

Japan's Vice Minister of Education, Science, & Technology Visits BNL

The ongoing collaboration between BNL and Japanese institutions — RIKEN, KEK, and several university groups — was the focus of discussion between Lab Director Praveen Chaudhari and Japan's Vice Minister of Education, Science, and Technology (MEXT), Kisaburo Tokai, who visited BNL on Saturday, August 2. He was accompanied by the Director of MEXT's Fusion Energy Office, Satoru Otake, and others in his entourage. The major contributions by Japanese scientists, including many Japanese postdocs and students, to the physics program at BNL's Relativistic Heavy Ion Collider (RHIC) and the RIKEN BNL Research Center (RBRC) are among the advantages of this BNL-Japan collaboration.

The visitors toured the PHENIX detector at RHIC, where they met many Japanese physicists participating in this experiment, then viewed the RIKEN BNL QCD supercomputer in Bldg. 515. This supercomputer is optimized for advanced research into quantum chromodynamics, or QCD. QCD describes the theoretical model of matter based on the force known as the strong interaction — the force that binds quarks and gluons in the particles that make up the nuclei of all atoms.

The computer, which won the Gordon Bell prize for computer cost effectiveness,

has operated since 1998 with more than 97 percent uptime. It operates at 0.6 teraflops — a teraflop being 10 million million floating points, or calculations, per second — and can be operated in tandem with Columbia University's 0.4 teraflop supercomputer to give one teraflop of computing power.

The Minister and his group also saw one of the successful chips for the new QCDOC — QCD on a chip — computer being built by RIKEN, BNL, IBM, and Columbia. This 10-teraflop machine is expected to be completed in March 2004.

— Liz Seubert



At the PHENIX detector at BNL's Relativistic Heavy Ion Collider during the August 2 visit to BNL of Kisaburo Tokai (front, third from left), Japan's Vice Minister of Education, Science, and Technology (MEXT), are: (seated, from left) Satoru Otake, Director of MEXT's Office of Fusion Energy, Atomic Energy Division; Hideki Hamagaki, University of Tokyo; Satoshi Ozaki, Special Assistant to the BNL Director for Accelerator Projects; Bill Zajc, Columbia University and PHENIX spokesperson; and Nicholas Samios, RIKEN BNL Research Center Deputy Director and former Laboratory Director. Standing are: Fumiyasu Hirashita (fifth from left), MEXT; Ikuyo Takahata (eighth from left), Japanese Consul at New York; and Masaru Adachi (ninth from right), Secretary to the Vice Minister, MEXT. With them are other members of the visiting party and the Japanese students and physicists engaged in research at PHENIX and the RIKEN BNL Research Center.

Roger Stoutenburgh 02112003

Nine Brookhaven Scientists Awarded Tenure

Brookhaven Science Associates (BSA) granted tenure on June 1 to nine Brookhaven scientists. They are: Mark Baker, Chemistry Department; Leslie Bland, Physics Department; Christopher Homes, Physics; Jean Logan, Chemistry; Ron Pindak, National Synchrotron Light Source Department; David Schlyer, Chemistry; Subramanyam Swaminathan, Biology Department; Dejan Trbojevic, Collider-Accelerator Department; and Gene-Jack Wang, Medical Department.

As described in the Scientific Staff Manual, "a tenure appointment constitutes recognition of independent accomplishment of a high order in the performance of original

research or of other intellectually creative activity appropriate to Laboratory purposes."

Recognition may be earned through significant contributions to knowledge related to the purposes of the Laboratory and/or in furtherance of the Laboratory's aims, through continuing contributions of outstanding significance to productive uses of the facilities, or outstanding and creative contributions to their design, development, and improvement.

The Bulletin will feature a description of the accomplishments of each of the recent tenured scientists over the next few weeks.

Christopher Homes

For his world-class infrared spectroscopy studies of correlated electron materials, Physicist Christopher Homes has been awarded tenure in the Physics Department. Known for developing innovative instrumentation and techniques, taking on challenging experimental problems, and producing experimental work of the very highest quality, "Homes has made outstanding contributions to our understanding of a variety of strongly correlated systems, including high-temperature (T_c) superconductors and the recently discovered high dielectric constant materials," said Physics Chair Samuel Aronson.

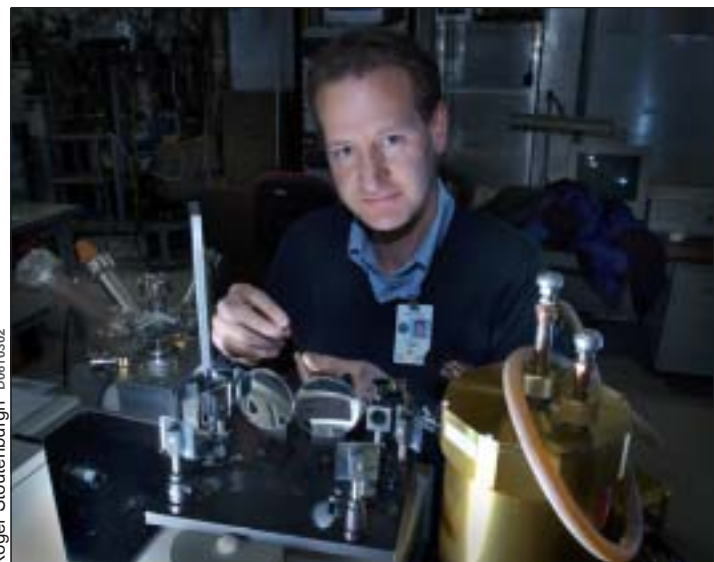
Homes' most important contribution was in developing the microreflectance technique for measuring optical conductivity in small samples — a technique now regarded as the standard ap-

proach for determining absolute reflectance regardless of the sample shape or size. Applying the microreflectance technique, Homes and his co-workers demonstrated the optical pseudogap in one form of high- T_c superconductor — a discovery regarded as one of the most important in the field of superconductivity and still at the center of various attempts to explain the origins of high- T_c superconductivity. Other studies by Homes and his coworkers have postulated a mechanism responsible for another class of materials' unusually high dielectric constant, a property that makes these materials potentially attractive for the design of smaller, faster electronic devices.

"These studies and the facilities developed by Homes represent an exciting and important part of Brookhaven's overall effort in Condensed Matter Physics," Aronson said. "Granting Homes tenure will keep this group in the forefront of both infrared spectroscopy and photoelectron spectroscopy, making it one of the leading electron spectroscopy groups in the world."

Homes received his Ph.D. in physics from The University of British Columbia, Vancouver, in 1990. He held two postdoctoral positions, first at McMaster University and then at Simon Fraser University, where he then held a research and teaching position starting in 1994. He joined Brookhaven's Physics Department in 1996 as an Assistant Physicist. He was promoted to Associate Physicist in 1998 and to Physicist in 2001.

— Karen McNulty Walsh



Roger Stoutenburgh 02061002

Jean Logan

Based on "the enormous impact of her original contributions to the development of kinetic models in the field of neuroimaging and neuroscience and her sustained contribution to data analysis for the Brookhaven Positron Emission Tomography (PET) program," former Chemistry Department Chair Jan Hrbek recommended Jean Logan, Chemistry Department, for tenure.

PET is a medical imaging method that can measure the concentration and movement of radiotracers — positron-emitting isotopes — in living tissue. Over the last twenty years, the BNL PET Program has gained international recognition for studies in human addiction, brain aging and degeneration, and drug research and development. Logan developed a graphical analysis method to interpret PET data that is used by virtually every PET research facility throughout the world.

According to Logan, the amount of radiotracer uptake by living tissues is controlled by numerous factors, including the number of available receptor binding sites in living tissue. In order to separate the receptor information from other factors that influence uptake, mathematical equations, known as kinetic models, must be applied to PET image data. The models describe the uptake and loss of the radiotracer over the course of an experiment.

Logan's graphical analysis method transforms a general set of model equations into a linear plot, the slope of which is related to the number of tissue binding sites. It is an important tool for researchers, since it allows them to interpret data without solving complex mathematical equations.

(continued on page 2)



Roger Stoutenburgh 02010803

Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the 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, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mon., Tues., & Thurs.: Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Christine Carter, Ext. 2873.

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

Noon-12:45 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Mondays: BNL Dance Club Ballroom, Latin & Swing Practice

5:30-7 p.m. North Ballroom, Brookhaven Center, except Lab holidays. Jean Logan, jlogan@bnl.gov or Ext. 4391.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Hall. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Monique de la Beij, 399-7656.

Tuesdays: BNL Music Club

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

Tuesdays: Singles Club

5:15 p.m., Brookhaven Center. Contact: Jean, Ext. 4391.

Tuesdays: BNL Dance Club Individual & Couples Instruction

5-11 p.m. North Ballroom, Brookhaven Center. Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553.

Tuesdays: Toastmasters

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

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$4 per class. Rec. Hall. Pat Flood, Ext. 7886.

Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. Christine Carter, Ext. 2873.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Svetlana Agafonova, 205-5065.

Wednesdays: Farmer's Market

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

Wednesdays: Weight Watchers

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

Wednesdays: Yoga Practice

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206.

Wednesdays: Open Chess Night

5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

Wednesdays: Exercise 101

5:15-6 p.m., Rec. Hall. \$4 per class or \$35 for 10 classes. Stretching, low-impact aerobics, and other exercises. Pat Flood, Ext. 7886.

Fridays: Family Swim Night

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

Fridays: BNL Social & Cultural Club

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

Fridays: Jiu Jitsu Club

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

— THIS WEEKEND —

Saturday, 8/16

Ellis Island Bus Trip

\$39 per adult, \$36 per child, (over age 5.) includes bus, ferry, and tour. Bus leaves BNL at 8:30 a.m. from the Brookhaven Center and returns at 4:30 p.m. Pay at the BERA Sales Office.

Sunday, 8/17

Summer Sunday Tour

10 a.m.-3 p.m. Tour features BNL's Relativistic Heavy Ion Collider. For more information, see the notice on page 4 or visit www.bnl.gov/bnlweb/pubaf/summer_sundays.htm.

— WEEK OF 8/18 —

Thursday, 8/21

*Healthline Lecture: Lyme Disease

Noon, Berkner Hall. David Graham, Director of Public Health of the Suffolk County Department of Health, will present an update on Lyme Disease. For more information, contact Linda DiPierro at Ext. 2733. The lecture will also be available live on a new video stream system accessible at personal workstations. See the notice on page 3 (top, left), for more details.

ESOL Celebrates Successful Program

On June 27, the English for Speakers of Other Languages (ESOL) program held an afternoon celebration at the Brookhaven Center to express "A World of Thanks" to all who contribute to the program. ESOL, part of the Quality of Life program in the Staff Services Division, gives free classes to help visitors, guests, employees and spouses with their English skills.

ESOL Program coordinator Jennifer Lynch welcomed attendees and gave an overview of the program and how it has developed, now providing ten classes for a greatly increased student base.

"It is so easy for those of us who speak English to take daily communications for granted and not realize how intimidating normal activities, like going to the store, can be for those who aren't yet comfortable with our difficult language," said Lynch, a dedicated specialist with an MA in ESOL.

Lynch introduced BNL Director Praveen Chaudhari, who spoke about some of his own experiences when coming to this country from India.

Lynch also introduced Tom Sheridan, BNL Deputy Director for Operations, and Brian Sack, Assistant Director for Finance & Administration. Both expressed their admiration of the program and its importance in helping draw together the Lab's international community.



Jennifer Lynch (seated, second from right), English for Speakers of Other Languages Program coordinator, is seen with other attendees at a celebration held to thank all who contribute to the program.

Certificates of appreciation were distributed to ESOL instructors and Literacy Volunteers of America tutors Helga Guthy, James Higgins, Samantha Lin, Deepali Mitra, and Linda Satalino. Yonda Ashley, a Patchogue-Medford Adult Literacy Consortium teacher, was unable to attend.

The success of these tutors was soon demonstrated by five of their students, who, as they were granted Certificates of Achievement on their advancement in English, each talked about the ESOL Program and how much it has helped them with daily interactions.

"I knew no English one year ago," said Lingyan Zhou, from China. "Our teachers give us confidence, and we also make friends from other countries."

Meirong Wang said that through what she learned at ESOL, she is able to take an active part in the Hospitality Committee's Cooking Club. "And the Club makes our Lab more colorful and our dinners more delicious!" she said.

Students Elizabeth Guzman, Mida Song, and Kyoko Sugihara, also among those who received certificates, all agreed that they had learned English, made friends, and understood more

about not only U.S. culture, but also the cultures of the other students' countries, through the ESOL.

The event ended with a surprise performance by ESOL student Ying Chang, who sang *Yesterday Once More*, originally sung by the Carpenters. Lastly, attendees enjoyed a cake provided by the Lab's caterers, FLIK, inscribed with "A World of Thanks."

"It was a truly memorable event," concluded Lynch.

Note: The ESOL program provides free classes in English for all levels of the language and organizes field trips and other events. For more information or to join classes, e-mail esol@bnl.gov.

Step Into Fall!

New fitness program for first 250 registrants

Step into Fall is a new walking program organized by Health Promotion Program Coordinator Michael Thorn of the Human Resources & Occupational Medicine Division. The program is designed to help everyone, regardless of current activity level.

Those who "step into fall" will take a goal of walking about five miles a day, using a pedometer to count their steps. Pedometers are provided at a discount price of \$6 each.

For the first two days on the program, participants will walk normally to find out how many steps they take on an average weekday. Then, each person will begin to increase the number of steps taken a day with a goal of 10,000 steps a day, approximately four-and-a-half to five miles, to gain physical benefits such as lowered blood pressure, reduced heart disease risk, and generally improved well-being.

To participate

If you would like to participate, on September 8, 9, or 10, from 11:30 a.m. to 1:30 p.m., attend a 15-minute orientation meeting in Berkner Hall, Room C. Bring a check for \$6 made out to BERA. You will receive your pedometer and instructions on how to use it, as well as your log sheet for the program. Registration is limited to the first 250 participants who register and pay for a pedometer.

Prizes

Incentives will be provided during the program, and two drawings will be held for prizes for those who complete and submit the log of their activities.

Start on Retirement Workshop, 9/4

Fidelity Investment representatives will hold a "Getting Started on Your Retirement" workshop from noon to 1 p.m. on Thursday, September 4, in Berkner Hall.

All are welcome to attend the workshop, which is part of the Human Resources & Occupational Medicine Clinic Division's "Money Talks" series. Participants will be helped to discover how they may create a retirement suited to their needs. Topics will include:

- How much money might be needed in retirement
- Why it is important to start saving today
- How even small amounts can add up to a more secure retirement.

Register for the workshop by completing the form sent to all employees and returning it to Joyce Wund, Bldg. 185, by August 22.

Roll Up Your Sleeve: Blood Drive, 9/10



To replenish Long Island's blood supply, BNL is holding a blood drive on Wednesday, September 10, from 9:30 a.m. to 3 p.m. in the Brookhaven Center.

Those eligible to donate are people in good health between the ages of 17 and 75 and weigh at least 110 pounds. Donors should have photo identification and know their social security number.

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

Lincoln Center Craft Show, 9/14

Join BERA for a bus trip to the Lincoln Center Craft Show on Sunday, September 14. See 400 displays of American crafts from all over the U.S. There will be food, music, craft demonstrations, and free time in New York City. The bus will leave BNL at 10 a.m. and depart the city at 5 p.m. Purchase tickets, at \$10 per person, at the BERA Sales Office, weekdays, from 9 a.m. to 3 p.m. For more information, contact Christine Carter, Ext. 5090.

Bus to Storm King Art Center, 9/27

Join BERA on Saturday, September 27, for a bus trip to the Storm King Art Center and Sculpture Park, located in Mountainville, N.Y., surrounded by the undulating profiles of the Hudson Highlands. Bring a picnic lunch as there are no food facilities, only vending machines. The bus will leave BNL at 10 a.m. and departs Storm King at 4 p.m. Purchase tickets, at \$12 per person, at the BERA Sales Office, weekdays, from 9 a.m. to 3 p.m. For more information, contact Christine Carter, Ext. 5090.

Jean Logan (cont'd.)

Hrbek added that Logan uses her method to perform all of the data analysis for the PET program, and she devises new methods to analyze kinetic data for different radiotracers. Further, he credited Logan with bringing "sustained recognition to the PET program and to BNL."

Jean Logan earned a Ph.D. from Louisiana State University. She joined BNL as a research associate in the Chemistry Department, and, in 1980, she joined the PET program as a chemical assistant. She was promoted to associate chemist in 1989, and to chemist in 1994. — Diane Greenberg

Arrivals & Departures

Arrivals

John Rowan Medical

Departures

Stephen Gushue NNS

Swim More, 8/25-29

During the week of August 25-29, the BNL Swimming Pool will be open all afternoon for BNL families, guests, and visitors, in addition to normal opening hours. The schedule during that week will be:

Employee Lap Swimming
11 a.m.-2 p.m.

BNL families, guests, visitors
2-8:30 p.m.

The Friday Night family swim will be held as usual, charging \$5 per family, 5-8:30 p.m.

For more information on facilities, fees, events, and BERA trips, go to www.bnl.gov/BERA.

Testing, Testing Healthline Is Online

On Thursday, August 21, if you cannot attend the Healthline lecture on Lyme Disease to be given at noon in Berkner Hall by David Graham, Suffolk County Department of Health, you will be able to see it from your workstation through a new, video streaming system.

Having the video stream available throughout the Lab is the result of the combined efforts of staff from the Photography & Graphic Arts Division, the Information Technology Division, the Instrumentation Division, and Staff Services.

To receive the video, you will need Windows Media Player, free with most personal computers. Then, on August 21, go to BNL's Homepage and click on the link that will be provided.

Feedback requested

All who view the program are asked to provide feedback on how well it works. This is a first-time test, and adjustments may be necessary. Send comments to video@bnl.gov.

Cycletrons Motorcycle Club Family Picnic

The Cycletrons, BNL's motorcycle club, invite all club members, their families, friends, and others who have an interest in motorcycles, to their 6th annual family picnic, to be held on Saturday, September 6 (raindate, September 13) at noon at the gazebo by the softball fields. Tickets cost \$5 per adult, children 12 and under are free. Hamburgers, hot dogs, salads, and soda will be available, with various games, a raffle, and much more.

Buy tickets from Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; or Frank Cetero, Ext. 2012.



Registration Open at Upton Nursery School



Roger Stouenburgh 02/20/03

The Upton Nursery School, a small, cooperative nursery school run by Lab parents, will begin on Tuesday, September 9. The school is open to children of all Lab employees whose children are ages 3 to 4 or who will be 3 by December 1, 2003. Classes are given on Tuesdays and Thursday, 9 a.m.-noon, in the Recreation Building in the apartment area. Two experienced teachers, one with New York State certification and both with Master's Degrees, teach the classes. The curriculum includes pre-kindergarten topics with a focus on language and social skills in a warm, fun, pressure-free environment. Children who do not speak English are welcome; the school has always had children from many different countries which makes the program an exciting cultural experience.

For more information or to obtain a registration form, go to www.bnl.gov/nurseryschool, or contact Cathy Lavelle, 369-3098 or lavellec@bnl.gov.

Donate New School Supplies

During August, BERA is sponsoring a school-supply drive to help local children, by collecting and donating pens, pencils, binders, calculators, backpacks, crayons, notebooks, markers, glue and other supplies to Brookhaven Town's Interface program, which will then distribute them to 18 local agencies. BNLers can drop off their donations at the BERA Sales office, Berkner Hall; the Quality of Life Office, Bldg. 179; and to any United Way captain's office. For more information, or to have items picked up, call Ext. 5090.

Auction of 35 Vehicles

The Government Services Administration will offer 35 motor vehicles, located at warehouse T-87, for public auction. The auction will begin during the week of August 17 and will last for approximately seven days, during which time anyone may bid on the vehicles. Pictures of each vehicle with pertinent information will be posted at www.gsaauctions.gov. To inspect the vehicles, call Jerry Quigley, Ext. 4527.

Classified Advertisements

THROW PILLOWS & TABLECLOTHS - 2 ft. sq., two maroon plaid, one maroon floral, \$5 ea.; matching 100 in. round tablecloth, \$10. Joyce, Ext. 3801 or 289-5770.

Tools, House & Garden

BLOWER/VACUUM - Ryobi Mulching blower/vacuum RGBV3100, good cond., \$15. John, Ext. 4028 or 821-5334.

COMPRESSOR - Brinks portable 1hp spray system w/2 spray guns, blowgun, hoses, 5-gallon pressure tank, \$100. Chris, Ext. 3172 or 821-2647.

LAWN EDGER - Toro, gas powered, \$75. Joe, Ext. 3783 or 929-8321.

LAWN TRACTOR - Roper 11hp, 42 in. grass catcher, runs well. Needs steering work, have parts, \$100. Steve, Ext. 4719 or 751-8240.

POOL VACUUM - robot type. \$100; GE refrigerator, 26 cubic ft., no frost, \$200. Jackie, 580-9642.

SAW - Sawsmith Radial Arm Dado Tools, blades, drill attachments, extra parts, bench, manual, \$100. Chris, Ext. 3172 or 821-2647.

Sports, Hobbies, Pets

BIKE - new, 20" wheels, \$30. Richard, 924-6751.

BIKES - (2) 20" Murray Mountain Bikes, over-sized, tubing tires, purple/red & deep blue, excel. cond., \$25 ea. Mary, Ext. 5124 or 758-0790.

TRUMPET - Jean Baptiste, Pt180, w/mute, \$100. Corinne 654-3697.

CLARINET - Bundy, plastic body, Vandoren 5RV mouthpiece, \$160. Gary, Ext. 2576 or 589-5490.

DOG KENNEL - chain link 10'x10'x6', tall, 1 yr. old, \$150. John Ext. 2021 or 758-4770.

DRUMS - Table set, 2 World Beat, \$100. Corinne, 654-3697.

DRUMS - 2 Djembe Remo, 14" head & hand-made 12" head, \$150. Corinne 654-3697.

EXERCISE EQUIPMENT - Rower, \$25, Life Rider Glider, \$30, dual-action cycle, \$30, 2 bikes like new, \$50 ea. Mike, 567-9362.

GOLF CLUBS - Wilson women's, never used, still in wrapping, \$200. Jackie, 580-9642.

Audio, Video & Computers

AUDIO STAND - silver, brand new, pd. \$200, ask. \$125. Mary, Ext. 2900.

COMPUTER - Compaq 500MHz, 64MB RAM, 10GB H.D., CDROM, Internet 10/100, Modem, keyboard/mouse, Windows 98, Compaq 17" CRT, speakers, \$150. Xiaosong, Ext. 3280.

ZIP DRIVE - 100MB, plus 10 disks, \$10 obo. Joyce, 289-5770.

KEYBOARD - Monophonic, Novation Bass Station Analogue Bass Synth., 25 keys, \$250. Corinne, 654-3697.

LAPTOP COMPUTER - Gateway, Windows XP, 1.33G, Celeron, 256 ram, 30gb, hard drive, CD/RW-DVD, Internet, modem, software, used 2 months, \$850 neg. Corinne, 654-3697.

TURNABLES - Professional dual DJ turntables, Numark Direct Drive, \$250, AM PEG, professional base cabinet 400W, excel., very lg., used once, \$400, obo. Corinne, 654-3697.

Miscellaneous

ATOMIC CLOCK - receives signals from US Atomic Clock to adjust automatically, alarm, digital, new in box, \$5. Peter, Ext. 2913 or 516-978-0137.

DECORATIVE WOOD CUTS - assorted shapes and sizes, \$10-\$100; heart-shaped chip-wood baskets, 3 sizes \$2-\$5; fabric for quilters, .50-\$2.00. Corinne, 654-3697.

STROLLER - Prego, navy/plaid, w/carriage cover, very good cond., \$60. Chris, Ext. 7365 or 472-3488.

TICKETS - 2 for US Open Tennis, Flushing Meadow Stadium, 9/2, 11 a.m., Section 330, Seats S 15/16, \$44 ea. Dave, 286-9725.

TICKETS - 2 seats to Penn State Football, 9/6, 9/20, 9/27, 11/15. Greg, Ext. 7810.

UNIQUE PIÑATAS - all occasions, all characters, cartoon, Disney, Sesame Street. Donna, 4547 or 821-0359.

Yard & Garage Sales

RIDGE - 31 Newcomb Trail, Lake Panamoka, NY, 8/16, 9 a.m.-4 p.m. John, Ext. 4639 or 929-6403.

MEDFORD - 12 Home Drive, 8/16, 10 a.m.-4 p.m., children's games, books, household items, call for directions. 289-9533.

Free

GUINEA PIGS - (2) w/full setups for both. Jackie, 580-9642.

AQUARIUM - 15 gal. tank and 5 lg. goldfish. Jean, Ext. 8581 or 744-6229.

PRINTER - HP desk writer 660c color printer. Denise, Ext. 2881.

Wanted

CAPTAINS BED - with drawers, good cond., reasonable price. Hsiao, Ext. 7505 or 689-8605.

CARSEAT - toddler, safety approved for 2 yr. old (30-45lbs.) Patricia, Ext. 3962.

POOL COVER - F/18ft., above-ground pool, round, also pump & setup for filter & vac. of pool. Robert, Ext. 7238.

RESEARCH VOLUNTEERS - men and women who smoke cigarettes, ages 18 and over, are needed for MRI study. Strictly confidential, fee provided. 344-2773.

VIOLIN CASE - 3/4 violin case. Yangang, Ext. 3266 or lyg@bnl.gov.

For Rent

BELLPORT VILLAGE - 2 bdrm., baths, w/lg. garden. \$1,000/mo. Available 9/15/03-4/15/04. Harry, 776-2781.

BELLPORT VILLAGE - 3 bdrm., FDR, new kit., furnished, garage, screen porch, deck, walk to water. \$3,000/mo. includes lawn maintenance & water. Available 10/1. Louisa, 286-9389.

CENTER MORICHES - 3-bdrm. ranch, full bath, eik, l/r, 1 1/2 car garage, full bsmt., w/d, yard, beach community, \$1,800/mo. + 70% oil & elec. Available 9/1. Peter, Ext. 4028 or 878-6505.

EAST MORICHES - single, non-smoker to share large house w/professional. Furnished, own bdrm. with a/c, cable, and phone, 300 ft. to water, 10 mil. to BNL. Hue-Anh, Pager 5314 or 744-8386.

FARMINGVILLE - Studio, very large, fully furnished, all utilities incl. \$750/mo. John, 732-2472.

HAMPTON BAYS - studio apt., on ground flr., 200 sq. ft., fireplace, kit., a/c, cable, furniture, use of pool, 1 mi. to Peconic Bay, 30 min. to Lab. \$800/mo., incl. all. Matt, Ext. 2238 or 723-0817.

HOLBROOK - 2 bdrm., immaculate, security system, full bath, vertical blinds, own thermostat, cable, priv. ent., patio, yard, no pets, non-smoker, \$1,250/mo., incl. utilities, 1 mo. security. Margaret, 467-4139, leave msg.

MEDFORD - 2 bdrm. basement apt., separate entrance, all utilities & cable incl. Non-smoker, no pets or children, \$1,000/mo. & 1 mo. sec. 698-9016.

MEDFORD - 1 bdrm. basement apt., private entrance and driveway, spacious, bright, 27 Ashton Rd., no pets, no smoking. Ref. ck. required, \$900/mo., incl. all. Peter, Ext. 4612 or 345-3490.

MIDDLE ISLAND - 2 bdrm. condo, 2nd flr. unit, 2 baths, l/r, d/r, kitchen, laundry facility, 179 Artist Lake Dr., 4 mi. from BNL. Call for apt., Sergey, Ext. 7851 or 516-381-2556.

MILLER PLACE - 4 bdrm., beautiful Colonial house, share kitchen and 2 baths. Use of washer/dryer, jacuzzi & swimming pool, \$500-\$600/mo. Bonnie, 516-318-0505.

MILLER PLACE - 1 bdrm. apt., fully furnished w/lg. living area. EIK, bath. Internet, TV cable and phone. Single, non-smoker. Hue Anh, pager 5314 or 744-8386.

NESCONSET - 3 bdrm., 2nd-fl. apt., kitchen, l/r, priv. entry, high spd. Internet & satellite avail. \$1,350/mo. Wayne, 384-6686.

NORTH PATCHOGUE - share elegant house, spacious bdrm., parking avail., close to Lab & shopping. Ozzie, 447-6899.

PORT JEFFERSON - 1 lg. bright bdrm. apt., Heatherwood House Apt. Complex, 1 yr./renew, heat/water incl., \$1,140/mo. Muchun, Ext. 8256 or 474-3856.

RIDGE - spacious 1-bdrm. apt., 10 min to Lab., eik, lg. l/r, full bath, priv. ent., no smoking. \$1,100/mo. util. incl. 821-1437 or mlheil@optonline.net.

RIDGE - border of Shoreham, 1 lg. rm. apt., new kit. & bath, 5 mi./5 min. to BNL, quiet development, avail. immed. \$800/mo. Incl. all. Gregory, Ext. 2278 or 344-2278.

RIVERHEAD - share house, 1 bdrm. apt. upstairs w/separate entrance, private bath, \$400/mo. + utilities. Sandra, Ext. 2228 or 447-1423.

RIVERHEAD - 1-bdrm. cottage, t/p, l/r/d/r, 1-1/2 car garage, half-basement, fenced, low taxes. Ext. 4884.

ROCKY POINT - 7 rm. house, cath. ceiling, airy 3 bdrm., 1 bath, 1/4 acre, quiet st., 1st-time rental, 15 min. to Lab, \$1,700/mo. Bob, 821-8347.

SHIRLEY - 2 bdrm. walk-in apt., l/r, eik, full bath, Tangiers area, \$1,300/mo. + 1 mo. security, incl. utilities, 399-1756.

WADING RIVER - 1 bdrm. furnished apt., private entrance, EIK, patio, \$850/mo., incl. all. Ext. 3670 or 929-5470.

WADING RIVER - 3 bdrm., 2 bath, lg. l/r, eik, hardwood/tile floors, master suite w/cathedral ceiling, garden, garage, available 10/1. \$2,400/mo. Ruth, Ext. 7226 or 929-5027.

CATSKILLS - 3 bdrm. chalet w/sleeping loft. Hunting, hiking, skiing, and swimming. Fully furnished. Bea, Ext. 3642, Kay, Ext. 4501.

DAYTONA BEACH FL. - 2 bdrm., 2 baths, pool, ocean views. Condo to rent by the week or month. Donald, 807-4668.

KEY WEST FL. - BNL disc. by day/week. In old town nr. boating & nightspots. See www.cypresskw.com, Dave, 1-800-525-2488.

LAKE ANNA VI. - waterfront, 4 bdrm., 3 baths, w/d, boat rental, swim, fish, jet ski, community boat ramp, cable, DVD, VCR, CAC, BBQ, \$1,500/wk., Paul, Ext. 3308.

OUTER BANKS NC. - vacation home, quiet cul-de-sac, walk to ocean, sun decks, screened porch, 2 master suites, pool, hot tub, billiard rm. more, 8/30-9/6, \$1,195/wk. Carrie, Ext. 2746 or 878-6968.

For Sale

MASTIC BEACH - Brand-new 3 bdrm., 2 baths, wide-line ranch, circ. driveway, garage, 140'x100', plenty of storage closets, phone jacks, cable & ceiling fans in every rm., extras. Cheryl, Ext. 2487 or 399-2263.

PORT JEFFERSON VILLAGE - 3 bdrm. Cape, 2 full baths, d/r, l/r, bsmt., garage, great rm. 20x27 w/cath. ceiling, t/p & wetbar. Move-in cond. on quiet dead end st. Taxes approx. \$4,000 per yr., \$449,000. Jack, 209-9621.

RIVERHEAD - 4 bdrm., 1.5 baths, on 1/2 acre, deck, finished bsmt., 11 yrs. old, cul-de-sac in quiet neighborhood w/tennis courts, playground. Taxes \$3,400 per yr., \$309,000. Ext. 6324 or 369-5442.

RONKONKOMA - 3 bdrm. ranch, SD#7, 1 1/2 baths, d/r, l/r, new eik, oak flrs., bsmt., garage, carport, lg. fenced yard. Taxes \$4,400 per yr., near all. \$310,000, 580-1432.

SOUND BEACH - New 3-bdrm. Colonial, 1/4 acre, Miller Place SD. \$325,000. Lynanne, 821-1271.

POMPANO BEACH FL. -Time-Share Gold (Red) 1997 Luxurious 1 bdrm., 4/6 occup., right on golf course, was \$10,500, must sell \$5,500, Alex, Ext. 5024 or 924-1866.

In Appreciation

I would like to thank all of my friends and former coworkers for the sympathy and thoughtfulness upon the loss of my husband.
— Mabel Evans and Family

Calendar

Thursday, 8/21 (cont'd.)

BERA Bridge Club

7 p.m., Brookhaven Center. Morris Strongson, Ext. 4192, mms@bnl.gov.

Saturday, 8/23

Bus Trip to the Cradle of Aviation

Bus departs the Rec. Bldg. at 1 p.m. and returns to BNL by 6 p.m. Tickets, \$20 for adults, \$15 for children ages 2 to 14, include bus transportation, admission into the aviation museum, a virtual reality ride, and an IMAX big-screen movie. To buy tickets, contact Jennifer Lynch, Ext. 4894, or lynch@bnl.gov. For more information about the Cradle of Aviation/IMAX movie theater, go to www.cradleofaviation.org.

Sunday, 8/24

Summer Sunday Tour

10 a.m.-3 p.m. Tour features BNL's Emergency Services and Plant Engineering Divisions. For more information, go to www.bnl.gov/bnlweb/pubat/summer_sundays.htm.

— WEEK OF 9/1

Tuesday, 9/2

U.S. Open Tennis Trip

\$62 per person includes day session ticket and bus transportation. For more information, contact Rita Kito, Ext. 3320.

Thursday, 9/4

*Retirement Workshop

Noon, Berkner Hall. "Getting started on Your Retirement," presented by Fidelity Investments. Check your mailbox for registration forms. For more information, contact Joyce Wund, Ext. 7516.

Saturday, 9/6

Cycletrons 6th Annual Family Picnic

Noon at the gazebo by the softball fields. \$5 per adult and children 12 and under are free. All are welcome. See notice, page 3. To buy tickets, contact Frank Dusek, Ext. 2022; Charles Gardner, Ext. 5214; or Frank Cetero, Ext. 2012.

— WEEK OF 9/8

Mon-Wed, 9/8-10

*Step Into Fall Program Registration

11:30 a.m.-1:30 p.m. Berkner Hall, Room C. Register for new walking program. See notice, page 2. Michael Thorn, Health Promotion Program Coordinator.

Tuesday, 9/9

Smoking Cessation Program

Noon-1 p.m. Small conference room, Bldg. 490. The Occupational Medicine Clinic's Health Promotion Program will sponsor six weekly sessions, noon-1 p.m., of a smoking cessation program directed by a certified nurse practitioner. Prescription medication and nicotine replacement products will be available to medically eligible participants. To register, contact Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

Wednesday, 9/10

*Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. All Lab community 17 to 75 years of age, who are in good health and weigh over 110 pounds, are welcome. All donors should have photo identification and should know their social security number. For more information, or to make an appointment, contact Susan Foster, Ext. 2888, or donateblood@bnl.gov.

Thursday, 9/11

Community Advisory Council Meeting

6:30 p.m., Berkner Hall, Room B. Open to the public. For more information, see www.bnl.gov/community/CAC.htm.

Sunday, 9/14

Bus to Lincoln Center Craft Show

BERA trip. \$10 per person. 400 displays of American crafts, food, music, demos. See notice, page 2. Buy tickets at the BERA Sales Office. Christine Carter, Ext. 5090.

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.

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/default.htm.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK3138. SCIENTIFIC STAFF POSITION – The Electron Microscopy Group affiliated with the newly established Center for Functional Nanomaterials (CFN) at Brookhaven National Laboratory (BNL) is seeking experienced electron microscopists in the areas of nanoscale electron-beam characterization of advanced materials. The group runs the Electron Microscope Facility at BNL which currently holds two transmission electron microscopes (JEOL3000FEG and JEOL4000EX) and several other electron optical instruments. A Ph.D. in physics or materials science with strong background in electron microscopy is required. Will be responsible for the day-to-day operation of electron microscopes (JEOL3000F and 4000EX) in the Materials Science Department at BNL, provide training and assistance to the microscopy facility users for the Nanocenter, and conduct research collaborations with researchers within the TEM facility as well as those from universities and industry. The instruments are versatile powerhouses for nanometer scale structural characterization in solid-state physics, chemistry, and materials sciences. They have a wide range of attachments with energy filtering, EELS, EDS, holography, Z-contrast and *in-situ* cooling and heating capabilities and a data acquisition system including CCD cameras and Fuji Imaging Plate system. A new generation electron microscope with a monochromator and two aberration correctors is scheduled to be delivered to BNL in a few months. Another electron microscope for specialized use in magnetic imaging and phase retrieval has been purchased. Under the direction of Y. Zhu, Center for Functional Nanomaterials.

MK3142. SCIENTIFIC STAFF POSITION – Requires a Ph.D. in physics or materials science with a strong background in scanning-probe microscopy and low-energy microscopy. Will be involved in the development of both experimental capabilities and a highly collaborative, multi-disciplinary nanoscience research program that couples to both BNL scientists and those from universities and industry. In addition, will be responsible for leading the effort in our growing proximal probe facility. The BNL Center for Functional Nanomaterials is one of five Nanoscale Science Research Centers supported by the Office of Basic Energy Sciences of DOE. The CFN will provide researchers with state-of-the-art capabilities to fabricate and study nanoscale materials. Under the direction of R. Hwang, Center for Functional Nanomaterials.

MK3139. POSTDOCTORAL RESEARCH ASSOCIATE – The Electron Microscopy Group affiliated with the newly established Center for Functional Nanomaterials (CFN) is seeking staff researchers in the areas of nanoscale electron beam characterization of advanced materials. Requires a Ph.D. in physics or materials science with a sound background in the relevant areas and associated computer knowledge. Research will be in phase retrieval using various methods including off-axis electron holography to study local distribution of electrostatic potential and magnetic induction in crystals and defects. The group runs the Electron Microscope Facility at BNL which currently holds two transmission electron microscopes (JEOL3000FEG and JEOL4000EX) and several other electron optical instruments. A new generation electron microscope with a monochromator and two aberration correctors is scheduled to be delivered to BNL in a few months. Another electron microscope specialized in magnetic imaging and phase retrieval has been purchased. Under the direction of Y. Zhu, Center for Functional Nanomaterials.

MK3140. POSTDOCTORAL RESEARCH ASSOCIATE – The Electron Microscopy Group affiliated with the newly established Center for Functional Nanomaterials (CFN) is seeking staff researchers in the areas of nanoscale electron beam characterization of advanced materials. Requires a Ph.D. in physics or materials science with a sound background in the relevant areas and associated computer knowledge. Research will

be in nanoscale crystallography, and measurements of charge density and chemical bonds using quantitative electron diffraction and synchrotron x-ray techniques. The group runs the Electron Microscope Facility at BNL which currently holds two transmission electron microscopes (JEOL3000FEG and JEOL4000EX) and several other electron optical instruments. A new generation electron microscope with a monochromator and two aberration correctors is scheduled to be delivered to BNL in a few months. Another electron microscope specialized in magnetic imaging and phase retrieval has been purchased. Under the direction of Y. Zhu, Center for Functional Nanomaterials.

MK3141. POSTDOCTORAL RESEARCH ASSOCIATE – The Electron Microscopy Group affiliated with the newly established Center for Functional Nanomaterials (CFN) is seeking staff researchers in the areas of nanoscale electron beam characterization of advanced materials. Requires a Ph.D. in physics or materials science with a sound background in the relevant areas and associated computer knowledge. Research will be in instrumentation development for the US-DOE Transmission Electron Aberration-free Microscopy (TEAM) project, including theoretical calculation, optical design and component test of new generation electron microscopes. The group runs the Electron Microscope Facility at BNL which currently holds two transmission electron microscopes (JEOL3000FEG and JEOL4000EX) and several other electron optical instruments. A new generation electron microscope with a monochromator and two aberration correctors is scheduled to be delivered to BNL in a few months. Another electron microscope specialized in magnetic imaging and phase retrieval has been purchased. Under the direction of Y. Zhu, Center for Functional Nanomaterials.

MK2584. RIKEN FELLOW – RIKEN is the research center focusing on the physics program of the Relativistic Heavy Ion Collider (RHIC), hard QCD/spin physics, lattice QCD and relativistic heavy-ion physics. The Center is playing a major role in developing the RHIC spin program. This position, which is a five-year appointment, will be offered for the fall of 2003. The group has seven members at this time, four Fellows and three Post-doctoral Research Associates. Members of the experimental division of the Center will have the opportunity to participate in the detector program at RHIC. Scientists with appropriate backgrounds who are interested in applying should send a curriculum vitae and three letters of reference to Dr. T.D. Lee, Building 510A, Brookhaven National Laboratory, P.O. Box 5000, Upton, New York 11973-5000, before September 1, 2003. Physics Department.

MK2585. POSTDOCTORAL RESEARCH ASSOCIATE – RIKEN is the research center focusing on the physics program of the Relativistic Heavy Ion Collider (RHIC), hard QCD/spin physics, lattice QCD and relativistic heavy ion physics. The Center is playing a major role in developing the RHIC spin program. This position, a two-year appointment with the possibility of a one-year extension, will be offered for the fall of 2003. The group has seven members at this time, four Fellows and three Post-doctoral Research Associates. Members of the experimental division of the Center will have the opportunity to participate in the detector program at RHIC. Scientists with appropriate backgrounds who are interested in applying should send a curriculum vitae and three letters of reference to Dr. T.D. Lee, Building 510A, Brookhaven National Laboratory, P.O. Box 5000, Upton, New York 11973-5000, before September 1, 2003. Physics Department.

MK3195. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in metallurgical engineering and research experience in extractive metallurgy, electrochemistry, and hydro-lab techniques (digestion of raw samples, performing wet and spectrometric analysis of metals). Experience with mathematical modeling and numerical solutions to momentum transfer, heat transfer, and mass transfer in metallurgical and materials process is a strong plus in addition to good oral and written communication skills and some experience with writing technical proposals. The objective of the research is to effectively recover and recycle conducting metals from CdTe and CuInSe₂ photovoltaic modules. This is part of the PV product and waste recycling activities of the National Photovoltaic Environmental Health & Safety Program operating at the Laboratory since 1980 under the auspices of the Department of Energy. Under the direction of V. Fthenakis, Environmental Sciences Department.

MK3461. MEDICAL FELLOW – Requires an MD, completion of a residency training program in the United States, in internal medicine, neurology or psychiatry, and eligibility for a New York State medical license. Research will involve participation in NIH- and/or DOE-sponsored research focusing on the application of neuro-imaging studies. Will conduct subject screening and evaluations, assist with research procedures, imaging data analyses, and manuscript preparations. Depending on experience, may also be involved in pre-clinical studies designed to validate or address specific questions related to drug abuse and neuropsychology of AIDS. Employment is contingent upon the successful completion of a background check by the Drug Enforcement Agency. Under the direction of L. Chang, Medical Department.

Motor Vehicles & Supplies

03 HAULMARK TRAILER - new 5 x 8 transport cargo, ask. \$1250. Clayton, Ext. 2360 or 516-779-0665.

02 HONDA SPORTTRAX 90 ATV - 4 speed semi auto trans, yellow & black, ask. \$2000. John, Ext. 5912.

01 FORD TAURUS - silver, 3L, 50K mil., a/t, a/c, all power, am/fm/cass., well maint., \$9,000. Henri, Ext. 8294 or 776-2779.

99 VOLKSWAGON PASSAT - excel. cond. in/out, a/t, a/c, p/s, p/b, p/w, 64K mi., 6-disc CD changer, all service records, 7.5K left on B/B warr., ask. \$11,500. Lou, Ext. 4312.

98 FORD F-150 - Lariat, pick-up truck 4.6L, supercab, loaded, excel. cond., 2-tone, w/tow pkg., 4wd, 36K mi., \$15,000. Kevin, 516-578-2662.

95 FORD T-BIRD - V8, sun top, good cond., all inspections, no rust, a/t, a/c, p/s, p/w, 125K mi., \$3,200. Jamal, Ext. 5805 or 804-2959.

95 FORD WINDSTAR - green, int. gray, dual a/c & heat, a/t, p/s, p/b, p/w, 64K mi., \$4,600. Gary, Ext. 2576 or 589-5490.

94 DODGE SPIRIT - a/t, a/c, p/s, p/b, p/w, 119K mi., runs well. \$400. Hiroki, Ext. 8087.

94 FORD MUSTANG - metallic blue w/ spoiler, v. reliable, V6, well maint., a/t, a/c, p/s, p/b, p/w, 136K hwy. mi., must see, \$3,500. Tom, Ext. 5741 or 473-3760.

94 MITSUBISHI MIRAGE S - a/t, a/c, p/s, p/b, p/w, 120K mi., clean, must sell. \$2,000. Bipul, Ext. 3056 or 344-1211.

93 ISUZU TROOPER - high mi., excel. running cond., needs brakes & front bumper, \$800 obo. Paul, Ext. 3308 or 821-3822.

93 JEEP WRANGLER - 5 spd., very clean, excel. cond., w/soft & hardtop, 93K mi., ask. \$5,700. Lillian, Ext. 8772.

93 TAURUS - clean in & out, runs well, \$2,000. neg. John, Ext. 2021 or 286-1805.

92 BUICK LESABRE - a/t, a/c, p/s, p/b, p/w, 131K mi., \$1,500, v. g. cond., gar., maint. ev. 3,000 mi., just inspected. Anthony, 929-4182.

92 INFINITI M30 - pearl white, orig. owner, 108K, leather, moonroof, a/c, p/s, p/b, ABS, p/seats, cruise, good cond. \$3,500. Herb, 928-0297.

92 MERCURY GRAND MARQUIS - maroon, full power, good fuel econ., v. clean, luxurious, 140K mi., \$3,000. Bob, Ext. 3401 or 744-6229.

89 VOLKSWAGON JETTA - Wolfsburg Edition, a/t, a/c, p/s, p/b, 89K mi., \$1,000. Walter, Ext. 4958 or 692-5326.

89 VOLVO - 240DL, 5 spd., a/c, p/s, p/b, 211K mi., good cond., runs well, records avail. \$1,500. Kathleen, Ext. 3926 or 929-6098.

88 JEEP CHEROKEE - LTD, 4 new tires, 135K orig. mi. & owner, \$2,950. Michael, 325-0447.

87 VOLVO 767 - 182K mi., good cond. \$1,000. Ext. 2058.

86 TOYOTA CAMRY - 5 spd., a/c, 94K mi., \$800. Pete, Ext. 5114 or 286-5918.

85 PONTIAC PARISENEEN - 4-dr. family car, 69K orig. mi., \$1,600. Joe, Ext. 4638 or 484-8806.

84 PACE ARROW MOTOR HOME - a/t, a/c, p/s, p/b, runs well, full bath, sleeps 5, 70K, \$4,000. Paula, 924-0139.

79 CHRYSLER LEBARON - classic 2-dr., 318 eng. a/t, p/s, p/b, 72K mi., new parts, runs well, \$1,500. Michael, Ext. 2050 or 281-2414.

74 CORVETTE STING RAY - green coupe w/t-top, a/t, a/c, p/s, p/b, 68K mil. excel. cond., \$10,500. Ed, Ext. 7786 or 929-5676.

69 JAWA MOTORCYCLE - 2-stroke, good cond. w/registration papers, best offer. Chris, Ext. 3172 or 821-2647.

ENGINE - 3.5hp Tecumseh, 2-stroke, runs well, orig. for snow blower, mounts easily, good for go-cart. \$75 neg. Travis, 289-9533.

ENGINE - 5hp go-cart eng., Briggs & Stratton Fun Power w/clutch, low hrs. \$120 neg. Travis, 289-9533.

GO-KART - New, Manco-Rattler, 6hp eng. w/torque-converter, shoulder harness, roll cage, skid plate, \$900, neg. Travis, 289-9533.

TIRES - 15", mounted & balanced on steel rims w/covers. \$25 ea. Paula, Ext. 3293 or 751-8240.

TIRES - (3) Firestone radials P215x75R15 mounted on 5-lug Chevy truck wheels, less than 1,000 mi. on ea., ask. \$15 ea. Warren, Ext. 3084, or 369-3730.

Boat & Marine Supplies

23' PROLINE 231 MERCURY O/B - '95 w/trailer, 200hp, low hrs., depth/fish finder, am/fm cass., walk around cabin, \$23,000. Dom, 277-1594.

15' BOAT & CANOE - aluminum Grumman Canoe w/paddles, excel. cond., \$425. Lloyd, 587-7876.

BOAT WINCH - 12-volt battery powered, used to haul in 16' boat, \$200. Richard, 924-6751.

SUNFISH - needs minor fiberglass work. \$400. Anne, 751-1126.

WINDSURFER - Beginner style, \$70, plus free lessons. Vyacheslav, Ext. 5437 or 929-4268.

Furnishings & Appliances

AREA RUG - 8' x 10' x 10", Lee's Natura (jute-look), tan taped with beige edge. 2 yrs. old, \$150. Gerhart, 650-3222.

AIR CONDITIONER - Carrier, 8,000 Btu, \$40. 751-8240.

THIS SUNDAY, 8/17

Relativistic Heavy Ion Collider



This Sunday, August 15, visitors to BNL will learn how thousands of researchers from across the country and around the world use BNL's Relativistic Heavy Ion Collider (RHIC) to learn about our material world. Travel through the RHIC tunnel of superconducting magnets, and tour the two largest detectors, PHENIX (see page 1) and STAR (above). See how this technology helps scientists explore the subatomic world, in their research for a better understanding of the beginning of the universe.

Every Sunday, in addition to the featured tour, visitors will see:

- "Brain Matters," a hands-on exhibit on the brain
- "Whiz Bang Science Show," at 10:30 a.m., noon, 1:30 p.m., and 3 p.m. Children and adults can learn scientific principles by watching lively, interactive demonstrations at this fun show
- Poster on the 2002 Nobel Prize in Physics won by BNL scientist Ray Davis
- Camp Upton Historical Collection: memorabilia from World Wars I & II.

Tour hours are between 10 a.m. and 3 p.m. Admission is free and no reservations are needed. To be admitted on site, all visitors age 16 and over must bring a photo ID.

AIR CONDITIONER - 8,000 Btu, \$50. Corinne, 654-3697.

AIR CONDITIONER - for window, excel. cond., \$50. Chris, Ext. 7365 or 472-3488.

BAR - Chinese inlaid design bar w/marble top, good cond., \$75. Lloyd, Ext. 5225 or 422-1033.

BED - king size brass, \$300. Box spring for king size bed \$100. Peter, Ext. 4272 or 331-9887.

COFFEE TABLES - futon, entertainment center & exercise bike, \$10 - \$15. Milind, 3327 or 331-6725.

COMPUTER CABINET - 52" Hx40"Lx24"D, light cherry wood, excel. cond., pullout keyboard tray & printer shelf, more storage areas. Paid \$500, ask. \$300. Mike, 567-9362.

COUCH/SLEEPER - Plaid couch/sleeper, excel. cond., \$50. Chris, Ext. 7365 or 472-3488.

CRIB - European style, wooden crib w/mattress 23x46", \$10. Vyacheslav, Ext. 5437.

CRIB - solid ash, good cond., \$50. William, Ext. 3748 or 331-6493.

DINING ROOM SET - pine w/42" dia. table plus (2) 12" leaves, 4 chairs, lg. hutch, excel. cond. \$1200. Ray, Ext. 5272 or 924-0361.

DINING ROOM SET - maple, oval table, 38x56, 2 leaves, 6 chairs, hutch, 9 drawers, 2 cupboards, "Moosehead" colonial style, good cond., \$400. Kathleen, Ext. 3926.

DINING ROOM TABLE - glass and metal, 29"H x 38"W x 61"L, expands to 86" L., ask. \$100. Joyce, Ext. 3801 or 289-5770.

KITCHEN TABLE - 4' x 3', oval w/4 chairs, mauve and teal fabric, good cond., \$200. Jerry, Ext. 2907 or 874-8259.

MATTRESS - full size w/box spring, \$200. Mary, Ext. 2900.

REDWOOD TABLE - w/4 benches, Kaufman Allied, 54 in. sq. 1 1/2" thick, excel. cond., \$150. Lloyd, Ext. 5225 or 422-1033.

WASHER/DRYER - Lady Kenmore heavy duty 90 series washer, Roper heavy duty electric dryer, XL capacity, both v. g. cond., \$150/ea. neg. Gregg, Ext. 7810 or 924-1752.

(continued on page 3)

This weekend . . .



in addition to spending quality time hypnotizing your tomatoes to turn red . . .



and spraying the latest batch of mold off the bathroom wall . . .

PLEASE buy a can of food for the BNL Food Drive. More food is urgently needed. No time to shop? Forget to bring in your donation? You can always send a check made out to BNL Food Drive, in care of Rita Kito, Bldg. 460, or Donna Wadman, Bldg. 129.

. . . buy a can for the BNL Food Drive