

BNL Physicist Satoshi Ozaki Honored At Asian Pacific American Celebration

Satoshi Ozaki, a BNL physicist, was honored as a distinguished Asian American professional at a ceremony on May 9 at the annual Asian Pacific American Heritage Month Celebration held at Stony Brook University's Charles B. Wang Center.

"I am honored to receive this recognition," Ozaki said. "I also appreciate the respect I have received from the colleagues with whom I have worked at Brookhaven Lab over many decades and from the members of the Laboratory's Asian Pacific American Association as a friend and a senior advisor."

The Asian American Advisory Board of the Suffolk County Office of Minority Affairs and the Charles B. Wang Center organize the Asian Pacific American Heritage Month Celebration in cooperation with Brookhaven Lab's Asian Pacific American Association, the Taiwanese American Association on Long Island, and the Filipino American Community Organizations of Long Island.

Ozaki was unable to attend the May 9 ceremony, so Lab Director Sam Aronson accepted a proclamation from County Executive Steve Levy on his behalf at a ceremony at the Wang Center Theater.

Ozaki, with BNL's Michael Harrison, led the decade-long development and construction of the Laboratory's world-class accelerator, the Relativistic Heavy Ion Collider (RHIC). About 1,000 physicists from around the



Roger Stoutenburgh D1251008

world run experiments at RHIC, colliding subatomic particles known as heavy ions head-on to study the type of matter that existed a millionth of a second after the Big Bang. In 2005, RHIC physicists discovered a "perfect" liquid, a type of matter that has not existed since the beginning of the universe.

Besides completing the \$660-million collider, Ozaki was instrumental in bringing polarized proton capability to RHIC with funding support from the RIKEN Institute of Japan. In 2002, RHIC became the world's first and only accelerator to collide high-energy beams of polarized protons — protons that spin in the same direction. Physicists at RHIC hope to solve the mystery of what causes proton spin.

Before Ozaki headed the RHIC Project in 1989, he was invited in 1981 to join the National Laboratory for High Energy Physics, a

research institute in Japan also known as KEK, to direct the construction of TRISTAN, the first major high-energy particle collider in the country. Ozaki completed TRISTAN on time and within budget. The facility accelerates and stores beams of electrons and positrons at 30 billion electron volts, the highest energy in the world at the time the accelerator started operations in 1987.

Since 2000, Ozaki has been the Special Assistant to the Laboratory Director on Accelerator Projects, and from 2005 to 2007, he directed the Accelerator Systems Division for BNL's National Synchrotron Light Source-II Project. Currently, he is a senior project advisor for the project, which involves the construction of a \$912-million synchrotron light source that will provide extremely bright x-rays for basic and applied research in many areas of science.

Ozaki serves on numerous advisory and review committees for U.S. and international institutions, laboratories and government agencies. He is a Fellow of the American Physical Society (APS), and he was awarded the APS 2009 Robert R. Wilson Prize for outstanding achievement in the physics of particle accelerators. He was honored as "Man of the Year in Science" by the *Times Beacon Record* Newspapers in 2008, and in 2007, Ozaki, with Harrison, received the IEEE Particle Accelerator Science & Technology Award.

— Diane Greenberg

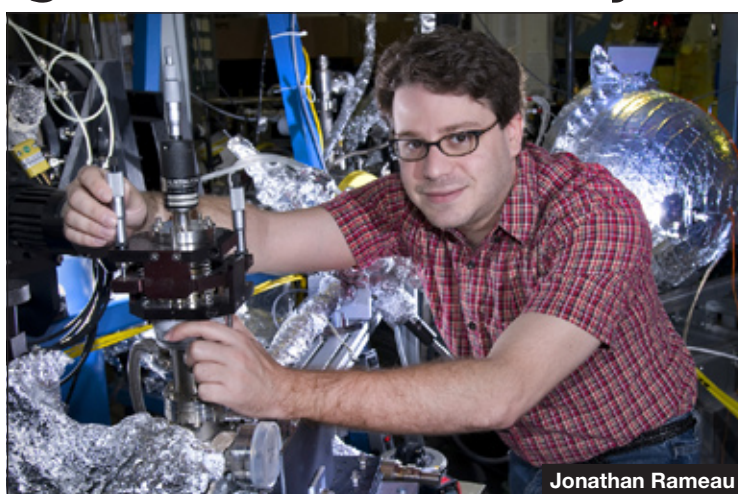
Stony Brook Ph.D. Student Awarded For Outstanding Contributions to Physics

Jonathan Rameau, a doctoral student mentored by Peter Johnson, Chair of the Condensed Matter Physics & Materials Science Department and an adjunct professor at Stony Brook University (SBU), has been awarded the 2009 Dr. Nathaniel and Fanie Soroff Prize for "outstanding contributions in physics" by SBU's Physics Department. He was awarded a cash prize and a book, titled *Stony Brook: The State University of New York*, for research at BNL's National Synchrotron Light Source (NSLS).

"Jon did a spectacular job on a really difficult project starting from almost nothing," Johnson said. "If he had failed, we would have used the excuse that it was because his first degree was in English. However, he did not fail; he was a great success."

"I finished my undergraduate work without yet deciding what I wanted to do," said Rameau. "As part of a group of graduate students in physics at Stony Brook, I toured BNL and I knew that working at the Lab would be a great opportunity for me. I could learn things here that I couldn't learn anywhere else. Under Peter Johnson's direction, I succeeded at completing some unique and difficult experiments. It is nice to be recognized for that work with this award."

In experiments at the NSLS,



Jonathan Rameau

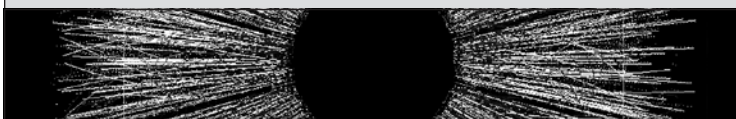
Rameau and his colleagues used a technique known as the Lucy-Richardson method to sharpen images of the energy spectra in high-temperature superconductors — materials that carry electrical current without any resistance when cooled to a certain temperature, known as the transition temperature. The researchers used this imaging method for the first time in photoemission experiments, in which ultraviolet light or laser light is used to measure the energy and direction of electrons in materials. As reported in the November 6, 2008 issue of *Nature*, the scientists confirmed that electron pairs needed to carry current emerge above the transition temperature, before superconductivity sets in, but only in a particular direction.

"High temperature superconductors were discovered in 1986, but we still don't understand exactly how they work," said Rameau. "Electrical power generation and transport would be much cheaper if industry could create superconductors that work at room temperature. Our basic research at the NSLS is important for moving forward to achieve that goal."

Rameau earned a B.A. in physics and English in 2001 from Vasar College, and he joined SBU in 2002. After he graduates from SBU with a Ph.D. in physics this May, Rameau will become a post-doctoral fellow at BNL, continuing his current studies on superconductivity, as well as exploring some new areas of research.

— Diane Greenberg

2009 RHIC & AGS Annual Users' Meeting, 6/1–5



The 2009 Relativistic Heavy Ion Collider (RHIC) and Alternating Gradient Synchrotron (AGS) Users' Meeting will be held at BNL from June 1 through 5. On the first two days, Monday and Tuesday, workshops on RHIC science will run in parallel and highlight the recent results from RHIC experiments. On Wednesday, June 3, a special educational symposium will be held on Accelerator Physics, with the goal of enhancing the community's understanding of the field on which the researchers rely. On Thursday and Friday, the plenary sessions will feature talks on the accomplishments and future of RHIC experiments, perspectives from BNL management and the funding agencies, and the special guest speaker, George Sterman of Stony Brook University. The last day, Friday, will include an open forum session of the Users' Executive Committee to present election results, review the committee's activities and discuss user concerns. For more information, go to http://www.bnl.gov/rhic_ag/users_meeting/default.asp.



Join BNL scientist Howard Gordon on May 27 at 5:30 p.m. for a discussion about the science myths and facts in the movie...read more on page 2.

Making the Call

How referees help to decide which science papers get published

Most good ideas don't just fall out of the sky. Even astronomers, who look up often, base their new ideas, theories, and discoveries on previous work in the field. While mainstream media might highlight a scientific discovery, the details are often omitted for the general public. These details, which help to fuel future innovations, get published in more subject-specific journals.

"Having work published in scientific journals is the formal mechanism by which scientists communicate and show our worth to fellow scientists. We refer to the papers published in journals to develop our own ideas," said Peter Johnson, Chair of the Condensed Matter Physics & Materials Science Department.

But having work published in scientific journal has other benefits, Johnson explained. "Scientists are often assessed based on the number of papers they have had published. When recruiting or fundraising, that number is a good indicator of how established someone is, or how good an investment someone is," he said.

Gene Sprouse is editor-in-chief of the American Physical Society's (APS) *Physical Review*, a family of journals first founded in 1893 to highlight developments in physics. According to Sprouse, "Each year, we receive about 35,000 submissions for the *Physical Review* journals. About 18,000 of those submissions are published."

"Part of the editor's job is to find the right person to referee," Sprouse said. With so many pa-



Peter Johnson



Gene Sprouse

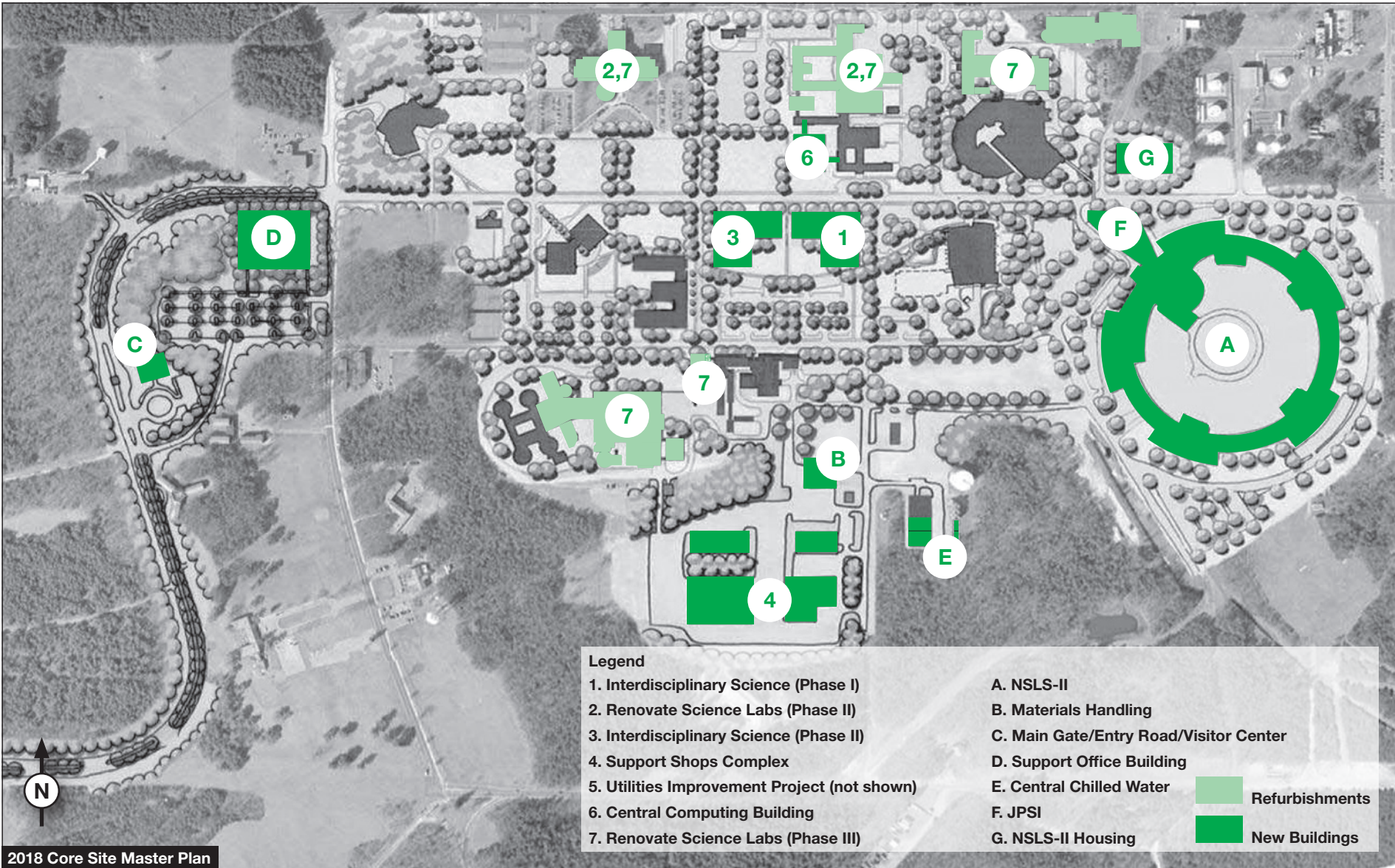
Photo by Bob Kelly

pers' being submitted, journal editors work with "referee" scientists who assess the scientific quality, timeliness and accuracy of the paper, and give advice to the editor about acceptance or rejection. "Everyone who submits research has an obligation to referee for the journal and most of the scientific community takes refereeing seriously and does it well," he added.

Aware of this obligation, Johnson has refereed for numerous journals, including the *Physical Review*. Recently, the APS has named him and ten other BNL scientists as among the total of 867 "Outstanding Referees" chosen from its 44,000 referees around the world. The BNL outstanding referees are: Mark S. Hybertsen, Peter Johnson, William J. Marciano, Arnold R. Moodenbaugh, Frank Paige, Ronald Pindak, Boris Podobodov, Stephen M. Shapiro, John M. Tranquada, Alexei Tselik, and Richard E. Watson. These referees were recognized for their efforts to maintain the journal's high standards by improving the quality and readability of its articles.

"I ask myself several questions when I referee," Johnson said. "Does this work provide new insight? Is it new information I

See *Referees* on pg. 3



Lunchtime Presentation, 5/28

The Vision for Brookhaven Lab in 2018

Brookhaven Lab will look very different in 2018 if all goes according to plan. New buildings will be constructed, some older buildings will be demolished, and others will be refurbished during the next nine years; all to provide researchers and support staff with state-of-the-art facilities needed to sustain and propel the scientific and technological developments of tomorrow.

On Thursday, May 28, join Lanny Bates, Assistant Laboratory Director for Facilities & Operations, for a “brown-bag-lunch” presentation on plans to modernize the Lab’s infrastructure. The event will be held at noon in the Chemistry Department’s Hamilton Seminar Room, Bldg. 555. A brief Q-and-A session will follow.

“Representation of the future master plan is a vision, and not all of the details have been worked out,” stated Bates, who previously worked to modernize the infrastructure of Oak Ridge National Laboratory in Tennessee. “But momentum is building with the start of

construction on National Synchrotron Light Source II, and approvals being obtained on schedule for several other new and renovation projects.”

— Joe Gettler

Author’s Note: The map above does not include the RHIC complex, apartment complex, etc. as it focuses on the Lab’s

“core campus,” where planners envision Brookhaven Avenue as a “showcase boulevard” for multi-disciplinary science. According to Bates, “Improvements in the Collider-Accelerator Division and RHIC complex are also being funded over the next several years and planning for improved facility user housing is under way.”



Talk to Reveal Science Of Angels & Demons, 5/27

Could antimatter really destroy the Vatican? Learn about science myths and facts in the movie.

During a free and public event in Berkner Hall at 5:30 p.m. on Wednesday, May 27, Howard Gordon, a BNL physicist, will separate the science facts from the science fiction of *Angels & Demons*, a major motion picture based on Dan Brown’s best-selling novel. The film, which opened nationally in theaters on May 15, focuses on a plot to destroy the Vatican using antimatter stolen from the Large Hadron Collider (LHC) at the European particle physics laboratory CERN. Speakers will explain the real science of the LHC, including antimatter — oppositely charged cousins of ordinary matter that have intriguing properties.

Starring Tom Hanks and directed by Ron Howard, *Angels and Demons* — the follow-up to the *Da Vinci Code* — tells the story of Harvard

University symbology professor Robert Langdon as he investigates a murder at CERN. He finds evidence of a deadly plot hatched by an ancient secret brotherhood, the Illuminati, to destroy the Vatican using antimatter stolen from CERN.

Gordon, who works on LHC science at CERN, will dissect the scientific themes of the movie and explain how they relate to the actual work of physicists. Refreshments will be served.

The BNL talk is part of a series of public lectures about the film; across the United States and Canada, scientists from more than 30 colleges, universities and national laboratories will host individual events. More information about the series, including a list of lectures and local contacts, is available at http://www.uslhc.us/Angels_Demons.

Getting to Know BERA Clubs:

The BNL Table Tennis Club

One of the “Spring Awakening” activities organized by Michael Thorn, the BNL Health Promotion Program Administrator, was a demonstration of table tennis given in Berkner Hall on April 29 by the members of the BNL Table Tennis Club. At its best, players say, table tennis, aka ping-pong, is extremely fast and elegant, demanding lightning reactions, strategic thinking, coordination, and endurance. But the BERA club welcomes players at all levels of skill. The bystanders who watched the April 29 show were also invited to join in, to the mutual fun of all.

Among the newer club members is Joe Woicik, a National Institute of Standards & Technology physicist and resident visiting scientist at BNL for the last 20 years.

Says Woicik, “The club members played not only awesomely but also gracefully. It’s not just a game. It’s a real sport and a spectacular show.” Since he joined the club earlier this year, Woicik’s game has improved tremendously, which he attributes to having the opportunity



Roger Stoutenburgh 05101009

to play with skilled players on a regular basis.

Lev Neymotin of the Non-proliferation & National Security Department often plays with Woicik. This summer Neymotin is celebrating his 30th anniversary at the Lab. He also has one of the longest tenure at the Table Tennis Club and is currently its Vice President. His enjoys a match with a seasoned player like Master Liu, the all-time BNL Table Tennis Champion.

Master Liu, who also goes by Head Coach, Master Bai, and Chief Umpire, is actually Yangang Liu of the Environmental Sciences Department. Over the years, Liu has led the BNL table tennis team in multiple tournaments, and he took second



Roger Stoutenburgh 05101009

place in the 2007 Greater New York Inter-Institution Table Tennis Tournament.

The BERA Table Tennis Club is one of the more than 50 clubs/associations at the Lab. For more information about the clubs, see <http://www.bnl.gov/bera/> or stop by the BERA Store in Berkner Hall.

Please remember, many Long Islanders are hungry. Your donations of canned goods are needed. Food Drive bins are in Bldgs. 400, 179, and elsewhere on site. Thanks.

In Memoriam

Masaki Suenaga

Masaki Suenaga, BNL Senior Scientist Emeritus in the Condensed Matter Physics & Materials Science Department (CMPMSD), died on February 13. During his 37-year career at BNL, Suenaga made distinguished contributions to the field of superconductivity and superconductor materials, which can transmit electrical current with no loss of energy. Suenaga retired from the Laboratory in 2006, but continued his research on a part-time basis until he was hospitalized in January, after a long battle with leukemia.

Suenaga spent much of his early career studying the superconductor niobium-tin, and his research resulted in a process to make the first industrial niobium-tin superconducting wire for use in high-field magnets.

Peter Johnson, CMPMSD Chair, commented on Suenaga's work, "His early efforts undoubtedly helped to establish BNL's former Materials Science Department (MSD) as the world-renowned center for the development of superconducting materials suitable for technological applications. Over the years, the many improvements in the properties of niobium-tin wires that he and his collaborators evolved have been incorporated in all of the wires that are currently used for magnets in magnetic-fusion reactors, high-energy particle accelerators, and high-frequency, nuclear magnetic resonance instruments."

Suenaga's research led to the production of a flat niobium-tin tape with low losses of alternating electric current. The flat niobium-tin tape was used in Brookhaven Lab's Power Transmission Project, which began in the 1970s to develop a viable and cost-effective means of transmitting large amounts of electrical power underground. This project laid the groundwork for the Long Island Power Authority's installation of the world's first high-temperature superconductor power transmission cable system in Holbrook, Long Island, in 2008. The new cable uses far less wire and yet conducts up to five times more power in a smaller right-of-way than is needed by traditional copper-based cables.

Suenaga's interest in the properties, processing methods and microstructures of superconductors led to the establishment of a transmission electron microscopy facility (TEM) at BNL. Soon after the new facility was installed, Suenaga used TEM techniques to solve an important corrosion problem, and his success garnered funding from DOE's Basic Energy Sciences for corrosion science studies in the Materials Science Department.

Born in Japan, Suenaga moved to the United States to attend the University of California, Berkeley. He received a B.S. and M.S. in electrical engineering in 1962



Roger Stoutenburgh D0320908

In 2008, Mas Suenaga was honored with the IEEE Council on Superconductivity Award for significant and sustained contributions to applied superconductivity.

and 1964, respectively, and went on to earn at Ph.D. in metallurgy at Berkeley in 1969. He joined BNL in the same year as an assistant metallurgist and worked his way through the ranks to become a senior metallurgist in 1983. He was honored with BNL's Distinguished Research & Development Award in 1992, became a Fellow of the American Physical Society in 2002, and won an IEEE Award for Applied Superconductivity Research in September 2008. Suenaga retired in 2006, but he still worked part-time as a guest scientist, then as Senior Scientist Emeritus since November 2008.

Yimei Zhu, a senior scientist in CMPMSD, said that Suenaga had convinced him to come to BNL and had been his supervisor in his early years at the Laboratory. "I was always touched by his work ethic, his modesty, honesty, integrity and passion for research," Zhu said.

David Welch, a retired senior scientist and current guest scientist in CMPMSD, said of Suenaga, "His warm and easy-going personality, together with his clear insight, uncommon sense, and tenacity in the solution of scientific problems made him a sought-after collaborator by colleagues at BNL and all over the world of applied superconductivity, and a leader in the field. It was my great honor and pleasure to be his friend and colleague for 35 years."

American Superconductor also sent condolences, saying, in part, "His work was characterized by great insight and ability to bring together theory with experiment. He also made a unique contribution in furthering the productive relationship between American and Japanese scientists in the superconductivity field . . . Above all, we treasured him as an honorable and accessible colleague and great friend."

A resident of Bellport, Mas Suenaga is survived by his wife Yoko, who works in BNL's Physics Department; his son Ken and daughter-in-law Yumilo with their sons Reo and Riku, and his son Ben and daughter-in-law Marta. — Diane Greenberg

Referees from pg. 1
might be interested in? Are there any obvious flaws? Has the author explained everything in sufficient detail?"

If as a referee Johnson feels that a paper he has reviewed should not be published, he must submit a statement explaining that decision to the journal editor. If he decides that a paper is suitable for publication but is not 100 percent ready, he must make suggestions for improvement. Authors can appeal a referee's decision, but ultimately,

the journal's editor decides what gets published and what does not.

"Referees are given advance insight into work because they're seeing it before the rest of the community does," Johnson said. "I look for things that leave me thinking, 'Gee-whiz,' or, 'Wow.' If something I read is really stimulating, I want to go out and try other things and maybe go in new directions."

After all, most good ideas don't just fall out of the sky. — Joe Gettler

Honoring Flag Day, 6/12

Flag Day, a date set aside by act of Congress to honor the birth of one of the most precious national symbols of the U.S., falls annually on June 14. One portion of flag etiquette states: "When a flag is so worn that it is no longer fit to serve as a symbol of our country, it should be destroyed in a dignified manner."

In honor of Flag Day, the Brookhaven Veterans Association will be collecting American Flags that are no longer fit to serve as a symbol of the U.S. If you have a flag that falls into this category, bring it to Berkner Hall on Friday, June 12 between 11 a.m. and 1 p.m. It will be collected for proper disposal.

The Brookhaven Veterans Association, a BERA organization, is dedicated to serving the interests of BNL Veterans and employees who are faced with the challenges of their loved ones currently serving in the military, and to their communities. For more information, go to: www.bnl.gov/bera/activities/va/.

BERA Golf Association BNL Cup Outing, 6/15

The BERA Golf Association will hold its Fourth Annual Brookhaven Cup outing at Pine Hills Country Club on Monday, June 15. Two teams will compete for prizes and the annual Brookhaven Cup. North and south teams will be determined based on participants' home addresses in relation to a major east/west route.

Players will play their own balls, and the best two-thirds of the adjusted net scores of team members will provide the team score. Two disaster holes, one from each nine, will be deducted from a player's net score to arrive at the adjusted net score. The cost is \$55, which includes the greens fee, a cart, and \$10 toward prizes. All golfers, of no matter what ability, are welcome for this fun-filled event. For more information, visit <http://www.bnl.gov/bera/activities/golf/> or contact Jeff Williams, Ext. 5587 or jwilliams@bnl.gov.

BERA Updates

- **Splish Splash** opens for Memorial Day weekend. The BERA Store has discount tickets: \$22 for those under 48", and \$28 for those over 48" (regular price is \$27 and \$36).
- **The Par Course** has re-opened. Enjoy this fitness course located behind the fire house.
- **The Swimming Pool and Gym** will be closed on Saturdays until September 12.
- **Clearwater Festival**, musical festival to benefit New York's Hudson River. Saturday, June 20. \$40/adults; \$10/12 years and under. See <http://www.clearwater.org/festival/aboutfestival.html>.
- **BERA Summer Party** at the Miller Beach Surf Club on Wednesday, July 1 (Lab holiday on 7/2), 5:30–10 p.m. \$50 per person, includes open bar and dinner buffet overlooking the Long Island Sound. Limited to 130 tickets. Sale begins on Friday, June 5.

Classified Ads: Real Estate

For Rent

BROOKHAVEN – Sound Beach. New, all renov 2 story 2 bdrm, 1&1/2 bth, large LR & EIK, attic, full basemt, pvt beach. \$1,600 & utils. \$1,600/mo neg. 744-6582.
EAST MORICHES – 3/4 bdrm, 2.5 bath, dr, lr, cac, fin. bsmt, det gar. big yd. \$1,900/mo. + util. 745-2495 or jtullo@bnl.gov.
MANORVILLE – 1 bdrm, l/r kit. combo, full bath, pvt ent, v/quiet, inc. all, no smkg/pets, please. \$800/mo. Ext. 3849, 591-1315.
MASTIC – 1 bdrm, full kit & bath, den, own ent/ drwy, for one person, all inc, 1 mo sec, no smkg/pets. \$850/mo. joe mondi, Ext. 3499, 219-7241.
PORT JEFFERSON ST – studio apt, kchtnette, bath, very clean, quiet, close to all, utilities included, no smkg, no pets. \$600/mo. Ext. 3327, 830-5762.
PORT JEFFERSON ST. – 3 bdrm house, 1 bath, lv/rm, dn/rm, ktchn, 2 car gar, v.clean, yard, quiet, close to all, no smkg, no pets. \$1,600/mo. Ext. 3327, 830-5762.
ROCKY POINT – 1 bdrm house, eik, lg, l/r, .5 bsmt, oil heat, no smkg/pets, 15 mins. to BNL. \$1,100/mo. 744-8919.
ROCKY POINT – 1 tbdm upper unit, kit, bath, l/r, balcy, co-op comm, nr stores, Indry rm on prem, prkg spot, no smkg/pets, cac, incl. gas/water. \$1,150/mo. 806-5965.
RONKONKOMA – 1 bdrm, full bath, kit, l/r area. 20 min to Lab. \$1,000/mo. Ext. 3008.
SELDEN – Cul de Sac, studio apt., fuell kit, full bath, priv. ent, patio, cathedral clng, skylights, ceiling fan, no smkg/pet, 1 mo sec. \$900/mo. 698-3514.
SHIRLEY – lrg 1-bdrm bsmt apt., suitable for one, sep. entr., near beaches/parks/freeways/lirr/Lab, all incl. 1 mo rent + 2 months' sec., \$725/mo. Ext. 3846.

SHIRLEY – 1rm studio for 1, furn, full bath, sep ent, cable/elect/a/c/int/incl, 1mo. sec, 5min to/stores/beach/LIRR, 7mi to lab/no smkg/pets. \$650/mo. Ext. 2964, 804-8609.
SHIRLEY – ranch, fenced 1/2 acre. 5 BR, full bth, LR, EIK, den, fam rm. Nr RR/buses. w/d, Single fam. no smkg/pets. Avail. Aug.1. \$2,000/mo. 281-7665 or dejong@bnl.gov.
WADING RIVER – share complete house/yd, priv. br/bath, use of w/d, avail. now, MUST love pets. \$650/mo neg. Dawn, 929-1802.
POCONOS, PA – T/Share - 7/11 - 7/18/09, Tanglewood Resort, 2 bdrm, full kit, slps 6, many amenities, golf, lake, \$650/wk. www.tanglewoodresorts.com. Ext. 3750, 672-4141.

For Sale

EAST MORICHES – 5/6 bdrm mother daughter, drs, lvrms, cntrl air, fin bsmt, det gar, big fenced yard, beach rights. \$479,000 neg. 745-2495 or jtullo@bnl.gov.
MASTIC – 3 bdrm ranch, l/r, d/r, eik, 2 full baths, oak flrs, all appli., Anderson windows, new roof/cac, oil heat, igs, wtr. soft- ner, 2.5 gar, fin. bsmt, \$275,000. 744-4077.
SHIRLEY – remdelled 4br 2 bath, lg l'scaped yd, igs, solar hot wtr, outside jacuzzi hot tub, 10 min to Lab. \$259,000 neg. Mark, Ext. 3172, 281-5060, mmcneill@bnl.gov.
SHOREHAM – Ranch, newly renov., 3 bdrms, bath, l/r, den, wd flrs, kit/granite counters, ss appli, gar, lg yd, family n'hood, SWRSD. \$350,000 neg. 258-4607.

Services

For a complete listing of services, visit <http://intranet.bnl.gov/ads/display-AdsAll.asp>. From off-site, if you want a copy, call Ext. 2346 or e-mail bulletin@bnl.gov.

CALENDAR

— THIS WEEKEND —

Friday, 5/22

Poppy Day to Benefit Vets

11 a.m.-1 p.m. Berkner Hall lobby. Leisure Knoll residents representing the American Legion will give out poppies, made by veterans, and collect donations. Scarlet poppies, which bloomed in the battlefields of Flanders in World War I, are a symbol of the dedication of all veterans.

Memorial Day Ceremony

Noon. Brookhaven Center. In observance of Memorial Day, the Brookhaven Veterans Association will hold a ceremony at the flagpole. All the Lab community is invited.

*Employee Lunchtime Bird Walk

Noon-1 p.m. Berkner Hall lobby. Meet to be taken on a bird walk tour on site. Wear suitable shoes and clothing. No reservations are needed. See pg. 4.

Saturday, 5/23

*Taiwan's Martial Arts, Drums, Dance

6:30 p.m. Berkner Hall. Taiwanese traditional martial arts, drums, and dance. Sponsored by BNL's Asian Pacific American Association and others. Buy tickets, \$12/adults, \$6/students, children from HsinLan Chen, 758-1762 or at the door. Visitors of 16 and over must carry a photo ID. See pg. 4.

— WEEK OF 5/25 —

Monday, 5/26

Lab Closed to Honor Memorial Day
No Bulletin on Friday, 5/29.

Tuesday, 5/26

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

Wednesday, 5/27

*Science of 'Angels & Demons'

5:30 p.m. Berkner Hall. Howard Gordon, Physics, will separate science facts from fiction as seen in *Angels & Demons*, a film starring Tom Hanks. See also http://www.uslh.c.us/Angels_Demons. All are welcome. Visitors to the Lab 16 and older must carry photo I.D. See pg. 2.

Thursday, 5/28

Safety Engineering Products

11 a.m.-2 p.m. Berkner Hall lobby. PRI Power Resources International, Inc., Euchner, and Werma will present a product overview for safety engineering. Contact Fred Solano, Fred@pri-inc.com. (973)919-3729.

Saturday, 5/30

*Project Floyd Band

8 p.m. Berkner Hall. Project Floyd, Acclaimed New-York-based Pink Floyd tribute band will perform, sponsored by the BNL Music Club. The concert is open to the public. Tickets are \$15 in advance at the BERA Store. See pg. 4.

— WEEK OF 6/1 —

Monday, 6/1-5

***2009 RHIC & AGS Users' Meeting**
See pg. 1 and http://www.bnl.gov/rhic_ags/users_meeting/default.asp.

Thursday, 6/4

Retirees' Luncheon Gathering

Noon-4 p.m. Bellport Country Club. \$35/person. Contact arniepeskin@optonline.net or Ext. 5090, or florence.obrien@att.net.

Arrivals & Departures

— Arrivals —

Christopher Brown ES&T
James Maire Lab Protection
Jonathan Rameau CMP&MS
Amanda Satterley Dir.'s Office

— Departures —

None

Memorial for Mas Suenaga, 5/29

A gathering to remember Mas Suenaga will be held on Friday, May 29, hosted by members of the Condensed Matter Physics & Materials Science Department and the Suenaga family. All friends and colleagues are invited to attend the event, which will be held from 3 to 5 p.m. in the Large Seminar Room in the Physics Department, Bldg. 510. For more information, contact Ali Lopez, lopez@bnl.gov, Ext. 2590.

BERKNER HALL

PROJECT FLOYD

PINK FLOYD TRIBUTE BAND

SATURDAY, MAY 30

Project Floyd, a Pink Floyd Tribute Band, 5/30

Project Floyd, a New York based Pink Floyd tribute band, will perform on Saturday, May 30, at 8 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab 16 and older must bring a photo I.D.

Project Floyd will perform the albums *Animals* and *Dark Side of the Moon* in their entirety, as well as other classic "Floyd" songs. Project Floyd incorporates the sounds, sights, and character of the original group into a show that should satisfy even the most discriminating Pink Floyd fan.

The six musicians making up Project Floyd are seasoned professionals with years of touring and recording experience. Band members are: Joe Mayer (lead vocals and rhythm guitar), Charlie Koci (lead vocals, bass), Dave Ventura (lead guitar, vocals), Andy Fox (keyboard, vocals), Paul Drollinger (keyboard, sound effects), and Michael Stamberg (drums). The group performs an extensive set list from the most popular to the most obscure songs, representing every Pink Floyd album. Tickets for the show are \$15 in advance and \$20 the day of the show. Tickets may be purchased at the BERA Store, through www.ticketweb.com or at the door. For more information on the band go to: http://web.mac.com/chakton/Project_Floyd/Home.html.

— Jane Koropsak

Classified Advertisements

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

OPEN RECRUITMENT – Opportunities for Lab employees and outside candidates.

*NOTE: [This note applies only to positions below ending with "See NOTE (above)].

When applying for a position, please add the contact and email address of at least three references in the Reference box located on the application page. Please note that if you have applied for multiple positions under one application, the same reference information is attached to all those positions. If you elect to use different referees for different positions, please apply to each position separately. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years.

POSTDOCTORAL RESEARCH ASSOCIATE (Hydrogen Storage) – Requires a Ph.D. in physics, chemistry, materials science, chemical engineering or similar field. Some competency in characterization techniques such as diffraction, calorimetry, spectrometry and electron microscopy is necessary. Experience with a variety of organometallic synthesis methods is preferred. Will take part in basic and applied research on energy storage materials such as metal hydrides for hydrogen storage. Research involves developing new candidate hydrogen storage materials (liquids and solids) and characterizing fundamental properties such as hydrogen capacity, structure, thermodynamics and kinetics. The development of new regeneration routes to chemically reform the hydrides from the hydrogen-depleted material is also of interest. Under the direction of J. Graetz, Energy Sciences & Technology Department. Apply for Job ID #14877. *See NOTE (above).

POSTDOCTORAL RESEARCH ASSOCIATE (Lithium Batteries) - Requires a Ph.D. in physics, chemistry, materials science, or similar field. Strong background in electrochemistry of lithium ion batteries is necessary. Experience with the synthesis of electrode materials, electrochemical characterization using (potentiostat/galvanostat and impedance) and structural characterization (XRD, TEM) is preferred. Will take part in basic and applied research of novel electrodes and electrolytes for lithium batteries. Under the direction of J. Graetz, Energy Sciences & Technology Department. Apply for Job ID #14878. *See NOTE (above).

POSTDOCTORAL RESEARCH ASSOCIATE (Thermoelectrics, Energy Conversion, Power Generation Device, Waste Heat Recovery) - Requires a Ph.D. in condensed matter physics, materials science/engineering, solid state chemistry or a closely related field. Hands-on experience in synthesis and characterization of thermoelectric and superconducting materials, and skills in application development is required. Metallurgical or device engineering and research experience is desirable, but not required. Effective communication skills and willingness to work in a team are desired. The research is on the ad-

vanced thermoelectric materials for energy applications. Under the direction of Q. Li of the Advanced Energy Materials Group, Condensed Matter Physics and Materials Science Department. Apply for Job ID #14879. *See NOTE (above).

POSTDOCTORAL RESEARCH ASSOCIATE (X-ray crystallography, membrane protein, biochemistry) - Requires a Ph.D. in biochemistry or biophysics, with strong interest in membrane proteins and experience in X-ray crystallography. Will study a class of metal transporter proteins (see Science (2007) 317:1746 and <http://www.bnl.gov/biology/People/Fu.asp>). We offer outstanding opportunity for career development and competitive salary. Under the direction of D. Fu, Biology Department. Apply for Job ID #14880. *See NOTE (above).

HELP DESK ANALYST/CUSTOMER SUPPORT ADMINISTRATOR (I-3) – Requires technical training or experience and a minimum of one to two years' experience supporting hardware and/or software. 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 software support concepts. Certification as a Help Desk Customer Support Representative and MCP/A+ certifications are a plus. 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 service requests and follow up on previously dispatched requests. Information Technology Division. Apply to Job ID #14564.

PROJECT PLANNING SPECIALIST (A-6) – Requires a bachelor's degree or equivalent in a related discipline plus four years of professional cost/scheduling experience. Equivalent knowledge may be obtained through a combination of education and/or experience. A working knowledge of cost estimating, budgeting and control is preferred, as well as knowledge of Earned Value Management System processes and requirements. Must possess strong interpersonal, communication and time management skills, and be a self starter. Will be a part of the project office for the Water Cerenkov (WC) Far Detector and will coordinate cost and schedule project planning and control functions for this subsystem as part of overall project controls for Long Baseline Neutrino Experiment (LBNE) Project. Responsibilities may include, but will not be limited to, implementing aspects of an earned value management system, which consists of developing a fully integrated computerized resource loaded schedule, assisting technical management in developing resource requirements to support the project cost estimate, analysis of the project schedule using critical path methodology, managing changes to the schedule and/or baseline, generating performance measurement monthly reports for management, interfacing with project technical staff to define scope of work, baseline changes variance analysis. Will implement corrective actions, support

project data presentations at meetings or external reviews, and support the development and deployment of new techniques and tools. DUSEL Project/Physics Department. Apply for Job ID #14876.

SENIOR TECHNICAL SPECIALIST – OPERATIONS COORDINATOR (T-3) - The National Synchrotron Light Source is searching for an Operations Coordinator to work in the NSLS Operations Control Room with the primary responsibility of experimental safety operations. Duties will include safety systems checkouts and monitoring user safety and conduct of experiments at the beamlines. Must be self-motivated, able to work with minimal supervision, and possess good communication skills. Requires a BS in Electrical Technology (BSET), Mechanical Technology (BSMT), or Computer Science, plus at least one year of relevant experience; or an AAS degree plus at least four years of relevant experience; or equivalent work experience in these fields. Candidates selected for this job are considered essential personnel. Shift work is required, including availability to work off hours as necessary. National Synchrotron Light Source. Apply for Job ID #14881.

ADMINISTRATIVE SERVICES ASSISTANT (A-2) - Requires four years of relevant experience or an AAS (business, computer technology, or database management) and two years' relevant experience or a bachelor's degree in a business field. 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 Lab policies and procedures and experience in issuing Lab 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 patient 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 for Job ID #14882.

ELECTRICIAN A (LG- 10, term appointment through 11/09) – Under minimum supervision lays out, constructs, installs, maintains, repairs and operates (in accordance with the national electrical codes, or as otherwise directed) electrical systems, equipment, controls and related devices. May be required to perform similar duties on other than Maintenance Division equipment and facilities. Seven years total experience composed of five years of apprenticeship, and two years of experience; or seven-to-nine years total experience composed of formal trade school plus a minimum of two years' experience, or nine years' experience preferred. Maintenance & Fabrication Division. Apply for Job ID #14883.

Motor Vehicles & Supplies

07 KAWASAKI ZX-6R NINJA – 2.604K mi. Like new. All black, never abused. Akrapovic exhaust. \$6,800 neg. 942-4335.
06 SUZUKI GSX1300R HAYABUSA LI – 3K mi. Ltd Ed, Tsukigi titan exh, pwr cmmndr, 175 rwhp, mint, \$7,500 neg. 235-3074.
05 CHRYSLER 300 TOURING – 82K mi. pearl, mint. cond., 6 cyl., many extras. \$9,500 neg. 929-4978, mjulian@bnl.gov.
04 NISSAN 350Z – 35K mi. red, mint cond. \$16,000. Gil, 905-1617.
03 BMW 325i – 80.5K mi. black, 6cyl., 4 dr, excel condi, loaded, opt/prem.pkg, spt pkg, sde air bgs, more. \$12,000. Ext. 3085.
99 HYUNDAI ACCENT – 52K mi. 5spd manual, v/gd. cond., 30mpg. \$1,700. 286-1169.
97 NISSAN SENTRA XE – 210K mi. a/t, a/c, runs well, 27 mpg. \$650 neg. Ext. 5706.
92 TOYOTA COROLLA – 178K mi. a/t, a/c, just serviced radiator, mint cond, \$1,300.
917-270-4179 or chasingdee@yahoo.com.
51 OLDSMOBILE SUPER 88 – looks & runs well. \$5,500. Gil, 905-1617.
QUAD-YAMAHA ATV – '07 Raptor 700R, 5spd, low hs, excel cond., ask/\$5800. Ext. 4520 or doullos@bnl.gov.
SIDE VIEW MIRROR – for Honda Pilot passenger side, ask/ \$10. Ext. 4532.

Marine Supplies

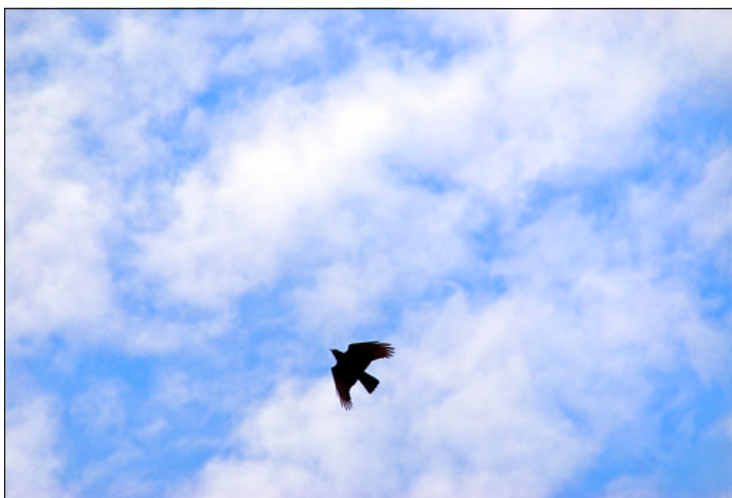
BOAT SLIP – Jamesport, Peconic Bay, deep water, floating dock, boats up to 25', prkg at dock, no util, \$950/neg. 929-6189.

Audio, Video & Computers

HP SCANJET SCANNER – 5400c series, w/software CD, \$40/obo, great cond, hardly used. 516-241-4598.
NINTENDO DS LITE – pink, excel. cond., \$75. Monica, 662-1220.

Taiwanese Martial Arts, Drums, Dance, 5/23

Come to Berkner Hall at 6:30 p.m. tomorrow, Saturday, May 23 for an electrifying performance of Taiwanese traditional martial arts, drumming, and dancing! Admission is \$12 for adults, \$6 for children and students. Tickets may be purchased at the door, or contact HsinLan Chen at (631) 758-1762, roger_sheena@yahoo.com. All are welcome to this public event, which is sponsored by the Taiwanese American Association on Long Island, Culture Center of Taipei Economic Office in New York, BNL's Asian Pacific American Association, Suffolk County Office of Minority Affairs, and Shaolin Kung Fu Studio, Holtsville, New York. Visitors to the Lab 16 and older must carry a photo ID.



Joseph Rubino 00150509

It's NOT a plane!

Employee Lunchtime Bird Walk Today, 5/22

Today, Friday, May 22, from noon to 1 p.m., all are invited to join the Employee Lunchtime Tour for a bird walk led by Ernie Lewis and Tim Green, who will identify birds and provide a checklist of some of the more common birds on site. Meet at noon in Berkner Hall lobby to be taken to the walking area. Wear suitable shoes and clothes that will protect you from ticks, and bring your binoculars and a bird book if you like. No registration is necessary. For more information, call Elaine Lowenstein, Ext. 2400.

Furnishings & Appliances

BUNK BEDS – Ikea, sturdy, white steel frame twin size, no mattresses, photos avail., \$100/obo . Sean, Ext. 5331.
KITCHEN CART – natural wood w/butcher block on top, towel rack, concealed storage, excel cond., \$50/obo. Ext. 3924.
KITCHEN TABLE – 3' diam. rmd glass top, alum. base, \$35; mushroom chair, beige, microfiber. \$20 .Ext. 3474, 879-3473.
MOVING SALE – see items at <http://movings.webs.com/>. 929-0043.

Sports, Hobbies & Pets

BASS GUITAR – Fender Jazz, burgundy w/maple neck, \$400. Gordon, Ext. 3586 or corbin@bnl.gov.
CANOE – '63, 17'Grumman w/Gunter rig, 75 sq. ft. sail; leaderbrds; kick-up rudder; \$500/obo. John, 929-4147.
DOG RUN – Chain link dog run w/gate 4'w, 12'l, 5'h, \$50, u-pic-up. Bill, Ext. 2377.
METS TICKETS (2) – Sec 519 Row 14 Seats 4&5, 6/22 v STL, 7/29 v col, or 8/19 v atl, \$50/pr/game. Ext. 8709.
MOTORCYCLE HELMET – HJC CL-2, black, visor, size small - 6 7/8 - 7 still in box. \$40. 645-1349.
TICKETS – 4 avail. ea. day, 6/19,20,21, US Open Bethpage, general admission, \$100/ea, cash only. Frank, Ext. 3433.
TREADMILL – Proform, works well, v/ clean, \$225; Frigidaire gas stove, self cleaning, like new, ask/\$150, 344-8410.

Car Pool

MEETS IN PLAINVIEW – Established 3-person car pool, looking for 4th driver/rid-er, BNL hours 8:00-4:30. Ron, Ext. 6068.

Community Involvement

FARMERS' MARKET @ MT. SINAI – Wkly, at Heritage Park, Jun-Oct, Fridys, 2-6pm. Spons by Mt. Sinai Garden & Heritage Trust. Ext. 5090.
TESLA - THIS PLACE MATTERS – Help fight to preserve Nikola Tesla's last remaining lab! Sat. May 30, 10 am. Meet on Rt. 25A at the Tesla Wardenlyffe (aka Peerless) site in Shoreham. Mary, Ext. 2066, 744-1898 or daum@bnl.gov.

Free

COMPUTER DESK – It wood/black color. corner unit. 54"along ea. wall, 54"H, u-pic-up, photo avail. 734-2593, sduffin@bnl.gov.

Tools, House & Garden

MATCHING TOWEL BAR SET – 2 Bars, 18" ea, mtchg robe hook, in boxes, polished chrome w/gold, \$25. 516-241-4598.
MOTORCYCLE/ATV FLOOR JACK – Harbor Freight 1500lb capacity, never used \$50. 790-3812 or tiehnn@bnl.gov.
TABLE SAW 220 – Sears 10" Craftsman, rdy hook-up w/stnd, \$100; Anderson bay wndw, casem#45-C16-20, fits R.O. 5'3"wx 6'2"h, \$100. Mike, Ext. 6273.

Miscellaneous

1996 SUNLINE TRAILER – 24ft. 5 new tires, new mtrss, elctrc jack. Many extras. sleeps 4. \$5500 obo. Ned, 924-5187.
OAK FIRE WOOD – 1-1/2+ cord oak firewood. You pick up. \$80 all. Judy, Ext. 5263, 375-7959.
POOL LADDER – IN GRND – stainless 3 rung ladder for igp, brnd new, incl. receptacle, ask/\$100. Ext. 4520, doullos@bnl.gov.
SHIATSU MASSAGING CUSHION – Homedics Therapist, box unopened, orig. \$99, ask \$60 Linda, Ext. 3750, 672-4141.

Wanted

ADOPT-A-PLATOON – Monetary donations gratefully accepted towards mailing shipments to military overseas. Thank you. Joanne, Ext. 8481 or jrula@bnl.gov.
AUTO TRAILER TO RENT / BORROW – to transport a vehicle for a wkend, June 4-9. Ext. 7443 or porqueddu@bnl.gov.
COMPUTER CHAIR – in gd cond, free or low cost. Trish, Ext. 6044.
ENGINE – Chevy 292 cubic inch 6cyl. wozniak@bnl.gov. Thomas, Ext. 3172.
INFANT CAR SEAT – Gd cond. Ext. 2346.
NIKOLA TESLA FANS – The site of Tesla's last remaining lab may soon be sold for development. Rally to preserve this historic site! May 30, 10 am at the Tesla ("Peerless") site, Rt. 25A Shoreham. Mary, Ext. 2066, 744-1898 or daum@bnl.gov.

Happenings

DINNER/SHOW OUTING – Miracle of Christmas Nov 14, Millennium Theatre, dinner: Millers, Strasburg,PA. DEPOSITS \$60pp due Jun 1. Call Kim, Ext. 7465, 399-3098 or khayes@bnl.gov.
KAYAK RACE – Sat. 6/13, 9am, Orient Beach State Park. Fundraiser for Southold Indian Museum inclds catered party, prizes for all partics.<http://www.southoldindianmuseum.org>. Joe, Ext. 2912 or wall@bnl.gov.
SINGING AUDITIONS – Reminder: May 30, for Gilbert & Sullivan's HMS Pinafore concert 8/21-23, all singers welcome. leslieluxemburg-music@yahoo.com.
THE SOUND OF MUSIC – 'The Hills Are Alive' at North Fork Community Theatre, Mattituck, Thurs.-Sun., May 20-31. All seats \$20. Tickets at <http://www.nfct.com> or 298-6328. Laura, Ext. 2520.
COMPUTER DESK – It wood/black color. corner unit. 54"along ea. wall, 54"H, u-pic-up, photo avail. 734-2593, sduffin@bnl.gov.
Farewell Gathering
MEMORIAL FOR MAS SUENAGA - Friday, 5/27, 3-5 p.m. Large Seminar Rm., Bldg. 510. All friends, colleagues welcome. Hosted by members of Condensed Matter Physics & Materials Science Department and the Suenaga family. See pg. 3.
(Real Estate Ads are continued on pg. 3.)