

## José Rodríguez to Receive Technical Achievement Award

José Rodríguez of the Chemistry Department will receive an Outstanding Technical Achievement Award from HENAAC, a nonprofit organization that honors the outstanding contributions of Hispanic American professionals in science, engineering, technology and mathematics. Rodríguez will be honored at the HENAAC Awards Show in San Diego on October 12.

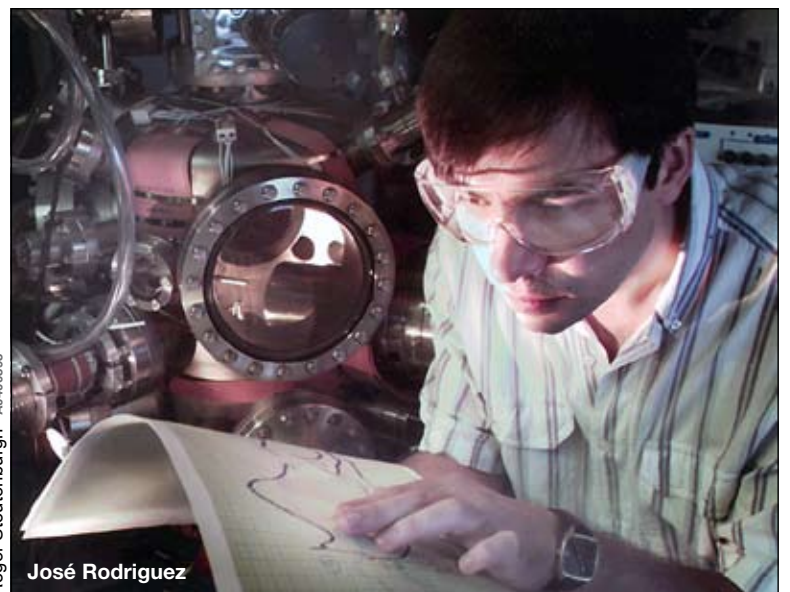
"I am honored to receive this award," said Rodríguez.

"My research on catalysts is entering a new phase with state-of-the-art tools available to me at Brookhaven Lab's Center for Functional Nanomaterials (CFN). My collaborators from Hispanic and American universities and I are studying catalysts that may optimize the production of hydrogen, which is expected to be the fuel of the future."

During his 16-year career at BNL, Rodríguez's primary research focus has been on cata-

lysts used for the production of clean, efficient, renewable fuels and for the control of environmental pollution. Rodríguez and his research team have made significant advances in these areas. For example, they recently studied gold deposited on ceria (cerium-oxide) nanoparticles at BNL's National Synchrotron Light Source (NSLS) and found the catalyst's active phase responsible for the conversion of water and carbon monoxide to hydrogen gas and carbon dioxide. Understanding this "water-gas shift" reaction is important for generating hydrogen, which can be used for chemical transformations as well as a fuel in a hydrogen-based economy.

In new research funded by the Office of Basic Energy Sciences within the DOE Office of Science, Rodríguez and researchers from the NSLS and CFN will combine their efforts with those of scientists from



Roger Stoutenburgh A0400898

José Rodríguez

the University of Barcelona, University of Seville, and Central University of Venezuela to investigate and improve the performance of nanocatalysts. They are studying a critical step in processing of pure hydrogen for fuel cells and other

industrial applications with the goal of gaining information on how several promising nanocatalysts function. The researchers' approach is unique because they will apply a suite of powerful research tools that

(continued on page 2)

### BSA Distinguished Lecture, 10/5 Astronomer Squyres on Science Results From Mars Exploration Rover Mission

Steven Squyres, a scientist with the Mars Exploration Rover Mission, will speak on "Science Results from the Mars Exploration Rover Mission" on Friday, October 5, at 4 p.m. in the Laboratory's Berkner Hall. The talk is sponsored by Brookhaven Science Associates, the company that manages BNL, to bring topics of general interest before the Lab community and the public. The lecture is free and open to the public. Visitors to the Lab age 16 and over must bring a photo ID.

NASA launched two Mars Exploration Rovers, on June 10 and July 7, 2003, primarily to probe the history of water on the red planet. After landing on Mars in January 2004, the robots began to explore the planet. One of the most important scientific goals of the mission was to find and identify a variety of rocks and soils that provide evidence of the past presence of water on the planet. To obtain this information, Squyres is studying the data obtained on Mars with several sophisticated scientific instruments. In his talk, he will discuss his conclusions about water on Mars and

other observations about the nature of the planet.

Steven Squyres earned a B.S. in geology and a Ph.D. in astronomy from Cornell University in 1978 and 1982, respectively. He joined NASA Ames Research Center, where he worked as a postdoctoral associate and research scientist for five years, returning to Cornell in 1987 as a faculty member. Currently, he is the Goldwin Smith Professor of Astronomy at Cornell.

Squyres has participated in many planetary spaceflight missions, including the Voyager mission to Jupiter and Saturn and the Magellan to Venus. He was a member of the Mars Observer team and a co-investigator on the Russian Mars '96 mission. In addition to his current position on the Mars Exploration Rover Mission, Squyres is also co-investigator for the Mars Express mission, a member of the Mars Reconnaissance Orbiter's High Resolution Imaging Science Experiment team, as well as a member of the Mars Odyssey mission and the Cassini mission to Saturn.

Among Squyres' honors, he received the H.C. Urey Prize from the American Astronomical Society in 1987, and the Carl Sagan Memorial Award in 2004. In 2007, he was awarded the Franklin Institute's Benjamin Franklin Medal in Earth and Environmental Science. Squyres is the author of *Roving Mars: Spirit, Opportunity and the Exploration of the Red Planet*, published in 2005.

— Diane Greenberg



Steven Squyres



## BNL's Instrumentation Division Builds the 'Brains' of Electronics

Their small, intricately placed hooks, lines, nubs, and circles look more like a piece of modern art than part of a machine. But these printed circuit boards are the so-called "brains" of sophisticated electronic devices in experiments throughout the Lab, supplying important data to everyone from nuclear physicists to biologists. Exposed to extreme environments such as high radiation, humidity, and cryogenic temperatures, these boards are not readily available in the commercial market. So the job is left to a group of scientists and engineers in the Instrumentation Division to design, fabricate, assemble and test the custom-made boards, a complex process that can take many months, and a lot of brain-racking, to complete.

### Putting Together the Puzzle

It all begins in the Printed Circuit Board Design Group, where designers click and drag their computer mice across what looks like brightly colored subway maps. When a new experiment is being planned, the project engineers work with the designers to construct the electronic boards, handing off a hand-drawn schematic that details the needed connections, components, and any additional requirements for the boards.

"Sometimes the schematics are even on paper napkins and we have to translate that into electronic format," said Design Group leader Anand Kandasamy.



Roger Stoutenburgh D092106

The Instrumentation Division's Printed Circuit Board Design Group: (from left) Anand Kandasamy, Kevin Wolniewicz, Ron Ryan, Kim Ackley.

Using computer software, the designers then start the layout, looking for the fit that keeps the connections as short as possible while incorporating the many necessary components. To help avoid confusion, each layer of the board is given a different color on the computer screen as the designers attempt to complete the puzzle.

"You need to know about electronic signals and intricate details about the boards and what they want to do," Kandasamy said. "Some people think it's just like connecting dots, but that's far from the truth." — Kendra Snyder

Part II, on what happens to the circuit board when the designers' work is finished and sent to the Printed Circuit Board Fabrication Group and the Assembly Group will appear in another Bulletin. To get the full story now, see [www.bnl.gov/today/static/instrumentation.asp](http://www.bnl.gov/today/static/instrumentation.asp)

### What is a Printed Circuit Board?

Printed circuit boards are used to support and connect electronic components using conductive pathways, or traces, etched from copper sheets laminated onto a non-conductive material. At BNL, they are used in a wide variety of devices — from particle detectors to caps used to study the brains of rats. In the same way that signals produced by your body, such as pain, would not mean anything without the brain to process and make sense of them, signals produced in experiments are no good without circuit boards. The complexity of the boards can vary greatly, from single-sided boards to multi-layered boards anywhere from 12-14 layers thick. Yet, even the most complex boards aren't much thicker than an eighth of an inch. Thanks to new machinery, technicians in the Instrumentation Department are capable of fabricating boards with as little as 1/1000th of an inch of spacing between conducting circuit lines.



### A Circular Board

Sometimes an experiment calls for something that breaks the mold of regularly shaped circuit boards. That was the case for the time-projection chamber in the Laser Electron Gamma Source (LEGS), a nuclear physics project at the National Synchrotron Light Source. LEGS, which ended operations in November 2006, required a circular, 11-layer board with unusual characteristics. After about eight months of innovative development, Technical Associate Designer Kim Ackley produced the final design.









# Then & Now Aerials of BNL, Part I, 1947-69



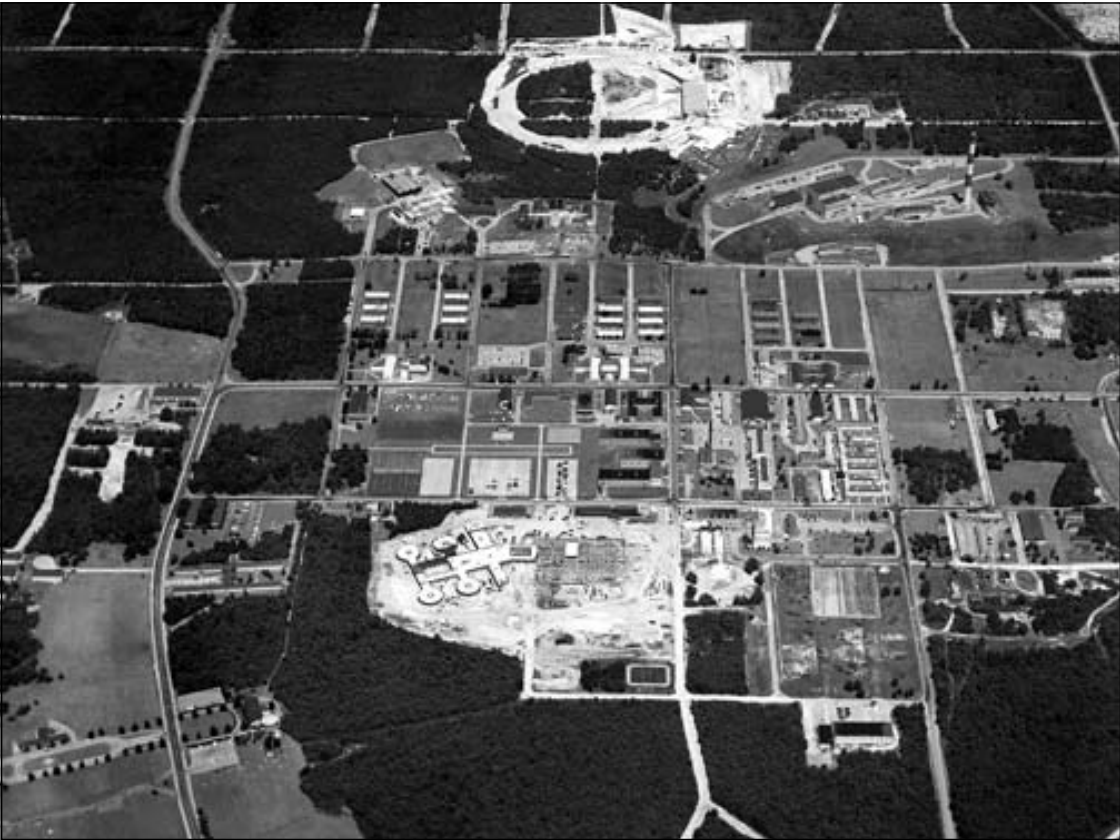
R.J. Walton A9-28-47



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## Dr. Mow Shiah Lin Scholarship — Award Ceremony, 10/2

The BERA Asian Pacific American Association (APAA) invites all to attend the Award Ceremony for the 3rd annual Dr. Mow Shiah Lin Scholarship, on Tuesday, October 2, at 4 p.m., in the Hamilton Seminar Room, Chemistry Department Bldg. 555. The award of \$1,000 will be presented to Yuan Sun, a graduate student in the Department of Materials Science & Engineering, Stony Brook University. Sun will present an introduction to her research, “Highly Crystalline Rectangular Palladium Nanoparticles: Colloidal Synthesis and Electron Microscopy Studies.” Refreshments will follow.

The APAA established the scholarship to honor the life and career of Mow Lin, a distinguished scientist in BNL’s Energy Sciences & Technology Department. The scholarship is granted annually to an Asian immigrant with a student visa matriculating toward a graduate degree at an accredited institution of higher education in environmental energy & technology, biology, or chemistry, commemorating the manner in which Lin began his career.

For more information, contact Susan Eng Wong, Ext. 7988.

## BERA News, Events

BERA offers a wonderfully varied list of trips and events to join — theater, shopping, art, sports — you choose. Check what’s available at the BERA Store, Berkner Hall, open weekdays, 9 a.m.-3 p.m., Ext. 3347, or [www.bnl.gov/bera/recreation/events.asp](http://www.bnl.gov/bera/recreation/events.asp).

(Above) Three-view panorama of the 1947 site from a tower

(Left) 1957. Main Lab site, looking north. At the top is the Alternating Gradient Synchrotron (AGS), with its one-half-mile in circumference magnet ring, which is housed in a tunnel under 12 feet of earth. Below and to the right are the Brookhaven Graphite Research Reactor and Hot Laboratory. To the left of the AGS is the Cosmotron building, and directly below is the nuclear engineering building. The central buildings include the physics, chemistry, and biology laboratories, and the administration building (H-shaped, center). Lower, left, is the new Medical Research Center, then under construction: the four circular buildings are 12-bed nursing units, with medical research laboratories connected on the right. The present (1957) Medical Department buildings are outside this view, off to the left. *Note: No High Flux Beam Reactor, no Bldgs. 555 or 510 or Berkner Hall.*

(Below, left) 1969. Main Lab site, looking north. At top left of center is the Alternating Gradient Synchrotron (AGS), then undergoing conversion, and its ancillary buildings. The 400-foot-long tunnel to house the new injector, a 200-MeV linear accelerator, is to the left of the main AGS magnet ring. To the right of the AGS are the Brookhaven Graphite Research Reactor and the Hot Laboratory; to their right is the domed containment vessel for the High Flux Beam Research Reactor (HFBR). Above the HFBR is the Department of Applied Science Building, to the right of which is the High Intensity Radiation Development Laboratory. Below the AGS is the cross-shaped Building 555, housing the Chemistry Department. The large building to the right of Chemistry accommodates the Physics and Applied Mathematics Departments. In the lower center is the Medical Research Center, with medical research labs connected on the right. To the right of this area are the Biology Department labs and greenhouses. In the center of the photo is the H-shaped Administration Bldg. 460. *Note: Major changes include Berkner Hall, which, it is rumored, was also known as “Flintstones’ Folly.”*

## TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Thursday and Friday, October 25 and 26, and Wednesday, October 31, to answer employees’ questions about financial matters. The consultant will help you: understand the importance of protecting assets against inflation, find the right allocation mix for you, and more. For an appointment, call Suzanne Leone, (866) 842-2053, Ext. 4601.

## BNL Music Club Sponsors Blue Grass Concert, 10/20 Featuring Buddy Merriam, Guest Dee Harris

A “Grand Ole Opry” concert featuring Buddy Merriam and Back Roads, with special guest Dee Harris, is scheduled on Saturday, October 20, at 8 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the event is open to the public. Visitors to the Lab age 16 and over must bring a photo ID.

Buddy Merriam and Back Roads is an all-acoustic bluegrass-style band playing traditional favorites and original tunes on mandolin, banjo and guitar. They have performed on Country Music TV and at many Long Island venues, the Grand Ole Opry, Nashville, and the kick-off for the New York City Marathon, and appeared to rave reviews abroad. Dee Harris is a self-taught blues guitarist, songwriter, and vocalist who plays a mixture of Appalachian, Celtic, and classical Indian music.

Tickets are \$15 each if purchased in advance at the BERA Store in Berkner Hall, or \$20 at the door on the night of the show.

## CALENDAR

### — THIS WEEKEND —

#### Friday, 9/28

**\*Lunchtime Tour: RHIC Tunnel**  
Noon-1 p.m. Berkner Hall lobby. Employees, users, retirees: meet to be taken to see the RHIC tunnel. Return by 1 p.m. See notice, p. 4.

#### Saturday, 9/29

**\*Concert: Two Southern Bands**  
8 p.m. B/haven Center. Music Club sponsored concert: the Lost Bayou Ramblers and Smokin’ Gun. Tickets \$15. See p. 4.

#### Sunday, 9/30

**\*BNL Walks for Cancer Research**  
8:30 a.m. Meet at Stony Brook Post Office. “Walk for Beauty.” Contact Joyce Fortunato, Ext. 4229. See p. 2.

### — WEEK OF 10/1 —

#### Monday, 10/1

**Month of Healthfest 2007 Starts**  
Fitness events to come: 2-mile walk, 5k Run, 8-mile mt. bike ride (w/5-mile alt. route), Table Tennis Tournament, 400-yd Swim & a Split Biathlon event. Register online, <http://intranet.bnl.gov/healthfest/> or call Co-chairs Denise Dimeglio, Ext. 2881, or Michael Thorn, Ext. 8612.

#### Tuesday, 10/2

**Laugh at Lunchtime**  
Noon-1 p.m. Berkner Hall, Room B. Bring lunch, enjoy “Attack of the Killer Tomatoes.” All welcome.

#### Thursday, 10/4

**Healthfest Fitness Walk**  
Noon-1 p.m. Outside the Science Ed. Center, Bldg. 438. Walk 2 miles with co-workers, at your own pace.

#### Friday, 10/5

**Talk on School Success**  
Noon. Berkner Hall, Room B. Joseph Connolly on “Great Expectations, Strategies for School Success,” including accessing special services for your child, bullying, etc. Contact Linda Dipierro, Bldg. 490, OMC, or [dipierro@bnl.gov](mailto:dipierro@bnl.gov).

**\*BSA Lecture: Mars Rover Mission**  
4 p.m. Berkner Hall. Steven Squyres, a scientist from the Mars Exploration Rover Mission, will give a BSA Distinguished Lecture on science results from the mission. All are welcome to this free talk. See story, page 1.

### — WEEK OF 10/8 —

#### Tuesday, 10/9

**Healthfest: Cancer Prevention Talk**  
Noon-1 p.m. Berkner Hall. Julia Hodorowski, RN, will speak on “Shedding New Light on Cancer: Prevention and Detection.” All welcome.

#### Thursday, 10/11

**Healthfest Massage Day**  
11 a.m.-2 p.m. Berkner Hall, Room B. Ten-min. massage by licensed therapist. Call Ext. 4567 to register.

**Healthfest Table Tennis Tournament**  
5-9:30 p.m. Rec. Hall, Bldg. 317. All levels of experience welcome. Register at [pings-L@lists.bnl.gov](mailto:pings-L@lists.bnl.gov).

#### Friday, 10/12

**Healthfest Mountain Bike Ride**  
Noon-1 p.m. Gazebo near ball field. Bring your own bike & helmet, ride 8 miles or 5 miles.

### — WEEK OF 10/15 —

#### Friday, 10/19

**\*BNL 60: Symposium, Reception**  
9 a.m.-5 p.m. Berkner Hall. Day-long symposium celebrating BNL science, followed by a reception. All are welcome. See p. 2.



## Classified Advertisements

### Placement Notices

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

**OPEN RECRUITMENT – Opportunities for Lab employees and outside candidates.**

**ASSOCIATE SCIENTIST –** Requires a Ph.D. in nuclear engineering or related field. Must have experience in using computer codes for neutronic and/or thermal-hydraulic analysis and an understanding of reactor behavior. Candidate will work with neutronics codes such as those based on lattice physics, Monte Carlo, and neutron kinetics and/or thermal-hydraulic codes such as RELAP5 and TRACE. The application of these codes is to design new nuclear energy systems or fuel management schemes or to assess the safety of existing or proposed advanced detectors. Candidate is expected to have a general background in nuclear engineering with some experience in working with large neutronic computer codes. The work would involve one or more of the following programs: a) the calculation of properties of the NIST (National Institute for Standards and Technology) research reactor in support of reactor operations and the conversion of the reactor to low-enriched fuel, and b) the analysis of light water reactor properties in support of safety issues being pursued by the U.S. Nuclear Regulatory Commission. Under the direction of D. Diamond, Energy Sciences & Technology Department. Send CV to [diamond@bnl.gov](mailto:diamond@bnl.gov), referring to Position No. KH 4490

**ASSOCIATE SCIENTIST-** Requires a Ph.D. in civil, structural or mechanical engineering and five years of experience in the commercial nuclear power industry. Experience in non-linear finite element analysis, soil-structure interaction, site response, seismic margin analysis, seismic probabilistic risk assessment (PRA), and containment fragility assessment is also desirable. Candidate would carry out structural, seismic, and civil engineering projects and deliver project specific products and services to customers in accordance with contractual requirements; identify opportunities for expanding programs, and identify the best technical approach to assigned projects. Under the direction of C. Hofmayer, Energy Sciences & Technology Department. Send CV to [hofmayer@bnl.gov](mailto:hofmayer@bnl.gov), referring to Position No. KH 4489

**RECORDS MANAGEMENT ASSISTANT (A-2) –** Requires a bachelor's degree or equivalent; experience in records management or related field; and a working knowledge of records systems and their applications. Experience using Microsoft Office applications; demonstrated ability to communicate effectively both orally and in writing; the ability to work with all levels of personnel with tact and diplomacy; analyze problems, develop alternatives and make recommendations is necessary. Experience in micrographics, archives or other records management-related functions is desired. Must be able to work independently within established procedures and handle a variety of responsibilities, including non-routine matters. May have frequent contacts within and outside the Laboratory and may direct the work of other support personnel. Must be able to physically lift boxes of records, which may weigh up to 30 pounds. Information Services Division. Send resume to [dianah@bnl.gov](mailto:dianah@bnl.gov) referring to Position DH 2299.

### Motor Vehicles & Supplies

06 JEEP WRANGLER UNLIMITED - a/t, a/c, p/w, 4x4, 6 cyl., blue. 6000 mi. \$17,777/neg. 903-3383.

02 HONDA ACCORD EXL COUPE - silver, 6 cyl., fully loaded, excel. cond. 48K mi. \$13,000/neg. Maryann, Ext. 4705.

01 NISSAN ALTIMA GXE - a/t, a/c, abs, dual air bag, p/w, p/l, am/fm/cd, excel. cond., ext. serv. contract. 69K mi. \$7,500/neg. Ext. 3939 or 790-6529.

99 CHRYSLER 300M - leather int., all pwr, well maint'd, runs well, new brakes. 147K mi. \$3,500/neg. Ext. 3050 or 278-6255.

99 HONDA CIVIC - 4dr., a/c, rem. ent., grt. cond., runs well. 153K mi. \$5,500/neg. Ernie, Ext. 7406.

98 DODGE NEON - 4 dr., a/t p/s p/b, am/fm, cd, gd. running cond. 71K mi. \$2,500/neg. 645-4769.

98 JEEP WRANGLER SAHARA - 6cyl, a/t, a/c, h/s tops, r/rack w/lts, grill guard, hitch mt. bike racks, 40K mi. \$12,500. Ext. 4994 or 332-0240.

98 FORD EXPED. XLT - 4WD, 5.4 ltr, 3rd seat, lthr, 6 CD, loadd, excel. cond., KBB val. \$8,100. 128K mi. \$6,500. Rich, Ext. 7294.

97 DODGE 1500 PICKUP - club cab, short bed, 4wd, V8, 5.9L, a/t, CD, bed lnr, towg pkg, excel. 122K mi. \$5,500. Ext. 7647.

96 CHEV CORVETTE - v8 at, removbl roof panel, gd brakes/tires, grt stereo. 87K mi. \$15,500/neg. George, Ext. 5214.

95 FORD EXPLORER XLT - 4WD, a/c, abs, looks/runs well, v. dependable. 194K mi. \$1,950. Ext. 7251 or 516-924-4299.

93 BMW 525i - blk w/alloy rims, gd. running cond., 2 extra tires on orig. rims. 150K mi. \$4,250. Ext. 2897.

86 TOYOTA CRESSIDA - 6 cyl., a/t, p/s, p/b, a/c, blk/green, gd. cond., nr. new tires. 170K mi. \$1,500/neg. Kelvin, Ext. 3828.

84 CHEVY MONTE CARLO SS - all orig., 2 owner car, always maint'd, great cond. \$2,500. Rich, Ext. 7294.

### Boats & Marine Supplies

23' SUNRUNNER 230SB - 84 Midcabin cruiser FWC225 hp Volvo Penta IO full galley head aftcabin shore power canvas great cond \$4,875. Robert, Ext. 4867.

23' PRO-LINE WALK AROUND - 1981, 200 Hp Evinrude, Trailer-1982, 1 fam. since 1982, solid boat, motor rebuilt, needs TLC, \$4250. Nick, 653-8251.

### Furnishings & Appliances

CHAIR - wing, gd. cond., beige w/green & gold flecks, \$75, must pkup. Ext. 7647.

CORNER COMPUTER DESK - w/2 matching bkcases, like new cond., Pic. avail. \$450, mb@bnl.gov. Mary, Ext. 3670.

DINING SET - carved wood, glassed-in hutch, table w/leaf, 6 chrs. \$95. Ext. 2346.

DINING TABLE - oak, w/4 upholstered chairs/protective pads, 2 leaves, have pics, \$500. 909-1498.

FREEZER - Frigidaire 14 cu ft., like new, excel. cond., \$150. Katherine, Ext. 2269.

OAK TABLE - antique, 54" round, split pedestal/hidden leg, 6 extrn. leaves, cust. pads, 8 matching chs, 2 captain's. 878-0898.

PIANO - upright, excel. cond., can mail the pics. & aprsl, \$750. Ext. 7806 or 476-4983.

RANGE - Magic Chef, gas, excel. cond., im-mac., incl. broiler tray, ask/\$100. Ext. 2705.

VANITY & MEDICINE CABINET - solid cherry, new cond., orig. price \$230.23 & \$144.55, 24" x 21.5" w, 34" h; 24" l, 17" w, 31" h. 878-1037.

### Audio, Video & Computers

COMPAQ NOTEBOOK PC - CD/DVD software windows vista like new. Ext. 2381.

PANASONIC HDTV - 36" Tau series, top line flat scrn tube, prist. cond. 2 compon. inputs, S video AV input \$500. 744-4061.

PIANO - Emerson console w/bench, excel. cond., must sell, ask/ \$575. Ext. 4867 or 278-2192.

SPEAKER STANDS - 2, adjustable, great cond., \$30/pr. 921-8202.

TV - 20" RCA w/remote, exel. cond. \$50. Paul, 786-1513.

USB FLASH DRIVE - Kingston, DataTraveler, 1GB, \$10. Yugang, Ext. 3485.

### Sports, Hobbies & Pets

CELLO - full size, made in Germany, 1950's, excel. cond., new case, \$5,700. Stephen, Ext. 4475.

TREADMILL - v gd. cond., flat/incline, programmable, b/o. Betty, Ext. 3562 or 758-2653.

### Tools, House & Garden

KITCHEN SUPPLIES - Utensils, pots, balance, plates, cups, multiple socket, elec. kettle, measurg dev., etc. Jo, Ext. 4262.

NEW SHED - 8x8, on 4-4x4 treated 4' dr. 25 yr. roof., viny vents, painted any color, \$1200/neg. George, Ext. 5214.

SPREADER - Radio Flyer, like new, \$15. Susan, Ext. 7235 or 399-7997.

### Miscellaneous

ENGAGEMENT RING - Marquise cntr stone 10 round diamonds, 20 baguette diam.s on sides. 14kt, ask/\$1,000. Ext. 2269.

MIKASA CHINA - beautiful, white w/platinum edging, 11 sets, pics. avail., \$35/set, mb@bnl.gov. Mary, Ext. 3670.

OLD SCIENCE FICTION - 17 boxes, 1940s-70s, paperbacks, pulps, ~15 first ed. hd-cvrs, grt artwork, \$750 all. Ext. 4477.

TICKETS - 2 for Baller Folklórico de Mexico, Staller Center, Friday, October 12, 8 p.m., \$37/ea. Alejandro, Ext. 5334.

### Free

COMPUTER SPEAKERS - Radio Shack, keybrd., ink jet printer & mon, work excel., U pick up. Judy, Ext. 5263 or 375-7959.

KITTENS - 2 males, 1 blk, 1 tiger striped, vet shots, houses trained, need a home. 928-8112.

### Wanted

2-BEDROOM APT. - needed asap, Pt. Jeff./Pt.Jeff. Sta., Mt. Sinal, Setauket, must accept dog. Ext. 3536.

DOORS - sliding/double hung/interior and steel glass. Bobbi, 291-0245.

LAPTOP - working, reasonable, not too old. Ext. 2346.

TICKETS - 2 concert tickets for Natalie MacMaster at Staller Center for the Arts on Oct. 13. Ext. 2524.

### Lost & Found

MISSING KEY - single missing key, no ring or other attachment, lost along route of NSLS-Technology-Bell-Center-gym. Anna, Ext. 7132 or 793-4551.

### For Rent

BROOKHAVEN - 1 bdrm., kit., bath, incl. ht, cable, elec. no smkg/pets, off st. prkg., 12 mins. to Lab, \$950/mo. 924-3492.

ENGLEWOOD, FL - Boca Royal, 2 bdrm., 2 bath, unfurn'd, in gated comm., incl. all appli., pool/golf, \$1,200/mo. 929-8400 or 744-9746/eeve..

LAKE RONKONKOMA - Rent My Quaint Apt! 1 bdrm, l/r, eik, full bath, pvt. ent., own thermostat, cable/util. incl., nr LIER/ LIIR, no smkg/pets, avail. 11/1. \$975/ mo. Susan, Ext. 4410 or 467-1787.

LENEX, MA - 2 bdrm. timeshare unit, avail. 11/17th - 24th. \$800/mo. 909-1498.

MASTIC - 2 bdrm. house, 1/r, d/r, kit, 1 bath, w/d in bsmt., no smkg/pets, util. not incl., 1 mo. sec., avail. 10/15/07. \$1,350/ mo. Carol, Ext. 6033 or 447-6250.

MASTIC BEACH - 4 bdrm. ranch, quiet st. near water, full bath, 100x100 property, sec. \$1,500/mo. Ext. 7658 or 495-2596.

ROCKY POINT - fully furn. 2 bdrm. home, 1 bath, lg. lr w/fp, outside deck, 15 min to Lab, heat & elec. incl., ref. req. \$1,500/ mo. 718-746-3987.

SHIRLEY - 1rm, m/wave kitnet, furn, full bath,sep ent, tv, elect, heat, cable, wireless int, all incl, 1 mo. sec, 5 min to stores/beamh, 15 to Lab, no smkg/p \$600/mo. Ext. 8321.

SHIRLEY - 5 bdrm., 2 car gar., screen rm., 2 kit., 2.5 baths, lr, dr, full bsmt. \$2,400/ mo. Joseph, Ext. 2982.

SHIRLEY - 1 rm, stove kit., furn., full bath, sep ent, tv, elect, cable, heat, wireless int, all incl., 5 min to stores/beamh, no smkg/pets, 15 to Lab,1 mo/sec. \$650/mo. Ext. 8321.

SHOREHAM - share house w/professional, part furn. bdrms., 7 mi. from BNL, int. & tv incl., no smkg. \$600/mo. 413-1966.

SHOREHAM - lr-br combo, eik, walk/n clst, bathrm w/shwr stall, off st/prkg., sep. ent, elec/cable/heat incl., 1 mo. sec., sm. well behvd pet for addtl sec. \$825/mo. 849-2593.

STONY BROOK - family cape, 3 bdrm. 1 ba, lg. lr & dr, quiet cul-de-sac, walk to campus, opt/furn'd, excl. util. \$1,900/mo. 632-8099/203-664-1046.

STONY BROOK - 1 br, l/r, bath, grd. flr. w/priv. ent., quiet walk to campus, opt./furn'd, \$800/excl. util. \$800/mo. Michael, 632-8009;203-664-1046.

YAPHANK-MIDDLE ISLAND - lg. newly decorated, fully furn. studio apt., priv. home, sep. ent., for 1 person, high spd., incl. all. \$850/mo. Irene, 924-3049.

### For Sale

BELLPORT - 4-BR. ranch, 2 bth, l/r w/dble opening fp to den, d/r, eik, oak flrs, screened deck on priv. yard, laundry rm, fin. bsmt: w/4th BR, bar, full bth, 2 rms; gar., 2 sheds, sprinklers, gt. cond. \$425,000; 949-7797.

BLUE POINT - Col., 5 bdrm. or poten. Mthr/Dghtr, 2 bath, l/r, d/r, kit., bsmt./crawl space, porch, 1.5 car gar., fen. yd., low taxes. \$429,000/neg. Ext. 5025 or 286-1540.

HOLBROOK - 2 bdrm, 1.5 bath, Condo a/c, f/p, kit., l/r, w/d, new wndws, applis., alarm, patio, Sachem dist., low taxes, pool, tennis, mve-in cond. \$309,999/neg. 766-1492.

MEDFORD - updated 3 bdrm. Condo in Blue Ridge Devel, for more details go to [www.forsalebyowner.com/20793141](http://www.forsalebyowner.com/20793141) \$315/neg. Eileen, Ext. 3995 or 790-4629.

SHOREHAM - 4 bdrm, 2.5 bath Col., l/r, d/r, lg. eik, den w/fp, 2 car gar, fin. bsmt., igs, more, \$569,000/neg. Don, 821-3320.

SHOREHAM - beautiful 5 bdrm., 3 bath Victorian, 3100 sq. ft., .69 acre lot, cac, igrp., 2 car gar., formal d/r, bsmt., MLS 1978405 \$689,000 Jim Menno, 831-3140.

WADING RIVER - 4 br, 3 bath Colonial, fin. nsmt, lr/w/fp, 1/2 acre beautiful property, SWRSd, low taxes. \$529,000/neg. Beverly, 516-381-8016.

S. ROYALTON, VT - 2 homes w/3.5 acres, priv. 1st home 2 bdrm, 1 bath, finbsmt, gar, wbs, w/d; 2nd home 1 bdrm, 1 bath, bsmt, washer, wbs, w/furn.+ extras, pics avail. \$330,000/neg. Ext. 7125 or 466-8637.

### On-Site Services

ENTERPRISE RENT-A-CAR - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see [www.enterprise.com](http://www.enterprise.com).

ON-SITE SERVICE STATION - gas, all vehicle services: NYS inspections, new batteries, tires, timing belts, etc., we also service starter motors for boat engines. Done while you are at work. Ext. 4034.

## Lunch Tour Today: RHIC Tunnel, 9/28



Roger Stoutenburgh C18-52-96

Below the surface of the BNL site lies one of the world's wonders of engineering and physics. The Relativistic Heavy Ion Collider tunnel will be featured today, Friday, September 28, on the employee lunchtime tour. All are welcome — employees, facility users, and retirees — to join the group, which will meet in Berkner Hall lobby at noon and return to Berkner by 1 p.m. No reservations are required. All members of the group must wear required safety clothing of long pants and long sleeves and closed toed shoes in order to enter the tunnel. For more information, call Ext. 2400.

## Great Art/Great Market Bus Trip, 10/13 See Landscapes by Impressionist Renoir, Taste and Stock up at Philly Farmers' Market

Seats remain to be filled on a Great Art/Great Market trip organized by BERA for Saturday, October 13. The 1865-1883 landscapes of Auguste Renoir, one of the most popular of the Impressionist artists, are on exhibit at the Philadelphia Museum of Art, and the Lab community group is booked for a special tour to see them at noon that day. In addition to the Renoir, you can see other great works at this renowned museum, which is particularly known for its collections of Pennsylvania German art, 18th century and 19th century furniture and silver by early Philadelphia and Pennsylvania craftsmen, and works by Philadelphia artist Thomas Eakins.

The group will then go by bus to another magnificent Philadelphia landmark: the huge, undercover Reading Terminal Market. There, the Harvest Festival will be in full swing, you can splurge on artisanal foodstuffs and sip beer or wine, eat worsts and Philly cheesesteak, check out one of the best second-hand book stalls you will ever find — and more. The cost of the bus and museum entry is \$35. Buy tickets at the BERA Store in Berkner Hall, Ext. 3347, weekdays, 9 a.m.-3 p.m. The bus will leave the Brookhaven Center at 7:30 a.m. and leave Philadelphia at about 4:30 p.m.

## Southern Dance Party Tomorrow, 9/29 Featuring the Lost Bayou Ramblers, Smokin' Gun



Sponsored by the BNL Music Club, two outstanding bands — the Lost Bayou Ramblers and Smokin' Gun, both southern music players, will perform tomorrow, Saturday, September 29, at 8 p.m. at the Brookhaven Center. Even if you don't dance, you'll tap your feet! All are welcome to this fun event, which is open to the public. Tickets are \$15 each and may be bought at the BERA Store, weekdays, 9 a.m.-3 p.m. Visitors to the Lab of 16 and over must carry a photo ID.

NAYYARSONS CATERING - Cafeteria: b/ fast: wkdays, \$2.99 up; lunch: \$4.95 up; grill, \$6.50 up incl. fries, soda; Fridays, Catch of Day, from \$5.99; see link on BNL homepage or Ext. 4636 or 3541; B/haven Center - full menu dinners 5-8 p.m.; specials 5-6:30 p.m. 3-course, wine/soda, coffee, \$10.95 or \$9.95 (no take out); all plus tax.

### Service Ads

A wide range of services advertised by BNL employees are available at <http://intranet.bnl.gov/ads/displayAdsAll.asp> on the intranet homepage on site. Or request from [bulletin@bnl.gov](mailto:bulletin@bnl.gov) or phone Liz Seubert, 344-2346.

