

## Economic Impact Report for BNL Issued Today

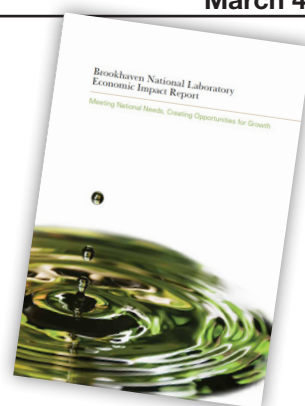
A report issued today by Appleseed, a Manhattan-based consulting firm, shows Brookhaven National Laboratory's significant impact on the economy of Long Island and New York State. Titled *Meeting National Needs, Creating Opportunities for Growth*, the report provides statistics on

Brookhaven Lab's direct spending as well as secondary economic impacts of spending, also known as the "ripple effect."

The report was released during the State of the Lab briefing for elected officials and local business leaders this morning, March 4, at BNL. During

the event, Lab Director Sam Aronson provided an update on BNL's advancements in renewable energy research, important projects, and local and statewide economic impact.

The Appleseed report may be viewed at [www.bnl.gov/economic](http://www.bnl.gov/economic).



Roger Stoutenburgh D0760211

### Carol Kessler, New NNS Chair

Carol Kessler, former Director of the Center for Global Security at DOE's Pacific Northwest National Laboratory (PNNL), has been named Chair of BNL's Nonproliferation and National Security Department (NNS), effective January 31. She succeeds Joseph Indusi, who had been the Department Chair for the last 10 years. Indusi will now serve as program manager for BNL's work with the National Nuclear Security Administration and the Lab's customers in the intelligence community.

With 2011 planned expenditures of approximately \$31 million, NNS has 67 full-time employees who conduct research for DOE and other government agencies to safeguard nuclear materials and prevent the proliferation of nuclear, chemical, and biological weapons in the U.S. and throughout the world. These efforts extend to arms control verification and technical support. In addition, the department develops technology for counterterrorism; critical infrastructure protection, especially advanced detectors and radiological protection; and provides training for others in these areas.

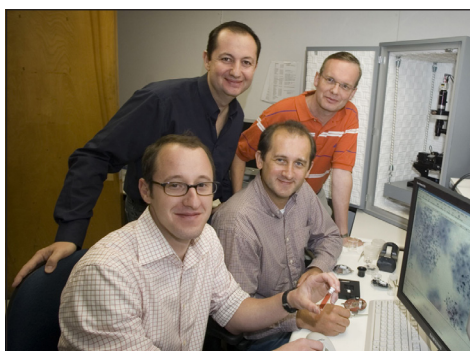
"I am very pleased to be chosen for this position," said Kessler. "My background and experience in the areas of national security, nuclear energy, and non-proliferation have prepared me for the important challenges that lie ahead for the department."

Kessler's plans for the department focus on building up its capabilities, especially in international safeguards, including hiring new staff and offering on-the-job training so that new personnel can develop the expertise needed to support the Lab's clients. She will also concentrate on growing BNL's work in homeland security regionally and nationally.

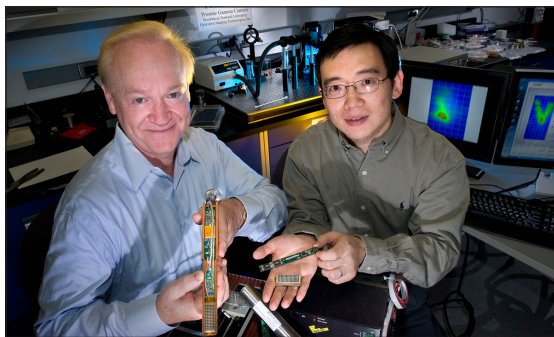
Kessler earned a bachelor's degree in bio-geology from Brown University in 1975, and she began her career as an oceanographer working at the U.S. Geological Survey and then at the Marine...

See *Carol Kessler* on p. 2

### BNL's Gordon Battelle Prize Winners



Standing: Oleg Gang (left) and Daniel van der Lelie. Sitting: Mathew Maye (left) and Dmytro Nykypanchuk



Ralph James and Yonggang Cui



Relativistic Heavy Ion Collider

### Gordon Battelle Prizes Awarded For Scientific Discovery, Technology Impact

BNL won three of 10 prizes given for the first time by Battelle for scientific advances and technology innovations. Battelle, the world's largest nonprofit independent research and development organization, along with Stony Brook University, comprise Brookhaven Science Associates, the company that manages BNL for DOE. Each of the award-winning teams will receive a \$5,000 education grant provided to a school of their choice.

The winners were chosen from 19 entries submitted by laboratories for which Battelle plays a significant management role. BNL won two awards in the category of scientific discovery, which includes scientific advances published within the last three years that have significantly advanced human knowledge in any field of the physical, life, or social sciences. Also, a winning entry from BNL was chosen in the category of technology impact, which includes technology innovations that are on track, or have high promise, to provide substantial social and/or economic impact.

The winning scientific dis-

coveries included a new way to use a synthetic form of DNA to control the assembly of nanoparticles; groundbreaking investigations that revealed new data about the nature of matter as it existed just microseconds after the Big Bang; and, in the area of technology impact, BNL won for the invention of ProxiScan™, a gamma camera that can detect prostate cancer at a very early stage.

BNL scientists Oleg Gang and Dmytro Nykypanchuk, with former BNL researchers Daniel van der Lelie and Mathew Maye, performed forefront research at the Lab's Center for Functional Nanomaterials that allowed them to create three-dimensional and small-cluster structures from nanoparticles using synthetic DNA. These types of structures might be useful, for example, in solar cells, as biosensors, and as new materials for data storage. The research demonstrated for the first time the programmable self-assembly of dissimilar nanometer-scale building blocks into three-dimensional ordered structures, and...

See *Battelle Prizes* on p. 3

### Hyperactive Nerve Cells May Contribute to Depression

**Identification of cellular mechanism could lead to novel and effective treatments**

Scientists at BNL, Cold Spring Harbor Laboratory, and the University of California, San Diego (UCSD) School of Medicine, have identified hyperactive cells in a tiny brain structure that may play an important role in depression. The study, conducted in rats and appearing in the February 24, 2011, issue of *Nature*, is helping to reveal a cellular mechanism for depressive disorders that could lead to new, effective treatments.

The research provides evidence that inhibition of this particular brain region — the lateral habenula — using implanted electrodes can reverse certain behaviors associated with depression, and also provides a mechanism to explain this effect. These findings lend support to the use of deep brain stimulation as a clinical treatment for people with long-standing, treatment-resistant depression.

This research was supported through Laboratory Directed Research and Development funding at BNL, and by the Simons Foundation, the Dana Foundation, the National Institute of Mental Health, and a Shiley-Marcos endowment at UCSD.

"This research identifies a new anatomical circuit in the brain that mediates depression, and shows how it interacts with the brain's reward system to trigger a constant disappointment signal — which certainly would be depressing," said Fritz Henn,



Fritz Henn

Joseph Rubino D2500406

a neurobiologist and psychiatrist at BNL and Cold Spring Harbor laboratories and a co-investigator on the research. "But," he added, "identifying this circuit and how it works may open new doors to reversing these effects."

For example, said co-investigator Roberto Malinow, a professor of neurosciences at the UCSD School of Medicine, "It's possible that the genes specifically expressed in these neurons could be targeted genetically or pharmacologically in order to manipulate them and reduce depression."

In addition to Henn and Malinow, co-authors include: Bo Li, UCSD and Cold Spring Harbor; Joaquin Piriz, UCSD; Martine Mirrione, Cold Spring Harbor and BNL; Chihye Chung, UCSD; Christophe Proulx, UCSD; and Daniela Schulz, BNL.

See *Depression* on p. 2

### BSA Distinguished Lecture Today, 3/4, 4 p.m.

#### Life at the Single Molecule Level

#### Presentation: 'The 2012 Project,' 3/8

**Increasing the number of women in public office in the U.S.**

A presentation titled "The 2012 Project: A Year of Opportunity for Women in Energy, Technology and Science — Step Forward and Run," will be held in Berkner Hall on Tuesday, March 8, from 4 to 5 p.m. Sponsored by Brookhaven Women in Science, a not-for-profit organization that promotes the advancement of women, the presentation will be given by Debbie Walsh, Director of the Center for American Women and Politics at Rutgers Eagleton Institute of Politics, and Meryl Frank, U.S. Ambassador to the United Nations Commission on the Status of Women.

The event is free, and no pre-



Debbie Walsh



Meryl Frank

registration is required. Visitors to the Lab age 16 and over must carry a photo ID. For more information, call 631 344-7105, or write to [kwalker@bnl.gov](mailto:kwalker@bnl.gov).

The 2012 Project's nonpartisan, national vision is to encourage women with expertise in...

See *2012 Project* on p. 3



### CALENDAR

OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Events flagged with an asterisk (\*) have an accompanying story in this week's Bulletin.

— REGULARLY —

**Weekdays: Free English for Speakers Of Other Languages Classes**  
Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See <http://www.bnl.gov/esol/schedule.asp> for schedule. Jen Lynch, Ext. 4894.

**Mondays & Thursdays: Kickboxing**  
\$5 per class. Noon–1 p.m. in the gym. Pay as you go. Ext. 2873.

**Mon., Tues., Thurs., & Fri.: Tai Chi**  
Noon–1 p.m., B'haven Cntr (Bldg. 30), N. Rm. Adam Rusek, Ext. 5830, [rusek@bnl.gov](mailto:rusek@bnl.gov).

**Tues.: Hospitality Welcome Coffee**  
10:30 a.m.–noon. Rec Hall (Bldg. 317). Meet over coffee. Children welcome. Ext. 2873.

**Tuesdays: Zumba**  
Noon–1 p.m., in the gym (Bldg. 461). Registration required, Ext. 2873.

**Tuesdays: Knitting Class**  
2–4 p.m. Rec Hall (Bldg. 317). Learn to knit/crochet — all skill levels. Free. Ext. 2873.

**Tuesdays: Toastmasters**  
Two monthly meetings: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Room 160. Guests and visitors welcome. <http://www.bnl.gov/bera/activities/toastmasters/>.

**Tuesdays & Thursdays: Aerobic Fitness**  
5:15–6:30 p.m. in the Rec. Hall (Bldg. 317). \$5 per class, or 10 classes for \$40. Pat Flood, Ext. 7886 or [flood@bnl.gov](mailto:flood@bnl.gov).

**Tues., Wed., & Thurs.: Rec Hall Activities**  
5:30–9:30 p.m. in Bldg. 317. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

**Tuesday & Thursday: Aqua Aerobics**  
5:30–6:30 p.m., Pool (Bldg. 478). Registration required, Ext. 2873.

**Wednesdays: Ballroom Dance**  
5:15 p.m., 6:15 p.m., and 7:15 p.m. N. Ballroom, Brookhaven Center (Bldg. 30). <http://www.bnl.gov/bera/activities/dance/default.asp>.

**Wednesdays: Pilates**  
5:30–6:30 p.m. at the Rec Hall (Bldg. 317). Registration required, Ext. 2873.

**Wednesdays: Play Group**  
10 a.m.–noon. Meet at Rec Hall (Bldg. 317). Parents meet while infants/toddlers play. For events, see <http://www.meetup.com/BNL-Playgroup/>, or call Ext. 2873.

**Wednesdays: Yoga**  
Noon–1 p.m., B'haven Center (Bldg. 30). Free. Ila Campbell, Ext. 2206, [ilac@bnl.gov](mailto:ilac@bnl.gov).

**1st Wednesday of month: LabVIEW**  
1:30–3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379.

**Thursdays: BNL Cycletrons Club**  
5 p.m., Brookhaven Center. First Thurs. of month. Tim Devine, Ext. 2350.

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

**Thursdays: Postdoc Social Night**  
6:30 p.m. ASAP Lounge (Bldg. 462). [www.bnl.gov/asap](http://www.bnl.gov/asap).

**Fridays: Family Swim Night**  
5–8 p.m. Pool (Bldg. 478). \$5/family. Ext. 2873.

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on March 8, 16, 21, and 29 to answer employees' questions about their financial matters. For an appointment, call 1-800-732-8353 or go to [www.tiaa-cref.org/bnl](http://www.tiaa-cref.org/bnl) and select "set up a meeting."

Volunteers Needed For Middle School Science Bowl, Hydrogen Fuel Cell Car Challenge, 3/19

Everyone, including family and friends, is welcome to volunteer aid on Saturday, March 19, when BNL will host a Middle School Science Bowl and Hydrogen Fuel Cell Car Challenge. Volunteers with science backgrounds are especially needed to act as moderators and science judges. Other positions required include timekeepers, scorekeepers, rules judges, runners and general crowd control. For more information or to volunteer, please contact Catherine Osiecki, [cathyo@bnl.gov](mailto:cathyo@bnl.gov) or Ext. 3054.

Depression from p. 1

Scientists have known that cells in the lateral habenula are activated by negative or unpleasant events, including punishment and disappointment, such as when you don't get an expected reward. It may seem intuitive that such negative stimuli can lead to depression, but not everyone who experiences disappointment collapses into a state of helplessness. To explore this connection, the scientists took a closer look at the brain circuits.

Overall, the results showed that these lateral habenula nerve cells were hyperactive in the depressed animals but not in the control subjects. Furthermore, the degree of hyperactivity coincided with the degree of helplessness.

To explore whether electrical stimulation could potentially reverse this reward-dampening effect, the researchers placed a stimulating electrode in the lateral habenula and measured the effects on the brain cells leading to the reward center. They found that electrical stimulation of hyperactive habenula brain cells markedly decreased excitatory activity leading to the reward center.

"The study provides a cellular mechanism that may explain the hyperactivity of lateral habenula nerve cells observed in depressed humans and animal models of depression, as well as why 'silencing' these circuits, whether surgically or pharmacologically, can reduce depression-like symptoms in animals," Henn said.

— Karen McNulty Walsh  
For more information, go to [www.bnl.gov/bnlweb/pubaf/pr/PR\\_display.asp?prID=1234](http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=1234).

Carol Kessler from p. 1

...Biological Laboratory in Woods Hole, Massachusetts. Inspired by a mentor, she left Woods Hole to earn a master's degree in Technology and Policy from the Massachusetts Institute of Technology. While there, she became interested in nuclear nonproliferation and wrote her thesis on international safeguards. After graduating, she became Special Assistant to the Senior Specialist for Nonproliferation in the Congressional Research Service, U.S. Library of Congress.

From 1984 to 1988, Kessler was an export control and international safeguards analyst for the Office of International Programs, U.S. Nuclear Regulatory Commission. In 1988, she began her career at the State Department, serving as a foreign affairs officer for the Office of Nuclear Technology and Safeguards. She worked her way up through the ranks at the State Department to become the Senior Coordinator for Nuclear Safety in the Bureau of Nonproliferation Affairs, a position she held from 1995 to 2000.

From 2000 to 2001, Kessler took a one-year, mid-career management training course in the formulation of U.S. national security strategy at the National War College, in Washington, D.C., earning a second master's degree in national security policy. After attending the National War Col-

Donations Needed To Support Troops

The AdoptaPlatoon team in the Brookhaven Veterans Association (BVA) is collecting lip balm, baby powder, and instant drink mix in individual stick packages for the Lab's adopted platoon. Drop off gifts in boxes located at Bldg. 490, clinic; Bldg. 400, lobby; Bldg. 488, lobby; and Bldg. 510, library. Monetary donations are greatly appreciated as well, and can be sent to: BVA, memo: "troops" P.O.Box 671, Upton, NY 11973.

In Memoriam: Roger McDonald

Roger McDonald, a project engineer I in the Sustainable Energy Technologies Department, died on December 13, 2010. He was 55.

McDonald joined the then Department of Applied Science at BNL on May 31, 1977, as a research services assistant III. His work at the Lab focused on combustion equipment technology, and he and a team of colleagues established findings that led to new industry standards and technology in residential and commercial space heating. In the Combustion Equipment Research Program (CERP), where he was a senior project manager, investigations included the causes of accumulations of soot on heating equipment, the effectiveness of fuel additives, new burner designs, oil-appliance venting technology, and a project addressing technological transfer and education. More recently, the group has been testing biofuels as oil alternatives. Overall, this program has been credited with contributing to national savings in heating costs of \$25 billion.

One research project, for example, resulted by the late 1980s in the widespread retrofitting



Roger Stoulenburgh DEB-040105

of boilers with flame retention head oil burners that saved fuel across much of the U.S. Then, in 1992, R&D Magazine chose BNL's Flame Quality Indicator, spearheaded by CERP's Thomas Butcher working with McDonald and Philip Cerniglia of the Accelerator Development Department, for an R&D 100 Award, given to the top 100 technological achievements of the year. One year later, in 1993, the device, which was designed to monitor the performance of small oil burners that power residential oil-heating systems, was also selected by Popular Science magazine as one of the 100 most significant new products of the year.

Butcher, who heads the Energy Conversion Group in the Sustainable Energy Technologies Department, said, "Roger had an amazing passion for combustion technology and the advancement of efficiency. He was a great friend and collaborator, highly regarded by our many industry partners for his experience and abilities."

Roger McDonald, a resident of Northport, is survived by his wife Dee and son James. — Liz Seubert

Arrivals & Departures

- Arrivals —
- Aubrey Anderson.....

Phot. Scis
- Seetha Lakshmi Lalitha.....

Magnet
- Luxi Li.....

Phot. Scis
- Alba Vidal Sandra.....

Chemistry
- Wenqian Xu.....

Chemistry
- Galina Yakubova.....

Env. Scis
- Departures —
- Chih-Hsuan Chang.....

Chemistry
- David Derryberry .....

C-AD
- Bruce Gibbard .....

Physics
- Ronald Ondrovic.....

PPM

# BrookhavenSphere

**Superconductivity Applications Brainstorm Wrap-up**

A lively exchange of ideas among BNL researchers from several areas characterized the BrookhavenSphere "brainstorming" held on February 1 to discuss superconductivity and thermoelectricity, with a focus on applications. Lev Neymotin of the Nonproliferation & National Security Department, who started BrookhavenSphere as a collaborative tool for developing innovative ideas in science and technology, reported on the results of this gathering.

Topics discussed ranged from challenges such as improving support structures and magnetic storage technology to several proposals under development and exploration, including a superconducting magnetic moment particle detector, a high-temperature-superconductor MRI machine, superconducting magnet energy storage for BNL research solar arrays, and more.

"I am hoping that with time, an interdisciplinary, R&D 'brainstorming culture' will develop and become standard at the Sphere's subject- and application-oriented discussions," said Neymotin. "The meeting was so encouraging that planning of the next brainstorm to be coordinated by Oleg Gang of CFN, focusing on assembling nanomaterials/devices for practical applications, got under way, with a target date in May. We will be happy to organize Sphere brainstorms on other R&D subjects — suggestions are welcome!" he said.

Minutes of the meeting and links to the proposals are available at [https://brookhavensphere.bnl.gov/wiki/index.php/Brainstorm:\\_Superconductivity\\_Applications](https://brookhavensphere.bnl.gov/wiki/index.php/Brainstorm:_Superconductivity_Applications).

BrookhavenSphere Seminar, 3/11

'Neuroexpressionism — How Data Mining and Simulation Provide Multifaceted Views of the Brain'

On Friday, March 11, the Lab community is invited to join William W. Lytton, a practicing neurologist and professor of physiology, pharmacology, neurology, and biomedical engineering at the State University of New York Downstate Medical Center, Brooklyn, who will give a seminar titled "Neuroexpressionism — How Data Mining and Simulation Provide Multifaceted Views of the Brain." Sponsored by BNL's BrookhavenSphere, the talk will be held at 11 a.m. in Berkner Hall, Room B.

Meet the Speaker

Between 1 and 3 p.m., William Lytton will tour the BNL life-science labs. Invitations for Lytton to visit any lab or project are welcome. To arrange a visit, email Lev Neymotin at [neymotin@bnl.gov](mailto:neymotin@bnl.gov) by 3/7 with your name, project, and lab.

American Red Cross Lifeguard Training

Lifeguard training classes will be held at the pool (Bldg. 478) on Sundays, 10 a.m. to 3 p.m., from March 27 until May 15. Participants must be at least 15 years old, pass a pre-test held on Sunday, March 20, from 10 a.m. to 1 p.m., and attend every class. Call 631-921-6218 to register.



# Janet Soper Turns up the Degrees Through BNL’s Tuition Assistance Program

In 1988, Janet Soper joined the Lab’s Shipping and Receiving Department as a clerk-typist. But about three years ago, Soper decided it was time to further her education. “The Lab has a wonderful tuition assistance program, so I thought it was time for me to take advantage of that benefit and go to college,” said Soper.

With input from her manager, Pat Jencius, Soper selected her curriculum and started taking online courses toward an associate’s degree in arts and business at the University of Phoenix. Soper was so motivated that she accelerated her coursework and obtained both her associate’s and bachelor’s degrees in three years. She is currently working toward her master’s. “It took me a little while to adjust my personal schedule to accommodate study time, but once I started I couldn’t stop,” said Soper. “I thoroughly enjoyed every class I took and continued to stay focused on the prize — my degrees!”

In 2009, Soper was promoted to supervisor of distribution operations in the Procurement and Property Division. Jencius said that Soper is the perfect example of an employee looking to move forward and enhance



his or her career. “Janet has worked hard to obtain the position of supervisor of distribution and I applaud her efforts.” said Jencius. “It’s been nice sharing each of her achievements with her along the way.”

Starr Munson, a senior human resources representative in the Human Resources Division and the coordinator of the tuition assistance program, agrees with Jencius. “Janet is one of the most motivated employees currently participating in the tuition assistance program. She set her goals and she has worked hard to accomplish them,” said Munson.

Soper said she believes her children have become motivated by her efforts. “I think they have noticed my increased confidence. They also see me reaching my goals and it motivates them, too. I keep reminding them if they work hard their dreams will also come true,” she said. “I was happy to begin working at the Lab, and I am grateful for the career I’ve had here and look forward to the future.”

For more information on the Lab’s tuition assistance program, contact Starr Munson at Ext. 7631, or email [munson@bnl.gov](mailto:munson@bnl.gov). — Jane Koropsak

### 2012 Project from p. 1

...science, energy, technology, and other targeted sectors to pursue public office and to expand the breadth of knowledge among U.S. policymakers. The presentation promotes women’s leadership and suggests a new dimension for women’s careers.

The percentage of American women holding public office has not increased over the last decade. Today, women hold 24 percent of legislative offices, and 17 percent of U.S. Senate and Congressional seats. The 2012 Project targets women with expertise in critical fields and connects them to political resources. New electoral opportunities will be available in 2012, and now is the time to prepare for filling them. Debbie Walsh joined the

Center for American Women and Politics in 1981 after earning an M.A. in political science from Rutgers, The State University of New Jersey, where she was an Eagleton Fellow. As director, she manages and oversees the center’s multi-faceted programs. These include national forums for political women that address current issues and facilitate creative strategy building, and leadership and campaign training programs that empower women to participate fully in politics and public life. Walsh currently serves on the New Jersey Advisory Commission on the Status of Women. In 1984, she was the associate producer of a documentary film, *Not One of the Boys*, which aired on the PBS series, *Frontline*.

Before President Obama appointed Ambassador Meryl Frank to her current position at the U.N., she was mayor of Highland Park, New Jersey, for eight years. She authored the federal Family and Medical Leave Act signed by President Clinton in 1993 and the New Jersey Family Leave Act signed by Governor Kean in 1989. She served on the National Board of the Democratic National Committee’s Women’s Leadership Forum and as Democratic co-chair of the Bipartisan Commission on the Appointment of Women. She is the National President of the Women’s Division of the American Jewish Congress. — Diane Greenberg  
*To join the speakers for supper after the talk, contact Kathy Walker, [kwalker@bnl.gov](mailto:kwalker@bnl.gov), or Ext. 7105.*

### Battelle Prizes from p. 1

...provided insight into the requirements for DNA design.

About 1,000 physicists from around the world conduct research at BNL’s world-class accelerator, the Relativistic Heavy Ion Collider (RHIC), which has culminated in a better understanding of the matter that made up the universe during its first few microseconds. The researchers discovered details about the properties of this matter, dubbed the “perfect” liquid, because it flows with almost no frictional resistance or viscosity. Before the RHIC experiments were completed and analyzed, physicists thought the first matter in the universe would

be more like a gas. Recent and ongoing findings about this matter can illuminate the evolution and current behavior of the universe.

In a creative leap of the imagination coupled with expert technical knowledge, BNL researchers, led by Ralph James and Yonggang Cui, applied a new class of small semiconductor-based radiation detectors they had developed for national security purposes to the localization of cancerous tumors. Their innovation, licensed to Hybridyne Imaging Technologies, Inc., and marketed as ProxiScan™, is a compact cadmium zinc telluride gamma camera designed for high-resolution imaging of pros-

tate cancer. It is a technology that can lead to more accurate and timely diagnosis and significantly improve treatment strategies.

The schools that will receive grants are: Paul J. Gelinas Junior High School in Setauket, a local Long Island school chosen by Oleg Gang on behalf of the DNA self-assembly team; Smithtown High School East, chosen by Physics Department Chair Thomas Ludlam on behalf of RHIC researchers; and Fisk University, a historically African-American university located in Nashville, Tennessee, chosen by Ralph James and Yonggang Cui, on behalf of the ProxiScan™ team.

— Diane Greenberg

### Defensive Driving in Two Parts, 3/7 & 14

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on two Mondays: Monday, 3/7, in the Bldg. 490 Large Conference Room, and Monday, 3/14, in Berkner Hall, Room B, 6-9:15 p.m.

The course is open to BNL, BSA, and DOE employees, BNL facility-users, contractors, and other guests, and their family members, at \$33 per person. Preregistration is required. To register, call Ed Sierra, Ext. 4080 or 821-1013, and leave a message. Or take a New York DMV approved course (Use code: “SAVE10” for \$10 discount) online: <http://www.lidriveSAFE.com/>.

### BNL Retirees’ Luncheon, 6/15

Mark the date!

The Brookhaven Retired Employees Association (BREA) Luncheon Committee is pleased to announce the eighth annual get-together BREA Luncheon, to be held on Wednesday, June 15, at the Bellport Country Club. More details will follow.

## Service Anniversaries

The following employees celebrated a service anniversary during November 2010:

— 50 Years —  
Harald Hahn..... C-AD  
— 35 Years —  
Frederick Kobasiuk ..... C-AD  
Henry Schnakenberg..... C-AD  
Keith Lewin ..... Env. Scis  
Stephen Mercier ..... En&Utils  
Beatrice Pyatt ..... Medical  
Andrea Epple ..... Rad.Con  
Dennis Fuzie ..... Staff Servs

— 30 Years —  
Warren Jappe ..... C-AD  
Linda DiPierro ..... HROM  
Peter B. Zuhoski, Jr.. Photon Scis  
Shu Cheung ..... Photon Scis

— 25 Years —  
Chris Masullo .....ITD  
Bonnie Sherwood ..... EENS  
Jeffrey Mirando..... Lab Prot  
Alexsandra Lopez.....CMPMS  
Edwin Cancel..... PPM  
Marcelino Santiago, Jr..... PPM  
Mihai Radulescu .....Phot. Scis  
Sorin Pop .....Phot. Scis

— 20 Years —  
John Guido .....Facil. Ops  
David Baulch ..... Lab Prot  
John Pagano..... Lab Prot  
Jane Koropsak..... CEGPA  
Terry Maugeri ..... HROM  
John W. McCaffrey, Jr... Phot. Scis

— 10 Years —  
Peter Oddo ..... C-AD  
John Dowd..... En&Utils  
Timothy Lenahan..... Maint&Fab.  
Taeko Ito ..... Physics  
Tina Morrison..... Qual Mngemt  
Deana Buckallew.....Rad Cont.  
Maria Singleton.....Site Servs  
Richard Allingham ..... Staff Servs

The following employees celebrated a service anniversary during December 2010:

— 35 Years —  
Nicholas Gmur .....Phot. Scis  
— 30 Years —  
George Leskody ..... Mod. Proj  
Vasilis Fthenakis ....Sust. En. Tech  
— 25 Years —  
Nicholaos Tsoupas ..... C-AD

— 20 Years —  
Annabelle Petway..... C-AD  
Paul Freimuth..... Biology  
Christopher Harris ..... Fac. Ops  
Jih-Perng Hu.....Phot. Scis  
Denise Hanley.....Rad. Con

— 10 Years —  
Martin Gormezano.....ITD  
Howard Robinson..... Biology  
Peter Steinberg..... Physics  
Thomas Ullrich..... Physics  
Wendy Morrin .....Phot. Scis

## Aqua-Therapy For Active Seniors

A low-impact, aerobics-based class for active seniors will be held at the pool on Wednesdays, from 9 to 10 a.m., from April 6 through June 22.

The fee is \$60, and advanced registration is required. Please make checks payable to BERA and mail to: Recreation Office, Bldg. 400A, BNL, Upton, NY 11973.

## Summer Camp Expo, 3/10

A Summer Camp Expo will be held on Thursday, March 10, 11 a.m.-1:30 p.m. in Berkner Hall lobby. Parents and grandparents will be able to talk with Long Island summer camp directors and staff about available programs and Counselor-in-Training opportunities for teens.

Among the camps that will attend the Expo are: Baiting Hollow Camp, Baiting Hollow; BERA Summer Program, BNL; Brookhaven Country Day Camp, Yaphank; Brookhaven ROE Summer Camp, Patchogue; Camp

### CALENDAR

#### Friday, 3/4

**\*BSA Distinguished Lecture**  
4 p.m. Berkner Hall. Xiaoliang Sunney Xie, the Mallinckrodt Professor of Chemistry & Chemical Biology, Harvard University, will speak on “Life at the Single Molecule Level.” The talk is free and open to the public. See p.1.\*\*

#### — WEEK OF 3/7 —

#### Tuesday, 3/8

**\*BWIS Talk: “The 2012 Project”**  
4 p.m. Berkner Hall. Debbie Walsh, Director, Center for American Women & Politics at Rutgers Eagleton Institute of Politics, and Meryl Frank, U.S. Ambassador to the United Nations Commission on the Status of Women, will talk on opportunities in elected offices for women in energy, technology, and science. All are welcome at this free talk. See p.1.\*\*

#### Thursday, 3/10

**Costco Membership Drive**  
10 a.m.-2 p.m. Berkner Hall lobby. Sign up for low cost membership at \$54.31 for 2 cards, or executive at \$108.63 for 2 cards, get \$10 Costco cash.

#### Friday, 3/11

**\*BrookhavenSphere: Views of Brain**  
11 a.m. Berkner Hall, Room B. William Lytton, SUNY Downstate Medical Center, Brooklyn, will talk on “Neuroexpressionism — How Data Mining and Simulation Provide Multifaceted Views of the Brain.” See p.2.

**\*Summer Camp Expo**  
11a.m.-1:30 p.m. Berkner Hall lobby. See notice below.

#### — WEEK OF 3/14 —

#### Wednesday, 3/16

**467th Brookhaven Lecture**  
4 p.m. Berkner Hall. Ketevi Asamagan of the Physics Department will talk on “Experimental Particle Physics in the LHC Era and Possible Implications for Development in Africa.” Refreshments will be offered before and after the talk. All are welcome at this free event.\*\*

#### — WEEK OF 3/21 —

#### Wednesday, 3/23

**BSA Noon Recital**  
Noon. Berkner Hall. Stony Brook Opera will perform Silver’s *The Wooden Sword*, and Winkler’s *Fox Fables*. All are welcome at this free concert.\*\*

**Books Are Fun: Book & Gift Fair**  
10 a.m.-2 p.m. Berkner lobby.

#### Thursday, 3/24

**Books Are Fun Book & Gift Fair**  
10 a.m.-2 p.m. See above.

**\*\*Visitors to the Lab age 16 and over must carry a photo ID.**

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week’s Bulletin. Enter information for each event in the order listed above (date, event name, description, and cost) and send it to [bulletin@bnl.gov](mailto:bulletin@bnl.gov). Write “Bulletin Calendar” in the subject line.

Paquatuck, Center Moriches; Girls Scouts of Suffolk County, Bayport; Harbor Country Day School, St. James; Hidden Pond Day Camp, Hauppauge; Hofstra Summer Camps, Hempstead; Ivy League Day Camp, Smithtown; Peconic Dunes Camp, Riverhead; Riverhead Summer Fun Days, Yaphank; Stony Brook Summer Camp, SUNY; and Usday Center, Wheatley Heights.

All are welcome to visit this info-packed event. Any questions? Contact Liz Gilbert, Ext. 2315, [gilbert@bnl.gov](mailto:gilbert@bnl.gov).



# Additional Areas at East End Of Site Temporarily Closed

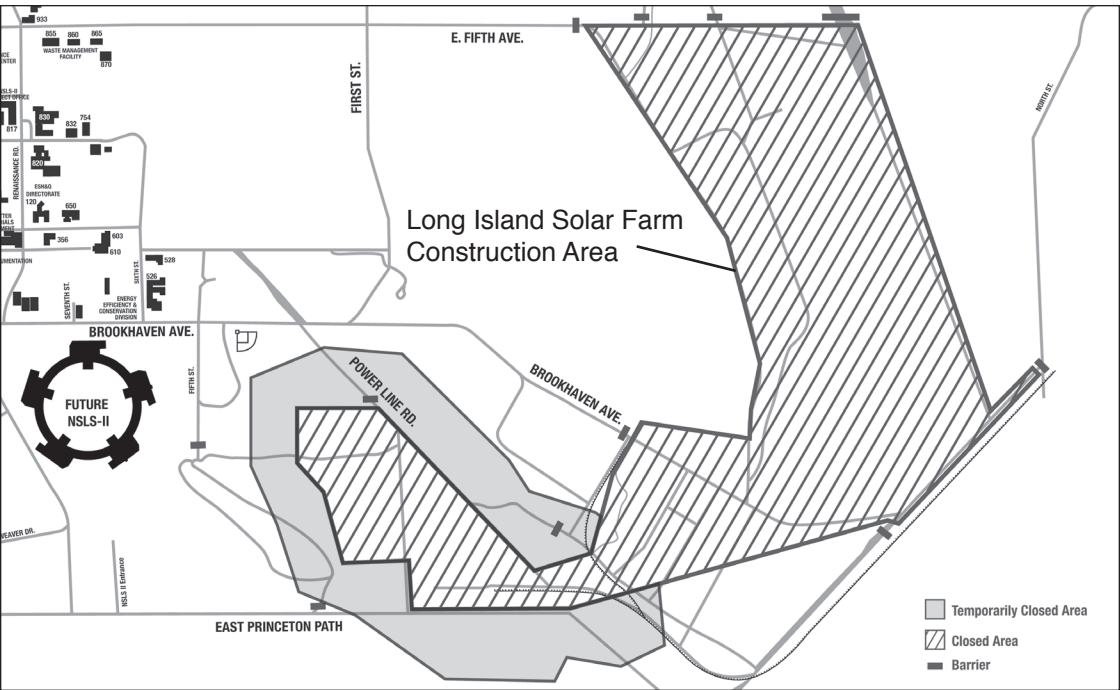
On March 1, certain areas beyond the boundary of the future Long Island Solar Farm (LISF) at the east end of the Laboratory site were temporarily closed for approximately two weeks. These 500-foot temporary buffers that extend toward the NSLS-II construction site and include a portion of the ball fields will allow crews to operate heavy equipment and machinery safely along the perimeter of the area designated for the future 32-megawatt solar farm.

A map of the area can be found online: [http://www.bnl.gov/today/story.asp?ITEM\\_NO=2260](http://www.bnl.gov/today/story.asp?ITEM_NO=2260).

During this time, roads leading into the area will be closed off and monitored by LISF personnel. The Lab community — including pedestrians, bicyclists, and cross-country skiers (if applicable) — should avoid these roads and the area in between until they reopen later in March.

Those who need access to these areas for official Laboratory business should call Steve Vastola at the LISF: (631) 456-2533.

More information about the LISF can be found in the January 3, 2011 Monday Memo: <http://intranet.bnl.gov/memo/mm.asp?IssueId=186=4>.



## Classified Advertisements

Current job openings and a statement of job placement policy at Brookhaven National Laboratory are available on the homepage at [www.bnl.gov/HR/careers/](http://www.bnl.gov/HR/careers/). To apply for a position, go to [www.bnl.gov](http://www.bnl.gov) and select "Search Job List." For more information, call Ext. 2882.

### Motor Vehicles

11 CADILLAC CTS/BLACK – 49K mi. excel cond. \$14,000 neg. John, 345-0731.

08 VW JETTA S – 35K mi. 2.5cc, 4dr Sedan, 6spd a/t, excel cond, no accidents, price/neg. \$11,000. Ext. 3942, 294-6462.

07 HONDA ACCORD – 54K mi. vp, a/t, abs, c/c, cd ac, pwr S/W/DL, dual/side air bgs, excel. \$11,250 neg. Ext. 2586, 974-4831.

05 HARLEY D RD KING CLASSIC – 19K mi. Blk/red, rider & pssngr backrests, lug. rack, Vance&Hines exhst. \$11,000 neg. Ext. 4070.

03 NISSAN MAXIMA – 143 mi. GLE 6 cyl, sunroof, auto start. \$8,000 neg. 398-2049.

00 ISUZU TROOPER – 116K mi. a/t, 4wd, 6cyl, a/c, c/c,p/w, silver/gray, clean cond. \$3,200 neg. Igor, Ext. 5801.

98 CHRYSLER SEBRING LXI – 156K mi. all gd shape, am/fm/cd stero, lthr, a/t V6, hwy mi, must sell. \$1,850 neg. Ext. 5684, 872-5074.

96 LEXUS LS 400 – 165K mi. 4-dr. sedan, black, fully loaded, vg cond, smooth ride. \$6,200 neg. 286-5897.

### Furnishings & Appliances

COMPUTER DESK – 23 x 35 w/monitor shelf, printer shelf & keybrd drawer, \$20. Ext. 3846.

FLAT SCREEN BRACKET – wall mount, full motion, fits TV scrns 37"-56", SANUS model # VMAA18, unopened, \$150. 375-2680.

FREEZER CHEST – lg Kenmore, \$150/neg, Glider Rocker maple chair, \$200, Laurie, 516-740-8418 or lcade@uspsports.com.

### Audio, Video & Computers

32" SAMSUNG TV – 32" Samsung TV in good working cond. Will deliver to Lab. \$50. Janine, Ext. 2431 or jtruit@bnl.gov.

CAMERA – Nikon S3000, 12mp 4x zoom, brand new in box, xmas gift. \$85. Rich, Ext. 7294. gambella@bnl.gov.

CORDLESS PHONE SYST. – 3 v-tech 2.4 GHz phnes, intercm, spkr, callerID, in/out call-log, base-station, 2 satellite stns, \$20. Ext. 5886.

PALM CENTRO SMART PHONE – Cell Phne PC i'face, bluetooth, voice rec, more, like new, needs GSM sim card, \$45. Ext. 5090.

PANASONIC HOME THEATER – 5 dvd changer, 4 slim towers/center/subwoofer. looks/works like new. \$25. jadams@bnl.gov.

TELEVISION – RCA 26" color TV w/re-mote, will deliver at Lab, \$20. hughes@bnl.gov.

TV -SONY 50" DLP – Model 50e2000. \$300. Ext. 5080, 766-7701.

### Sports, Hobbies & Pets

50-GAL AQUARIUM W/CABINET – all glass, extras, lights, rocks, Fluval 503 filter, pics avail. ask/\$200. Ext. 5684, 872-5074.

CAMERAS -two: HP digital M305,15X,3.2 MP, still shots & video, \$25, Olympus 135 film camera, nr new, still in box, \$50. Ext. 5080.

ELLIPTICAL EXERCISE MACHINE – Lite-Style ET30 for home gym, excel cond, pics avail, loc in Ridge, \$75. Bernie, Ext. 2017.

MEN'S 2-PC WET SUIT SET – size sm-md, barely used, nvr in saltwater, 7mm, w/mask, boots, fins, pic avail, \$100. hughes@bnl.gov.

METS TICKETS – Fri, April 22 vs Diamond-backs, 3 seats, Ceasars Gold Club Sect. 318 behind home plate, \$125/ea. Ext. 2112.



## New IFM Intranet Site Launched This Week

Having a light bulb replaced at BNL got easier, as the new intranet website for the Laboratory's Integrated Facility Management (IFM) program — <http://intranet.bnl.gov/ifm> — was launched on Monday, February 28.

BNL employees can now use the new IFM site's updated work request form to request maintenance, repairs, and other support services — and the enhanced look-up tool can help you find out which facility project manager (FPM) to contact for any facility on site.

As seen from the new website, the FPM for your building is your main point of contact for facility-support services. You also only need to complete one online form through the new site, or simply make one phone call (Ext. 2468) to request these services.

The new IFM site also includes frequently asked questions and answers — as well as a brief explanation of how the IFM program works — to answer questions that the Lab community may still have about IFM.

These tools should help you understand how IFM will enable the Facilities & Operations Directorate to provide mission-ready facilities and excellent customer service at BNL, now and in the future.

If you do not bookmark the new IFM site, you can find it by searching or clicking the link on the left side of BNL's internal homepage.

METS TICKETS – 3 for Friday, May 6 vs Dodgers, Ceasars Gold Club Section 317 behind home plate, \$125/ea. Ext. 2112.

ORGAN – Kimball Aquanius "The Entertainer" Great Cond. \$50. Jill, Ext. 3173.

### Tools, House & Garden

7" WET TILE SKILL SAW – Used 1ce for ceram. tile. \$40; Pella exter. window, 42x48, only used int., excel cond. \$40. Ext. 3173.

AFGHANS – new, handmade, beautiful, 1/ blue & brown 52" sq w/ruffle edge; 1/black & white w/red trim, 46" sq, \$30/ea. Ext. 7114.

BED DOLLS – hand-embroid. pillowcase dolls, blue/yellow; lt/dk blue; no faces, \$35/ea; earrings/pins/\$5; necklaces/\$10. Ext. 7114.

CRAFTSMAN ROTOTILLER – 26" 6hp front tine w/power reverse. Like new \$275. Ext. 3173.

UTILITY TRAILER – 16'x6' heavy duty dual axle, great for landscapers/contractors/sports \$2,999, pics avail. 516-903-0020.

### Happenings

PHOTOGRAPHERS:ONE-DAYSEMINAR-Spend a day with Canon Explorer of Light Lewis Kemper at Suffolk County Community College, on Sunday, April 3, 8:30a-4p. Organized by the Photographic Federation of L. \$30. Joseph, Ext. 3584.

WOODSTOCKMANIA – until 3/19. Woodstock in Concert, Revisit summer 1969 w/ music of Janis Joplin, Jefferson Airplane, Jimi Hendrix, Santana, The Band,...

...Blood Sweat & Tears, Sly and the Family Stone, Arlo Guthrie, others. 928-9100.

### Farewell Gathering

GAIL DONOGHUE – Supervisor of the Science Learning Center is retiring. Come celebrate with her on Thurs, April 28, 5-8pm, Popei's Restaurant. Full Course Dinner, \$35pp includes gift. Menzel, Ext. 4495 or mjones@bnl.gov.

### Free

28 FT. WOODEN BOAT – Beautiful, in middle of restoration. Already made: new rudder, swing keel box, bow - all white oak. You take all w/the big tent. Ext. 3078. CAT – Bella needs loving home. She is declawed, litter-trained, v sweet, amicable. Owner moved to apt w/no pets. Nina, Ext. 5894.

### Lost & Found

LOST USB THUMB DRIVE – sm, blue, on a lanyard, if found pls contact me. Courtney, Ext. 3018, 347-453-5754.

### Miscellaneous

2 MET OPERA TICKETS – Dress Circle \$103/ea, Boris Godunov, 3/17, Bus from N. Shore Public Lib.,Shoreham. Michiko, Ext. 7761.

BABY SWING, AIR HOCKEY TABLE – portabl swng, unused \$25; ESPN glo in dark tbl, \$80, used 2ce, u-pic-up. dmcarthur@bnl.gov.

INSTYLER – Curling Iron sightly used, brand new cond, retails/\$99, sale/\$70. Ext. 4495 or mjones@bnl.gov.

## New Procedure for Delayed Reopening Following Weather Events

A new official work-start time and gate-opening policy for non-essential personnel is now in place for delayed reopenings at the Lab.

If the Lab work-start time is determined to be 11 a.m. for non-essential Lab employees, then the gates will officially reopen one hour earlier, at 10 a.m. And if the time to start work is 1 p.m., then the gates will officially reopen at noon. Those will be the only two time scenarios for delayed reopenings. Non-essential employees will not be permitted on site before the gates reopen. This one-hour difference between the official gate reopening time and the official time to start work will give employees the opportunity to arrive at the Lab without excessive delays at the gates and ample time to get from the parking lots to their desks.

This new policy is expected to make weather events and delayed openings more manageable and safer for all employees.

When there is bad weather in the area, learn if BNL has a delayed opening for non-essential personnel — as well as the gate reopening time and the official work-start time — by checking [www.bnl.gov](http://www.bnl.gov), or calling (631) 344-INFO (344-4636).

TRAVEL SYSTEM & PLAY YARD – Chicco Adventure Travel Syst like new \$175; Chicco Lullaby Play Yd \$100. miamyamo@optonline.net.

WATER HEATER – A.O. Smith, 80 gal, elec, new in carton, \$400. Lou, 277-6771.

### Wanted

BOAT WINCH – looking for used, but working, either elect or pref hand crank, 500lbs max pull. Ext. 7443 or porqueddu@bnl.gov.

BOXTOPS & CAMPBELL'S UPSCS – needed for K & 4th Gr class. Money generated for gd cause. Send to Bldg. 911A. Thanks. Nina, Ext. 5894, nrivera@bnl.gov.

COMPUTER KEYBOARD – any connection type, thanks. Henry, hhocker@bnl.gov.

DONATIONS OF DOG/CAT FOOD – For pets of needy families/elderly & Kent Animal Shelter. Collection bins are in Bldgs: 134, 400, 510, X5864, 725, 901, 902. Kathleen, Ext. 3161 or kratto@bnl.gov.

GRACO PACK 'N PLAY – slightly used. Ext. 7761.

MAGIC CARDS – "The Gathering" playing cards to build a collection. Lawrence, Ext. 4797 or lvogt@bnl.gov.

SEWING MACHINE – recent model, used, gd cond. Francois, Ext. 8204.

### For Rent

FLORIDA, FL – Gulf Coast Ranch, 70m Orlando, 45m Tampa. Screen/IG pool, fruit trees, SW architectre, 3BRM, 2BTH, lg DR, fp, 2x gar, shed - pics. 344-8101 or jrank@bnl.gov.

SANIBEL, FL – 2 bdm lux condo, fully equip kit on beach, huge pool w/bar/tennis courts, kids club, waterview dining, more - Mem. wk May 27 - June 3, \$2,000/wk. Mary Ann, Ext. 5124.

FARMINGVILLE, NY – Furn bdrm (14x16) WIC, share bath w/1 in lg house. elec, wifi, cable, phone incl. \$575/mo. Ben, 513-8275 or benonium@gmail.com.

MASTIC – new apt, 1 bdrm kit, l/r combo, full bath, priv ent, quiet, util incl, nr LIRR/Freeways, no smkg/pets, walk to shop, 8 min to Lab, one mo sec. \$675/mo neg. 335-4907.

MEDFORD – Cozy bi-level 2 bdrm condo, 1.5 bath new kit/bth/htg/in, igp, golf, gym, 7 mi from Lab. \$1,650/mo. 880-7485 or gstemp2@gmail.com.

MIDDLE ISLAND – 1 bdrm lg. bsmt apt, pvt ent, phone, cable, internet, strictly no pet/smkg, quiet, all incl, nr Lab., BNL employee only. 1 mo sec. \$800/mo. Istvan, Ext. 7020, 672-2451 or dioszegi@bnl.gov.

RIDGE – 1 bdrm, bath, bsmt apt w/gr level entry and lrg windows, priv drway, use of yd, cable, util, and int incl, 1 mo sec req. \$1,100/mo. 965-2039.

RIDGE – 1 block to Lake Panamoka, grd level, 1 bdm apt w/bath, eik, l/r; cable/int/elec/heat all incl; ref, credit check, 1 mo sec req, no smkg/pets, single pref. Avail March 1. \$1,000/mo. Chrissy, 345-2600.

RIDGE – spacious 1 bdrm, bath, 7 min to Lab, pvt ent/drwy, all util incl, l/r, eik, w/d, pet ok, tile/new carpet, fresh paint. \$1,050/mo. 236-9114 or mcjrbj@gmail.com.

RIDGE – 2Br Apt, \$950/mo., 4 mi to BNL. Pvt ent, Off st. parking. Own thermostat, heat, water, electricity, cable and internet incl. No smkg/pets. \$950/mo. Garry, 516-885-9113 or lH83PUTTS@aol.com.

SHIRLEY – beautiful main flr, 1 bdm apt, pvt ent, lr/kit combo, granite, new appl, full bath, hdwd flrs, off st prkg, no smkg/pets, single person, credit check 1 mo sec, incl all. \$1,000/mo. 848-6353.

SHIRLEY – lg 1 bdrm bsmt apt, suitable for one, all utilities, near beaches, parks, freeways, lirr, lab, wifi/basic cable, 1 mo + 2 mo sec, v/nice. \$750/mo. Ext. 3846.

SHOREHAM – 1 B/R 2nd Fl. Apt., newly remodeled, priv ent., wood floor, quiet resid st, closet space. 1st mo & security, credit check & refs. No Pets/Smoking. \$1,050/mo. 219-3666.

YAPHANK – 1 bdrm apt, living area, spacious kit, full bath, you pay cable & phone, no pets/smkg, 1st mo & 1 mo sec. Immediate occup., Matt. \$1,000/mo. 816-6424.

### For Sale

MANORVILLE – Silver Ponds Townhomes, best price w/2bdrms, 2 baths, 1&2 car garages, all amenities, low common charges, near Lab, starting @ \$275,000. 804-6262.

MASTIC BEACH – 3 bdrm ranch, l/r, d/r, eik, recently remodeled, full bsmt, close to BNL & schools, price reduced, great hse, <http://tinyurl.com/69t2gly>. \$149,900 neg. Mike, Ext. 7472 or loftus@bnl.gov.

FLORIDA, FL – Gulf Coast Ranch, 70m Orlando, 45m Tampa. Screen/IG pool and lanai, fruit trees, SW architecture, 3BRM, 2BTH, lg DR, fireplace, 2x gar, shed - see photos. 344-8101 or jrank@bnl.gov.

### In Appreciation

I would like to thank everyone for their prayers and support at the time of the loss of my sister Arleen. Your kind words and thoughts are appreciated. – Michael Demers

### On-Site Service Station

We provide oil or battery changes, all sorts of vehicle maintenance and repairs, New York State inspections, all done conveniently while you are at work. Ext. 4034.