

Sally Dawson Named Physics Chair

Sally Dawson has been named chair of BNL's Physics Department, effective July 1. She succeeds Samuel Aronson, who was promoted to Associate Laboratory Director for High Energy & Nuclear Physics.

The Physics Department has a staff of about 260 and an annual budget of nearly \$60 million for high-energy and nuclear physics research, mainly funded by DOE. The department's research focuses on investigating the structure and behavior of subatomic particles. The department also manages BNL's Accelerator Test Facility, where researchers from national labs, universities, and industry carry out research and development on advanced accelerator physics and develop new radiation sources, and related subjects.

"I am honored to be the first woman chair for the Physics Department," said Dawson. On her plans for the department, she commented, "This is a challenging time for nuclear and particle physicists, and we have to plan our science explorations carefully. We have to accomplish our scientific goals within a limited budget."

The Physics Department operates three of the four major experiments at BNL's world-class accelerator, the Relativistic Heavy Ion Collider (RHIC). Recently, RHIC physicists discovered a new state of matter dubbed the "perfect liquid" made from quarks and gluons, the basic building blocks of matter — a surprise discovery, since theory predicted that RHIC would create a gas of free quarks and gluons.

Nuclear physicists in the department are also helping to drive a Lab-wide initiative to upgrade RHIC to RHIC II — which would increase the collider's rate of particle interactions tenfold — and to add an electron ring to RHIC to create a machine called eRHIC for colliding electrons with protons. These upgrades, with refined detector technology, will help RHIC physicists gain a better understanding of the substructure of the newly discovered state of matter at the facility.



Sally Dawson

Roger Stoulenburgh D1860705

In addition, physicists from the department have recently completed the design and construction of ATLAS, a detector for the Large Hadron Collider (LHC) at CERN, the European Laboratory for Particle Physics. With this detector, they are preparing to search for new subatomic particles at the 14-trillion electron-volt accelerator, which is due to begin operating in 2007. Major computing facilities at BNL will enable U.S. scientists to perform the calculations for LHC experiments.

After earning a bachelor's degree in physics and mathematics from Duke University in 1977, Dawson earned a master's degree and doctorate, both in physics, from Harvard University in 1978 and 1981, respectively. She began her career as a research associate at DOE's Fermi National Accelerator Laboratory in 1981, and, two years later, she moved to DOE's Lawrence Berkeley Laboratory, where she stayed until joining BNL in 1986 as an assistant physicist.

Dawson rose through the ranks to become a senior physicist in 1994, and she was group leader of the high-energy theory group 1998-2004. She became acting chair of the Physics Department in January 2005, a position she held until she was appointed chair. Since 2001, Dawson has also been an adjunct professor at the C.N. Yang Institute for Theoretical Physics at Stony Brook University.

A Fellow of the American Physical Society, Dawson has 134 peer-reviewed publications to her name, has presented numerous scientific talks throughout the world, and has served on many national and international committees. She was chair of the American Physical Society's Division of Particle Physics in 2004, was associate editor of the physics journal *Physics Review D* from 1995 to 2004, and, since 2004, has been vice chair of the National Research Council's EPP2010 review of particle physics. In 1995, she was honored by the Town of Brookhaven as woman of the year in science.

— Diane Greenberg

DC Visitors Learn About BNL Science

Getting acquainted with some of BNL's researchers and their work was the focus of a visit to the Lab on August 15 by Sean O'Shea and Dan Utech, Legislative Aides to Senator Hillary Clinton. After a welcome from Lab Director Praveen Chaudhari, with Director of the Business Management Division of DOE Brookhaven Site Office's Robert Gordon, Interim Deputy Director for Science & Technology Peter Bond, and Assistant Laboratory Director for Community, Education, Government & Public Affairs Marge Lynch,



Roger Stoulenburgh D1370805

At BNL's Positron Emission Tomography facility, Joanna Fowler (left), Chemistry Department, discusses BNL's imaging program with Dan Utech (right) and Sean O'Shea (third from right), both of U.S. Senator Hillary Clinton's Washington Office; Robert Gordon (second from left), DOE's Brookhaven Site Office; and Rudy Barnes (second from right) of Battelle.

the visitors, with Rudy Barnes of Battelle, set out to see the Relativistic Heavy Ion Collider (RHIC), where Sam Aronson, Associate Director for High Energy & Nuclear Physics, and Gene Van Buren, one of the scientists working on the STAR experiment, explained how RHIC's four detectors, including STAR, study the results of ion collisions that occur under conditions of energy and density that recreate the first moments after the "Big Bang." By analyzing these results, scientists are discovering more about one of the four fundamental forces in nature and how matter behaved at the dawn of the universe.

At the National Synchrotron Light Source (NSLS), the visitors were welcomed by Associate Director for Basic Energy Sciences Doon Gibbs and Deputy NSLS Department Chair Chi Chang Kao, who outlined the extraordinary range of studies — of physics, chemistry, materials science, biochemistry, geophysics, and medicine — ongoing at this facility, which draws annually more than 2,400 researchers from the U.S. and overseas. Also discussed were BNL's Center for Functional Nanomaterials (CFN), soon to be under construction to benefit BNL's thriving nanoscience program, and the proposed NSLS II, a next-generation research facility.

The visitors then took some time at another high-profile BNL initiative, the Translational Neuroimaging Center. At the Positron Emission Tomography (PET) facility, Joanna Fowler of the Chemistry Department, who heads the Center, described some of the Lab's pioneering work in probing the brain chemistry of addiction, mental illness, and aging, as well as other recent progress on the development of effective addiction treatments and on developing a new PET scanner for imaging awake animals.

— Liz Seubert

BSA Grants Tenure to Five BNL Scientists

BSA granted tenure on June 1 to five Brookhaven scientists. They are: Ivan Bozovic, Materials Science Department; Sergei Lyman, Chemistry Department; James Misewich, Materials Science; Werner Vogelsang, Physics Department; and Zhong Zhong, National Synchrotron Light Source Department. Tenure appointments are granted by action of the BSA Board after a rigorous selection process

overseen by the BSA Science & Technology Steering Committee. In making tenure decisions, the BSA Board is advised by members of the Brookhaven Council, an elected body that advises the Director on matters affecting the scientific staff. The Bulletin describes the accomplishments of each of the five recently tenured scientists; this week, Werner Vogelsang is featured.

Werner Vogelsang

For his major scientific accomplishments in theoretical physics and contributions to Quantum Chromodynamics (QCD), the theory of strong interactions, Werner Vogelsang was granted tenure in the Physics Department.

"In particular," said Associate Laboratory Director for High Energy & Nuclear Physics Sam Aronson, then Physics Chair, "Werner has worked on the effects of spin in nuclear interactions and is one of the world's experts in that field. His work is critical to the scientific impact of BNL's unique spin facility — the polarized proton collider at the Relativistic Heavy Ion Collider [RHIC]. Werner is internationally recognized as a leading QCD theorist and is immensely productive. He is

and will continue to be a leading light in the already very strong nuclear theory community at BNL."

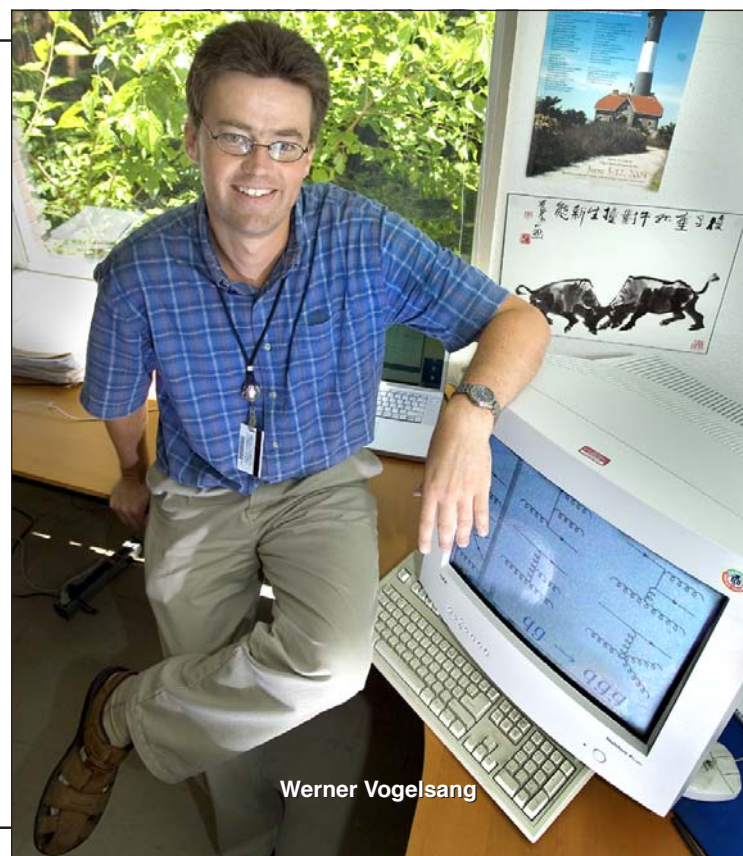
After earning his Ph.D. in 1993 at the University of Dortmund, Germany, Vogelsang took postdoctoral and fellow positions at Rutherford Laboratory, England; CERN, Switzerland; Stony Brook University; and BNL — where he has been holding RIKEN BNL Fellow and RHIC Physics Fellow appointments, 2000-present, in the RIKEN BNL Research Center. In October 2003, he also joined the BNL Nuclear Theory Group in the Physics Department.

Vogelsang's work to date, both in spin and in other aspects of QCD, has had immense impact on the field, garnering over

2,700 citations, with 17 papers being cited more than 50 times each and six of these more than 100 times.

One example, "The spin-dependent two-loop splitting functions," *Nuclear Physics B* 475 (1996) 47, written without coauthors, is recognized as having already become a classical reference in perturbative QCD and spin physics. A more recent, co-authored article, "Next-to-leading order QCD corrections to high-pT pion production in longitudinally polarized pp collisions," *Physical Review D* 67 (2003) 054005, provided results on which many current calculations used by RHIC experiments and the pioneering analyses of spin asymmetries at RHIC are based.

— Liz Seubert



Werner Vogelsang

Roger Stoulenburgh D1840705

Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Recreation Bldg. and at the laundry, both located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mondays: BNL Gospel Choir

5:15-7 p.m. Berkner Hall. All faiths are welcome. www.bnl.gov/bera/activities/choir/.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

Mon., Wed., & Fri.: Tai Chi

Noon-1 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Meet in the gazebo in the apartment area. Lisa Yang, 979-3937.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Jiu Jitsu Club

6:30-7:30 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

Tuesdays: Toastmasters

1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmasters/default.htm.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, large-screen TV, ping pong, chess, games, and socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Meet in the apartment area playgroup. Fang Dong, 871-5362.

Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot.

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernhole, Ext. 2027.

Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

— THIS WEEKEND —

Friday, 8/26

BNL Science Museum Open

11:30 a.m.-1:30 p.m. This is the last Friday this summer that the Lab community, with their families and friends, may visit the museum at lunchtime. The gift shop will also be open. Children under 14 years old must be accompanied by an adult.

— WEEK OF 8/29 —

Monday, 8/29

Vacuum Sealing Technology Demo

10 a.m.-2 p.m., Berkner Hall. Representatives from VAT Inc. will present BNLees with special discounts on their vacuum technology products and services. Tom Murphy, 508-732-7231.

Thursday, 9/1

*Chasman Scholarship Presentation

5:15 p.m., Physics Seminar Lounge, Bldg. 510. Brookhaven Women in Science (BWIS) invites BNLees to a summer reception and presentation of the Renate W. Chasman Scholarship for Women. Refreshments will be served. For more information, contact Loralie Smart, Ext. 2425, or lsmart@bnl.gov.

BNL Reaches Cleanup Milestone Long-Term Response Actions Follow

The Lab is approaching a major milestone: the completion of the “construction phase” of soil, Peconic River, and groundwater cleanup activities at BNL.

However, many operations, maintenance, surveillance, and reporting activities will continue to be performed in the years to come. These continuing actions, known as long-term response actions (LTRA), will also ensure that BNL and DOE are in compliance with applicable regulations and various commitments made to the U.S. Environmental Protection Agency, the N.Y. State Department of Environmental Conservation, the N.Y. State Department of Health, and the Suffolk County Department of Health Services.

Long-Term Response Action Group Formed

Since the start of fiscal year 2005, BNL's Environmental Restoration Projects Directorate has been working closely with the Environmental & Waste Management Services Division (EWMS) on the transition to this long-term phase of the cleanup. The centerpiece of the transition is the formation of the LTRA Group in the EWMS Division, headed by Bill Dorsch.

Among other things, the LTRA group will be responsible for the long-term surveillance, monitoring, maintenance, operating, reporting and community involvement activities required following the completion of the construction phase of cleanup. These will include:

- Groundwater treatment system operation & maintenance
- Surveillance and monitoring of installed remedies
- Management of the Land Use & Institutional Controls Program
 - to protect people and environment
 - to protect installed remedies
- Monitoring and reporting
- Internal and external communications
 - Community Advisory Council, Brookhaven Executive Roundtable, regulators, employees, public

LTRA — Impact on the Lab

The LTRA phase of cleanup involves the awareness and participation of the entire Lab community.

- Changes have been made to several subject areas of the Standards-Based Management System (SBMS) to ensure that excavation activities around the BNL site and future land-use decisions do not disturb residual contamination or otherwise impact completed cleanup projects
- Facility Use Agreements have been updated and now reflect the post-cleanup condition of all cleanup sites
- A program description is being added to SBMS that describes land use and institutional controls needed to ensure that the cleanup projects remain protective of human health and the environment.

The post-cleanup conditions and required land use and institutional controls are fully described in a database that is accessible from the BNL internal and external home pages (choose “Land Use Controls” under the “ES&H” pull-down menu). The direct link to the Land Use and Institutional Controls website is <http://luic.bnl.gov/website/landcontrols/>.

Additional changes will be made to SBMS and applicable websites in the coming months to reflect the formation of the new LTRA Group. Any questions regarding completed cleanup projects should be directed to Bill Dorsch, at Ext. 5186 or dorsch@bnl.gov.

Defensive Driving Course, 10/1

A six-hour defensive driving course will be held on Saturday, October 1, in Berkner Hall, Room B, 9 a.m.-3:30 p.m. The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families, at \$30 per person. To register, send a check made payable to NYSTA to: NYSTA, c/o Don Kelley, P.O. Box 185, Selden, NY 11784. Be sure to write the course date on the check and include your phone number in case you need to be contacted.

Fidelity Investment Counseling, 9/29

A Fidelity Investment representative will be at the Lab on Thursday, September 29, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

TIAA-CREF Retirement Counseling

A TIAA-CREF consultant will visit BNL on August 30 and 31 to answer employees' questions about financial matters. The consultant will help you with: protecting assets against inflation, finding the right allocation mix for you, learning about TIAA-CREF retirement income flexibility, and comparing lifetime income vs. cash withdrawal options. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625. (Not the on-site Ext 4625.)

Vanguard One-on-One Retirement Planning

The Vanguard Group invites BNLees to spend 45 minutes one-on-one with a licensed Vanguard representative on Wednesday, September 28, at the Lab, to talk about financial issues.

You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you.

Schedule a 45-minute session online at www.meetvanguard.com or call 1-800-662-0106, Ext. 14500.

BNL's Summer Science Campers Have a Ball!



Joseph Rubino 01770805

Learning about the colors of light can be a fun experience, as these BNL Summer Science campers discovered. The students made their own shapes to blow the bubbles through and, using their observations, gained an understanding of color, light, shape and the transfer of energy. This year 110 children in grades 4 -6 participated in the camp, which was run four times in three-day sessions by the Lab's Science Museum staff, headed by Gail Donoghue. Said Donoghue, “The children were able to have a meaningful science experience in a fun way. Can it get any better than that?”

Service Anniversaries

The following BNLees celebrated service anniversaries during June:

35 Years

Howard Gordon Physics
Frank Dusek C-A

30 Years

Brian Briscoe C-A
Ralph Giordano, Jr. Plant Eng.
Susan Rackett-Rossetti SSD

25 Years

David Schlyer Chemistry
Daniel Sheppard CFS
Ronald Hauser CFS
Dieter Schneider Biology
Joseph Curley C-A
Bruce Penn Budget Office
Joseph Tuozzolo C-A
Edward Gallagher BSD
Peter Daum Env. Sci.
Denise Miesell-Bingham Plant Eng.
Payton King Medical
Wu-Tsung Weng HENP
Richard Backofen CEGPA
Francis Loeb Physics
David Kirby Physics

20 Years

James Durnan S&H Svcs.
Christopher Robertson PPM
Catherine Osiecki CEGPA
Edward Grove ES&T
John White, Jr. C-A
Denise Monteleone Biology
David Lissauer Physics

10 Years

John Glass Medical
David Loughlin C-A
James Jardine Biology
Marcelo Vazquez Medical
Beth Lettieri Rad. Ctrl.

In Memoriam

George Lilja, a machine operator who joined BNL's Special Materials Shop on August 16, 1948, and rose to Principal Staff Shop Technician in the Alternating Gradient Synchrotron Department, died at 84 on July 26, 2005. He retired from the Lab on May 21, 1982.

Dean Campbell, who joined the Physics Department on February 5, 1962, as an intermediate technician and retired from the Relativistic Heavy Ion Collider Project on December 31, 1995, as a technical specialist, died on November 22, 2004. He was 70.

Smith Pearsall, who, on August 9, 1948, joined BNL's then Security & Plant Protection Division as a patrolman B, died at 81 on December 25, 2004. After 33-plus years in the Health Physics Division, he retired as a project engineer II on November 30, 1984,

Arrivals & Departures

Arrivals

Garry Crosson Envi. Sci.
Kenya Crosson ES&T
Erik Muller CFN

Departures

Frank Barta Plant Eng.
James Downing PPM
Saskia Mioduszewski Physics
Gordon Votruba Waste Mgmt.

Weekly Dance Lessons Resume, 9/7

The BNL Ballroom Dance Club resumes weekly lessons with instructor Giny Rae in the North Ballroom at the Brookhaven Center on Wednesday, September 7. Join a friendly group and have fun. Lessons are open to BERA members and their guests (one guest per member). The initial six-week series, which costs \$24 per person per series, will be:

- 6 - 7 p.m. Beginner - Merengue
- 7 - 8 p.m. Advanced - Foxtrot

To sign up or for more information, contact John Millener, Ext. 3853 or millener@bnl.gov or Madeline Windsor, Ext. 5069 or windsor@bnl.gov.

Get to Know Your Lab
Lunchtime Tour — Winging It! 9/9

A walk with naturalist Ernie Lewis of the Plant Engineering Division in the wilds of BNL to observe local and migratory birds will be held on the next employee lunchtime tour, on Friday, September 9. Employees, facility users, and retirees are invited to join the group that will meet at Berkner Hall upper lobby at noon, to be transported by a Lab van down to the walk site, returning to Berkner by 1 p.m. Wear appropriate shoes and bring binoculars if you would like.



Roger Stoutenburgh D0690705

Perhaps you will see this on-site indigo bunting on the walk on September 9. Or, see the Bulletin online for this glorious blue.

Gym, Pool Open Saturdays From 9/10

The gym and pool will once again be open on Saturdays, beginning September 10. The gym will be open from 10 a.m. to 4 p.m., and the pool will be open from noon to 4 p.m. Both facilities will be closed on Sundays and on all Lab holidays. For a complete schedule, see www.bnl.gov/bera.

Recreation Hall Closed, 8/29-31

The Recreation Hall in the apartment area, Building 317, will be closed on Monday and Tuesday, August 29 and 30. It will reopen on Wednesday, August 31 at 5 p.m.

No classes, ESOL classes, meetings, ping pong, or other activities will take place in the Recreation Hall during this time.

Upton Nursery School
Learning Is Fun for 3- and 4-Year-Olds

Enrollment is ongoing now in the Upton Nursery School, a parent-run, not-for-profit, cooperative nursery school. The school meets at the Recreation Hall in the apartment area and provides a warm, caring, and stimulating environment for children. Classes begin on Tuesday, September 6, and meet two or three mornings a week. For more information or to register your child, contact Amie Kennedy, 727-8082, abk22@care2.com, or go to www.bnl.gov/nurseryschool.

Donate School Supplies

Backpacks, pads, pens and pencils, folders, glue, and all general school supplies are being collected to help local children in need. Drop donations at Building 179B in the Quality of Life/BERA/Recreation Office; or send a check made payable to BERA so that supplies can be bought for those in need.

Site Resident



Roger Stoutenburgh D1870705

Benefits Office Reminder
Proof of Student Status

All medical/dental plan participants are reminded to submit an updated proof of student status to the Benefits Office, Bldg. 185, for the upcoming college semester. The Benefits Office will submit this to the insurance company on your behalf. To be eligible for benefits, children over age 19 must be unmarried, a full-time student attending an accredited college or university and primarily supported by you. For more information, call the Benefits Office, Ext. 2877 or 5126.

Save the Date: Walk for Beauty, 9/18

The 12th Annual Walk for Beauty will be held on Sunday, September 18, in Stony Brook. The annual four or six kilometer walk through scenic, historic areas of Stony Brook raises funds for breast and prostate cancer research at Stony Brook University.

BNL's Women's Program Advisory Committee is gathering a team from the Lab. The Walk for Beauty flyer and brochure, which includes the registration form, walker sponsor sheet, and driving directions, are on the Women's Program website at: www.bnl.gov/diversity/womansProgram.asp.

All participants are responsible for their own registration and fee of \$20, or sponsorship. If you have any questions, contact Stacia Scocca, Ext. 3979 or scocca@bnl.gov.

BWIS Reception
Chasman Scholarship Presentation, 9/1

Brookhaven Women in Science (BWIS) invites the BNL community — employees, facility users, visitors, guests, and their families — to a summer reception and presentation of the Renate W. Chasman Scholarship for Women, on Thursday, September 1, at 5:15 p.m. in the Physics Seminar Lounge, Bldg. 510. Refreshments will be served. For more information, contact Loralie Smart, Ext. 2425, or lsmart@bnl.gov.

Trip to U.S. Open, 9/6

The BERA Tennis Committee has scheduled a bus trip to the U.S. Open Tennis championships at the National Tennis Center, on Tuesday, September 6. The bus will leave from the Lab tennis courts parking lot at 8:30 a.m. and make one stop at LIE exit 63 Park and Ride. Departure from the National Tennis Center will be at 7:30 p.m. The trip costs \$65 per person, which includes a ticket for the day session (now \$45) and the roundtrip bus fare and tip for the driver. A few seats remain; paid reservations are being accepted in the BERA Sales Office.

Jazzercise Session
Begins, 9/13

Sign up by the deadline of Tuesday, September 6, for Jazzercise classes that will begin on Tuesday, September 13. Classes will be held on Tuesday and Thursdays at noon in the Recreation Hall. Registration for the eight-week session is \$88. If you are brand new to Jazzercise, then you may come and try a free class before joining. For more information, contact the Recreation Office, Ext. 2873.

Operation Phone Home

The Upton Post Office is encouraging people to participate in the U.S. Postal Service's "Operation Phone Home Program." This program sends phone cards to the men and women serving overseas to allow them to keep in touch with their families. You may purchase and donate the phone card at the Upton Post Office to be distributed to local service members. If you have family members or friends who are serving, give their names and addresses to the Post Office staff, who will see that they receive a phone card.

The price of a card is \$10 or more, but if you are unable to buy an individual card, you may place a donation for whatever you can afford in a "group fund" bucket that will be on the counter. For more information, call Ext. 2539.

Book Fair, 9/8

A good selection of books will be available at discount prices at the "Books Are Fun" Book Fair to be sponsored by BERA in Berkner Hall on Thursday, September 8. Prices for this wide range of new books, will be offered at 20 to 70 percent below retail.

The antlers on this stag photographed a few weeks ago on site by Roger Stoutenburgh seem to be imitated by the mullen plant to the right. According to Tim Green, the Lab's Cultural and Natural Resources Manager, the mullen grows for two years with the flowering racine appearing at the end of the second year.

Calendar
(continued)

— WEEK OF 9/5 —

Monday, 9/5

Lab Closed for Labor Day
No Bulletin will be issued this week.

Tuesday, 9/6

*Trip to U.S. Open Tennis
8:30 a.m. Lab tennis courts parking lot. Some seats remain on the bus trip to the U.S. Open Tennis championships at the National Tennis Center. Bus will depart the Tennis Center at 7:30 p.m. \$65 per person includes admission (\$45), the roundtrip bus fare, and tip for the driver. Buy tickets at the BERA Sale Office in Berkner Hall, Ext. 3347.

Thursday, 9/8

*'Books Are Fun' Book Fair
10 a.m.-2 p.m., Berkner Hall. Great selection, save 20 to 70 percent off retail.

— WEEK OF 9/12 —

Tuesday, 9/13

BSA Colloquium on Science Policy
4 p.m. Berkner Hall. Patrick Looney, Assistant Laboratory Director for Policy and Strategic Planning, will give a BSA Colloquium on "Science Policy and Politics." All are welcome to this free public lecture. Visitors of 16 and over must carry photo ID.

Sunday, 9/18

*Walk for Beauty, Cancer Research
Join the group from BNL who will get sponsors and walk 4 to 6 kilometers in historic Stony Brook to benefit cancer research. See notice, above, left. For registration forms and more information, go to www.bnl.gov/diversity/womansProgram.asp. Or contact Stacia Scocca, Ext. 3979 or scocca@bnl.gov.

— WEEK OF 9/19 —

Wednesday, 9/21

Brookhaven Lecture
4 p.m. Berkner Hall. Vasilis Fthenakis, Environmental Sciences Department, will talk about "Photovoltaics and the Environment." All are welcome to this free public lecture. Visitors of 16 and over must carry photo ID.

Sunday, 9/25

BERA-Sponsored NASCAR Trip
Dover, Delaware. \$110 per person includes great seats and luxury coach bus. Advance reservations are necessary and can be made at the BERA Store, weekdays, 9 a.m.-3 p.m. See also www.nascar.com.

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. Write "Bulletin Calendar" in the subject line.

Softball Party, 9/30

The BERA Softball League End of Season Party will be held on Friday, September 30, from 6 to 10 p.m. at the Rock Hill Country Club.

If purchased by August 31, tickets for players cost \$25, guests \$30. Tickets purchased after August 31 cost \$30 for softball players and \$35 for guests. Price includes dinner buffet, cookies, coffee, DJ for dancing, and a cash bar. Everyone is welcome, but there is limited seating. Tickets are available at the BERA Sales Office in Berkner Hall; from Rich Scheidet, Bldg. 134C, Ext. 5284; or from Lois Marascia, Bldg. 460, Ext. 8600. Make checks payable to BERA Softball. A limited number of tickets will be available at the door.



Roll Up Your Sleeve: Blood Drive, 9/8

To replenish Long Island's blood supply, BNL is holding a blood drive on Thursday, September 8, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. Donors must be from 16 to 76 years of age, in good health, and weighing over 110 lbs. Restrictions may apply to individuals from the United Kingdom and Europe. Donors should have photo identification and know their social security number.

To make an appointment, contact Susan Foster at Ext. 2888 or e-mail donateblood@bnl.gov. In your message, include your name, phone extension, and preferred time to donate.



Joseph Rubino D0410904

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/.

The following positions have been exempted from the freeze by the Deputy Director:

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK3423. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physics, chemistry or materials science, and significant experience in synchrotron-based experimentation and/or cathodelens microscopy (LEEM/PEEM), including independent data acquisition and analysis, sample preparation, and end-station or beam-line development and maintenance. The Proximal Probe Microscopy Facility at the BNL Center for Functional Nanomaterials (CFN) has an immediate opening for a postdoctoral research associate in the area of low-energy electron microscopy (LEEM) and synchrotron-based photoelectron-emission microscopy (PEEM), applied to thin film and nanostructure growth, reactivity, and electronic structure. Scientific focus will be the study of surface processes governing hydrogen storage and release in complex metal hydrides. Will plan an important role in the development, testing, and commissioning of a dedicated LEEM/PEEM end station at the National Synchrotron Light Source (NSLS), and use this state-of-the-art microscopy facility for high-resolution surface imaging of growth and chemical reactions at surfaces. The CFN is a science based user facility. Interaction and scientific collaboration with BNL staff and with general users is encouraged. Under the direction of P. Sutter, Center for Functional Nanomaterials.

MK3669. POSTDOCTORAL RESEARCH ASSOCIATES (Two Positions) - Requires a Ph.D. in structural biology, molecular biology, or biochemistry. Experience in all aspects of modern macromolecular crystallography, including crystallization, synchrotron data collection, phasing and refinement is preferred. Candidates with molecular biology and/or biochemistry background interested in learning macromolecular crystallography are encouraged to apply. The research program involves structure determination of macromolecules. The Biology Department has excellent facilities for structural biology and state-of-the-art x-ray diffraction data collection facilities available at the NSLS. Under the direction of S. Swaminathan, Biology Department.

MK2482. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in applied mathematics, physics or a related discipline and demonstrated research ability in computational magnetohydrodynamics or fluid dynamics, and in the design and operation of large simulation codes for fluid dynamics. In addition, requires knowledge of modeling of fluid flow in the multiphase regime with phase transitions. On going effort involves modeling, software development and simulations of free surface magnetohydrodynamic flows with application to fusion technologies. The Computational Science Center engages in advanced scientific computing in biology, MHD/fluid dynamics, nanoscience, and the use of massively parallel machines. For more information visit www.bnl.gov/csc. Under the direction of J. Davenport, Computational Science Center.

MK3231. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in chemistry, biochemistry, bioinformatics, engineering or a related discipline and experience using Matlab for image processing and co-registration. Knowledge of bioinformatics and familiarity with neural networks is highly desirable. Research will involve image processing, co-registration, and multivariate analysis of synchrotron-based x-ray and infrared data. Under the direction of L. Miller, National Synchrotron Light Source Department.

NS3232. RESEARCH ENGINEER I (P-9) - Requires an MSEE and eight years experience or equivalent to work within the controls and diagnostics group at the NSLS. Must possess a strong background in analog and digital control systems and their application to electron storage rings. MatLab and LabView capabilities will also be required to complete assignments. RF and power experience will be a plus. Will be responsible for proposing and managing new projects as well as assuming responsibility for existing systems. National Synchrotron Light Source Department.

TB3235. PROJECT ENGINEER II (P-7) - Requires a bachelor's degree in mechanical engineering, an advanced degree in engineering is highly desirable, and a minimum of six years of experience in designing and analyzing components such as those used in particle accelerators and/or beam lines. In addition, proficiency with FEA software such as ANSYS is required. Registration as a NYS Professional Engineer is desirable. Will be expected to perform engineering, structural and thermal analyses. National Synchrotron Light Source Department.

NS3233. SR. STAFF SPECIALIST (A-8) – Requires 10 years related experience and a bachelor's degree, for which may be substituted equivalent significant experience in the development and implementation of administrative procedures, supervision of an administrative professional group, and demonstrated experience overseeing a complex variety of administrative functions within a scientific environment. In addition, requires technical writing experience, a strong working knowledge of database development, and excellent oral and written communication skills. Knowledge of Laboratory policies and procedures is highly desirable. Will be responsible for managing the NSLS User Administration Office and administering the user program for ~2500 facility users annually. Will oversee the proposal review process, supervise development of the web-based Proposal, Allocation, Safety and Scheduling (PASS) system, maintain user access policies and guidance, implement Laboratory guest appointment policies and procedures, and maintain beam-line management records. Will function as liaison to the Department of Energy (DOE) and outside advisory panels; coordinate with other DOE synchrotron radiation laboratories; develop written and electronic materials for the user community; and oversee coordination of the annual Users' Meeting for some 400 attendees. Will be responsible for preparing section budget and submitting annual and ad hoc reports to DOE, BNL and NSLS. Participation in department and laboratory committees as necessary, including Guest Information System (GIS) development and foreign visits and assignments (FVA) processes. National Synchrotron Light Source Department.

TB3234. TECHNICAL SPECIALIST (T-2) – Requires an AAS in a technical field, a relevant trade school diploma, or the equivalent training plus at least four years of relevant experience. Experience should include pumps and pumping stations, bending, brazing, soldering and silver soldering tubing and pipe fittings, and proficiency with thermal systems (heat exchangers, valves, controls, etc). Mechanical assembly and fabrication experience is a plus. Will construct, assemble, troubleshoot, and maintain fluid systems for accelerator systems and scientific experiments. Work assignments will include machining and fabrication of fluid piping systems; testing, evaluating, operating, maintenance, and troubleshooting of process fluid systems; and construction of fluid systems equipment. National Synchrotron Light Source Department.

TB3770. ADMINISTRATIVE SERVICES ASSISTANT (A-2) - Requires an AAS (database management, computer technology, business) plus at least 2 years' relevant experience, as well as basic database development and maintenance skills, strong analytical, communication and interpersonal skills, and proficiency in MS

Access, Word and Outlook. Must be responsive and resourceful in responding to the needs and problems of scientists visiting the Collider-Accelerator complex. Knowledge of Laboratory policies and procedures and experience in issuing Laboratory appointments and check-in process, which requires a clear understanding of acceptable working INS documentation and all supporting documents associated with work-type visas a plus. Involves extensive interaction with RHIC, AGS, NSRL, ATF, and Tandem user community and BNL staff. Utilizing various databases, primary responsibilities include issuing user appointments, monitoring training exams, issuing BNL ID cards and dosimetry badges, database maintenance, input and administrative support to the Manager of the Users' Center. Director's Office.

Motor Vehicles & Supplies

02 FORD TAURUS - 7 passenger wagon, factory ext. warr., mint cond., fully loaded, great gas mi. 44K mi. \$7,500/neg. 875-9426.

02 MAZDA MIATA S5P - Dark green w/tan Leather int., garaged, mint condition. One owner. 13K mi. \$17,000/neg. 730-5901.

01 CHEVY SUBURBAN - a/c, p/s, p/w, p/l, am.fm/cd, new tires, excel. cond., much more. 56K mi. \$17,000/neg. 516-928-3470.

00 DODGE NEON ES - a/t, a/c, all pwr., c/c, CD changer, htd. mirrors, new rad., gd gas mi., gar., runs well. 96K mi. \$2,500. 981-3709.

98 HONDA CIVIC EX COUPE - Black, new tires & batt, p/l, p/b, 2-dr, a/c, abs, p/w, p/s. 82K mi. \$6,700/neg. Ext. 4705 or 929-4978.

98 HONDA CIVIC EX COUPE - great cond., p/w, sunroof, cd, \$5,600 KBB value, sell for \$4,500/neg. Karen, 917-513-2729.

96 CHRYSLER CIRRUS LXI - 4-cyl, a/t, a/c, abs, c/c, p/w, leather, good cond., recent insp. 75K mi. \$2,800/neg. Mark, Ext. 2247.

95 CAMRY LE - a/t, a/c, p/w, p/l, 4 cyl., 4 new tires, new batt., recent insp., runs well, orig. owner. 129K mi. \$4,500/neg. 591-1183.

95 TOYOTA CAMRY LE - orig. owner, auto, 4cyl. p/s p/l, p/w, c/c, alarm, new tires/batt., very reliable. 129K mi. \$4,200/neg. 591-1183.

94 DODGE CARAVAN - V6,3L, a/c, p/s, am/at/cass, good cond. 96K mi. \$1,850/neg. Guangming, Ext. 3378 or 646-243-8217.

92 SATURN SL2 - running cond., not used for last 2 years. 124K mi. \$500/neg. Pavel, Ext. 7784 or 731-1625.

89 HONDA ACCORD - v. low miles, well maint., all records, excel. running cond., a/t. 71K mi. \$1,900/neg. Ext. 7992 or 331-4820.

89 OLDS DELTA 88 - does not run, has ignition problem, lace alloy wheels, trailer hitch, recent insp. 188K mi. \$100/neg. Ext. 2788.

89 CHEVY CAPRICE, BR, LS - Black exterior, gray int., good condition, original owner. 74K mi. \$1,200/neg. Richard, Ext. 3868.

86 ALLEGRO MOTOR HOME - 31' dual a/c, heat, generator, sleeps 5 comfortably. Clean. Recnt full tune-up. 29K mi. \$8,000. 399-6457.

83 YAMAHA VIRAGO 750 - low mi., good cond., many extras, 325-0447 after 5 p.m.

8' PICKUP CAP - white, fiberglass, excel. cond. \$500. Roy, Ext. 4843 or 727-6714.

HUB CAPS - 15-inch lock-on hub caps, like new. Call after 5 p.m. 325-0447.

VECTOR LIGHTBAR - 5 rotating units, takedown lights, alley lights, rear flashers. All clear lenses. \$500. Dan, 516-319-8281.

Boats & Marine Supplies

50' PEARSON P27, P23 - Fifty feet of sailboats in two pieces, '79 23 footer, '88 27 footer. Both in vg-exec cond. Ext. 2788.

32'LUHRS - 1973 all fiberglass, fly bridge, twin Chrysler 318s. Presently in water. First \$10,000 takes it. 734-7014.

BOAT TRAILER - Shoreline EZ-Load for up to 20 foot boats. \$400. 871-8117.

Furnishings & Appliances

BEDROOM SETS - 2 full master, \$150 ea; daybed, excel. cond., \$125; bassinet, \$20; 2 capt. chairs 2/\$15; kit. tbl. \$25. Ext. 7007.

BOOKCASE - 24" w x 50" h x 8" d, 4 wood shelves, painted brown, \$10. 563-0989.

DINING, KITCHEN SETS - blk. lacquer, 4 cloth-back chs., leaf incl., \$650; Kit: glass tbl, 6 blk. capt. chs, \$300. All excel. 828-8042.

FURNITURE - pine, early American, hutches, professional office desk. 208-0408.

OVEN - Kenmore gas wall oven, 24x38, self cleaning, black glass doors, digital, perfect shape, ask \$400. 758-5592.

VCR - \$15; breadmaker, \$15; 2.4 GHz phone + sep. ans. machine, \$10. Joe, 921-3289.

Audio, Video & Computer

COMPUTER - 2.2GHz, 1GB RAM, DVD burner, 300GB HD, 256MB video, mon, kybrd, WinXPPro, Off2K3Pro, 6 mo. \$850. 471-2991.

SYNTHESIZER - collectible vintage desktop module, Yamaha TG33, like new in factory box, Vector synthesis, \$130. Ext. 3621.

Sports, Hobbies & Pets

ELECTRONIC DARTBOARD - w/ wooden cabinet, new in box. \$70. Ext. 2352.

EXERCISE EQUIP - Universal 4-station machine, extra weights, best offer over \$500. 208-0408.

PAINTBALL GUN - Tippman A-5, min. used, (2) 20oz. CO2 tanks, Twister 14" barrel, drop forward, ask \$225. Ext. 4548 or 874-8631.

SKIS - 2 sets w/poles, \$10 ea. Ext. 7007 or 473-9678.

Tools, House & Garden

CHARCOAL BBQ - Weber, good cond. \$25. Sue, Ext. 7235 or 399-7997.

STEP LADDER - aluminum, 6', \$20; electric juicer, \$5. Joyce, 563-0989.

STORM DOORS - Forever, 36" w, \$50; a/c, Friedrich, 7,900 Btu, \$200. Philip, 363-2070.

Miscellaneous

BEDROOM FURNITURE - 7 furn-a-kit pc, excel cond., \$295; igp bistro bar + more, \$250; women's clothing, \$1-\$5, 751-7023.

DRAFTING TABLE - 3'x5', adjustable, metal, w/rubber matting, 2 drawers & outlet plugs. Great cond. Call after 5 p.m. 325-0447.

MAPLE SYRUP - from my family's farm in Vermont. Peter, Ext. 7687 or 744-1112.

TROMBONE - Yamaha, w/case, care kit, and music book, used 7 times. \$140; two baby carriages, \$25 ea. Anthony, Ext. 4035.

VINTAGE/HEIRLOOM - tablecloths, napkins, towels, M&W handkerchiefs, ladies' gloves & hats, accordion. Ext. 7007 or 473-9678.

WASHING MACHINE - 3 speed/3 temperature GE washer, 3 years old, in excel. cond. Michael, Ext. 6102 or 878-9020.

Yard & Garage Sales

MASTIC - 59 Strafford St., furniture, Christmas, jewelry, artwork, linen, tech books, 8/27, 9 a.-4 p.m., 8/28, 9 a.-1 p.m. 395-3484.

Free

KITTENS - About four months old. Three males and four females. Robert, 294-5077.

Wanted

AIR CONDITIONER - compact window unit w/expander for student dorm room, 115V, reasonable. Ext. 7505 or 689-8605.

BABYSITTER - for 7 yr-old girl in Shoreham, after school 3-5:30 p.m. weekdays, salary neg., refs., car desirable. Denise, 821-3251.

DOG PEN - for adult & puppy, will pick up. Linda, 696-2045.

Lost & Found

FLASH LIGHT - Found at ball field 1. Expensive type. If it's yours, call. Joseph, Ext. 5740.

For Rent

BELLPORT VILLAGE - renovated studio apt., 2 blks from water & village ctr., no smkg/pets, util. incl \$750/mo. Barbara, 286-8925.

CENTER MORICHES - female roommate wanted to share 4-bdrm. house w/2 BNL employees. Full kitch, 2 baths, dock, ocean view, f/p, w/d. \$700/mo. Molly, 617-851-4791.

CENTER MORICHES - 1-bdrm. 2nd fl. apt., walk to town, priv. ent, off-st. pkg., bath, kit, gas stove, high ceils., new carpet/paint, w/d, no smkg/pets. \$1,100/mo./neg. 736-2275.

CORAM - 1-bdrm apt., avail. immed., rent incl heat, pkg, spacious, carpeted. a/c, d/w. In complex: swimming, fitness, tennis, basketball, laundry. \$1,005/mo. 681-3333.

E. SHIRLEY - fully furnished, eik, lr/bdrm. combo, full bath, sep. ent., no smkg./pets, 1 mo. sec. req'd., 5 min to stores & beach, 15 min to Lab. \$700/mo. 804-8609.

EAST SHIRLEY - fully furnished l/r & bdrm. combo, eik, full bath, sep. ent., no smkg/pets, 1 mo. sec., 5 min to stores/beach, 15 min to Lab. \$750/mo. Ext. 8321.

MANOR PARK - 2-bdrm. 1st-fl apt., l/r, d/r, no smkg./pets, priv. ent., sep. th/stat, use of yard, M/ville schools, 5 min to Lab or beach. 2 mo. sec. \$1,600/mo. Ext. 5154 or 707-2549.

MANORVILLE - 3 bdrm, l/r, d/r, 2 bath, kit, den, office on acre of land, quiet neighborhood, + util. \$1,800/mo. Maria, 427-4584.

MIDDLE ISLAND - 2 bdrm., new kitchen appliances, dining room, new bath, full bsmt/attic. All on 2 beautiful acres. Minutes from Lab. \$1,650/mo. Dave, Ext. 3255.

MIDDLE ISLAND NORTH - brand new 1-bdrm. apt. w/eik, l/r, bath, lots of closets, quiet road, priv. ent., 1 mo/sec/tel, + elec. \$900/mo. Jnn, 839-3462.

MILLER PLACE - share furn. lg. Col. house, cac, internet, tv, fenced backyard w/deck, own w/w bdrm., prof. resid. area, 9 mi. to BNL, resp. non smoker \$700/mo. 744-8386.

NAPLES, FL - br/new condo in Cypress Wood Golf & Country Club, 2 bdrm, 2 bath, sleeps 4-6, decorator furn., fully equipped kit., all linens, \$1700- \$3,500/mo. 208-0196.

RIDGE - 1-bdrm. apt., kit., full bath, pvt. ent., all incl., \$1,000/mo. 922-2142.

RIDGE - studio apt., kit., full bath, pvt. yard & ent., no smkg., clean., avail. immed., includes all. \$750/mo. 433-1127.

RIDGE - 3 bedrooms, den, kitchen, living rm, w/fp, downstairs room, laundry, including all, \$2,000/mo. 821-0859.

ROCKY POINT - 1-bdrm. bsmt. apt. avail. 9/7., incl. util., DirecTV, internet, sep. kit., ent., shared laundry. \$700/mo. Bjorg, 745-9611.

SHIRLEY - 2-bdrm. upstairs apt., l/r, d/r, new carpet, no smkg./pets, priv. ent., 3 people max, 5 min to Lab. 1 mo. sec. \$1,100/mo. 772-4887.

SOUND BEACH - cute and cozy 1-bdrm, 1-bath house, new carpets, paint, appliances. 15 min to Lab, close to beach. \$1,125/mo. John or Pete, Ext. 4028.

WADING RIVER - 3 bdrm., 2 bath, house w/ sep. studio, new furniture. lgp, lrg yard, steps to pvt. beach. Newly renov bath, wood-burning stove, avail. 10/1. \$2,500/mo./neg. Ext. 3731.

YAPHANK - studio apt., fully furnished for one person, priv. ent., 4 miles to Lab, cable, high speed internet, all included. Private home. \$850/mo./neg. Irene, 924-3049.

For Sale

FLANDERS - 2-bdrm. ranch, 1 full bath, l/r w/fp, eik, Florida rm, 2-car gar. \$410,000. 782-8523.

SOUND BEACH - water view, 100ft to beach, low taxes, 3 bedrm., 2 bath, l/r, d/r, f/r, c/a/c, c/vac, granite f/p, deck, patio, prof. landscaped. \$525,000. 744-1855.

ARUBA - time-share Marriott ocean view. great place, can exchange for strong time share. \$16,000. Robert, Ext. 7238.

In Appreciation

Our deepest appreciation for everyone's prayers and support during my son's recovery from his terrible accident. Your response to our tragedy has been overwhelming and heartwarming. We are so grateful.

— Terri Loffredo & Family

Thanks to everyone who came to say goodbye. Thanks and goodbye to you.

— Bobby Dee

Weight Watchers, 9/7

Registration for the next Weight Watchers 10-week series will be held on Wednesday, September 7, noon-1 p.m., in the Brookhaven Center. The new series will begin on Wednesday, September 14. For more information, contact Michael Thorn, Ext. 8612.

Farmer's Market

The Farmer's Market will be outside Berkner on Wednesdays until August 31, 11:30 a.m.- 1:30 p.m. Buy fresh produce, crafts, and more.

For more information, call Joanne Rula, Ext. 8481.

On-Site Service Station

Need your vehicle inspected, or your brakes, battery or tires checked and/or replaced? This and much more can be done at the on-site service station while you are at work. Call Ext. 4034 for more information.