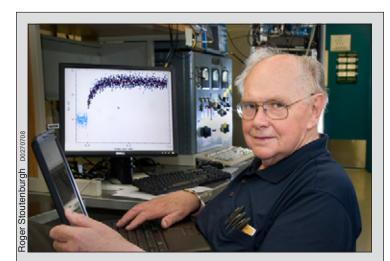
Bulletin



July 25, 2008



Harold Schwarz, **Senior Chemist Emeritus**

Harold Schwarz, who has worked in the Chemistry Department at Brookhaven National Laboratory (BNL) since 1951, has been named Senior Chemist Emeritus. Since his retirement in 1995, Schwarz has continued to work in

Chemistry, collaborating with colleagues on research and helping to maintain and upgrade equipment. As a Senior Chemist Emeritus, Schwarz will regain his BNL badge along with many of the rights, privileges, and obligations of active employees.

Said Chemistry Chair Alex Harris, "Harold Schwarz is an

internationally recognized leader in the fields of radiation chemistry, the chemistry of free radicals, and the development and application of pulse radiolysis techniques. He has continued as an active participant in the Chemistry Department's research since his retirement. In particular, he has brought very valuable expertise in the continuing development of advanced instrumentation to the Center for Radiation Chemistry. We are very pleased that the Laboratory is recognizing his active involvement and contributions to BNL by supporting his appointment as Emeritus."

"BNL was a reasonably new lab that had developed a good reputation when I joined nearly 57 years ago," Schwarz recalled. He began his career at BNL by researching radiation effects on water. Water was used to cool and moderate nuclear reactors and Schwarz investigated accidents that could occur when it was irradiated. In his early years, he collaborated with Augustine (A.O.) Allen, a senior chemist in the department. Together, they determined the nature and reactivity of free radicals produced in irradiated water and also discovered conditions under which the generation of hydrogen and oxygen was almost completely suppressed. Due to his expertise on the subject, Schwarz was called in as a consultant during the Three Mile Island reactor crisis in 1979.

Schwarz also worked with the Instrumentation Division

to design a circuit for the department's Van de Graaff accelerator that would create short pulses of 2 MeV electrons used to produce free radicals and study reactions directly.

Very few people have jobs they look forward to going to—I am one of them.

- Harold Schwarz

In 1968, Schwarz served as a visiting professor at The Hebrew University of Jerusalem in Israel. During this one-year sabbatical, he collaborated with a former research associate at the university to develop and use pulse radiolysis equipment with a recently acquired linear accelerator. While in Israel, Schwarz also collaborated with fellow BNL chemist Ralph Weston, who was in California at the time to write a textbook entitled Chemical Kinetics, published in 1972. Chemical kinetics, the study of chemical reaction rates and detailed mechanisms, was changing rapidly at the time the book was published. Schwarz and Weston's textbook was one of the first to take this into account.

In later work at BNL, Schwarz used pulse radiolysis techniques to study many reduction-oxidation (redox) reactions and the thermochemistry of various free radicals. These experiments meshed with the work of other BNL staff members to develop a better understanding of reactions in the use of solar energy. Schwarz was also influential in planning for a new accelerator that would become BNL's Laser-Electron Accelerator Facility (LEAF). His experience with accelerators enabled him to provide critical input and advice during the conceptual and development phases of LEAF.

Since his retirement, Schwarz has continued to play see Schwarz on pg. 2



The Australian Nuclear Science & Technology Organization research team gather around their BNL-built detector.

BNL-Built 'Wombat' Detector Up, Running in Australia

Will enable structural, dynamic studies of materials for electronics, energy conversion, more

A neutron detector designed and built by scientists at BNL is now up and running at Australia's new OPAL nuclear research reactor, which is operated by the Australian Nuclear Science & Technology Organization (AN-STO). The detector is a major component of Wombat (named for the native Australian marsupial), one of several new instruments at OPAL. Wombat will soon be collecting data on the properties of a wide range of materials with potential applications in electronics, drug delivery, and energy conversion and storage.

The detector project drew upon the expertise of physicists, engineers, and technical staff within BNL's Instrumentation Division. That team, with mechanical engineering assistance from the Collider-Accelerator Department and support from Central Fabrication Services Division, had designed and built a nearly identical neutron detector for biologists at Los Alamos National Laboratory, where it has been operating successfully for structural studies of proteins since 2002. A visit there prompted a group of Australian scientists to request a similar design.

"It was quite an honor to carry out this work," said Instrumentation's Graham Smith, who led the project. "We're not in the business of productionline assembly, but this detector is not something the Australians could have purchased commercially. All the parts are unique and all were designed here at Brookhaven. The Australians came to us because we have a

long track record of building one-of-a-kind, precision detectors for research facilities. So we were delighted to do this for the benefit of science."

BNL was compensated through a "work for others" arrangement.

Making a Wombat Detector

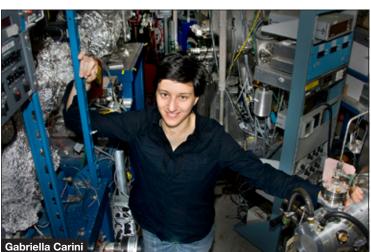
Like its counterpart at Los Alamos, the detector on the Australian Wombat instrument is made of eight identical multiwire segments arranged sideby-side inside an arc-shaped aluminum pressure vessel containing a rare form of helium gas. As a neutron beam from the OPAL reactor strikes a sample placed at the center of the arc, neutrons scatter, or diffract, off the sample, travel into the vessel, and collide with helium atoms.

These collisions produce a see Wombat on page 2

Gabriella Carini of the NSLS Wins IEEE Young Engineer Award

National Synchrotron Light Source (NSLS) researcher Gabriella Carini has won the 2008 Institute of Electrical & Electronics Engineers (IEEE) Long Island Section's Outstanding Young Engineer Award for "outstanding contributions to the advancement of semiconductor detectors for x-ray spectroscopy." The award is given to IEEE members who have made important technical contributions prior to age 35. The IEEE Long Island Section has about 3,000 members.

Carini joined the Detector Development & Testing Division at BNL's Nonproliferation & National Security (NNS) Department as a graduate student in 2003. During this time, she was part of a team that developed a cadmium-zinc-telluride (CZT) Frisch-ring detector at BNL. This highly efficient, low-cost radiation detector can be used for homeland security applications, nuclear medical imaging, environmental monitoring and cleanup, galactic events studies, and nuclear-weapons safeguards. The development team received a 2005 R&D 100 Award for the device, which detects both xrays and gamma rays with high



resolution, and can identify the specific source of radiation.

"Data generated by Gabriella using the NSLS led to new thrusts for many organizations involved in the development of CZT xray and gamma detectors," said Ralph James of NNS. "It is rare to see a young scientist impact the directions of so many people."

In 2006, Carini received her Ph.D. in electronic engineering from the University of Palermo, in Italy, and stayed at BNL as a research associate with NNS. She led the development of the endstation at NSLS beamline

X27B for microcharacterization of semiconductor detectors, and joined the NSLS Detectors Group as a research associate in late 2006. She was promoted to assistant physicist in April 2008.

"Since joining NSLS, Gabriella has led the effort to produce novel silicon detector arrays for the Linac Coherent Light Source at Stanford," said physicist Pete Siddons, who leads the NSLS Detectors Group. "Thanks to her skills and persistence, we have recently successfully demonstrated prototypes of this new detector." — Kendra Snyder

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BNL Office of Educational Programs Hosts Open Space Stewardship **Teacher** Workshop

Last week, from July 14-18th, BNL's Office of Educational Programs (OEP) held the Open Space Stewardship Program (OSSP) Teacher Workshop at BNL. The five-day workshop was led by OSSP leader teachers Amy Meyer and Ivan Suarez from William Floyd and Longwood School Districts, respectively.

The workshop was designed for teachers who will be participating in the program for the first time during the 2008-09 school year. During the week, 14 teachers from local schools learned how to use the equipment such as GPS — global positioning systems — tracking devices, and soil and water test kits that they will use with their students during the year.

"The goal for today will be to get you out of your comfort zones into a new feeling that



'I can do the fieldwork myself, and I can do the fieldwork with my students,"" explained Suarez, before participants left for Longwood Estates on Wednesday, where they took pond water samples.

The teachers appreciated learning about different techniques and research themes. "I think this workshop is great," said Aaron Factor, a science research teacher at Middle Country Central School District. "One of the big reasons I'm taking this class is to get research ideas to do with my students. I will definitely take them out into the field and if they just learn how to take data during the first half of the year, it will be excellent."

Research projects planned by the teachers for the fall are wide-ranging. Donna Edgar, a marine biology teacher from

Bayport-Blue Point High School, will be monitoring different field parameters, such as dissolved oxygen, nitrates, phosphates, and temperature within the Brown's River Watershed and a few other surrounding estuarine areas.

"It is important to make students aware that activities that are carried out in an upland watershed may greatly influence a neighboring ecosystem such as the Great South Bay," explained Edgar.

Al Levik, a Middle Country School 11th and 12th grade physics teacher plans to use GPS tracking devices and distance displacement vectors to determine tree line distance. "This program is focused on earth and environmental research, but we can take a lot from it also for physics research," Levik said.

OEP launched the OSSP in

2006 as part of its GREEN Institute. GREEN stands for "Gaining Research Experience in the Environment."

"This program provides an opportunity for students in grades K through 12 to be out in their local environment, doing science research,"

said Mel Morris, an educational programs administrator at OEP. "It also prepares the future generation of environmentally literate citizens and environmentalists."

During the school year, students do environmental research on undeveloped land within their school district that is owned by either a public or private agency. Past classroom projects have included: tracking black squirrel populations



(Above) Mel Morris, Office of Educational Programs, studies a water sample with a workshop participant.

(Left) The 2008 Open Space Stewardship Program Teacher Workshop attendees (Below) Capturing samples



at the Robert J. Henke Memorial Nature Preserve, studying an interdunal swale habitat at the Harper's Preserve in Southold, and testing soil samples from a field near the Albert G. Prodell Middle School. Each spring, the students present their work at a student symposium held at BNL. For more information about OSSP, visit: http://www. greenossp.org/ or contact Morris at 631-344-5963 or mmorris@bnl.gov —Kirsten Dorans

Obituary Page

The Bulletin has a new, online Obituary Page at http:// www.bnl.gov/bnl web/pubaf/ bulletin/obit to supplement the information given in the In Memoriam notices in the printed paper. All are invited to send in memories of BNL colleagues or family members. Contact Liz Seubert, lseubert@ bnl.gov or Ext. 2346.

Service Anniversaries

The following employees celebrated a service anniversary during April:

- 40 Years -Lonnie Muldrow...... Plant Eng. - 35 Years -Suresh Srivastava..... Medical - 30 Years -

John Blydenburgh......PPM Alfred Farland CFS Michael Schaeffer.....CFN Peter VanierNNS Susan White-DePace... Dir's Office

- 25 Years -Eleanor Hughes Dir's Office Antoinette Russo...... Budget - 20 Years -

Philip H. Baker, Jr. Plant Eng. Steven HoeyNSLS-II John McCarthy Physics Michael O'Connor SSD Frank Toldo Physics - 10 Years -

Mark Baker Physics Pauline Carter..... Medical John Fogus Plant Eng. Arthur Governali Plant Eng. Richard Horstman Plant Eng. Aljosa Marus C-AD Gregory Meyer..... EMD James Mungo Plant Eng.

Arrivals & Departures

Stephen Springsteen... Plant Eng.

- Arrivals -Jingchuan Sun.....Biology Liyuan Zhang CMP&MS - Departures -Noreen Michelsen..... Budget Gregory Ogeka Finance John Sondericker CMP&MS

Wombat from pg. 1

telltale track of electrons, which are sensed by low-noise electronics sitting on top of the vessel, and translated into a diffraction pattern — a scatter plot of dots that indicate the direction and intensity of the scattered beam. This information enables the experimenter to determine the positions of hydrogen atoms in the sample, which can then be used to piece together important structural details of the sample. By taking several "snapshots" over time, the scientists can also use the detector to make "movies" of how a material's structure changes, for example, when the sample is placed under pressure or when an electric current is applied.

Wombat Detector Use

"We've already had a lot of interest in using Wombat for rapid real-time measurements," said ANSTO researcher Andrew Studer. "For example, there's a lot of interest in looking at phase changes in various materials. We've also had interest from chemists who want to look at how hydrogen arranges itself in hydrogen-storage materials as they're being charged up: Where in the structure does it go first? How does it shuffle around as the charging continues? How does the structure change after repeated use? Wombat can answer these sort of questions,

which may help lead to better storage solutions."

Although the Wombat detector was the second of its kind built by the BNL team, research and development was carried out to improve its performance from the initial design - primarily upgrades to several electronic elements to increase the rate of data collection.

"It was also a big effort in terms of logistics," Smith said, "even bigger than the detector built for Los Alamos, because everything had to be moved halfway around the world."

All the parts were packaged in crates made by BNL carpenters. "They did an exceptional job," Smith said. "When we unpacked at ANSTO, everything was in perfect condition and worked without a fault.'

Instrumentation's Neil Schaknowski and Joe Mead accompanied Smith to Australia in early 2007 for the on-site assembly and instrument commissioning, which went without a hitch. A temporary reactor shutdown then resulted in all OPAL instruments having no neutrons until the reactor came back online in May 2008.

Now up and running, Wombat is poised for scattering studies and the BNL team anticipates stunning science.

- Karen McNulty Walsh

BWIS Reception, Scholarship Presentation, 7/30

Brookhaven Women in Science (BWIS) invites the BNL community to a summer reception and presentation of the Renate W. Chasman Scholarship for Women, on Wednesday, July 30, 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.

Schwarz from pg. 1

a key role in upgrading pulse radiolysis equipment at the Van de Graaff accelerator. This machine was originally purchased in 1948 and while its pulses are considered slow on a modern timescale, Schwarz said, "Our Van de Graaff is one of the most precise instruments in the world for studying and providing insight into chemical species that have lifetimes from a few microseconds to several seconds."

Schwarz earned a B.A. in chemistry from the University of Omaha in 1948 and a Ph.D. in chemistry from the University of Notre Dame in and rose through BNL's ranks, retiring as a senior chemist in 1995. Nearly 70 of his works were published between 1954 and 2002.

Throughout his years at BNL, Schwarz has also been active in the outside scientific community, serving on a number of committees

including the Radiation Research Society Awards Committee in 1970 and 1971, the Accelerator Committee for the U.S. Army's Natick Laboratories in 1970-1973, the Visiting Committee at Argonne National Laboratory in 1993, and the Visiting Committee at the University of Notre Dame's Radiation Laboratory in 1996. Schwarz also lectured at the Radiation Research Society Meeting in 1970 and spoke at the University of Wisconsin's Symposium on Chemistry of Unusual Species in 1962, the Gatlinburg Conference in 1963, Berlin's 1952. He started at BNL as Hahn-Meitner Institute in an associate chemist in 1951 1969, and Canada's Chalk River in 1978.

"We always had a lot of freedom in what we did at BNL," Schwarz reflected. "As long as we worked safely, we were free to do a lot of interesting work. Very few people have jobs they look forward to going to—I am one of them."

— Joe Gettler

Rock Band to Feature Great Pop of 1960s-80s, 8/1

Argent Fantasy, a Long Islandbased rock band, will perform in concert on Friday, August 1, at 7 p.m. in the Brookhaven Center. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

The six band members: Marty Houlroyd on bass; Bill Blais on keyboard and male lead vocals; Angie Billings, female lead vocals; Larry Weiss on percussion and vocals; and John Yaeger and Dominic Cuoccio on rhythm guitar — open up the Long Island music scene with popular sounds from the 1960s to 1980s. They include hits by Jefferson Airplane and the Zombies, the Beatles, the Rolling Stones, the Doors, and more. On the pop side, the list includes hits by bands such as the Turtles and Badfinger, as well as the grassroots sounds of the Doobie Brothers, Robert Palmer, and the Eagles.

Tickets are \$10 at the BERA Store or at the door. For more information go to: www.argentfantasy.com.

CIGNA Representative

A CIGNA Healthcare representative is available as needed in Human Resources, Bldg. 400, or by phone to assist with claims issues you have been unable to resolve vourself through CIGNA's Customer Service number (1-800-CIGNA24). Mary Beth Kivlen will be available by appointment only. You will need to provide all pertinent documentation. To schedule, call the Benefits Office, Ext. 5126.

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BNL Hosts Supplier Showcase To Highlight Small Businesses

On Friday, August 8, from 9 a.m. to 1:30 p.m., Brookhaven will host a Small Business Supplier Showcase in the upper lobby of Berkner Hall. The showcase is intended to familiarize Lab employees responsible for purchasing activities with the products and/or services available from small business suppliers.

The showcase takes the place of the usual Bi-Annual Small Business Procurement Fair, and all are encouraged to stop by, get information, and talk with the vendors about their products.

"Our primary goal is to show the BNL/DOE community that the various items they usually buy from large businesses can, in many cases, be bought from some of our proven/reliable small business sources," said Jill Clough-Johnston, BNL's Small Business Liaison Officer. "We also see it as one way to thank our small business suppliers for helping us complete the DOE mission in FY07."

Clough-Johnston expects approximately 25 small business suppliers to participate and set up tables featuring their products and services. Several other small business suppliers will have posters displayed. Local Congressman Tim Bishop (First Congressional District, Suffolk County) is expected to attend the event and address participants.

"All of BNL's small businesses suppliers that submitted a company profile will also be showcased in the 'FY07 BNL Small Business Suppliers Book," said Clough-Johnston. "This book is a buyer's resource that we will make available to all BNL/DOE employees on site."

The Next Top Model in Science

BERA Camera Club will conduct a studio lighting photography demonstration, featuring live models as subjects on August 6th. There will be a makeup artist on hand. The club is currently looking for photographers to join the club's photo shoot. Only club members can attend the shoot. To become a member, contact Ripp Bowman, Ext. 4672.

Join a BERA Trip!

Buy tickets at the BERA Store, Berkner Hall, Bldg. 488, Ext. 3347, weekdays, 9 a.m.-3 p.m. Tickets must be paid for at time of reservation. Trips leave from

- Wildwater Kingdom, Dorney Park, PA. Fri., 8/1. \$35/ adult or child (recommended for children of 4 and over). Leave BNL 7 a.m., leave PA 6 p.m.
- US Open, Tues., 9/2, not a Lab holiday. \$58/person for ticket & coach. Leave BNL 8:30 a.m., leave stadium 7:30 p.m. Section 311 & 312, upper promenade level.
- West Point Army vs. Akron, OH. Football game, Sat., 9/20. \$65 per person includes luxury coach, game ticket, and hot tailgate catered luncheon. Leave BNL 7 a.m., leave game 5 p.m. or at game conclusion.
- NASCAR race at Dover, DE, Sun. 9/21. \$120/person includes ticket, tailgate party, luxury bus. Leave BNL at 5 a.m., leave Dover, DE at 6 p.m. or at race conclusion. 52 tickets available. Maximum of 5 tickets per person for the first week of sales.
- **New York City Dinner Cruise**. Sat. 9/27. Leave BNL at 5 p.m. by luxury coach to sail on the Skyline Princess in New York Harbor, 7-11 p.m. Cost of \$90/person includes tax, full buffet dinner with dessert, coffee, cash bar; DJ dancing; coach transportation, and tax. For ages 21 and over only. http://www.skylinecruises.com/
- Cabela's in East Hartford, CT, Sat. 9/27. "THE" shopping Mecca for all sports enthusiasts. Leave BNL 7 a.m., leave Cabela's at 5 p.m. \$20/adult or child. See www.cabelas.com/retail-2/retail-Stores easthartford--easthartford h.shtml.

Enterprise Car Rental Service Moves to Bldg. 400

Need to rent some wheels? If you need to rent a car, pick-up truck, or van, stop by the Enterprise Rent-A-Car service desk now located in the lobby of Building 400.

Henry Hauptman of the Staff Services Division, the liaison to Enterprise, says, "Having an Enterprise representative on site has proven worthwhile. Employees are keeping Enterprise busy by using their services regularly. It will be convenient having the service desk in a central location."

Through its Corporate Class Program, Enterprise offers discounted rental rates for Lab employees for business or personal use. Call Ext. 4888 for additional information on rental options and pricing. — Jane Koropsak



Working together to relocate the **Enterprise service** desk to the lobby of building 400, are (from left) Joann Giambalvo, Staff Services Division (SS); John Cascione, Jr., of **Enterprise-Rent-**A-Car; and Henry Hauptman, SS.

Summer Sunday Tours: Science Learning Center, 7/27

BNL again opens its doors to the public this summer, on Sundays from July 20 through August 17, featuring a different tour on each week. Adults and children can also enjoy a variety of entertaining activities, including the Whiz Bang Science Show and the Brain Teasers exhibit.

Summer Sundays are offered free, and no reservations are needed. Visitors may arrive any time between 10 a.m. and 3 p.m. BNLers who attend are most welcome, but please check in at

Berkner first to join the regular groups taken to visit the featured facility. Lone rangers who show up solo at the facility can hold up the schedule, which has to be very tight. The Whiz Bang Science Show will be staged at 10:30 a.m., noon, 1:30 p.m. and 3 p.m. All visitors age 16 and over must bring a photo ID. For more information, visit the BNL website: www.bnl.gov. The Summer Sundays schedule follows:

July 27 — Science Learning Center

Play with science, no matter what your age. Have fun testing your hands-on science skills. Enjoy a science magician's tricks.

August 3 — National Weather Service

Come to the weather-forecasting center for the entire New York metropolitan area. Track storms, big or small. Learn about hurricane preparedness. Witness a 3:30 p.m. weather-balloon launch.

August 10 — Center for Functional Nanomaterials

Visit a new center where studies of the ultra-small may lead to ultra-big discoveries in many areas, from energy to electronics. This tour is appropriate for adults and children over 10 years old.

August 17 — Relativistic Heavy Ion Collider

Learn how gold ions are smashed together in an underground tunnel to recreate the temperature and energy density of the early universe. Tour appropriate for adults and children over 10 years old.

Join Jones Beach Walk/Run/Picnic, 7/29

The BNL Running Club and BERA members will participate in the annual MK Workplace Challenge Run/Walk at Jones Beach on Tuesday, July 29. Last year, 50 BNLers attended this event. They have the best memories: Jones Beach on a July evening — a great 3.5 miles on a beautiful course — Long Island's largest office picnic! All BNL employees, their families, and friends are welcome.

The event starts at 7 p.m. The BNL Captains are Paul Geiger pgeiger@bnl.gov, Bldg. 460, Ext. 3308; and Mike Mapes, mapes@ bnl.gov, Bldg. 911A, Ext. 2841. You can register online at https:// secure.marathonguide.com/register/MKWorkplace Challenge/ TeamAdditions.cfm?Code=1419MdWw for \$22 through July 28.

The fee for the picnic is \$10 per person. Send or deliver your payment to Betty Elder, Bldg. No. 1005S, in cash or a check made out to Elder. Contact Elder, Ext. 3562 for more information or if you are willing to volunteer to help set up the picnic.

Last year's event was covered by News 12 Neighborhood Journal, and it is now on You Tube. Check it out! http://www.youtube. com/watch?v=7ph-mOeiYas&fmt=6.

A Reminder from the Benefits Office

The birth of a child, adopting a child, or getting married are all exciting life events. Please remember to enroll any newly attained dependents in your medical and/or dental programs within 30 days from the date your new dependent is born, adopted, or otherwise becomes eligible for coverage. If you do not enroll your dependent through the Benefits Office within 30 days from the date he/she first becomes eligible, you will be required to wait until the next Open Enrollment Period to enroll him/her. Call the Benefits Office, Ext. 2877 or Ext. 5126, if you have any questions.

FARMINGVILLE - Lg Bdrm in house, full kit I/r d/r share bath w/1 incl cable wifi phone. avail. now. \$495/mo. Ben, 513-8275. HOLBROOK - Condo, 2 bdrm, 2 bath, a/c, w/d, f/p, pool access, 20 mins to Lab, rent plus utilities \$1,500/mo. 203-317-9744.

MASTIC - new 1 BR apt, kit. I/r combo, full bath, priv. ent, quiet, own thermostat, util. incl, nr LIRR, no smkg/pets, walk to shop, 7 min to Lab. \$775/mo./neg. 335-4907.

PORT JEFF - walk to shops, contemp. Victorian, 4 bdrm, great rm, 2 bath, eik. waterview loft, fin. bsmt, pool & hot tub, avail. Sept. 1. \$2,750/mo. 804-4662.

RIDGE - 2BR, Bath, LR, DR, EIK, wash&dry, no smoking/pets, price includes all, immed. avail., call after 6 p.m. \$1,250/mo. Lisa, 924-7282.

ROCKY POINT - avail. Aug 1, 1 bdrm bsmt apt, 9 mi to Lab, view of LI Sound, lg. l/r, eik, full bath, priv ent, 1 mo. sec + part util. \$1,100/mo. Lorraine, 849-2974. ROCKY POINT - 1 BR apt for 1. Full bath, I/

rm, kitch, cac, firepl. Sep. entr, off-str park. No pets. Utilities included except phone, cable, internet. \$975/mo. 987-8822.

ST. JAMES - 2 bdrm,2 bath,l/r,d/r,eik,priv. deck,updated appli,catv,in Fairfield 55+ gated commnty, indoor & outdoor pools, tennis, clubhse. \$2,000/mo. 584-3656.

ST. JAMES - First floor apt., 2 bdrm., one bath, LR, full kitchen, patio, w/w carpeting, W/D, util. inc. no pets, smoking, children. \$1,000/mo. 584-8462.

For Sale

E. MORICHES/NEWPORT BEACH - 5/6 brdrm, mother/dghter, 41/2 bath, 2 full kitchens, tenant available, 1.5 car det. gar., cent. A/C, fin. bsmt \$529,000/neg. 745-2495.

MILLER PLACE - well maintnd Old Field ranch, 3 Bdrm, 1 full bath, LR w/fp, Andersen Windows, .34/acre level propty, 1.5 car det. gar. w/elec. \$310,000/neg. 241-4166.

MORICHES - Condo, Waterways, 55+, 3 bdrm., 2ba, upper unit, one car gar., move-in condition. \$340,000/neg. 878-1947.

PT JEFFERSON STATION - 4 bdrm. Col., 3 Vill. SD, Minnesauke/Gelinas, gar., Gunite igp, f/p, sunrm/jacuzzi, 1/3 acre, fen. yd., 2 sheds, new roof \$500,000/neg. 834-8255.

RIDGE - Cust. Victorian, 3.000 soft, v. nr Lab 4/5 BR, 2+1/2 bth, Jacuz, hdwd flrs, c/air, full bmt w/sep ent; 2car gar, 1 acre+, adj. prot. land, ownr sale \$549,000/neg. 255-8445.

SHOREHAM - Middlecross Estates, 4 bdrm., 2.5 bath Col., frml I/r & d/r, den w/fp, lg. kit. w/dinette, 2 car gar., fin. bsmt., igs, SWRSD, more. \$529,000/neg. 821-3320.

SOUND BEACH - waterview 2-story saltbox, 3 bdrm, 1.5 bath, grt rm, d/r, den, kit, gar, part. fin bsmt, great views, community beach, sell/rent \$2,400/mo. \$445,000. 793-9227.

SOUND BEACH - waterview, 2 bdrm, I/r stone f/p, eik, 1 bath, lg level lot wld allow house expansion, community beach, sell/rent \$1,150/mo. \$240,000. 793-9227.

Services: A list of services provided by BNL employees is found at http:// intranet.bnl.gov/ads/displayAdsAll.asp

CALENDAR

Sunday, 7/27

*Summer Sundays: **Science Learning Center**

10 a.m.-3 p.m. Open to the public. All are invited to visit the Lab for free tours. No reservations needed. Witness the Whiz Bang Science Show, try your hand at the Brain Teasers exhibit. Visit the Science Learning Center, have fun playing and testing out your hands-on science skills. Visitors to the Lab of 16 and over must carry a photo ID. See notice at left.

- WEEK OF 7/28 -

Monday, 7/28

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes nominations for union president and officers.

*Defensive Driving, Part I

6-9:15 p.m. Brookhaven Center, South Room. Part I of a two-part course. See notice below.

Wednesday, 7/30

*BWIS Reception, Chasman Award

5:15 p.m. Physics Seminar Lounge, Bldg. 510. The Renate W. Chasman Scholarship will be presented, and refreshments served. All are welcome.

Thursday, 7/31

*Defensive Driving, Part II

6-9:15 p.m. Berkner Hall, Room B. See notice, below.

Friday, 8/1

*Rock Band: Argent Fantasy

7 p.m. Brookhaven Center. Sponsored by the BNL Music Club, the concert by Argent Fantasy and his six-musician band will feature hits from the 1960s to the 1980s. Tickets are available at the BERA Store, at \$10 each. See notice, p. 2.

Sunday, 8/3

*Summer Sundays: **National Weather Center**

10 a.m.-3 p.m. Open to the public. All are invited to visit the Lab for free tours. No reservations needed. Witness the Whiz Bang Science Show, try your hand at the Brain Teasers exhibit. Visit the National Weather Center on site. Visitors to the Lab of 16 and over must carry a photo ID. See notice above, left.

- WEEK OF 8/4 -

Friday, 8/8

*Small Business Supplier Show

9 a.m.-1:30 p.m. Berkner Hall lobby.About 25 small business that supply BNL will feature their products and services. All are welcome. See notice, above

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.

Defensive Driving In Two Parts, 7/28 & 31

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts: on Monday, July 28, in the Brookhaven Center South Room and Thursday, July 31, in Berkner Hall, Room B, both from 6 to 9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$38 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number. For more information, call Sarah Wiley, Ext. 4207.



Classified Advertisements

To apply for a position, go to www.bnl. gov. Select "Careers at Brookhaven" then "Employment Opportunities

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physics, chemistry, materials science or a related field. Good laboratory skills, high motivation for frontier interdisciplinary research and significant experience in at least one of the following fields is required: x-ray scattering methods, scanning probe microscopy, polymer characterization, and solution based nanoscale synthesis. The successful candidate will be working in an interdisciplinary research project which is focused on the study of self-organization phenomena and structure formation in nanoscale systems with biological recognition. The work combines development of nano-assembly methods for fabrication of well-defined multi-component structures with structural characterization using state-of-theart facilities, including synchrotron-based x-ray scattering methods, atomic force microscopy. spectroscopic and optical techniques. Under the direction of O. Gang, Center for Functional Nanomaterials. Apply to Job ID # 14555.

POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in chemistry, physics or a related field. Applicants with demonstrated expertise in the application of ultrafast laser techniques to chemical physics problems are strongly preferred. Experience in UHV surface science and/or preparation of supported metal nanoparticles are also preferred, but not required. The successful candidate will work to identify and elucidate mechanisms and energy transfer timescales in photon-driven chemical transformations at single crystal and nanoparticle surfaces. When applying for this position, make sure to attach a brief (1 paragraph) statement of research interests, curriculum vitae and three letters of reference to the Candidate Gateway application. Under the direction of N. Camillone, Chemistry Department. Apply to Job ID # 14556.

POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. chemistry, chemical engineering or physics. Previous experience in the characterization of heterogeneous catalysts and in the techniques used in surface science is desired. The successful candidate will be studying new metal/oxide catalysts active for the watergas shift reactions. The catalysts will be characterized using synchrotron-based techniques (photoemission, x-ray diffraction, x-ray absorption, and spectroscopy). Under the direction of J. Rodriguez. Apply to Job ID # 14557.

MANAGER OFFICE OF EMERGENCY MANA AGEMENT (M-2) - Requires a bachelor's degree in studies relevant to this position, and a minimum of 15 years' relevant experience that includes at least 6 years' emergency management/disaster recovery experience with a major corporation, law enforcement, intelligence, public service or private sector emergency management organization. A master's degree is desirable. Project management experience is preferred and familiarity with Department of Energy emergency management requirements is highly desirable. Plans, develops and manages the corporate Emergency Preparedness/ Disaster Recovery programs for the company under senior management direction. Responsible for the business strategies associated with the Emergency Preparedness/Disaster Recovery function within the organization. Accountable for overall planning, directing and organizing activities of the programs, and ensures their effective operation. Implements policies, procedures and systems required for maintaining and enhancing the overall Emergency Preparedness/Disaster Recovery mission. Responsibilities include overseeing the architecture of emergency management programs including preparedness, prevention, response, mitigation and recovery to ensure the Laboratory and staff are adequately protected. This includes: hazard analysis, procedure writing; program planning; project design and scheduling; development and delivering training; planning and conducting drills and exercises: designing, developing and maintaining emergency response facilities and equipment. Designs, develops, and conducts drills and exercises. Plans, schedules and conducts a wide range of very complex facility and/or site Emergency Preparedness/Disaster Recovery drills vhich could include Emergency Re training drills, medical drills, fire response drills, hazardous materials drills, and protective action drills. Determines the need for emergency plans changes and new procedures and ensures the appropriate government format and content are followed. Coordinates with state and local emergency management authorities. Maintains expert knowledge of the organization's processes and hazards; interfaces with engineering and operations staff to ensure appropriate development of a facility and/or sitespecific hazard assessment and emergency classification procedures. Prepares technical reports based on the expert interpretation of analyzed data. Laboratory Protection Division Apply to Job ID # 14549.

ELECTRICAL ENGINEER/RESEARCH ENGI-NEER II (P-7) - Requires a BSEE (MSEE preferred) along with excellent systems engineering skills and a minimum of 7 years' hands-on design experience with digital hardware. Familiarity with high density programmable gate arrays and design tools for schematic capture and simulation is required as is experience with computer bus interfacing. Must be able

to analyze and troubleshoot systems with test equipment such as logic analyzers and oscilloscopes. Excellent communication skills and experience with project planning & scheduling is necessary. Embedded microcontroller hardware/firmware design and development systems experience is highly desirable; experience with analog signal interfacing desirable. Industrial PLC experience a plus. The Collider-Accelerator Department (C-AD) is responsible for operation, maintenance, and upgrade of the Relativistic Heavy Ion Collider (RHIC). Responsibilities in the successful candidate in the Accelerator Controls Group include designing, testing and integrating state-of-the-art, realtime distributed control and data acquisition systems for the RHIC complex. Collider-Accelerator Department. Apply to Job ID# 14552.

CONSTRUCTION SAFETY ENGINEERING INSPECTOR/PROJECT ENGINEER II (P-7) - Requires bachelors degree in engineering or related discipline or equivalent, a working knowledge of 29 CFR 1910 and 1926, and a minimum of seven years of related experience that includes at least five years in the safety of construction and/or maintenance projects. Certification as a Safety Professional will substitute for some educational background. Hoisting and rigging experience is a plus. Responsibilities include providing safety oversight to construction and maintenance contractors and supporting the engineering design effort with respect to safety. Will also be responsible for reviewing and updating engineering specifications to ensure safety requirements are current; reviewing engineering drawings and work plans and incorporating safety requirements; participating in engineering design reviews; reviewing contractor safety plans; ensuring contracts are implementing policies regarding safety, health and environment, including industrial hygiene monitoring and the proper use of PPE; making presentations to management and DOE, and analyzing inspection safety trends and implementing actions to improve performance. Facilities & Operations Directorate. Apply to Job ID# 14551.

DESK SIDE TECHNICIAN/CUSTOMER SUP-PORT ADMINISTRATOR (I-3) (6 positions) - Requires technical training or experience and a minimum of 1-2 years supporting hardware and/or software. MCP/A+ certification and hardware/software certifications are preferred. Candidate must operate well in a team environment, and must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems, PC hardware and general software support. Candidate should possess superior customer service and communication skills and have the ability to handle multiple tasks quickly. A valid driver's license is required for on-site system pickup and delivery. Candidate must be able to lift 30 lbs. Responsibilities include 2nd level troubleshooting of desktop applications, network connectivity, and all computer hardware and peripheral devices; configuring and creating ghost imaging for computers and laptops; administering Windows 2000/XP/Vista using Active Directory/Net IQ. Must be able to collaborate with customers on multiple computer systems and related applications. Will maintain and use technical expertise and tools to investigate, troubleshoot, and resolve service requests in a timely manner. Information Technology Division. Apply to Job ID# 14564.

DESK SIDE TECHNICIAN/CUSTOMER SUP-PORT ANALYST (I-4) - Requires a bachelor's degree, preferably in computer science, or equivalent experience, good organization and communication skills, and at least 1 year of relevant experience in an information technology field. Certification as a Desktop Support Technician, along with hardware and software certifications are a plus. Candidate will have leadership potential, and advanced technical background supporting Windows desktop/ mobile systems with customers on multiple computer systems and related applications. Must operate well in a team environment, and must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems, PC hardware and general software support. Candidate should possess superior customer service skills and have the ability to handle multiple tasks quickly. A valid driver's license is required for on-site system pickup and delivery. Must be able to lift 30 lbs. Responsibilities include 2nd level troubleshooting of desktop applications, network connectivity, and all computer hardware and peripheral devices. Will assist other technicians with complex issues and set good example for co-workers for the efficient resolution of problems. Candidate will be responsible for configuring and creating ghost imaging for computers and laptops; and administering Windows 2000/XP/Vista using Active Directory/Net IQ. Will maintain and use technical expertise and tools to investigate, troubleshoot, and resolve service requests in a timely manner. Information Technology Division. Apply to Job ID# 14559.

DESK SIDE TEAM LEAD/CUSTOMER SUP-PORT ENGINEER (I-6) - Requires a bachelor's degree or equivalent experience, good organization and communication skills, both oral and written, and at least 3 years of related experience in an information technology field. Certification as a Desktop Support Technician, along with hardware and software certifications are a plus. Must have strong leadership skills and advanced technical background supporting Windows desktop/ mobile systems for customers on multiple computer systems and related applications. Must operate well in a team environment, and must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems, PC hardware and general software support. A valid driver's license is required for on-site

system pickup and delivery. Candidate must be able to lift 30 lbs. Occasional after hours escalations on a rotating basis required. Responsibilities include 2nd level troubleshooting of desktop applications, network connectivity, and all computer hardware and peripheral devices. Candidate will escalate issues to other support groups for problem resolution outside of the scope of desk side support and coordinate high priority scheduling. Must be able to assist other technicians with complex issues and lead staff to the efficient resolution of problems. Will be responsible to train new employees and re-train existing employees in new and/or different processes. Will be responsible for configuring and creating ghost imaging for computers and laptops; and administering Windows 2000/XP/Vista using Active Directory/Net IQ. Will maintain and use technical expertise and tools to investigate, troubleshoot, and resolve service requests in a timely manner. Candidate will recommend and review solutions to problems for ultimate publication in the Knowledge Base. Must operate well in a team environment, and must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems, PC hardware and general software support. Information Technology Division. Apply to Job ID # 14561.

HELP DESK ANALYST/CUSTOMER SUP-PORT ADMINISTRATOR (I-3) (4 positions) -Requires technical training or experience and a minimum of 1-2 years' supporting hardware and/or software. Candidate should possess superior customer service skills and have the ability to handle multiple tasks quickly. Must operate well in a challenging, team-oriented environment, and must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems as well as general soft-ware support concepts. Certification as a Help Desk Customer Support Representative and MCP/A+ certifications are a plus. Must be familiar with the use of network remote takeover tools to fix problems remotely from the service desk area. Responsibilities include 1st level (Help Desk) support of heterogeneous computing environment, including Windows, MAC, UNIX and Linux clients, Routine duties include telephone-based troubleshooting of operating systems, desktop applications, network connectivity, and all computer hardware and peripheral devices. Maintain an electronic log of calls, dispatching appropriately unresolved service requests and follow up on previously dispatched requests. Will also handle occasional walk-in customer questions and email requests. Information Technology Division. Apply to Job ID # 14560.

HELP DESK TEAM LEAD/CUSTOMER SUP-PORT ENGINEER (I-6) - Requires a bachelor's degree, preferably in computer science, or equivalent experience, good organization and communication skills, both oral and written, and at least 3 years of relevant experience in an information technology field. Must operate well in a challenging, team-oriented environment and possess solid leadership skills. Must have working knowledge of Microsoft Windows 2000/XP/Vista operating systems as well as general software support concepts. Certification as a Support Center Team Lead, along with hardware and software certifications are a plus. Support for occasional after hours escalations on a rotating basis required. Responsibilities include 1st level (Help Desk) support of heterogeneous computing environment, including Windows, MAC, UNIX and Linux clients. Will supervise the escalation processes when service levels are breached and assists the Service Desk team with complex issues. Will also author, validate and publish standard solutions in the Knowledge Base. Schedules special assignments/projects according to the customer's needs, manages the Call Tracking Software, monitors the work activity, and assigns service requests appropriately. Will generate and be familiar with Service Desk metric reporting to management. Trains new employees and re-trains existing employees in new and/or different processes. Information Technology Division. Apply to Job ID # 14558.

SR. APPLICATIONS ANALYST (I-5) - Requires a BS degree in physics, computer science, or a related field, and 1+ years of related experience, and a strong interest in working within a scientific research environment. Experience with programming in C++ and with UNIX/ is required. The candidate must have good problem solving and communications skills, both written and oral. Experience in any of the following areas is a plus: user interfact es, java programming, real time or embedded software development, software/hardware integration, and/or Linux system administration. The successful candidate will work with a team of physicists, engineers, and programmers to provide application and/or embedded system software used to control the particle accelerator physics research facilities at BNL. The position is within the Controls Division of the Collider-Accelerator Department. Apply to Job ID # 14554.

SR. TECHNOLOGY ENGINEER (I-8) (reposting) - Requires a bachelor's degree, or equivalent experience in computer science or a related field, and at least 8 years' experience in the design, coding, testing, and troubleshooting of information systems. Experience configuring, administering, patching, securing and performance tuning Linux platforms and clustered computing (including schedulers, resource managers and distributed file systems); ability to independently generate creative solutions to atypical problems using open source technologies in a fast-paced and dynamic environment; debugging hardware, managing RAID storage systems, knowledge of security (iptables, TCP wrappers), authentication and

the following services: NFS, DNS, DHCP, NIS, LDAP, Samba, Printing, FTP and Apache, is required; ability to write shell scripts is required. Preferred requirements include the ability to use PERL or Python; experience with Mac OS and experience with the Open Science Grid services of similar grid technologies. Responsibilities include system administration, maintaining and expanding Linux clusters, and engineering level system troubleshooting and debugging. Will act as Primary Engineer designing, implementing and supporting UNIX services at the NSLS-II. Reporting directly to the IT Manager, will play a leading role in the formulation of needs, the design and the implementation of UNIX services in support of a community of 2500 users. Currently the project provides data storage and data processing capabilities for physics simulations and accelerator design. It is expected that the candidate will use his/her creativity and expertise to further expand the scope of UNIX services and also lead the efforts to integrate the facility with the Open Science Grid operations. National Synchrotron Light Source II Project. ERAP Eligible \$1K. Apply to Job ID # 14391.

ADMINISTRATIVE SERVICES ASSISTANT (A-2, ERAP eligible) - Requires four years of relevant experience or an AAS (business computer technology, or database management) and 2 years' relevant experience or a bachelor's degree in a business field. Candidate must have working knowledge of basic database development and maintenance skills; strong analytical, communication, and interpersonal skills; and proficiency in MS Office. In addition, must work independently within established procedures and guidelines, be able to handle non-routine office matters, and be responsive and resourceful in responding to the needs and problems of scientists visiting and working at BNL. Knowledge of PeopleSoft programs a plus. 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, personal identifiable information (PII), and all supporting documents associated with work-type visas is a plus. Position requires working non-traditional business days and/or hours. Job involves extensive interaction with user communities, guests of departments, and with BNL staff. Performs complex administrative functions and maintains confidential administrative records and reports. Utilizing various databases; primary responsibilities include issuing user appointments; monitoring training exams; ensuring guests have signed patent and facility agreements in place before working; issuing BNL ID badges, dosimetry badges, and facility access cards; database maintenance and input; expediting requests for foreign national access and initiating extension of guest appointments; and administrative support to the Head of the Guest, User, and Visitor Center. Director's Office. Apply to Job ID # 14553.

SR. TECHNICAL SPECIALIST/DEPOSITION (T-3, reposting) - Requires an associate's degree or equivalent and at least six years of relevant experience in the maintenance and operation of UHV systems, cryogenics, power supplies, motion control systems and machine automation. Under general technical direction, and with considerable latitude for the exercise of initiative and judgment, the successful candidate will be responsible for the preparation of specifications, procurements, installation, and operation of equipment to establish a state-of-the-art thin-film optics lab. Regular interaction with BNL Central Shops is expected. Must be able to follow written test procedures, troubleshoot and perform a wide variety of electrical testing. Working knowledge of Autocad or Pro/E is desirable. Will work under the direction of the Deposition Research Engineer and report to the NSLS-II Nanoprobe Beamline Group Leader. National Synchrotron Light Source-II. ERAP eligible \$500. Apply to Job ID # 14541.

Motor Vehicles

007 HYUNDAI SONATA - Warr., a/t, 6cyl., excel. cond, AC/CD/MP3, 1st owner. 14K mi. \$14,000/neg. Wen, Ext. 4346, 617-905-8214. 06 SUZUKI GSX1300R HAYABUSA - I td Ed., white pearl, mint, tsukigi exhaust, pwr.commander. 2500 mi. \$7,900/neg. 702-3402. 05 HONDA PILOT - white/grey, Ither, new tires, ext. warr., 8 pass, loaded. 56K mi. \$16,500/neg. James, 603-2350.

03 TOYOTA AVALON - XLS, loaded, immac. cond. silver. 26K mi. \$18,000/neg. 901-7520. 02 YAMAHA VSTAR 1100 CLASSIC - cruiser, w/shld, bags, Mstang seat, rack, pipes, new WWW tires. 47K mi. \$3,999/neg. 433-9205. 97 CHEVROLET CAVALIER - 2dr., a/t, 4cvl., a/c, cd, abs, Good cond., runs well.

70K mi. \$2,000/neg. Paul, 506-8449. 96 TOYOTA CAMRY - Beige, 4-dr, a/t, a/c, p/s, p/b, airbags, 27 mpg, gd. cond., orig. owner. 140K mi. \$2,900/neg. 286-1022.

95 MAZDA PROTEGE, LX - 4dr., a/t, p/w, p/s,

c/c, cass, 2 airbags, New T-belt, exhst, orig. owner. 139K mi. \$2,500/neg. 593-0978. 94 DODGE INTREPID - green, a/t/, a/c, p/s, p/w, p/l, c/c, abs, cd, dual air bags, gd gas mi.160K mi. \$1,000/neg. Frank, Ext. 3835. 94 CHEVY PICK UP - w/cab, lt/blue, 8 cyl., gd. cond. \$3,000/neg. 727-1506.

93 HONDA ACCORD - gd. cond., 5-spd manual, 25-36m/G, windows need work. 130K mi. \$800/neg. Yongjun, Ext. 7182. 81 FORD FAIRMONT - Collector car or

daily driver, 6cyl, 4dr, a/t,a/c,c/c,p/s,p/b. 20 mpg local. \$950/neg. 929-3251.

Boats

17' SAILSTAR EXPLORER SAILBOAT - Day sailer, seats six, mainsail & jib, centerboard, 2.5-hp motor, trailer. \$950. 286-1022. 17' STAR CRAFT FIBERGLASS - '70 boat-

heavy, rides well, '88, 88hp evinrude, located in Mattituck. \$500. 375-8519. 27' RINKER FIESTA V 260 - 1992 Great shape! sleeps 4, professionally mtd, all opts. included, in water. \$13,000. Ext. 4320.

Furnishings & Appliances

AIR CONDITIONER - window unit, almost new, \$50. Ext. 4915.

BEDROOM - dble bed h/board & box spring, matching 6-drawer dresser, mirror ask/\$150. You haul. Ext. 4932 or 928-8993. DOORS, COMPUTER DECK - 2 Colonial (grilles) solid wood doors, \$30; 2 slide doors, \$15; computer deck, \$5. Yao, Ext. 3970. DRESSER - solid oak, two over two, 42w x 19d x 35h, \$150, wall mounted glass shelves

w/ brushed nickel finish. 878-9020. OAK TV CABINET - with swivel top and

pull out shelf - \$20. Linda, Ext. 2383.

Audio, Video & Computers

35MM SLIDE SCANNING - www.pictureperfectscans.com scans, color corrects 35mm slides, converts to DVD. 928-6469. COMPUTER CASE - full ATX Thermal take Armor case, super quite, 120mm fans minor noise reductn, modificn \$90/neg. Ext. 8027. GUITAR AMPLIFIER - Peavey Classic Delta Blues, two 10' speakers, all tube, black tweed, excel. cond. \$375. Ext. 3689

Tools, House & Garden

Sherpa cartop carrier, new, \$10; B&D 9417 Inflator 200 deluxe 12.6 VDC, \$15. scroll saw, Mdl 57-2w/table, \$50; Ext. 7647. SWING SET - Aluminm. Chairs, swing horse, glider, smll slide. \$30. U pick up. Ext. 7022. TABLESAW 8" - Sears, 2 nu blades, \$50; Edison McGraw Bandsaw, \$45; B&D Wrkmate & vise, \$20; 2 sawhorses, \$10. Ext. 7647. USED WOOD - pressure treated CCA: 2x6x8', \$2 ea; 4x4x8' \$4 ea. Straight, no nails. 744-1706.

Sports, Hobbies & Pets

55 GAL SALTWATER SET-UP - I am getting out of the hobby after 30 yrs. Will sell complete set-up for \$75 or b/o. Ext. 5993. BICYCLE - 21", boy's Schwinn chopperstyle, blue, like new, \$50. 516-982-5400. CAR BIKE RACK - Allen Receiver, \$60; Triv. Pursuit, 20th Anniv., \$5; Wood checkerbrd, new \$5; travl iron, \$5. Ext. 7647. CELLO - German made c.1950, excellent

cond, hard case incl, \$4800.00. Stephen, Ext. 4475 or 929-3251. EXERCISE BIKE - Schwinn 203, 17 pro-

grams, heart rate sensor. Used 2.5 yrs, works as new. \$250. May deliver. 790-7179. PIANO - 62" upright, Waters Piano Co, New York, USA. excel cond. 29"x59"x62" plain white. \$500 neg. Guangwei, 342-3965. WETSUIT - Youth size 12. Exc. cond. Orig.

\$115. Asking \$50. Ext. 7235 or 286-1018. YANKEES TICKETS - 4 tickets vs. Baltimore, Tuesday July 29 7:05 p.m. Tier 32, Row H. \$10/ea. Andrea, Ext. 4656.

Miscellaneous

JEWELRY DISPLAY CARRY CASE - zippered, holds trays w/felt boards, incl. many jewelry gift boxes, \$10. 581-7656. MEN'S LEATHER VEST - Territory ahead. shearling, insulated, very warm. XXL, trimmed. new, \$375; now \$225. 379 2125. PIANO - upright, "Cable" USA brand, gd cond., just tuned. Pictures, prof. appraisal available, \$750/neg. 476-4983.

TICKETS - Hampton Classic Horse Show, August 24-31. General Admission \$10 - 2 tickets, ask \$5 for both. Cheryll, Ext. 2852.

CAT - Found at Lab and gets fed daily. Needs a good home. Kathy, 219-7177. CAT - Female one y/o orange tabby. Indoor cat, spayed, and has all her shots. Very friendly. Marteenio, Ext. 5635. CRIB MATTRESS - Sealy baby Posturepedic crib mattress, in v. good condition, hardly used, Joe, Ext. 2215 or 689-0415. KITCHEN RENOVATION ITEMS - Fourstove electric cooktop, stainless steel sink and faucet. Ext. 4844 or 689-9771. PRINTER, EXERCISE MACHINE - HP Print er, 2100 series, needs minor work. Weider exerc. mchine, gd cond. 286-6858.

Wanted

BIKE - man's, 26". Kathleen, Ext. 3845. FIREARMS - old or new, fair \$\$\$ pd, joe, Ext. 3783 or 487-1479.

NEED PET CARRIERS - new or slightly used (all sizes) or donations for pet carriers for an animal shelter. Kathy, Ext. 3161. PERSON WHO WANTED TURNTABLE - I lost your name and number. I may have want you want. Ext. 7647.

TRAILER FOR 16 FT. BOAT - 1500 lbs. in good shape. Russell, Ext. 3745.

Lost & Found

FOUND - softball cleats and batting glove found on Field 1. Douglas, Ext. 7046. LOST MALE CAT - Curtis, 8 mo. old from Whittier Dr, Mastic Bch on 6/23. Orange w/white paws, chest. Friendly, neutrd. Sharon 987-8152, or Kathy, Ext. 3832.

(continued on page 3)

