitchenette, mins fr Lab, non-smkr/ no pets, avail 08/01. \$975/mo. 924-0002.

**RIDGE** – rm, v/close to BNL, all util incl w/ int service, new paint & carpet. \$625/mo neg. 917-721-2277.

**RIDGE** – 4 rm apt, 4 mi to BNL, sep outside ent, off st prkg, all util incl cable/int/heat/ elec, Prof singl pers, no smkrs/pets, flexible lease, 8/15. \$1,000/mo. 516-885-9113.

**SHIRLEY** – Studio for one, stove kitnette, l/r/bdrm combo, prv ent/bath/nr stores/ beach/liir/hwys/no smkg/pets, 15 min to Lab, 1/mo sec. \$650/mo. 804-8609.

### Hold That Date —

## 9/23 — It's the 'End of Summer Bash'

Summer is still very much here, but it's not too early to start saving special dates such as the End of Summer Bash to be held on Friday, September 23, from 6 p.m. at The Flaming Hearth, 756 Horseblock Rd, Farmingville, NY. Tickets, at \$10 each in advance, cover appetizers and music by DJ Alex Petway. There will be a cash bar and a 50/50 raffle. For more information, contact Charles Gardner at 631-219-2884 or [chuckg@bnl.gov](mailto:chuckg@bnl.gov).

**SHOREHAM** – clean 1 bdrm furn studio apt, sep ent & thermo, full bath, kit, patio, big yd, cable TV, no smkg/pets, 7 min to lab, avail Sept 2011. \$750/mo. 821-4318.

**WADING RIVER**, – spacious 1 bdrm apt, lg kitch, l/r, d/r full ba, Waterfront priv beach, priv ent/prkg, ilncl heat, elec, no smkg/pets, 1 mo rent + sec. \$1,200/mo. 487-6841.

### For Sale

**BAYPORT** – charming country-style 7 rm, 1bath Cape close to Great South Bay and ocean, v/priv/quiet, lovely fenced. \$409,000. 472-1735.

**CALVERTON** – Move Right Into charming cape, 2bdrm, 2ba, kitch, d/r, lg l/r w/ vaulted ceilings, quiet n'borhd w/views of Swan Lake. \$299,000 neg. 831-0152.

**SELDEN** – CO-OP 1 bdrm, lg l/r, full kitch, d/r w/ hwdw flrs, full ba, lots storage, priv patio/entr, cac, 2nd flr unit many extras, 10 min to BNL. \$105,000. 516-769-5370.

**SHOREHAM** – 3 bdrm, 1.5 ba Col on cul de sac, updated kitch w/stnless applies, updated ba, new w/d, den, f/p, deck, wood shed & SWRS. \$369,000. 744-8793.

### In Appreciation

We are so grateful for your kindness and generosity after the passing of Terri's Dad, John Reeves, in July. Thank you for your support during this sad time in our lives. – Terri & Ron Loffredo

### On-Site Service Station

We provide all types of service, from oil changes to New York State inspections to diagnosis and repairs. Call Ext. 4034.