

Energy Secretary, Under Secretary for Energy Visit BNL



Energy Secretary Samuel Bodman

Photos by Roger Stoutenburgh



Raymond Orbach (right), newly named DOE Under Secretary for Science.



ing that tradition, DOE “requires a partnership between you and us,” Bodman said. “We look to this laboratory for excellence in management as well as science.”

“The most important asset the Department has here . . . is all of you,” he continued. “The personal safety of all Departmental employees and contractors is a top priority for me.”

The Secretary emphasized that Brookhaven can be proud of its history of scientific achievement and contributions in many fields, “But, in my judgement, your safety record requires improvement,” he said. “We ask you to take care of each other and think of yourselves. Small accidents are the precursors to serious accidents.”

Investing in Science

The President understands that we must make investments to ensure that America retains its world pre-eminence in science, Bodman said. “That is why he has proposed the American Competitiveness Initiative [ACI], the Alternative Energy Initiative, and the Global Nuclear Energy Partnership [GNEP]. The Energy Department has a major role in all three programs.”

Through the ACI, the Office of Science budget is expected to increase by 14 percent in 2007, to \$4.1 billion. The Office of Science will direct these additional funds to sectors promising

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On Friday, June 2, BNL welcomed Energy Secretary Samuel Bodman and Raymond Orbach, newly named Under Secretary for Science at the Energy Department. During a whirlwind visit, the Secretary and Under Secretary met researchers at the Relativistic Heavy Ion Collider’s (RHIC) PHENIX and STAR detectors, the National Synchrotron Light Source (NSLS) — where they also discussed prospects for NSLS-II — and the molecular beam epitaxy system laboratory,

where they heard about the Lab’s nanoscience efforts.

The Secretary also gave a standing-room-only talk in Berkner Hall to an audience of employees and other guests, including Shirley Strum Kenny, President of Stony Brook University and Chair of the Brookhaven Science Associates (BSA) Board; Carl Kohrt, Battelle President, CEO, and BSA Vice-Chair; and other members of the Board. (The Secretary’s talk can be viewed on the Lab’s intranet

site at www.bnl.gov/video).

His purpose in coming to the Lab, the Secretary said, was to support the same level of quality in BNL’s future work as that of the greatness of its past — ensuring that “from RHIC to the new Center for Functional Nanomaterials to the preferred siting for the NSLS-II, history will be repeated at the Lab.”

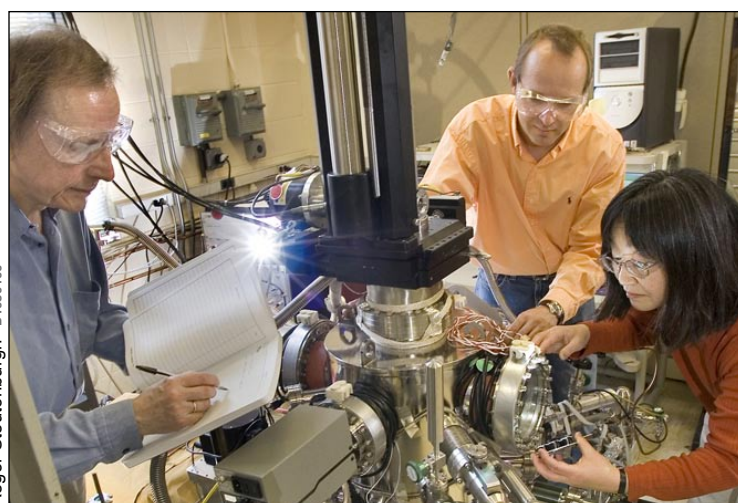
DOE/BNL Partnership Requires Safety and Science

In committing to maintain-

Hydrogen Fuel Initiative — Fueling the Future With BNL Research

American drivers wonder when they may get a reprieve from ultra-steep and still rising gasoline prices. Unless driving habits change considerably or fuel oil supplies become more abundant, they might have to wait until 2020. That is when hydrogen fuel-cell vehicles would begin to reach the commercial mass market, if research efforts, now under way at numerous businesses, universities, federal agencies and national labs, including BNL, are successful in meeting technical goals.

In his 2003 State of the Union address, President Bush announced a \$1.2 billion, five-year Hydrogen Fuel Initiative to develop technology for hydrogen-powered fuel cells. The President’s 2007 budget will include \$289 million to accelerate the development of hydrogen fuel cells and affordable hydrogen-powered cars. Hydrogen fuel-cell vehicles turn hydrogen and oxygen into electricity, which then powers a vehicle’s motor. Unlike the hybrid cars that are on the market today, hydrogen-powered cars do not have bat-



As part of the Hydrogen Fuel Initiative, BNL researchers such as (from left) Radoslav Adzic, Peter Sutter, and Etsuko Fujita are performing DOE-funded basic research that may help bring affordable, efficient fuel-cell vehicles to the marketplace.

teries that run out of power and need recharging. Also, a hydrogen fuel-cell vehicle is environmentally friendly; it is considered a zero-emissions vehicle because it emits only water vapor.

Many challenges must be met before cars powered by hydrogen fuel cells become a reality. Currently, these fuel cells are prohibitively expensive for the mass market, and their use requires that gas stations be replaced with a new storage and distribution system.

As part of the Hydrogen Fuel Initiative, BNL researchers such as Radoslav Adzic, Etsuko Fujita, and Peter Sutter are performing DOE-funded basic research that may help bring affordable, efficient fuel-cell vehicles to the marketplace.

A New Electrocatalyst

Funded by DOE’s Office of Energy Efficiency and Renewable Energy, Radoslav Adzic, Chemistry Department, studies fuel-cell electrocatalysts

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Facility Users From Across the Nation Find Value of NUFO

At the end of March, some 60 representatives of facility user groups in the United States gathered from across the country for a day and a half meeting of the National User Facility Organization (NUFO), held at Fermi National Accelerator Laboratory (FNAL).

NUFO, which started in 1990 with informal meetings initiated at BNL to open avenues of communication between the National Synchrotron Light Source, the Advanced Photon Source,

and the Stanford Synchrotron Radiation Laboratory (SSRL), has now expanded to include materials sciences, high-energy, nuclear physics, and nanoscience user facilities. The group convenes annually with meetings rotating around member facilities to promote and encourage discussions among user facility administrators, their management, and their user organization representatives by communicating current and future needs, concerns, and trends.

Meeting Speakers, Agenda

Talks on the first day of the March 29-30 meeting focused on the National Academy of Sciences’ report entitled “Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future.” After a welcome from Pier Oddone, FNAL Director, among several talks, the “Gathering Storm” report was summarized by Cherry Murray, Deputy Director of Lawrence Livermore National Laboratory

and a coauthor of the report. Other speakers included Eli Kintisch, American Association for the Advancement of Science and Science magazine; Michael Holland, U.S. House of Representatives Committee on Science; and Deborah Koolbeck, Office of Congressman Rush Holt. The session ended with an all-attendee discussion on greater coordination among user groups.

The second day of talks centered on identifying the

processes that drive user safety training at the various DOE user facilities and exploring the potential for standardization, as well as examining how training information is delivered.

NUFO Advantages

Commented BNL’s Brant Johnson, Chair of the Relativistic Heavy Ion Collider (RHIC) & Alternating Gradient Synchrotron (AGS) Users’ Executive Committee, “The NUFO meetings provide

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Representatives of facility user groups gathered at Fermi National Accelerator Laboratory for a meeting of the National User Facility Organization (NUFO).

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 Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Hall) is 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, 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: CIGNA Rep On Site

10 a.m.-3 p.m. CIGNA's Janice Petgrave is in Bldg. 185, to assist CIGNA medical plan participants with claims issues. Call Linda Rundlett, Ext. 5126, for 30-min. appointment.

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 Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Aerobics

5:15-6:30 p.m., Rec. Hall. 10 classes for \$40, or \$5 per class, pay as you go. Pat Flood, Ext. 7866.

Tues. & Thurs: Aqua Aerobics

5:15-6:15 p.m. \$20 to attend once a week, \$40 to attend twice a week. For more information, call Ext. 2873.

Tues. & Thurs: Jazzercise

Noon-1 p.m., Rec. Hall. \$88 for twice-a-week eight-week session, you may use the membership at several Jazzercise locations. Christine, Ext. 5090.

Tues. & Thurs.: Ving Tsun Kung Fu

Noon-1 p.m., Brookhaven Center, North Room. \$80/month or \$10 per class, pay as you go. Taught by Master William Moy. Scott Bradley, Ext. 5745 or bradley@bnl.gov.

Tue., Thu. & Fri: Upton Nursery School
8:30 a.m.-noon, Rec. Hall. 2- and 3-day programs available. Kat, 821-4131.

Tuesdays: Welcome Coffee

10 a.m.-noon, Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. 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/toastmstrs/.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, TV, ping pong, chess, games, 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. Fang Dong, 871-5362.

Wednesdays: Weight Watchers

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

Wednesdays: Yoga

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

Wednesdays: Ballroom Dance Class

Brookhaven Center, N. Ballroom. Instructor: Giny Rae. New series starts 3/15. See notice, page 3. John Milner, Ext. 3853; Madeline Windsor, Ext. 5069.

Thursdays: Reiki Healing Class

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

Fridays: Family Swim Night

5-8 p.m. 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.

Energy Secretary, Under Secretary for Energy Visit BNL

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breakthroughs, including supercomputers, nanotechnology, high-intensity light sources like the NSLS, energy from biomass, and nuclear fusion.

Another reflection of Washington's growing awareness of the importance of science, the Secretary pointed out, is Congress's recent confirmation of Ray Orbach as "the first Under Secretary for Science in the history of our Department. The symbolism involved expresses a role for science in our country's government that it has never had before, and we will take maximum advantage of it."

Over the next 10 years, even more funding will come from the ACI — \$136-plus billion — to invest in research and development, improved math and science education, and incentives to encourage entrepreneurship and innovation, Bodman said.

GNEP, meanwhile, is a collaboration among several countries, Bodman said. The aim is to develop new technologies to recycle spent nuclear fuel in a way that cuts proliferation risks while reducing the volume of waste for disposal. Nine DOE labs, including Brookhaven, are playing a role in this program.

The Alternative Energy Program is also focused on developing new technology. With a 22 percent increase for FY07, this will translate into more support for work on cellulosic

ethanol, lithium ion batteries for hybrid vehicles, and hydrogen fuel cells.

All this effort depends on people, Bodman said, and pointed to the ACI call for \$380 million to improve mathematics, science, and technical education in U.S. elementary and high schools. He cited the work being done by BNL's Office of Educational Programs as an example of the type of program needed to "assure that future generations of scientists and engineers will step forward to carry on the work that all of you are doing so ably here today."

In conclusion, the Secretary reiterated the "tremendous respect" he had for BNL's achievements and what he expected the Lab to achieve in the future. He ended his formal comments by urging Lab employees to e-mail him with their concerns at any time.

Questions and Answers

The Secretary took several questions and comments from the crowd, including:

- RHIC/AGS Users' Executive Committee Chair Brant Johnson, who led off by thanking Bodman for his support of BNL and new Brookhaven Director Sam Aronson, which garnered a round of applause.
- Bill Gunther, Life Sciences Directorate, who followed up by asking about DOE support of medical imaging science. Bodman

said that he knows Brookhaven is "world renowned" in terms of the medical imaging work that is done here, and believes that the funding case is strong. "We're all for that, and I think that you will be pleased, will be well treated, if we're successful in getting this budget approved."

- Safety & Health Services Division Manager Pat Williams, who asked about a planned reorganization in DOE's ESH&Q division. "We're hoping to reach a conclusion on this over the next month or so and be able to move forward," said Bodman, who explained that one of the plans was to combine safety and security under one organization. "Any change we make will be done with an eye towards bringing an increased focus on safety — that's what we're about."

- Biochemist John Shanklin, who said he believed BNL could play a role in supporting DOE's Advanced Energy Initiative, particularly in terms of applications to convert biomass to ethanol for fuel. Bodman said he certainly hopes that BNL can play such a role, and that it's "one of the reasons I come, to get some sense of that." He added that when he became secretary in 2005, DOE was one of "the most stovepiped" organizations that he had encountered, and that a focus of his work since that time has been

to get rid of that stovepiping and enable innovative science that cuts across research areas. "There are a lot of good things that you do here, that we know well of...I'd be very surprised if we didn't change some of these programs and initiatives in dramatic ways as a result of this change in the organization."

- George Green, Energy Sciences & Technology Department, who asked about GNEP and funding for the Advanced Fuel Cycle Initiative. Bodman explained that DOE's request for \$250 million in funding for GNEP in FY07 was reduced by the House by \$100 million, but that, "It's not where you start, it matters where you end up... suffice it to say that it's been one of the two disappointments I've had." He added that challenges remain in terms of expanding the use of nuclear power, which he sees as a necessity, and in obtaining approval for Yucca Mountain. "We also need this, we need GNEP to be successful," he said. "You can be certain that this has my personal attention."

Bodman said he expects to serve as Secretary for the remainder of President Bush's second term. His overall goal? "To leave this place in much better shape than I found it, and I think we're starting to get there."

— Liz Seubert
with Peter Genzer



Celebrate Gerhart Friedlander's 90th, 7/28

An afternoon of talks, reminiscences by a variety of speakers

BNL colleagues, friends, and family will gather in the Hamilton Seminar Room of the Chemistry Department, Bldg. 555, at noon on Friday, July 28, to celebrate Gerhart Friedlander's 90th birthday. Friedlander, distinguished nuclear chemist and Chairman of Chemistry, 1968-1977, will be honored by a half-day session of reminiscences presented by a variety of speakers.

Joining BNL in January 1948, Friedlander found his principal research interests in nuclear spectroscopy and high-energy nuclear reactions. After his retirement in 1981 he remained active in research, turning his attention to solar neutrinos and spearheading the gallium experiment that eventually became the GALLEX project. From 1992 to 2000 he was Editor-in-Chief of the magazine Science Spectra.

A buffet lunch is also planned as part of the celebration. To register, or for more information, contact Ralph Weston, weston@bnl.gov or Ext. 4373.

Facility Users From Across the Nation Find Value of NUFO

a great opportunity to interact with other user representatives, to share our concerns and explore common solutions. It was in 2003 that the group expanded to include elected officials of the user organizations and User Executive Committee Chairs. Together, we can speak with a stronger voice than an individual approach can provide. Recently, a number of Chairs of the NUFO organizations signed a joint letter to Energy Secretary Bodman thanking him for his efforts towards the FY07 budget."

Another BNL representative at the meeting was Mike Zarcone, Manager of Environment, Safety, Health, and Training Programs in BNL's Physics Department. Said Zarcone, "I was very impressed by the number of organizations represented and the range of backgrounds of the individuals — scientists, administrators, others — whose common goal is to implement safety

and training programs that compliment the scientific programs and enhance our ability to continue to get the funding for our institutions. Additionally, I was gratified to learn of the maturity of the BNL training programs in that we have many of our training courses available as web-based courses and are unique in ability for our users to access those courses from offsite — an advantage that is sure to be widespread soon."

Another attendee, Peter Stephens of Stony Brook University, 2005-06 Chair of the National Synchrotron Light Source Users' Executive Committee, noted that at the meeting, attendees "received substantial advice, from Congressional staff members and others, on how to work with our elected representatives.

"The strongest lesson that I took from that meeting," he continued, "is the importance of building a continuing rela-

Gertrude Scharff-Goldhaber Prize Ceremony, 6/14

All are invited to the 2006 Gertrude Scharff-Goldhaber Prize ceremony on Wednesday, June 14, at 3 p.m., in the Large Seminar Room of the Physics Department, Bldg. 510. BNL Distinguished Scientist Maurice Goldhaber will present the award consisting of a framed certificate and \$1,000 to Enju Lima, a graduate student at Stony Brook University. Lima will give a short seminar on her research titled "X-ray Diffraction Microscopy of Biological Samples." Refreshments will follow the presentation.

Established in 1992 and administered by Brookhaven Women in Science (BWIS), the annual Gertrude Scharff-Goldhaber Prize recognizes substantial promise and accomplishment by a female graduate student in physics. The prize honors the outstanding contributions of the late nuclear physicist Gertrude Scharff-Goldhaber, who, in 1950, became the first female Ph.D. physicist appointed to the BNL staff, and, later, a founding member of BWIS.

For more information, contact Vinita Ghosh, Ext. 6226.

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tionship with the government in order to win support for science and technology, not just showing up to ask for money or argue for a program that is about to be cancelled."

Promoting Communication

Susan White DePace, Manager of the RHIC & AGS Users' Center (R&AUC) at BNL, with Sacha Kopp, University of Texas; Dianne Snyder FNAL; Susan Strasser, Argonne National Laboratory; and Allen Ekkebus, Oak Ridge National Laboratory, organized the meeting. Other BNL attendees included Center for Functional Nanomaterials User Administrator Grace Webster, NSLS User Administrator Kathleen Nasta, Kelly Guiffreda of the R&AUC, and Penka Novako from BNL's U.S. ATLAS Office.

As White DePace recalled, "The initial meeting of what became the NUFO was a casual get-together attended by Artie

Bienenstock and Katherine Cantwell from SSRL, Dave Moncton and Gopal Shenoy from the Advanced Photon Source, and Mike Knotek and myself from Brookhaven. Now, what a change."

For example, over the past few years, NUFO meetings have attracted representatives from the Department of Homeland Security, the State Department, other national laboratories, members of the House Committee on Science, staffers from Congressional offices, and writers from the American Physical Society.

"NUFO provides a center for ideas and information to flow in many directions," said White DePace. "It promotes better communication within different fields of science and both ways between users and the outside community."

— Liz Seubert
For more information on NUFO and links to the meeting, see www.bnl.gov/nufo/.

Videoconference a Hit at Take Our Daughters, Sons to Work Day

Susan Foster, Human Resources (HR) Manager of Employee Services and the coordinator for the Lab's "Take Our Daughters and Sons To Work" program, says that every year the organizers, who often include BNL parents, try to come up with new activities to entertain the children and provide them with insights into the many careers at Brookhaven that allow excellent science to take place. Says Foster, "This program is as well received by the parents as it is by the children. It gives children the opportunity to shadow their parents and learn what they do at work for a portion of the day, and it gives the Lab a chance to promote science to our younger generation of possible future researchers."

This year, April Gray, Fiscal Division, suggested that children of Lab employees research a scientific topic, and then conduct a videoconference with children from another laboratory within the DOE complex. Foster thought it was a great idea and asked Liz Gilbert (HR) to coordinate the event.

"There was such a large response that we had to select the children who wanted to participate by lottery," says Gilbert. "Global warming was agreed on as the topic, but I needed help to get the program off the ground."

Gilbert contacted the Lab's meteorologist, Victor Cassella



At this year's "Take Our Daughters & Sons to Work Day," children of Lab employees researched a scientific topic and then conducted a videoconference with children from other laboratories within the DOE complex. Lab's meteorologist, Victor Cassella (standing) of the Environmental Sciences Department, set up an online classroom on global warming.

of the Environmental Sciences Department, who agreed to set up an online classroom on global warming. Then, Gilbert contacted the Human Resources Department at Argonne National Laboratory (ANL) and coordinated a videoconference connecting the children of ANL and BNL employees.

With assistance from Alfredo Temprosa of the Lab's Information Technology Division, Cassella put together an online classroom on global warming for the 13- to 15-year-old students. Michael Wyllie and Jeffrey Tongue of the on-site National Weather Service also

helped Cassella by providing analysis on global warming and hurricane activity that Cassella included in the online classroom module. Students had four assignments to complete before the day of the videoconference, including calculating temperatures of different cities around the world. Says Cassella, "I was impressed by how much the kids already knew about global warming and how interested they were in learning more about meteorology. All the kids selected for the teams completed the online training course and enthusiastically participated in the videoconfer-

ence. It was very successful and I hope we can do this again in the future."

Says Foster, "We are always looking for new ways to make our programs successful while promoting the Lab and science. I thank April Gray for the idea, Liz Gilbert for coordinating the event, and Victor Cassella for taking the time to develop the online teaching module and facilitate the videoconference. This is just one example on how employees can work together to provide a positive experience for the children who visit the Laboratory."

— Jane Koropsak

Weight Watchers

BNLers can register for the next Weight Watchers session on Wednesday, June 14, and Wednesday, June 21, from noon to 1 p.m. in the Brookhaven Center. The cost will be \$99 for 10 weeks, payable to WeightWatchers.

For more information, contact Michael Thorn, Ext. 8612.

Hydrogen Fuel Initiative — Fueling the Future With BNL Research

with the goal of making more efficient and less expensive electrocatalysts for oxygen reduction at the cathode, a reaction that combines with hydrogen oxidation at the anode to produce electricity and water. Recently, Adzic and his BNL associates, Min-Hua Shao and Kotaro Sasaki, replaced a platinum electrocatalyst with palladium-iron nanoparticles in an electrode to determine their efficiency in oxygen reduction. The research was reported in the February 20, 2006 issue of the *Journal of the American Chemical Society*.

At the National Synchrotron Light Source (NSLS), Adzic and his team identified the electronic properties of the new electrocatalyst on an atomic scale and optimized its composition for the highest activity. The researchers found that the palladium-iron electrocatalyst has activity equal to that of platinum, which is the best electrocatalyst for the oxygen reduction reaction. This finding bodes well for its potential use in hydrogen fuel cells.

"With the lower price of palladium compared to platinum, and the possibility of using two lower priced metals instead of one as an electrocatalyst, the cost of fuel cells could be lowered considerably," Adzic said.

Next, the BNL scientists will collaborate with researchers from Los Alamos National Laboratory to test the new electrocatalyst in a real fuel-cell environment to determine its long-term performance and stability.

Splitting Water

Etsuko Fujita, Chemistry Department, is investigating how to split water photochemically into hydrogen and oxygen — basic research that may lead to an efficient and economical way to produce hydrogen for fuel cells.

"While Radoslav Adzic reduces oxygen and oxidizes hydrogen to produce water and electricity, the goal of our research is to split water to produce oxygen and hydrogen," Fujita said. Both reactions are important for hydrogen fuel cells, which produce electrical power by oxidizing hydrogen at the anode and reducing oxygen gas at the cathode.

Fujita and her collaborators — the Chemistry Department's Sergei Lyman, Jim Muckerman and José Rodriguez, and the Center for Functional Nanomaterials' (CFN) Peter Sutter prepared nitrogen- or carbon-doped titanium dioxide, elucidating its resulting properties, and investigating its interaction with water at the atomic level using theoretical calcula-

tions, and various techniques available at the NSLS and the CFN. The researchers found that adding nitrogen to the semiconductor allows it to absorb visible light from the sun as energy and to produce more oxygen vacancies — missing oxygen atoms in the crystalline structure of the material — which may be active sites for catalyzing water-splitting.

In addition, the researchers are adding a catalyst — a ruthenium-based compound or metal hydroxide/oxide materials — to the titanium dioxide, and then taking measurements of the amount of oxygen produced and the speed at which it was made. "We would like to see how the catalyst produces oxygen, and we are investigating the stability of the catalysts. When oxygen is produced more quickly, hydrogen will be produced more efficiently," Fujita said.

Funded by DOE's Office of Basic Energy Sciences (BES) within the Office of Science, this research may eventually lead to finding catalysts that are very efficient at hydrogen production, which would bring hydrogen fuel cells for vehicles one step closer to the marketplace.

Hydrogen Storage

Storing hydrogen efficiently

Arrivals & Departures

— Arrivals —	
Rama Calaga	Magnet
William Jackson	C-A
Panakkal Job	NSLS
Jeonghoon Lee	Env. Sci.
Michelle Pizzulli	S&H Svcs.
Corinne Reisz	Medical
Brianne Roach	Medical
Kendra Snyder	CEGPA
Timothy Welty	Rad. Ctrl.
— Departures —	
Margaret Bogosian	
.....	Director's Office/IPIP

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and inexpensively is a challenge that must be met before hydrogen fuel-cell powered cars become a reality. While hydrogen has high energy potential compared to its weight, it is relatively high in volume. Hydrogen storage in fuel-cell powered vehicles must take up no more space than a traditional gas tank, must be the same weight or lighter, and must last for 300 miles before refueling.

Three methods for storing hydrogen have been developed. It may be compressed and stored in a pressure tank; it may be cooled to a liquid and kept cold in an insulated tank; or it may be stored in a solid compound, such as a metal hydride.

Funded by BES, Peter Sutter, CFN, and researchers from the Chemistry and Energy Sciences & Technology Departments, as well as Rutgers University, are studying titanium-doped sodium alanate, a complex metal hydride, on the atomic level to understand how titanium atoms facilitate the hydrogen uptake in sodium alanate. According to Sutter, insight into this process may help the researchers to find a viable material for large-scale hydrogen storage. For more information about this research see the April 21, 2006 edition of the Bulletin. — Diane Greenberg

CALENDAR

— THIS WEEKEND —

Friday, 6/9

Verizon Wireless Demo

11 a.m.-2 p.m., Berkner Hall. Representatives will present various wireless products and services and will offer BNLers a 15 percent discount on monthly access. Giuseppe Di-Bartolo, 752-1700.

— WEEK OF 6/12 —

Tuesday, 6/13

Sam's Club Visit

11 a.m.-2 p.m. Berkner Hall lobby. Sam's Club representatives will offer two membership cards at \$43.45 for new members. A shopping event will also be held for BNLers at Sam's during November.

Wednesday, 6/14

BSA Noon Recital

Noon. Berkner Hall. Soprano Mihaela Buhaiuc, clarinetist Bogdan Scurtu, and pianist Mei Zhu will perform in a concert sponsored by BSA. All are welcome. Visitors to the Lab of 16 and over must carry a photo ID.

*Goldhaber Prize Ceremony

3 p.m., Large Seminar Room, Bldg. 510. All are invited to the 2006 Gertrude Scharff-Goldhaber Prize ceremony. See notice at left.

— WEEK OF 6/19 —

Tuesday, 6/20

*Retirement Living Lecture

Noon, Berkner Hall, Annika Shapiro of Peconic Landing and Russell Lusak of Jefferson Ferry will give a presentation entitled "Options in Retirement Living" that discusses senior housing. See notice, page 4.

Tues. & Wed., 6/20 & 21

*Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. To make an appointment, contact Susan Foster, Ext. 2888; Liz Gilbert, Ext. 2315; or e-mail donateblood@bnl.gov. In your message, include your name, phone extension, and preferred time to donate. See notice, page 4.

Wednesday, 6/21

416th Brookhaven Lecture

4 p.m. Berkner Hall. Dax Fu of the Biology Department will talk on "Molecular Design of a Metal Transporter." All are welcome to this free lecture. Visitors to the Lab of 16 and over must carry a photo ID. See story in next week's Bulletin.

— WEEK OF 6/25 —

Tuesday, 6/27

*Internet Safety Presentation

Noon-1 p.m., Berkner Hall. See notice, page 4.

Thursday, 6/29

BJ's Wholesale Club Demo

11 a.m.-2 p.m., Berkner Hall. Representatives from BJ's will present BNLers with a special 15-month membership for \$30 for two membership cards (normally \$45). Give aways and prizes too. Pete, 851-0214.

— WEEK OF 7/24 —

Friday, 7/28

*Celebrate Friedlander's 90th B-Day

Noon, Hamilton Seminar Rm., Bldg. 555. An afternoon of talks, reminiscences by a variety of speakers BNL colleagues, friends, and family. Friedlander, distinguished nuclear chemist and Chairman of Chemistry, 1968-1977, will be honored by a half-day session of reminiscences presented by a variety of speakers. See notice at left.

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.

Fall SCCC Course

The following course will be offered on-site for the fall 2006 semester and will satisfy requirements for most Suffolk County Community College degrees. A minimum of 12 students are required to run the course so register today.

PC11 – Introduction to Psychology

Principles of human behavior as determined by scientific method. Includes compressed treatment of basic principles of learning, motivation, sensation and perception, and selected topics in physiological psychology, childhood, adolescence and adulthood, human motivation, emotion, behavior disorders and adjustment. No prerequisite, 3 credit hours.

Employees who take college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at 75 percent for undergraduate courses. To register or for more information, contact Starr Munson, munson@bnl.gov or Ext. 7631.

Roll Up Your Sleeve: Blood Drive, 6/20 & 21

To replenish Long Island's blood supply, BNL is holding a blood drive on Tuesday and Wednesday, June 20 and 21, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. Donors must be from 17 to 75 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 learn more about blood donation, check out www.bnl.gov/HR/BloodDrive.

To make an appointment, contact Susan Foster, Ext. 2888; Liz Gilbert, Ext. 2315; or e-mail donateblood@bnl.gov. In your message, include your name, phone extension, and preferred time to donate.

Blood Drive Raffle

BERA will sponsor a free raffle at the blood drive for all donors. First prize is two tickets to your choice of any BERA trip or event; second prize is a BNL spring jacket; third prize is a BNL sweatshirt; fourth prize is two movie tickets; and fifth prize is a BNL key chain. The drawing will be held on Wednesday, June 21, at 4 p.m.

One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Tuesday, June 20; Wednesday, June 21; and Monday, June 26, to answer employees' questions about financial matters. The consultant will help BNLers to better understand the importance of protecting assets against inflation; find the right allocation mix; learn about TIAA-CREF retirement income flexibility; and compare lifetime income vs. cash withdrawal options. For an appointment, call Arlene Lyons, (866) 842-2053, Ext. 4629. *Note: Not the on-site Ext. 4629.*

Internet Safety Presentation, 6/27 'Protecting Your Children'

Join Suffolk County Police Department Sergeant John Cowie, a member of the Computer Crime Section, on Tuesday, June 27, from noon to 1 p.m. in Berkner Hall, where he will present "Internet Safety: Protecting Your Children." All are welcome to attend this free talk, but preregistration is necessary. Check your mailbox for registration forms. Return completed forms to Michael Thorn, Bldg. 490. For more information, contact Thorn at Ext. 8612.

Money Management Classes, 6/19, 9/18

Representatives from Teachers Federal Credit Union will present BNLers with information on how to use and manage checking accounts and general money management techniques on Monday, June 19, and Monday, September 18, at noon in the Rec Hall.

☎ For more information about TFCU's on-site services, go to www.bnl.gov/visitorinfo/onsite_services.asp.

Fidelity Investment Counseling, 6/28

A Fidelity Investment representative will be at the Lab on Wednesday, June 28, 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.

Hospitality Bus Trip to NYC, 7/15

All BNLers and their families are invited to join the BNL Hospitality Committee for a "Day in the City" coach bus trip, that will leave from the Recreation Bldg. in the apartment area at 9 a.m. on Saturday, July 15, and will drop off at Bryant Park and will leave the City at 6 p.m. Tickets cost \$10 for adults and \$5 for children ages 2-12. Reservations and payments must be made in advance. Money will be collected at Berkner Hall on Tuesday, July 11, from 11 a.m. to noon. For more information or to register, contact Hanna Herman, 849-2249 or haniaherman@yahoo.com, or Jing Rochman, 891-9430 or deshanghai@yahoo.fr.

Attention Parents of 3- and 4-Year Olds: On-Site Nursery School Enrollment Underway

Enroll your child now in the Upton Nursery School, a not for profit, cooperative pre-school that meets at the Recreation Building in the apartment area and provides a warm, caring, and stimulating environment for 3- and 4-year-old children. Spots are available in the two-mornings-a-week (Tuesdays and Thursdays) schedule. Classes are forming now for the fall 2006-2007 school year.

To register your child or for more information, contact Katalin Petreczky, 821-4131, julika@optonline.net, or visit the school's website at www.bnl.gov/nurseryschool.

Plaque Dedications

Mary Jane Sheridan

BNL's Quality of Life Committee and English for Speakers of Other Languages (ESOL) Program will honor Mary Jane Sheridan, former member of ESOL, with a tree and plaque dedication ceremony at the Recreation Hall, Bldg. 317, on Friday, June 9, at 1:30 p.m. All are welcome to attend.

Guy Mastrion

A plaque will be dedicated at the BNL Gym on Wednesday, June 14, at 4:30 p.m. to pay tribute to Guy Mastrion, a 32-year part-time employee of BNL's Recreation Program who passed away in September, 2005. All are welcome to attend. For more information, contact Christine Carter, Ext. 5090.

Classified Advertisements

Placement Notices

LABORATORY RECRUITMENT – Opportunities for Laboratory employees

TB3687. ASSISTANT STAFF SPECIALIST (A-4) – Requires 10 years of related experience that includes extensive use of the BNL ATS and Compliance Suite software, procedure writing, interpretation of assessment findings and recommendations. Extensive knowledge of MS Word, Access, Outlook and PowerPoint necessary. Must also have proven record of being a very strong team player, excellent communication skills, getting cooperation from staff to complete assigned action items, excellent time management, working independently, the ability to make informed decisions and regularly exercising a high degree of discretion and judgment. Requirements also include extensive knowledge of Laboratory practices, policies, and procedures and have a wide variety of contacts with the BNL safety organizations in order to keep ESHQ Division aware of the requirements of assigned duties. Will be responsible for interpreting and validating safety committee, assessment, audit findings and recommendations. Maintains C-AD Action Tracking System (ATS) and evaluates and verifies closure of ATS items. Maintain valuable materials inventory including field walk downs to verify correctness of data. Will serve as record-keeper and document security procedures for the C-AD Security Committee. Assists Training Manager by maintaining BTMS and other training databases; QA Manager by maintaining the OSH 18001 records and entering OSHA information into Compliance Suite database; Work Controls Manager with industrial hygiene data entry into Compliance Suite database; and the ECR with EMS 14001 records. Assists ESHQ Division Head and Department Chair's Office with other projects. Assists with domestic and foreign travel arrangements, arranging conferences and maintaining C-AD Operating Procedures. Collider Accelerator Department.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates

MK3680. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in biochemistry or physics and experience in structural biology or electron microscopy. Research involves structural analysis of a membrane protein complex by single particle electron microscopy. Will perform electron tomography of prokaryotic cells specifically labeled with nano-gold particles. Major instruments include JEOL-1200EX and JEOL 2010F cryo-electron microscope. Under the direction of H. Li, Biology Department.

MK3246. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in a suitable discipline, in-depth knowledge of x-ray optics, in particular perfect-crystal (i.e. dynamical) x-ray diffraction, both theoretical and experimental, and an interest in using such beams for experimental inelastic x-ray scattering or high-energy photoemission. Strong x-ray experimental skills, synchrotron radiation background and strong computing skills are highly desirable. Recently some new concepts for the implementation of high-resolution x-ray monochromators have been proposed which promise the possibility of sub-mille-eV resolution at photon energies of a few keV. Previous methods based on conventional Bragg diffraction have only been able to achieve this performance at higher photon energies, 25keV and higher, because of the intrinsic properties of Bragg diffraction in the dynamical limit. This opens up the possibility of new instruments previously impossible. This project is intended to provide staff for a detailed study of the limit of applicability of these new ideas and to implement some of

BREA Noon Lecture: Retirement Living, 6/20

On Tuesday, June 20, at noon in Berkner Hall, Annika Shapiro of Peconic Landing and Russell Lusak of Jefferson Ferry will give a presentation entitled "Options in Retirement Living" that discusses senior housing. The presentation will deal with various retirement options and go into details about the "Life Care" concept. All are welcome at this free talk sponsored by the Brookhaven Retired Employees Association.

Two Diabetes Care Presentations

'Foot Care and Diabetes,' 6/14

Brian Danno, Comprehensive Podiatry Associates, P.C., will discuss foot care for diabetics including choosing proper footwear, neuropathy, and wound care, on Wednesday, June 14, from noon to 1 p.m. in Berkner Hall, Room B.

'Oral Health and Diabetes,' 7/12

Mitchell Shapiro, DDS, will discuss how to maintain good oral health and options for treatment of oral health problems on Wednesday, July 12, from noon to 1 p.m. in Berkner Hall, Room B.

Preregistration is required to attend these talks. Check your mailbox for registration forms. For more information, contact Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

them in the context of solving a previously intractable problem. In the longer term, such optical systems will be crucial to the realization of the potential gains provided by third and fourth generation light sources. Under the direction of D. P. Siddons, National Synchrotron Light Source Department

MK2679. POSTDOCTORAL RESEARCH ASSOCIATE (reposting) – Requires a Ph.D. in physics or engineering, experience in superconducting RF cavities design, surface preparations, measurements and operations, and familiarity with electric / magnetic / thermal breakdown, multipactoring, and conditioning processes. Knowledge in the RF/microwave design, including programs such as Microwave Studio or equivalent, experience in niobium cavity chemistry is highly desirable as is a general accelerator physics background. Experience in multipactoring codes, tuners and couplers if also desirable. Research will involve the development of a high-current, high-brightness SRF Energy Recovery Linac that is under construction at the Collider-Accelerator Department related to electron cooling of RHIC, the eRHIC electron-ion collider and high-power FELs. Under the direction of I. Ben-Zvi, Collider-Accelerator Department.

MK3755. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in a relevant discipline, the ability to conduct basic research in experiment or theory to explore fundamental questions in chemical dynamics underlying photochemical energy conversion and/or chemistry initiated by short electron and light pulses, and chemistry laboratory abilities. Will conduct basic research in experiment or theory to explore fundamental questions in chemical dynamics underlying photochemical energy conversion and/or chemistry initiated by short electron pulses. Under the direction of J. Miller, Chemistry Department

NS2695. SR. COUNTERINTELLIGENCE OFFICER (M-2) – Requires a bachelor's degree in a related field; masters degree desirable, and at least fifteen years' experience in intelligence, counterintelligence, or criminal investigations at the Federal, state, or local government level that includes at least five years of management experience. Considerable skill in interview techniques and oral and written communications are also required. Experience in developing and conducting training and briefing programs as well as proficiency with word processing, presentation, and e-mail applications are necessary. Responsibilities include developing, implementing, managing, enhancing, and maintaining all required elements of the Counterintelligence Program for those sites/offices that fall under the purview of the Northeast Regional CI Office. Will conduct briefings/debriefings of travelers to foreign countries, hosts of foreign national visitors and assignees, and employees with significant foreign national interactions, as well as conducts CI Awareness training for all categories of employees. Will coordinate with and assist the FBI and U. S. Intelligence Community members in queries and investigations at DOE facilities or concerning DOE or Laboratory employees. Must successfully complete a rigid background check to include a limited-scope polygraph examination concerning National Security issues. U.S. citizenship and the ability to obtain and maintain DOE "Q" and "SCI" Access Authorizations is required.

JH3943. MANAGER, NSLS-II ENVIRONMENT, SAFETY & HEALTH (M-2) - Requires an advanced degree in science or a related discipline and 15+ years of relevant technical and extensive managerial experience. Comprehensive knowledge, skills and experience within the discipline of ES&H is also required, as well as knowledge of DOE safety standards. Excellent communication (oral and written) and interpersonal skills is required. Substantial experience in an ac-

celerator background and certification in a safety specialty is desirable. Prior project management experience or formal project management training is also preferred. Will be responsible to develop and implement an ES&H program to ensure that NSLS-II is designed, constructed, and operated in accordance with applicable BNL and DOE requirements to protect the worker and the environment. Will oversee the development and implementation of an Integrated Safety Management Program which incorporates ISO 14001 and OHSAS 18001 criteria. Will be responsible for the identification and preparation of required ES&H documentation and will plan and schedule required ES&H reviews throughout the design, installation, commissioning and eventual operation of NSLS-II. Will provide guidance to project staff to integrate ES&H factors into all design and work activities. Candidate will report directly to the NSLS-II Project Director. Will supervise other ES&H staff.

NS8867. RESEARCH ENGINEER II (P-7, reposting) – Requires a minimum of a BSEE and five years' related experience. Experience working with high voltage power supplies is a must and high power RF experience is preferred. Knowledge of vacuum tubes is a plus. Must have good communication skills and be self-motivated. The ideal candidate will be able to quickly take responsibility as a system engineer for all high level RF systems for a complex of particle accelerators. Will be responsible for the operation, maintenance and upgrade of existing systems as well as participating in the design of new systems. Collider-Accelerator Department.

TB2545. AUTO-TRUCK MECHANIC (term appointment) - Under minimum supervision, performs required repairs, maintenance, servicing and incidental operation of gasoline, diesel engine, or propane/compressed natural gas (CNG) driven vehicles such as automobiles, trucks, trailers and material handling equipment. Performs limited welding, brazing and painting and other body and fender repair work in order to maintain vehicles in operating order. Uses and maintains all hand and portable tools, shop machines and equipment necessary to perform assigned work. Staff Services Division.

Due to lack of space in this issue of The Bulletin, the classified ads were omitted from this week's printed edition. However, the ads appear on a special fifth page of the Bulletin pdf file, which is available on the web at www.bnl.gov/bnlweb/pubaf/bulletin/2006/bb060906.pdf.

Badminton Tournament

The finals in both Group 1 and Group 2 of the BERA Badminton Spring Tournament will be played back-to-back on Tuesday, June 13, from 11 a.m. to 2 p.m. in the gym. See www.badminton.bnl.gov for the exact times. Spectators welcome.



Classified Advertisements

Motor Vehicles & Supplies

05 FORD ESCAPE HYBRID - 4WD SUV w/excel mileage, low emmissions. Leath-er seats, 6CD, fr./side airbags, AC outlet. Must sell. 22K mi. \$22,250/neg. Paul, Ext. 7644 or 929-4295.

04 BUICK CENTURY - Under 1000 miles - hardly driven - loaded. Kay 369-5870, Ext. 2800.

03 CRUISER 5TH WHEEL - single slide out, 2 bdrms., one w/bunks, loaded, must sell. \$20,000/neg. 874-0404.

03 TOYOTA TACOMA SR5 EXTCAB 4X4 - V6, 5spd, silver, abs, a/c, all power, c/c, cd, alloys, new tires, hwy miles, ext warr, more, clean! 44K mi. \$17,490/neg. Ext. 5195.

03 SUZUKI SAVAGE - 650cc excellent shape never used, black, great starter bike. 85 mi. \$3,200/neg. nick, (631) 521-4693.

02 NISSAN SENTRA - a/t, all pwr., 4 dr., blue, low mi., spoiler, tinted windows, excel. cond., orig. owner. \$6,995/neg. Marie, 744-8215 or 591-4269.

02 VOLKSWAGEN GOLF - mint, 1st owner, 5spd, 2dr, a/c, abs, front&side airbags, alarm, remote entry, roofrack, red. 40K mi. \$10,200/neg. Ext. 2414.

02 CHRYSLER PT CRUSSIER - All power, heated leather seats, moon roof, 16" alloy wheels, silver with ghost flames 24 mpg . 68K mi. \$7,600/neg. Robert, Ext. 7859 or 312-6451.

01 LINCOLN LS - 4dr., loaded, 5cd, heated leather seats, dual temp controls, s/ roof, alarm, excel. cond. 50K mi. \$14,000/ neg. Denise, 631-871-0561.

01 VW JETTA WOLFSBURG ED 1.8T - new 5 spd & lsd, APR chip, sst exhaust, 2 sets of alloy wheels, all options, mint cond., must sell. 80K mi. \$11,500/neg. Mark, 849 2520.

01 NISSAN SENTRA - a/t, all pwr., 4 dr., blue, orig. owner, excel. cond., tinted windows, spoiler, low mi. \$6,995. Marie, 591-4269 or 744-8215.

00 MERCURY SABLE LS PREMIUM - 6 cyl. DOHC Vortec. Excel. cond. in/out, blue/gray, loaded, all power. Test drive by appointment. 144K mi. \$5,555/neg. Frank, Ext. 4748 or 277-0464.

00 FORD EXPLORER XLS - a/t, p/s, cc, p/w, cd, 2wd, new tires, running brds., privacy glass, red, V6, . 55K mi. \$7,500. Scott, 567-4661 or 591-4011.

99 MITSUBUSHI ECLIPSE OZ - 10th Anniversary. Black, 4 cyl., a/t, full loaded, leather interior, after market sound system. Clea 60K mi. \$7,000/neg. Heather, Ext. 5299 or 775-6126.

94 FORD EXPLORER - Reliable, NTLC, leather, 21 mpg hwy., CD, 4x4. Remote start. 142K mi. \$2,000/neg. George, 878-1178.

93 HONDA ACCORD EX - green, well maint. by Honda dealer, v.gd. cond., manual shift. 93K mi. \$4,400. 286-4774.

92 CHEVY PRISM - a/t, a/c, 4 dr., 4cyl., gd. cond., v. gd. on gas. 111K mi. \$1,400. Phil, 878-2239.

92 CHEVY PRISM - a/t, a/c, 4 cyl., 4 dr., gd. cond., v. gd. on gass. 111K mi. \$1,400. Phil, 878-2239.

92 HONDA ACCORD - LX, 4dr, a/t, recent brakes, exhaust & timing belt. 209K mi. \$1,200. Jesse, Ext. 7263.

91 VOLVO 240 - a/c, cd, mint cond., excel. interior, reg. serviced, no rust, orig. mi. 110K mi. \$2,900. Ted, 776-0205.

91 VOLVO 240 - a/c, cd, excel. interior, reg. serviced, no rust. 110K mi. \$2,900. 776-0205.

89 FORD BRONCO - Ex.cond, 5.8/351 V8, 4wd, PS/PW/PB, C-III hitch, a/c, c/c, cap, cooler rack, light bar, A/T tires. 116K mi. \$2,500/neg. Richard, (631) 472-9491.

87 LINCOLN TOWN CAR - 4dr, 6cyl, a/c, am/fm, gd batt, new w/shld, gd body, runs good. 200 mi. \$900/neg. Mauro, Ext. 7405 or 344-1079.

PICKUP CAP - White fiberglass 8' cap from a 1995 Ford pickup. \$300/obo. Roy, Ext. 4843 or 727-6714.

TRACTOR - John Deere, 1941 Model A, restored to like new cond., converted to 12 volts, new batt., \$4,500. Bill, 886-1182.

Boats & Marine Supplies

23' COBIA CUDDY - 190/4cly i/o newcann- vis/riser rebuilt/outdrive sleeps/4 trimtab. \$4,000/neg. Richard, Ext. 5319 or 631 835 8309.

24' PROGRESSION LD - 2002 w/250hp Merc W/40 hrs, Loadrite Ttl, full equip, max 76 mph, 3 covers, mint cond. . \$40,000/neg. Rob, 646-207-0878.

27' CHAPARRAL SIGNATURE - 1990-I/O, aft cabin w/ camper back, sleeps 6, a/c, 6-gal. HWH, shower/head, excel. cond. \$12,000/neg. Dennis, 588-1214.

32' BRISTOL 1977 - Diesel, main and 3 jibs, drifter, sleeps 5, cb/keel draft 3'-6(7"-0), autopilot, dodger. \$25,000/neg. Tom, Ext. 5275.

2001 POLARIS WAVE RUNNER - Viroge w/trailer, only 11 hrs. brand new cond., ask \$5,900. 516-769 6649.

DINGHY - Eli 8 ft. fiberglass rowboat \$100. 363-6289.

KAYAK - Jocassee, 2 person with optional 3rd child seat. 2 paddles, 2 life pre-servers, skirt & dolly. \$500. Ext. 2815 or 874-0437.

Furnishings & Appliances

AIR CONDITIONER - Carrier model XCA141D, window or wall unit, 13,800 BTU/hr, 10.1 energy rating, \$75.00. Donna, Ext. 2716 or 878-2425.

AIR CONDITIONER - thru-the-wall/win-dow, 24K Btu., 220V, \$100. Chris, Ext. 2094 or 929-5008.

BABY CRIB & DRESSER - Baby crib w/ mattress and 5 drawer dresser to match - washed oak. \$225 for both. Donna, Ext. 3599 or 874-9556.

CHAIRS - 4 hardwood captain chairs, oak finish, \$50. Richard, Ext. 3741 or 928-8465.

COUCHES - Two Broyhill 92 in. and 68 in., light grey, pink aqua. Contact Kay 369-5870. Ext. 2800.

DEHUMIDIFIER - works great, \$40. Chris, Ext. 2094 or 929-5008.

DINING SET - oval table w/leaf, 6 chairs 3 shelf lighted china, buffet, dark cherry, like new \$700/all, neg. Ext. 7496 or 223-4774.

GAS RANGE - Whirlpool 30" self clean,LP gas, SF385PEG, like new \$250. Ron, 281-6630.

GAS RANGE - Whirlpool 30 " LP gas, self clean,SF385PEG, like new \$250. Ron, Ext. 2189 or 281-6630.

HEADBOARD - wicker, twin size, \$25. Donna, 878-2425.

REFRIGERATOR - white Frigidaire, 18.2 cu.ft., \$200. Chris, Ext. 2094 or 929-5008.

SOFA COVER - Blue denim, fits any large sofa \$30. Susan, Ext. 7235 or 399-7997.

SOFA SET - sofa, love seat, ly. green, cof-fee table, 2 side tables w/glass tops, like new. \$450/all, neg. 345-2525.

TOSTER OVEN - almost new, Black & Deck-er, w/15 min. timer.\$15. Cindy, 874-3652.

Audio, Video & Computers

CAR STEREO - Durabrand CD/MP3/ CDR/CDRW playback w/MP3 display, 45Wx4, slide down/detachable panel w/remote, 30 presets, \$120. Laura, Ext. 7842 or 631-434-5824.

DESKTOP COMPUTER - Intel-II, 233 MHZ speed, 512 Kb cache RAM, 128 Mb memory, floppy drive, CD ROM, monitor 15", \$50. Sam, Ext. 1064.

GOSSEN LUNA-STAR F LIGHT METER - digital light-/flashmeter, incident or re-flected readings; case, manual, in box, 9+, \$100 obo. Ext. 5195.

LINKSYS ROUTER - 4 port, cable/DSL router, new, still in box, vacuum packed, orig \$100 asking \$50. Laura, Ext. 7842 or 631-434-5824.

NIKON 8008S, 8008 BODIES - multiple autofocus, meter, exposure modes, excel cond; 8008s: \$125; 8008: \$90; half off re-tail! . Ext. 5195.

PIONEER CAR STEREO - 50W/channel, CDR/RW/MP3 playback, satellite/ipod compatible, blue OEL display/screensaver, \$200. Laura, Ext. 7842 or 631-434-5824.

PLAYSTATION 1 - w/controller, game, and memory card, \$35. Chris, Ext. 2094 or 929-5008.

TELEVISION - Hitachi 46 in. console tele-vision. Kay, 369-5870.

TV - 27" JVC, excel. cond., s-video input, remote. \$25 obo. Howard, Ext. 3740 or 727-7387.

Sports, Hobbies & Pets

PLAYING CARDS - Vintage lot, airlines, butterfly design, floral design, tree de-sign (used). Other cards unused, but open. \$28/all. 803-0506.

YANKEES TICKETS (2) - Wed, Aug 2nd, 7pm vs. Blue Jays, BX622, Row C, orig. \$50 ea., both for \$90. Ext. 7505.

Tools, House & Garden

COMPRESSOR - Campbell Hausfield, 6HP, 60 gal., 125 max psi. \$250. Other shop equip for sale too. Willy, 516-768-8755.

LAWN TRACTOR - Craftsman 10 HP 30 inch cut with bagger. Chute from deck missing. \$225. John, Ext. 4028.

POND SUPPLIES - 2 40w UVs. 1 new in box. \$120 & \$160. Tetra Clear choice PF-3 filter. \$90. Donald, Ext. 5299 or 775-6126.

RIDING MOWER - Toro Wheel Horse 14-38 HXL w/Briggs & Stratton engine. Ex cond. Also Earthway Spreader. \$2000/ both. Call in PM. 631-298-0148.

SHOPSMITH MARK V - multipurpose wood lathe & table saw, excl. shape, bandsaw, jointer & scrollsaw accesso-ries, extras. Ted, 776-0205.

Miscellaneous

AQUARIUM - 45 gal., incl. all accessories, custom built, solid oak stand w/matching canopy, \$250. Bill, 886-1182.

BABY COMFORTER SET - Includes com- forter, bumpers, mobile, skirt, sheet & dia- per bag. Hey Diddle Diddle theme (blue)- \$50. Donna, Ext. 3599 or 874-9556.

BICYCLE - 27", 10 spd, Ross Eurosports, 1 ladies, 1 man's, v.gd.cond., b/o. Austin, 286-1097.

BRIDAL GOWN - New, size 10, spaghetti straps, cathedral train, \$1350 value, ask- ing \$250. Ext. 3621.

BRIDAL GOWN SLIP - never worn, \$30. Phil, 878-2239.

FENCE - scalloped cedar (5' on ends, 4' middle, 8' long), decorative posts (12"x12"x7"balls on top), approx 45' \$350. Daniel, Ext. 7658.

GOWN - Lord & Taylor, McClintock gown, strapless, green & ivory, size 4, paid \$275, never worn, w/tags \$40. Lloyd, Ext. 5225 or 422-1033.

SHOPSMITH MARK V - multipurpose wood lathe & table saw, excel. shape, bandsaw, jointer & scrollsaw accesso-ries, extras. Ted, 776-0205.

TRACTOR - 1941 John Deere model A, re- stored to like new cond., converted to 12 volts, new batt., \$4,500. Bill, 886-1182.

Yard & Garage Sales

PATCHOGUE - 237 Carman St. cross street Grove Ave., Sat., 6/3, 10 a.m.-1 p.m. many items. 758-2340.

SHIRLEY - 6/10, rain date 6/11, 9 a.m.-3 p.m., all items \$1 & \$2 only, 349 Avondale Drive. 399-2179.

Community Involvement

BARN SALE - for Temple Beth Emeth, 6/11, 10a-3 p.m. 52 Mt. Sinai Av, Mt. Sinai/ Toys,bks, elctronc, clothes, etc. Caroline, 744-8632.

Happenings

SBU CAFÉ - 6/9, 6 p.m., Fairport Con- vention, a history of British folk rock, pre-paid reservations req'd. \$35, \$30/ students. 632-6027.

Wanted

BABY STROLLER - Need a used baby stroller Please contact with me if you by chance have one for sale. Ext. 6141.

BOATERS - Interested in the Coast Guard Auxiliary. Ron, 298-5625.

CRIB AND MATTRESS - Inexpensive, good condition. Ext. 3621.

GAS CANS - 6 gal. for outboard motor, in good cond., need three. Dennis, Ext. 4028 or 375-8519.

TEMPORARY ROOM - 3-5 nights/wk, June- Aug., for doctoral student in Pine Barrens study. Call for details. 917-482-3705.

VENDORS - Handmade crafts or special- ty items for BNL Market Day on Wednes- days from June through September. Joanne, Ext. 8481.

WOOD SWING SET - For my 4-year old daughter. Will take down. . Jason, Ext. 8190.

WOODEN SWING SET - Looking for wooden swing set for my daughter. Will take down. Jason, Ext. 8190.

Lost & Found

FOUND: MEN'S WATCH - found by ballfield gazebo, call w/description. Ext. 2792.

MEN'S WATCH - Found by ballfield gaze- bo. Call with description. Fred, Ext. 3083.

For Rent

COOPERSTOWN - Baseball Hall Of Fame. 4-bdrm. house on spectac 200 acres, 7 mi. from center of town, newly remodeled, all new appl, fully furnished, sleeps 8 comft \$785/wk. Rick, Ext. 3005 or 874-9639.

FARMINGDALE - 4 bdrm., 2 bath, all new kit./bath, s/s appl., near golf course, hot tub/spa, great back yard, newly painted, great SD, lots of room for all. \$2,600/mo./ neg. Paul, 516-633-7275.

FARMINGVILLE - 1 lg. bdrm. in house, share bath w/1, full kit., elec incl., avail. 4/1. \$450/mo. Ben, 513-8275.

HOLBROOK - 2-bdrm condo, bath, d/r, l/ r, full kit., cent a/c, laund rm, patio, shed, cable incl., community pool, tennis, sau- na, clubhouse, no pets/smkg. \$1,450/mo. 472-2053.

MANORVILLE - 1 bdrm., eik, lg. l/r, lost of closets, 1st flr. quiet, priv., all util. incl. \$1,000/mo. Annamarie, 878-8967.

MATTITUCK - 1 bdrm., full bath, kit. & l/r combo, spare/sitting rm., lg. apt. on water w/nice views, new cond. \$850/mo. Ron, 298-5625.

MILLER PLACE - share large furn. non smoking colonial house in prof. resid. area, fenced backyard, deck, cac, inter- net, TV, own 14x12 w/w bdrm, 10 mi. to BNL \$675/mo. 744-8386.

OCALA, FL - 3-bdrm., 2-bath, unfurnished 2-yr-old ranch in beautiful gated Ocala Palms retiree golf community, only 6-mo. lease or longer will be considered. \$1,400/ mo. Maria, Ext. 5483 or 744-0790.

PATCHOGUE - 1-bdrm. apt., l/r, eik, 2nd floor pvt.. ent., w/w carpet, new appli- ances, no smkg./pets, credit check & refs., 1 mo. sec., elect not incl. \$975/mo. Carter, Ext. 7515 or 654-0411.

PATCHOGUE - 2 bdrdm, 1 bath, duplex, on Patchogue river, 5 min to LIRR & Davis Pk Ferry, 15 min. to lab, pvt. ent & pkg, deck, w/d, no smkg/pets. \$1,400/mo. 516-768-7909.

RIDGE - 1 lg. studio, bright & warm, w/full bath, priv. ent. and fenced garden, house apart from owner, park in drway, quiet & safe n'hood. \$700/mo. Zhen, 821-0859.

ROCKY POINT - 1 bdrm. apt., sep. unit, enc. porch, 2 blocks from beach + sec. & util., no pets \$750/mo. Herb, 744-5282.

ROCKY POINT - 1 bdrm bsmt apt. Sep entr, kitch, bath. Shared w/d. Wireless net, cable tv, util incl. 2 blk to beach. 1 mo sec. No pets or smoking. \$600/mo. Bjorg, 769-1559.

SHIRLEY - studio apt for one, furnished, full bth, sep.ent., all incl. cable & internet, no smkng/pets, 5 min to stores & beach, 1 mo.sec, 15 min to lab. \$550/mo. Ext. 8321.

SHOREHAM - Summer Rental (June, July, August) - Ranch, 3 bedrooms, 1 bath, living room, den, kitchen, washer/ dryer, 1 car garage, large yard, utilities extra \$1,800/mo. 258-4607.

(continued on page 3)

SOUTHAMPTON - 3-bdrm. Colonial, 1- 1/2 bath, eik, formal d/r, l/r, extra rm, cac, walking distance to village center, August rental \$15,000/mo. Ellen, 516-810-6555.

SUFSIDE BEACH, SC - 2-bdrm, 2-bath house in gated community, in/out dr. pool, beach less 1 mi. w/pvt. prkg., www. vrbo.com for details, winter/\$500 wk. or summer \$800/wk. 716-763-9637.

WADING RIVER - 2 bdrm., eik, lg. l/r., lg. den, lg. deck, pvt. pkg., no kids/pets/ smkg. util. extra. \$1,500/mo. 928-9328.

YAPHANK - 2 bdrm., l/r, kit., full bath, lg. yd., +util \$1,000/mo. Christopher, 436-6357.

For Sale

BELLPORT VILLAGE SOUTH - beautiffully maint., 1910 Victorian Colonial, 3 bdrm., 2 bath, orig. wood flrs., extensive trim, steps to shopping, marina & ferry to vill. ocean beach \$795,000 776-0205.

CENTEREACH - 3 bdrm ranch,2 bath, eik, l/r, d/r, fam rm w/fp, fin bsmt, cac, heated semi-igp, igs, htd tile flrs, alarm, hot wtr htr, deck poss M/D \$435,000/neg. Denise, 871-0561.

CENTEREACH - 4-yr-old Center Hall Colonial, 5 bdrm., 2-1/2 baths, eik, great room, d/r, finished bsmt., f/p,1st flr laun- dry, 20 min to Lab and 5 min to SBU. \$509,990 PHYLLIS, 981-2471.

EAST QUOGUE - REDUCED Condo, 2/2 upper unit 1 car grge, sr commty, cust closets, 42" cabinets, tiled baths, cac, maint free, low comm chgs/taxes. Excel- lent cond. \$629,900/neg. 631-723-0770.

KINGS PARK - 4 bdrm, 2 bath toatly ren- ovated inside/out, every thing new. Taxes 5800, poss m/d, new diveway/patio, An- derson windows. \$564,990/neg. Richard, Ext. 5319 or 631-8358-309.

MASTIC - 2003 Victorian, 3 bdrm, 1.5 bath, arch. windows,lr, fdr, sld doors to 20x40 deck, full bsmt,lrg property. Near golf, shopping, 15 min to BNL. \$339,000/ neg. Nicole, Ext. 5098 or 525-4416.

MIDDLE ISLAND - 2 bdrm, 2 bath, .5 acre, lg. newly eik, partly fin. bsmt., f/p, sprin- kler system, shed, all new appl. \$329,000 Karen, 924-4968.

PORT JEFFERSON - Hist. Victorian in ctr. village, 4 bdrm, 2 bath, 2-l/r, gas f/p, d/r, renov. eik, pool, wtr. fall view, attic, gas heat, cac. \$724,000/neg. Michael, 804-4662.

PORT JEFFERSON STA. - hi-ranch, mint+, 3 bdrm., 2 bath, updated kit, l/r, windows, office, fully renovated bath, new roof (w/warranty), great location, well-priced. \$419,999/neg. Milind, Ext. 3327 or 331-6725.

SHOREHAM - Dutch Colonial, 4 bdrm, 2 bath, d/r, l/r, large fam rm, wood flrs, new large kitch, new appliances, 1 car gar, igp, fenced yrd, family neighborhood \$510,000/neg. 258-4607.

SOUTHOLD - French Normandy style home, 1 level, estate like grounds in downtown Southold, walk to town and beach, no updates needed. \$999,000 Amy, Ext. 8032.