

Discover's 2007 Top 100 Science Stories Include NSLS Black Diamond Research

The discovery of the origin of Earth's so-called black diamonds at BNL's National Synchrotron Light Source was ranked 60th among the top 100 scientific stories of 2007 by *Discover* Magazine. The article, which details "the trends and events that most changed our understanding of our world," appears in the magazine's January 2008 issue.

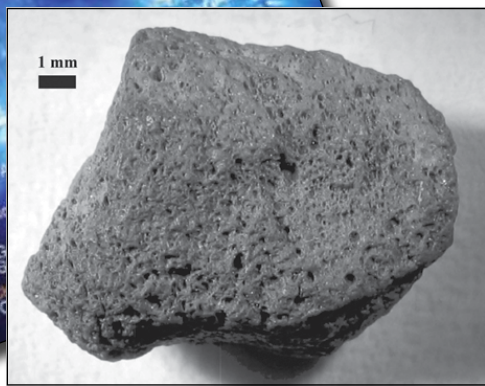
At beamline U2B, which is operated by the Case Center for Synchrotron Biosciences, scientists Sandeep Rekhi and Mark Chance, both of Case Western Reserve University, in collaboration with Jozsef Gari

and Stephen Haggerty, both of Florida International University, used infrared light to analyze the elemental makeup of these unique black (or carbonado) diamonds. Found only in Brazil and the Central African Republic, carbonado diamonds which resemble porous charcoal and have long been thought to have extraterrestrial origins.

The researchers' work supported that theory by revealing the presence of hydrogen and the lack of nitrogen aggregates. These findings indicate that the diamonds originated in interstellar space, possibly raining down on Earth inside of an asteroid billions of years ago. Their results were published in *Astrophysical Journal Letters*.

Discover's top 100 science stories will be posted online in groups of 10 throughout January.

— Kendra Snyder



Front: A black, or carbonado, diamond. (Image courtesy of Steve Haggerty, Florida International University.)

Back: January 2008 cover of *Discover* Magazine

432nd Brookhaven Lecture, 1/24 Jim Murphy: 'At the Cutting Edge Of Bright Beams: The NSLS Source Development Lab'

Inspired by the myriad of discoveries with synchrotron light at the National Synchrotron Light Source (NSLS) and similar facilities around the world, researchers are always looking for more brilliant beams of light. To develop this next-generation of light sources, the accelerator physicists at the NSLS Source Development Laboratory make use of a magnesium photocathode irradiated by ultraviolet laser light to produce electron beams of unprecedented brightness.

To learn more about this forefront research, join James Murphy, NSLS Deputy Chair for Accelerators & Operations, at 4 p.m. on January 24 in Berkner Hall as he gives the 432nd Brookhaven Lecture, titled "At the Cutting Edge of Bright Beams: The NSLS Source Development Lab." All are welcome to this free lecture, open to the public. Note that this lecture is on a Thursday, not on the usual Wednesday. Visitors to the Lab of 16 and over must carry a photo ID.

As Murphy will describe in

his talk, he and fellow researchers have developed various techniques to catch molecules and atoms in action. In one recent study, the researchers used a laser to control the pulse duration of light from a free electron laser, a type of light source with a potential peak brightness up to one billion times higher than that of ordinary synchrotron light.

In another technique, Murphy and colleagues generated extremely short pulses of terahertz radiation that are the highest intensity of their type ever produced. Using this very intense light, researchers can "kick" molecular processes such as catalysis or electronic switching (important for developing data-storage media) into action and watch their mechanisms on a very short timescale. The intense sub-picosecond electron beams at the Source Development Laboratory are also being advanced to serve directly as a probe of materials in future ultrafast diffraction experiments (UED).

BNL Accelerator Physicists Achieve Record Luminosities at RHIC



Gathered in the Main Control Room with machine run coordinator Kip Gardner (front, center) are many members of the accelerator physics team that achieved record improvements in luminosity at the Relativistic Heavy Ion Collider for the ongoing experimental run colliding deuterons with gold ions.

Accelerator physicists at the Relativistic Heavy Ion Collider (RHIC) are achieving record luminosities, or collision rates, during the ongoing run colliding deuterons with gold ions.

"Thanks to many improvements, during this run we can deliver in four days the same number of collisions we delivered in 10 weeks during the 2003 deuteron-gold run," said Wolfram Fischer, Deputy Head of the Accelerator Division in the Collider-Accelerator Department.

Improvements were made in almost all areas. To allow acceleration and storage, the deuteron and gold beams are not continuous, but packaged in "bunches." A vacuum system, upgraded over the last few years, allows the acceleration and storage of 93 instead of only 55 bunches, and improvements in the injector system allow more than 1 billion gold ions to be packed in a bunch, 40 percent more than in 2003. At the collision point, the beams are less than half the size they were in 2003. Significant progress was also made in controls, instrumentation, data analysis, and refrigerator efficiency. Last but not least, after many difficulties last year, the availability of all systems has visibly improved.

A significant portion of the increased luminosity is due to the physicists' ability to keep the gold ions tightly packed within the bunches, so that more ions collide as the two beams cross. This tricky accomplishment is a result of the

successful implementation of something called "stochastic cooling" at RHIC. As in all charged particle beams, RHIC's ions tend to spread out — they heat up — as they circulate in the accelerator. RHIC physicists Mike Blaskiewicz and Mike Brennan have devised ways to measure this intrabeam scattering and send signals ahead of the racing beam to apply a corrective electric field that re-squeezes the beam when it arrives.

Said Fischer, "Every run is truly a team effort, which cannot be undertaken without the whole department. However, there are always some outstanding individuals. To name a few, Kip Gardner, the machine run coordinator, and Mike Sivertz, the scheduling physicist, coordinated the machine work and interface with the experiments essentially around the clock. Dejan Trbojevic's analysis of how small the beams can be made led to one of the largest luminosity increases compared to 2003, and his calculations were implemented by a large and dedicated team led by Fulvia Pilat. The work of Don Bruno, Wing Louie and their team reduced the power supply failure rate significantly. Accelerator physicists Todd Satogata and Vadim Ptitsyn, together with the operations teams, established an efficient operation. The record luminosities resulting from these and all the other contributions have made a great difference in the amount of data that the experimenters will have available." — Karen McNulty Walsh

James Murphy earned his Ph.D. in physics from Dartmouth College in 1982. He joined the Accelerator Physics Group at the NSLS in August 1983 as a postdoc to work on free electron lasers and laser acceleration schemes. As a tenured staff member at the NSLS, he has pursued his interests in the physics of high brightness electron beams for the development of new synchrotron light sources and free electron lasers.

Beginning in December 2001 as NSLS Associate Chair for Accelerators, Murphy led the accelerator team in the preliminary design of the NSLS-II storage ring through the important CD-0 milestone in FY05. Together with a team of dedicated NSLS colleagues, he has expanded the Source Development Laboratory into a world-class facility for laser-seeded free electron laser and high-brightness beam

research and development.

Currently, Murphy is in charge of development of the NSLS storage ring complex and the vibrant research program at the Source Development Laboratory. — Kendra Snyder

To lunch with the lecturer at an off-site restaurant on Friday, January 25, contact Kathleen Loverro, Ext. 7188, loverro@bnl.gov.



James Murphy

CALENDAR OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermediate, Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894

Mondays: BNL Social & Cultural Club
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, alforque@bnl.gov

Mondays: Pilates
Noon-1 p.m. Rec. Hall. Ext. 5090

Mondays & Wednesdays: Pilates
5:15-6:15 p.m. Rec. Hall. Ext. 5090

Mondays: Jiu Jitsu Club
6:30-7:30 p.m. B'haven Center. All levels, ages 6 & up. \$10/class. Tom, Ext. 4556

Mondays & Thursdays: Kickboxing
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Ext. 8481

Mon., Thurs., & Fri.: Tai Chi
Noon-1 p.m., B'haven Cntr N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov

Tuesdays: Hospitality Coffee
10:30 a.m.-noon, Rec. Hall lounge. All welcome. Ext. 5090

Tuesdays: BNL Music Club
Noon, B'haven Center, N. Room. Come hear live music. Joe Vignola, Ext. 3846

Tuesdays: Knitting Class
2 p.m. Rec Hall. All levels of skill. Ext. 5090 for information.

Tuesdays: Toastmasters
1st & 3rd Tuesday of month, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. www.bnl.gov/bera/activities/toastmasters/

Tue., Wed. & Thu: Rec Hall Activities
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Tue., Thurs. & Fri.: Ving Tsun Kung Fu
Noon-1 p.m., B'haven Center, North Room. Taught by Master William Moy. Scott Bradley, Ext. 5745, bradley@bnl.gov

Tues. & Thurs.: Jazzercise
Noon, Rec. Hall. Ext. 5090.

Tuesday & Thursday: Aerobic Fitness
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, flood@bnl.gov

Tuesday & Thursday: Aqua Aerobics
5:30-6:30 p.m., Pool. Ext. 5090

Wednesdays: On-Site Play Group
10 a.m.-noon. Rec. Hall. Infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238.

Wednesdays: Ballroom Dance Class
B'haven Center, N. Ballroom. Instructor: Giny Rae. Starts September 12 and 19. Ext. 3845.

Wednesdays: Weight Watchers
Noon-1 p.m. Michael Thorn, Ext. 8612

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

Thursdays: Reiki Healing Class
Noon-1 p.m., Call for location. Nicole Bernholz, Ext. 2027

Fridays: Family Swim Night
5-8 p.m. BNL Pool. \$5 per family

Fridays: BNL Social & Cultural Club
Noon-1 p.m., B'haven Center, South Room, free beginners dance lessons. 7-11:30 p.m. North Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, alforque@bnl.gov

CIGNA Representative

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

In Memoriam, Kathleen Herbert



Roger Stoutenburgh D4270405

Kathleen Herbert, a registered nurse in the Human Resources & Occupational Medicine Division's Occupational Medicine Clinic (OMC), died on December 26, 2007, after a courageous battle with cancer. She was 55.

Herbert joined OMC on January 27, 2003. She contributed to many aspects of OMC operations including caring for employees & guests, and managing occupational injuries, pandemic preparedness and infection control. Besides her extensive knowledge of cardiology, colleagues said, Herbert brought a wealth of experience which she obtained from her 30-plus years of nursing, many of which were spent in emergency rooms. Even though she was only at the Lab for just under five years, she quickly earned the respect and admiration of her co-workers and many around the Lab community. OMC received many tributes from people she helped over the years.

Patricia Edwards, Herbert's supervisor, emphasized Herbert's strong work ethic. As Joyce Vail, another OMC nurse, remarked, "Kathy always said, 'if you're going to do a job, you might as well do it right.' Kathy would always get the job done. Besides being extraordinarily productive and dedicated to OMC and BNL, she was calm, confident, and competent in just about any situation."

Co-workers and friends recall Herbert's sense of humor and the way she exuded warmth and kindness while caring for BNLers with medical conditions and occupational injuries. "The greatest loss for OMC will be Kathy's ability to make others feel at ease when they were ill or going through hard times. She took the time to listen, and never judged, held grudges, or put on airs," Edwards said.

Colleagues also emphasize that Herbert worked bravely throughout her illness, treatments and pain — never morose or in denial about her illness. She is remembered as saying, "I've had a wonderful life. The thing I will miss most is not getting to spend more time with my husband, children and grandchildren."

As Edwards concluded, "Kathy was a wonderful friend and unique individual. We lost a brilliant nurse who was a brave, dynamic person with a zest for life and a commitment to our clinic and the BNL community. She is missed deeply by all of us. Part of our history and future are gone, but she will live on in our hearts forever. If we look around us we can see her many accomplishments and how she made a difference in others' lives. Kathy was an avid Broadway theatre buff. In that great theatre they call Heaven, I'm sure she has a seat front and center. I bet she's smiling and watching out for us in a way that only a person like Kathy can. Thank you, Linda Cavaliere, for bringing Kathy to us."

Kathleen Herbert is survived by her husband Richard, three daughters, Courtney, Noreen & Bridget, and two grandchildren, Dylan and Joseph, and another on the way.

Kathleen Herbert's family requests that donations in her memory be made to the Memorial Sloan-Kettering Cancer Center. Donations may be left at the OMC desk, Bldg. 490, or access on-line and printed forms at: <http://www.mskcc.org/mskcc/html/20.cfm>. To notify the family of a donation, the donor may give the address of Richard Herbert, 65 Laurel Crescent, Port Jefferson, NY 11777.

Pick a Summer Student

Student applications for the summer 2008 undergraduate science internship programs sponsored by DOE's Office of Workforce Development for Teachers & Scientists will be available for review beginning February 1 on an electronic database. These programs include the Summer Undergraduate Laboratory Internship (SULI), the Community College Internship (CCI), and the Pre-Service Teacher program (PST). Contact Kathy Gurski of the Office of Educational Programs (OEP) at Ext. 4503 or gurski@bnl.gov for the database address and passwords. Selections for the first round choices must be submitted by February 28. Students will be here for ten weeks, from June 9 to August 15. Stipends, housing, and travel are funded through OEP with a \$1,000 cost share requested from the hosting department. See also www.bnl.gov/education/.

Fitness Classes

Aqua Aerobics: 8-week session, \$20 for once a week, \$40 for twice a week; 5:30-6:30 p.m. at the Pool – Bldg. 478, Tuesdays & Thursdays, starting 1/22 and 1/24.

Jazzercise: 8-week session of twice a week, noon - 1 p.m. at the Rec Hall – Bldg. 317, plus you may use the Shirley location, \$90. Tuesdays & Thursdays, starting 1/22 and 1/24.

Pilates: 6-week session, \$65 for once a week, \$80 for twice a week, noon class on Mondays, starting 2/4, Monday & Wednesday classes are 5:15 – 6:15 p.m., Monday starts 1/28, Wed. starts 1/23; All classes are at the Rec Hall, Bldg. 317. All those who participate in evening classes twice per week will be eligible for a free personal training session at Balanced Body Fitness and Wellness Studio, on the Pilates Reformer, Trapeze Table (Cadillac) Wunda chair or Spine Corrector, valued at \$60 per session. Those interested may contact Dan at: www.balancedbodyfitnessandwellness.com.

Call for Technology Maturation Funding Proposals

Deadline for receiving proposals: March 3

BNL's Office of Intellectual Property (OIP) is now soliciting proposals for the inaugural competition for Technology Maturation (TM) awards that will begin in Fiscal Year 2008 (FY08). Funding for new TM projects is expected to begin in June 2008. It is important to note that for FY08 there will be just one single call for proposals for TM funding. The purpose of the TM Program is to facilitate technology transfer from BNL to the private sector. OIP anticipates funding projects aimed at moving research from the "proof of concept" stage to a degree of development sufficient to support pilot-scale operations. The TM program will fund late-stage research that can be transferred to a partner at the end of the funding period.

For more details, including the TM program review procedures and criteria, see: <http://www.bnl.gov/techxfer/TechMat.asp>. For more information, contact the Office of Intellectual Property, oiopsr@bnl.gov, Ext. 3035, or Ext. 4151.

BSA Noon Recital, 1/30 Cellist Ramakrishnan, Pianist Schenkman

Raman Ramakrishnan, cellist of the Daedalus Quartet, will perform master works of the cello accompanied by noted pianist Byron Schenkman (below) on Wednesday, January 30, at noon in Berkner Hall.

Sponsored by Brookhaven Science Associates, the company that manages BNL, the concert is free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.



A member of Yo-Yo Ma's Silk Road Ensemble, Ramakrishnan (above) holds a Harvard University BS in physics and a master's in music from The Juilliard School.



Meet John Pagano

He turned 70 last November, but Brookhaven Police Officer John Pagano will be the first to tell you that age is just a number. While approaching one of the Lab's security gates, you can usually tell, or rather hear, if Pagano is on post. As a fan of everything from Frank Sinatra to 50 Cent, beats of hip-hop and techno usually escape from Pagano's booth as he claps and cheers for entering employees and visitors.

His hope is that they'll enter with a smile.

"I come to work having fun," Pagano said. "You've got to smile, you've got to laugh, you've got to think positively, and you've got to think young. At the gate, everyone's my friend."

After working in the New York City Police Department from 1961-82, Pagano, better known to some as "Cuz," joined BNL's Safeguards & Security Department in 1990. As the oldest member of the force, Pagano continually passes his yearly police fitness test, which includes running a half-mile in less than 4:40 and sprinting a 40-yard dash from a prone position in less than 8.5 seconds. He also undergoes a biannual shooting qualification test.

A father to four and grandfather to 14, Pagano jokes that he strives to be an "aging Rambo."

"There aren't many people doing police work at my age," he said. "You've got to be young in the mind but also mentally tough. It doesn't matter if you're 40, 50 or 70, you've got to go with the times."

And go with the times he does. The self-proclaimed "long-suffering Jets fan" likes to jog, visit nightclubs, and ballroom dance — a recent activity he's picked up to become "sophisticated with old age."

But Pagano says his positive outlook didn't develop without some heartbreak. A string of family illnesses, including leukemia and liver cancer, has opened his eyes to what's really important.

"Who said life's fair?" Pagano said. "Life's not always fair, and if you went to a veterans' hospital or a cancer hospital, you'd probably say, 'My life's not that bad.' That's why you have to appreciate what you have, and have fun doing it." — Kendra Snyder



Roger Stoutenburgh D0581107

BNL's Contributions to the United Way of Long Island Highest Ever



The BNL United Way Fund team was led this year by Chair Ken White (right) and Co-Chair Kathy Gurski (fifth from right).

The generous contributors to BNL's United Way Long Island Fund this year set a new record, topping \$170,000. This total was an accumulation of pledges, fund-raising activities, and matching contributions for volunteer hours by BSA and Battelle.

Said Ken White, "It was an honor to co-chair the campaign this year with Kathy Gurski. Working with the department captains and the team of volunteers for the fund-raising events was a great opportunity for us to interact with the many people who

make such a difference in the way BNL is viewed by the public. We extend a hearty thank you to everyone who worked on the campaign and to those who made donations."

In addition to the generous pledges and many creative and successful fund-raising efforts, BNLers rose to the challenge this year by achieving over 2,400 hours of volunteer service, thus ensuring the full contribution of an additional \$10,000 from Battelle that matched the \$10,000 from BSA for the final, record-breaking amount. — Jane Koropsak

Potential CIGNA HealthCare Provider Change

BNL is monitoring a potential change to CIGNA HealthCare's network of participating hospitals in the New York, NY area. CIGNA has been actively negotiating with Continuum Health Partners for a contract renewal, but had not been able to reach an agreement as of 1/16. Although negotiations continue, CIGNA is in the process of notifying affected physicians and members of Continuum's potential termination from the network on January 31, 2008.

Continuum Health Partners consists of the following facilities and physicians:

- Beth Israel Medical Center (Petrie Division)
- Beth Israel Medical Center (Kings Highway Division)
- St. Luke's-Roosevelt Hospital Center
- New York Eye and Ear Infirmary
- Long Island College Hospital
- 1,427 Physicians

While CIGNA prefers that Continuum remain in the New York area network, they have indicated that there are many network alternatives for care in the neighborhoods where Continuum facilities are located. If the termination does occur, a complete list of participating hospitals and physicians is available at www.cigna.com.

The Benefits Office will provide updates as they become available.

Service Anniversaries

The following employees celebrated a service anniversary in October 2007.

- 40 Years —
- Barbara GaerInstrum.
- 35 Years —
- Peter Palamidis Plant Eng.
- Lowell Ross Plant Eng.
- 30 Years —
- Michael GoldmanLegal Office
- James Boomer Plant Eng.
- Ronald Ondrovic..... PPM
- Arnold MoodenbaughCMPMS
- Joseph Fortunato Plant Eng.
- Leonard Slatest Comp. Sci.
- Barbara Simpson PPM
- Bruce WeatherellITD
- 25 Years —
- George Jahnes NSLS
- Frank TeichMagnet
- Pablo Rosas..... C-AD
- Alfred Della Penna, Jr. C-AD
- Li Hua Yu NSLS
- Michael AnerellaMagnet
- Dennis Malloy CFS
- Robert Lambiase C-AD
- 20 Years —
- Maria-Gracia Webster CFN
- Peter Heilig C-AD
- James La Bounty Physics
- George Rakowsky NSLS
- Marian Retundi NSLS-II
- William Themann C-AD
- Anthony Caracappa NSLS
- Thomas Van WinckeMagnet
- Domenick MilidantriMagnet
- Debra Maceluch HROM
- Bridget GeibFacils. & Ops.
- Steven Farrell CFS
- Jim Xu ES&T
- Arthur Piper S&HS
- 10 Years —
- Angela MelocotonN&PP
- Gianluigi DeGeronimo Instrum.
- John Riordan Physics

Camera Club Meets, 1/24

The Camera Club will meet on Thursday, January 24, in Berkner Hall, Room C, noon-1 p.m. Please bring up to five digital images on USB flash drive or CD for discussion. Plans will be made for a group to join the BERA trip to the Javits ART Expo on Sunday, March 2.

Beginners and nonmembers are always welcome. For information, call Ripp Bowman, club president, Ext 4672.

Arrivals & Departures

- Arrivals —
- Randy Brown C-AD
- Jose Caballero Bejar Physics
- Jinzhua ChenChemistry
- Leo DalesioNSLS-II
- Departures —
- Paul DeckerNSLS-II
- Rosalbino GrandinettiNSLS-II
- Melvyn Mitchell..... PPM
- Wenming Wang ES&T

One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Wednesday, 1/23, and Tuesday, 1/29, to answer employees' questions about financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix for you, learn about TIAA-CREF retirement income flexibility, compare lifetime income vs. cash withdrawal options.

For an appointment, call Suzanne Leone, (866) 842-2053, Ext. 4601.

Lab Community Lunchtime Tour, 1/25

Learn About Oil & Wood Burners, Alt. Fuels

For the next Lunchtime Tour, on Friday, January 25, the Lab community is invited to visit Tom Butcher, Energy Sciences & Technology Department, to learn about oil burners, wood burners, and alternative fuels. To join the tour, meet the group in the upper lobby of Berkner Hall at noon. No reservations are needed. The group will return to Berkner by 1 p.m.



Defensive Driving Course in Two Parts, 1/28 & 31

The six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday, 1/28 and Thursday, 1/31, in the Brookhaven Center, South Room, 6 p.m.-9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families, at \$38 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number. For more information, call Sarah Wiley, Ext. 4207.

Join BNL's 'Virtual' Swim to the Bahamas

Don't put your suntan lotion away yet — visit the Lab pool and sign up for the BNL "virtual" swim to the Bahamas. The big swim, which is approximately 1,200 miles as the seagull flies, will run for three months, January 1-March 31. Everyone who helps swim to the Bahamas will be invited to enjoy a big Bahama Party as a finale. But you must swim it to attend it!

All are welcome to participate — employees, family members, retirees and guests. No minimum number of lengths is required, and swimmers go at their own pace, resting as often as they like. As the individual and/or group lengths that have been swum are reported, they will be totaled periodically, then converted to miles and tracked on the BNL "Virtual" Swim Map posted at the pool.

New Series Ballroom Dance Lessons Begins, 1/23

Two new six-week sessions of weekly ballroom dance lessons, sponsored by the BNL Ballroom Dance Club and given by instructor Giny Rae at \$30 per person for each session, will start on Wednesday, January 23. Beginner/intermediate tango lessons will be held from 6 to 7 p.m. and intermediate bolero will be held from 7 to 8 p.m.

In addition, a six-week beginner only class (3 weeks of rumba and 3 weeks of meringue) will be held 5:15- 6 p.m. If you have never danced before, this is the perfect place to start. The cost is \$30.

All classes are held at the North Ballroom of the Brookhaven Center. Lessons are open to all BERA members: BNL employees, retirees, official BNL visitors and their immediate families (spouse and children). Each BERA member may bring one guest.

For more information contact: Arup Ghosh, Ext. 3974; Vinita Ghosh, Ext. 6226; Donna Grabowski, Ext. 2720; Gail Donoghue, Ext. 2838; or Kathleen Tuohy, Ext. 3845.

Hot Off the Grill!

New Cafeteria Specials, Wed., Thurs.: \$6.50

A minimum of eight specials, made to order at the grill, will be offered by Nayyarsons Food Service every Wednesday and Thursday at the Cafeteria in Berkner Hall. Some of the specials will be: Cuban Panini, Montecristo, Chicken Parmesan, Philly Cheese Steak, California Panini, Chicken Melt, Roast Pork on garlic bread, Vermont Reuben, Hot Roast Beef, Jackhammer, Spinach Feta Melt, Veggie Melt Cheese, Fried Fish (various), Honey Mustard Chicken Melt, Smoked Turkey Cheddar, Pastrami & Swiss — and more! You can also make your own favorite known: place your suggestion in the grill suggestion box.

Each order will include shoe-string French fries or waffle spicy fries, and a 16 oz. fountain soda, all for \$6.50 plus tax.

CALENDAR

— WEEK OF 1/21 —

Monday, 1/21

Martin Luther King Jr. Day
Floating Holiday, Lab Closed
No Bulletin will appear this Friday, 1/25.

Thursday, 1/24

***432nd Brookhaven Lecture**
4 p.m. Berkner Hall. James Murphy, National Synchrotron Light Source Department, will talk on "At the Cutting Edge of Bright Beams: The NSLS Source Development Lab." All are welcome. Visitors to the Lab of 16 and older must carry a photo ID. See story, p. 1.

Friday, 1/25

***Employee Tour: Oil, Wood Burners**
Noon-1 p.m. See notice at left.

Saturday, 1/26

***'Gathering of the Slides' Concert**
7:30 p.m. Berkner Hall. Sponsored by the BNL Music Club, tSixth annual "Gathering of the Slides" Blues Concert at BNL. Tickets: \$15 in advance at the BERA Store in Berkner, or \$20 at the door. Visitors to the Lab of 16 and older must carry a photo ID. For details, see p. 4.

— WEEK OF 1/28 —

Monday, 1/28

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

***Defensive Driving Course, Part I**
6-9:15 p.m. B'haven Center, South Room. \$38 per person. For details, see notice, left.

Wednesday, 1/30

CostCo Membership Drive
11 a.m.-2 p.m. Berkner Hall lobby. CostCo reps will hold a membership drive, with raffles, giveaways, and advantageous discounts. All are welcome.

***BSA Noon Recital**
Noon. Berkner Hall. See p. 2.

Thursday, 1/31

***Defensive Driving Course, Part II**
6-9:15 p.m. Br'haven Center S. Room. See details above, left.

Sunday, 2/1

Bus to International Art Expo, NYC
9:30 a.m. Bus leaves B'haven Center for the International Art Expo at Javits Center. Tickets, \$20/person, are at the BERA Store. Depart NYC at 5 p.m.

Four New Members Needed for BERA Board

Nominees for four new BERA Board members are needed for a February/March election. To name a candidate, or join a nominating committee, call Susan Wells, Ext. 7427, or Christine Carter, Ext. 5090.

Random Acts of Kindness

February 11-17 is "Random Acts of Kindness Week" (RAK) in the U.S. In a joint effort, the Employee Assistance Program (EAP) and the Employee Relations Office (ERO) will be sponsoring this event at BNL. All departments/divisions are encouraged to observe RAK Week and to discuss what they would like to do about it as a group. You can get as creative or low-key as you wish. For ideas, go to: www.actsofkindness.org.

EAP and ERO will be asking for short blogs about a kindness, done to the bloggers or by them. A flyer with more information will be forthcoming.

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/HR/jobs/.

LABORATORY RECRUITMENT - Opportunities for Laboratory Employees

MATERIAL HANDLER (LG-3) - Performs a variety of laboring and manual tasks in stores operations such as moving, loading, unloading, sorting and storing of materials. May operate motorized equipment pertinent to stores operations. Keeps stores facilities in neat condition. Procurement & Property Management Division. If interested, send transfer form to Diana Hubert, Bldg. 400B referring to Position No. 4386.

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in experimental nuclear or high energy physics with experience relevant to polarization measurements. The successful candidate for this position is expected to take a leading role in the development of a polarimeter system capable of measuring the small changes in deuteron polarization that will characterize the storage ring search for an electric dipole moment on the deuteron. The position requires some facility with using nuclear scattering and reactions to measure polarization. Experience with spin-1 and/or sensitive measurements in the presence of systematic effects is preferred. The project will involve the preparation of exploratory runs and the analysis of data at COSY-Juelich and the KVI-cyclotron. Both hardware and analysis software experience is desirable. This post-doctoral position in the Omega Group is available immediately and is for a period of two (2) years under the direction of Yannis Semertzidis, Physics Department. Send CV to felicia@bnl.gov, referring to Position No. FH 4569.

ASSISTANT PHYSICIST/RIKEN BNL FELLOW - Requires a Ph.D. and at least two years of post-doctoral experience. Preference will be given to candidates with a broad interest and expertise in lattice gauge theory applications of high energy physics. This appointment with the BNL Physics Department/RIKEN BNL Research Center will be for a period of 5 years. Scientists with appropriate backgrounds who are interested in applying for this position should send an application, curriculum vitae and three letters of recommendation, before February 15, 2008, preferably by email (aaponte@bnl.gov), or mail to: Dr. Amarjit Soni, Group Leader for HET, Physics Department, Building 510A, Brookhaven National Laboratory, Upton, NY 11973 USA. In addition, an application, curriculum vitae and three letters of recommendation should also be sent by conventional mail to: Dr. Nicholas Samios, Director, RIKEN BNL Research Center, Building 510A, Brookhaven National Laboratory, Upton, NY 11973 USA. Reference Position No. FH 4787.

PROJECT ENGINEER I/ELECTRICAL ENGINEER (P-9), Reposting, ERAP eligible (\$1K) - Requires a bachelor's degree in electrical engineering with a minimum of 10 years' experience in commercial/industrial building power and lighting design. Masters degree or PE license highly desirable. Must have in depth knowledge and understanding of NEC requirements. Experience preparing drawings and specifications for site distribution of medium/low voltage power, building power distribution and lighting, grounding systems, cable tray systems, HVAC equipment power and controls, emergency power systems and data/communication wiring required. Proficiency in Auto-Cad, cost estimating, drawing and specification package preparation, and general computer use required. Knowledge of building automation systems and controls a plus. Good interpersonal skills and strong self-motivation is required. Responsible for electrical design of building systems and plant distribution systems, specification development, and management of electrical construction projects. Will also be responsible for special studies, and implementing NFPA 70E into the laboratory infrastructure. Plant Engineering Division. Send resume to morales@bnl.gov referring to Position No. RM 4244.

PROJECT ENGINEER II/EMERGENCY MANAGEMENT OPERATIONS COORDINATOR (P-7), Reposting - Requires a bachelor's degree in engineering or physical sciences, or equivalent, and a minimum of seven years of experience that includes at least five years' experience in emergency management, planning and response; and coordination with organizations with multiple priorities. Ability to obtain a DOE "L" or "Q" clearance, ability to communicate concisely and effectively, both orally and in writing, with all levels of management, employees, guests, and representatives of regulatory agencies is required. The ability to prepare professional reports and develop program materials and plans, make recurring, formal presentations and provide effective training in emergency management concepts to varied and diverse laboratory audiences, including senior management is required. Excellent working knowledge of computer systems, database and spreadsheet management, Microsoft Office products, and web-based business systems is necessary as is skill in interacting diplomatically with and fostering an effective working relationship with representatives of governmental and other response agencies. Demonstrated experience in emergency management practices, as well as advanced knowledge of the National Incident Management System (NIMS) and Incident Command System (ICS) required. Knowledge of basic environmental health and safety programs desirable. Working knowledge of DOE requirements, in particular, DOE O 151.1C, Comprehensive Emergency Management also desirable. Working knowledge of federal government techniques for planning and implementing emergency services, including mutual aid systems is very desirable; emergency response experience and/or background is desirable. Will be responsible for the operational activities in emergency management including: coordination, control, and direction of emergency preparedness, response, and recovery actions in all phases of emergencies that might occur at BNL; support functions such as reporting and procedures development; and integration of emergency management with environmental, safety, health and radiation protection programs and staff. Provide guidance to staff and support to local emergency coordinators as needed. Facilities & Operations Directorate. Send resume to tbuck@bnl.gov referring to Position No. TB 4733.

PROJECT ENGINEER II/EMERGENCY MANAGEMENT COMPLIANCE COORDINATOR (P-7) - Requires a bachelor's degree in engineering or equivalent, and a minimum of seven years of experience that includes at least five years' experience in management and planning, policy development, and coordination with organizations with multiple priorities. Ability to obtain a DOE "L" or "Q" clearance, ability to communicate concisely and effectively, both orally and in writing, with all levels of management, employees, guests, and representatives of regulatory agencies is required. The ability to prepare professional reports and develop program materials and plans, make recurring, formal presentations and provide effective training in emergency management concepts to varied and diverse laboratory audiences, including senior management is required. Excellent working knowledge of computer systems, database and spreadsheet management, Microsoft Office products, and web-based business systems is necessary as is skill in interacting diplomatically with and fostering an effective working relationship with representatives of governmental and other response agencies. Knowledge of basic environmental health and safety programs desirable. Working knowledge of DOE requirements, in particular, DOE O 151.1C, Comprehensive Emergency Management also desirable. Working knowledge of federal government techniques for training, planning and implementing various program elements is essential. Will be responsible for the coordination, control, and direction of compliance activities with respect to emergency planning, preparedness, readiness assurance, and training. Responsibilities will also include emergency management administrative-support functions including reporting, procedures and plan development, integration of emergency management with environmental, safety, health and radiation protection programs and staff. Facilities & Operations Directorate. Send resume to tbuck@bnl.gov referring to Position No. TB 4881.

OCCUPATIONAL MEDICINE NURSE (80% -100%) - Responsibilities include routine nursing care, assistance with medical management for Workers' Compensation, short term disability management, first aid, drug and alcohol testing, travel medicine, health education, immunizations and assistance with physical examinations. Occupational Health Nursing background and experience preferred. New York State Registered Nurse License required. Human Resources and Occupational Medicine Division. Send resume to dianah@bnl.gov referring to Position No. DH 4423.

MORE ADS - Ads were omitted for lack of space. The rest of this week's ads, including Real Estate, are available in the Bulletin pdf version on the homepage, or the list can be sent: lseubert@bnl.gov, or call Ext. 2346 and leave your address.

American Red Cross Lifeguard Training

All Red Cross requirements have been changed, re-certification is required. A mandatory pre-test will be held at the BNL pool, Sunday, 2/3, 10 a.m.-1 p.m. It includes a water test, general information, and registration.

To register for training, you must be at least 15 years old; pass a swim test that includes a 500 yd swim, 200 yds front crawl (freestyle), 300 yds alternating breast stroke, back stroke and side stroke; tread water for 10 minutes; dive head first, swim 20 yds, retrieve a 10-lb. diving brick from depth of 9 ft, and swim 20 yds to return the brick; attend all eight sessions (no exceptions). The fee of \$325 includes a \$50, non-refundable deposit.

Class dates are: February 10, 17, 24, March 2, 9, 16, and 30.

Successful candidates will receive certifications in lifeguard training; waterfront lifeguard training; CPR for the professional rescuer; automated external defibrillator (AED); and first aid.

Candidates who fail the mandatory pre-test will be given one more chance to qualify later. If they still do not qualify, then the \$50 is non-refundable. Call 344-3496, 10 a.m.-2 p.m. and 4:30-8:30 p.m.; or 344-8481, 8 a.m.-4:30 p.m., to register. Your name, address, phone number, and a check for \$325 made out to cash may be sent to: Lifeguard Training, P.O. Box 502, Upton, NY 11973; or delivered to the Quality of Life/BERA/Recreation Office, Bldg. 400, or to the lifeguard at the pool.

It's the Welcome Place: The Brookhaven Café

The new Brookhaven Café is located in the lobby of the Research Support Building, Bldg. 400. Run by Nayyarsons, the company that provides food service to the Lab, the café serves Starbucks coffee and specialties such as lattes, espresso drinks, hot tea and chocolate, and pre-wrapped snacks.

The café is open on weekdays, 7 a.m. to 7 p.m. All employees, visitors, and guests are welcome.

Motor Vehicles & Supplies

06 VW BEETLE CONVERTIBLE - 5 cyl, 6 spd a/t, 2dr, a/c, am/fm/cd, abs, p/w, p/l, htd seats, canv rf, 24K mi. \$17,000. 521-5301.

05 MAZDA RX-8 - white w/blk int, a/t, sports suspension, 18" wheels, extend warr, perf. cond., 8,500 mi. \$19,990. Ext. 5665.

04 SUNNYBRK 3310 BUNKHOUSE - Fbrglis, slide, ac/htr, full kit/bath, slps 8, roof upgrade, 100w solar. \$18,000/neg. 662-2239.

04 JEEP WRANGLER - 6 cyl, 4wd, a/c 5spd., cd cust. 3" lift kit., KC chrome 4 lights bar, all tur., 32x11 trs. chrome w 38K mi. \$18,000/neg. 659-3507.

02 NISSAN ALTIMA SE - 3.5, a/t, v6, p/s, p/b, p/w, pdl, am/fm/cd, mint cond., 73K mi. \$9,399/neg. Kevin, 447-0626.

01 CHEVY 2500HD CREW - 6L, lthr, pw, 2ps, pb, cd/cass, a/c, liner, gooseneck + bumper, ranchhand bumpers/headache rack, blk 105K mi. \$12,000/neg. Ext. 5789.

01 DODGE NEON - f/gd. shape, not driven much, a/c, p/s, am/fm/cass. 33K mi. \$4,900. Daniel, Ext. 4798.

00 MAZDA MX-5 MIATA - blk, tan top, leather int., am/fm, cd/cass., stdndr shift, dealer maint. 73K mi. \$6,200. 734-7288.

99 TOYOTA COROLLA - a/t, p/w, ABS, c/c, dealer maint, all records, v/gd. cond., new tires, brake, bat, 93K mi. \$4,990. Ext. 4290.

98 HONDA CIVIC DX - 4 dr., a/c, a/t, excel. running cond., great fuel efficiency. 130K mi. \$2,800. 404-6879.

97 VOLKSWAGON JETTA GT - blk, rebuilt a/t, gd cond., s/roof, alarm, p/w, leather inter., a/c, new brakes, recent NYS insp. 127K mi. \$3,295. 742-4804.

97 CHEVY ASTRO - 8-pass. a/t, needs nothing, runs well. v/gd. cond. 131K mi. \$2,700/neg. Edward, Ext. 7160.

96 JEEP GRAND CHEROKEE - runs well, 5.2, V8, a/t, white/grey cloth, 4wd, skid/tow pkg, a/c p/w, p/l, alarm 16K mi. \$3,500/neg. 516-446-8373.

91 ACURA INTEGRA - LS Spcl. orig. owner, runs well, new batt., 1/08 timing belt, frnt struts repl'd. Needs more work. 148K mi. \$1,499/neg. Bob, Ext. 3186 or 834-4434.

Furnishings & Appliances

COMPUTER TABLE - multipurpose, wood/plywood w/ 3 big storage drawers, \$30. Rajiv, Ext. 4648 or 487-9071.

CRIB/DAY BED - White 'sleigh', perfect cond., mattress not incl., \$50, email shrey@bnl.gov.

DINETTE TABLE - w/4 chairs, w/d, curtains/drapes, more, call for price. 928-6930.

DINING TABLE - w/wooden top, 4 padded chairs, new cond., \$60. 487-9071.

Send a Love Note to Your Valentine — by 2/1

Is there a special message you'd like to send to your valentine? Are you looking for a valentine? You can have your Valentine's Day message printed in The Bulletin on February 8. (It seems much too early, but the next Bulletin will be on February 15, by which time hearts are out, everyone's thinking eggs, bunny rabbits.)

Send your 15-to-20 word "love note" to The Bulletin by Friday, February 1, or earlier if possible. If you use paper, send it to BNL, The Bulletin, Bldg. 400, Upton, NY 11973, and mark the envelope "Valentine's Day." If you use the ad forms on the web, use the form for "Miscellaneous," and mark it "Valentine's Day" at the beginning of the message. Or, e-mail your message to bulletin@bnl.gov. You must include your name and life number and extension or home phone, but your name will not be printed unless it is clearly part of the message. Copy must be deemed tasteful. All "love notes" will be accepted at The Bulletin's discretion.

'Gathering of the Slides' Blues Concert, 1/26 With Kerry Kearney Band, Chris English, Pat Russo

The sixth annual "Gathering of the Slides," a blues concert featuring the Kerry Kearney Band, Chris English, and Pat Russo, will be held Saturday, January 26 at 7:30 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. Tickets are available at the BERA Store or through www.ticketweb.com, at \$15 in advance or \$20 at the door. All visitors to the Lab age 16 and over must bring a photo I.D.

The Kerry Kearney Band, back for a sixth year at BNL, plays a unique style of Blues-Roots-Delta music, with a completely original sound tagged as "Psychedelta." The band, which features Kearney on guitar (see photo), Eileen Murphy on percussion, Frank Celenza on bass, and Tony Campo on keyboard, has toured nationally and internationally. Kearney's music is currently receiving airplay on blues radio stations nationally.



Singer-songwriter Chris English of Charlotte, North Carolina, plays electric, acoustic and bass guitar, banjo, piano, trumpet, and drums, a lively variety heard on his latest album and first solo recording, *Alpha and Amigo*.

Pat Russo, a 16-year-old from Long Island, straps on a new American Custom Shop Fender Stratocaster, a vintage 1979 Gibson Les Paul, and a Gibson ES-335 DOT R Ibanez GAX 70 tuned to open "D" for slide.

DRYER - Maytag elect., Frigidaire gas range, excel. cond., ask/\$75/ea. 878-1617.

FRAMED MIRROR - oak, shaker style, old frame w/new glass, 23" x 27", \$35/obo. 803-0506.

GIRL'S BEDROOM SET - Canopy-4poster w/bed, bureau w/hutch, dresser, desk w/chair, night stdnd, \$250. 821-3320.

HEADBOARDS - twin size, 1 wooden and 1 wicker, \$10/ea.; wooden quilt rack, \$10; Hoover Quick-Broom, \$10. 878-2425.

LG 1.5 KV MICROWAVE - v/gd. cond., 1.5 kv, \$25. Tw. bed, wood, w/storage, mattress, \$99. Rajiv, Ext. 4648.

OAK DINING TABLE - \$450; l/r set, \$400; recliner, \$25; elect. air hockey table, \$45, have pics. 909-1498.

ROOM DIVIDER - 3-section, leather-look naugahyde, approx. 6'h x 6'w, \$75/obo. 803-0506/before 9 p.m..

WAFFLE BAKER - toastmaster, \$10; Bakingstone, 15", \$10; tabletop ironbrd., \$5; clock, bear, \$5; wood drying rack, \$5. Ext. 7647.

Audio, Video & Computers
35MM SLIDE SCANNING SERVICE - www.pictureperfectscans.com: scans slides, prints, negatives, delivered on DVD, music slideshows avail. 928-6469.

CASSETTE TAPES - 72 count, mostly ctry. music, some Christmas, make reasonable offer, call after 6 pm. 772-4751.

COLOR PRINTER - Portable, Canon BJC-85 w/ software and cable, excel. cond., \$200. Ext. 3217.

PRINTER - HP Deskjet 840C, \$30; HP Photosmart 8150 printer, \$75. Ext. 7647.

STEREO SYSTEM - York, am/fm, cass, 8 track player + recorder, turntable, 4 spkrs, ask/\$50. 772-4751.

TV - Philips, 20", incl. table, all new, \$80. Lim-Seok, 834-9143.

WIRELESS NOTEBOOK ADAPTER - New Linksys w/software, \$25, Ext. 4555.

Free

CATS - 2 males, 1 black, 1 striped, 9 mos. old, house trained, all shots, neutered, need a home. Robert, 928-8112.

GAMES - Sega DreamCast games; Super Nintendo System. Ext. 7505.

Sports, Hobbies & Pets

BALLY'S LIFETIME MEMBERSHIP - gd. for all Ballys nationwide. They no longer sell these. \$400. Ext. 5665.

FAMILY EQUIPMENT - ski, snowboard, clothes. Michael, Ext. 7410.

PIANO - Baldwin Classic upright/console style w/ cherry fin.. \$2600/obo. 722-3368.

OnTheWeb, the Bulletin is located at www.bnl.gov/bnlweb/pubaf/bulletin.html. A calendar listing scientific and technical seminars and lectures is found at www.bnl.gov/bnlweb/pubaf/calendar.html.

Bldg. 134, P.O. Box 5000 Upton, NY 11973-5000 phone: (631) 344-2345 fax: (631) 344-3368 e-mail: bulletin@bnl.gov

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PIANO - Baldwin Classic upright/console style w/ cherry fin.. \$2600/obo. 722-3368.

SKI BOOTS - Rossignol salto performance size 28 (mens 10) excel. cond., \$85. Mark, Ext. 3837 or 365-9822.

WEIGHT SET - bench, 1 long bar, 2 short bars, weights, \$70. Don, Ext. 2253 or 821-3320.

Miscellaneous

MEDICAL EQUIPMENT - shower chair, white; shower bench, grey; wheel chair, black; reasonable b/o. Ext. 4340.

PRECIOUS MOMENTS STATUES - many to choose from w/boxes. \$10/ea, obo for all. Ext. 2716 or 878-2425.

RASCAL FLATTS TICKETS - Friday, 1/18, Section 230, Row C., \$100/ea. Ext. 2826.

TICKETS - 2 for Foo Fighters, Madison Square Garden, Tue, 2/19, \$125. Ext. 7174.

Happenings

CHINESE NEW YEAR SPLENDOR - 15 shows at Radio City Music Hall, 1/30-2/9. World's largest live production w/real, trad Chinese culture: 5,000 yrs. in two memorable hrs. Show is in both Eng. & Chinese.

Farewell Gathering

BONNIE MCGAHERN - Help wish Bonnie a fond farewell! Jan. 25th, Sea Basin, Rocky Point. \$35/pp incl gift, RSVP by 1/15! Nedy, Ext. 3402.

Free

CATS - 2 males, 1 black, 1 striped, 9 mos. old, home trained, all shots, neutered, need a home. Robert, 928-8112.

GAMES - Sega DreamCast games; Super Nintendo System. Ext. 7505.

Wanted

1-BDRM. APT - near Lab area, \$1,200/ max., incl. util., call if you have an offer. Chang-Yong, Ext. 7066 or 215-850-2523.

CAMARO - '79 or '80 Z-28, in drivable cond. w/no T-tops for a fair price. 902-8655.

HOUSE TO BUY - prefer Yaphank - will consider vicinity; 1 acre property; 3 bdrms. Ext. 4340.

MALE ROOMMATE - to share 1 two-

bdrm. apt. Jinzhu, Ext. 4357.

SHED - lg. Rubbermaid shed, horizontal storage, reasonable. Pam, Ext. 3097.

For Rent

AQUEBOGUE - condo,priv. beach, pool, tennis, 3.5 baths, 2 car gar., a/c, cent vac, all appli. water view deck, patio, sale \$875,000. \$2,500/mo. Ext. 5101 or 369-0781.

BAYPORT - sep. apt w/1 bdrm, l/r, bath, kit., 2 big closets, incl. cable, util., WiFi, pri. ent. & prkg. \$1,050/mo. 419-6048.

BELLPORT VILLAGE - 2 bdrm. cottage, gar., bsmt., walk to shops, util. sep., Cath ceiling in l/r. \$900/mo. 286-2045.

CENTER MORICHES - waterfront, 85', bulkhead, 2 bdrm house, 2 car gar., .5 acre, util. incl., no pets, credit check \$1,800/mo. 487-4201.

E. YAPHANK - 1 bdrm apt., priv. prkg., util. incl. no smkg/pets. \$1,000/mo. 729-6802, Ext. 3545.

JUNO BEACH, FL - 2 bdrm, 2 bth, furn., condo w/pool, steps to ocean beach, children's park, lake walk, also consider sale. \$2,500/ mo./neg. Lou, Ext. 3297 or 209-9077.

MEDFORD - 2 bdrm. bsmt. apt., 1 bath, kit., l/r, sep. ent., util. incl., 10 min. to BNL, 1 mo. sec., no smkg., avail. 2/1. \$1,050/mo./neg. 764-1481.

PATCHOGUE - sm., 2 bdrm. cottage. + util. \$1,350/mo. Betty, 475-1961.

PORT JEFFERSON - 2 br, 2 ba, furn. house, kit., den, l/r, screened porch, w/d, no smkg/ pets, util. incl. \$1,800/mo. 928-5185.

ROCKY POINT - 1 bdrm bsmt w/wind- downs, sep. ent., 6 mo. lease, no smkg/ pets, 10 min. to BNL, 25 to StnyBrk, incl. util., cable, net, Indry, avail. 2/1, 1 mo. sec. \$600/mo. 769-1559.

ROCKY POINT - 1 bdrm. cottage, wood stove, near beach, no pets, 1 mo. sec., plus util. \$1,100/mo. 744-5282.

ROCKY POINT - min. from BNL, 2 bdrm, l/r, dr, new kit., w/d, dishwasher, 2 sheds, lg. fen. yd, quiet area, beach rights, n/s, rent plus util. \$1,300/mo. Sue, Ext. 4931.

ROCKY POINT - share a 2 bdrm apt. w/1 male, Ph.D. student, 10 min. to BNL, heat/water, incl. \$600/mo. 734-649-5800.

SHIRLEY - 1 rm., microwave kitnet., furn., full bath, sep. ent, 5 min. to stores/beach, 15 min. to Lab, 1 mo. sec, no smkg/pets, tv elec, heat, wireless int. in \$600/mo. Ext. 8321.

SHOREHAM - 1 lg. bdrm, 1 lg. office, l/r fully carpeted, kit., full bath, cable, int. ac- cess, pvt. ent. on cul-de-sac., no smkg/ pets, 8 mi. to BNL. \$1,200/mo. 445-7838.

SOUND BEACH - 1 bdrm, kit/l/r, full bath, sep. thermostat, 25 min. to BNL, no smkg/pets, 1 mo. sec., util. incl., sep. ent. \$800/mo. 748-6993.

WADING RIVER - 4 bdrm, 2 bth house, poss m/dghtr, full bsmt, w/d, w/w, new carpets, paint, pri. beach, SWRS, 10 min to Lab \$2,000/mo. John, Ext. 4028 or 821 5334.

WADING RIVER - 1 bdrm. apt., 1 bath, eik, l/r, own ent., drwy. prkg., nice quiet area, avail immed., cable/heat/elect., incl. all. \$1,000/mo. 929-1429.

For Sale

BELLPORT - 4-BR. ranch, 2 bth, l/r w/dble opening fp to den, d/r, eik, oak flrs, screened deck, laundry rm, fin. bsmt: w/4th BR, bar, full bth, 2 rms; gar., 2 sheds, sprinklers, gt. cond. 15 min. to Lab. \$415,000; 949-7797.

RIDGE - Just over 1 acre, opp. land pro- tected by county, bldg, permits all in place, 5 min. to Lab. \$255,000/neg. 286-2594.

BROOME COUNTY - 35 acres, 15 min., North of Binghamton, 1800' borders state forest, perfect for hunting, fishing, snow- mobiling. \$64,900/neg. 559-1413.

EAST MORICHES - ranch, 3 bdrm, 2.5 bath, cathedral ceiling, f/p, tile, radiant heat, fin. bsmt, covered porch, patio, .5 acre, landscaped, cul-de-sac, low taxes. \$415,000/neg. 882-0519.

RIDGE - Just over 1 acre, opp. land pro- tected by county, bldg, permits all in place, 5 min. to Lab. \$255,000/neg. 286-2594.

RIDGE - 2 adjacent, 1 acre wooded lots, each city water, close to Lab, \$230,000/ ea or both. \$450,000 355-1586.

ROCKY POINT - house on .59 acre of land workshop and gar., move in cond., lots of new carpets etc. 3 bdrm., 1 den, sun porch. \$410/neg. Rolf, Ext. 2305 or 286-2045.

SHOREHAM - Middlecross Estates, 4 bdrm., 2.5 bath Col., frml l/r and d/r, den w/fp, lg. kit. w/dinette, 2 car gar, fin. bsmt., igs, SWRS, much more. \$559,000/neg. Donald, Ext. 2253 or 821-3320.

WADING RIVER - 2153 W.R. Manor Road, 8-room, Carrera-built Colonial, 4 bdrm., 2 full baths, 1 half bath, full bsmt., garage, SWR schools, 90x165' property. \$499,000/neg. 929-6074.

YAPHANK - 3 bdrm, 1 full bath, 2- 1/2 baths, kit. w/dining area, l/r, f/p, full bsmt, inside ent. to gar., 2 mi. to lab. \$284,000 Jane, 921-8497.

BONTON BEACH, FL - Sun Valley East, 55+ condo, 2nd flr., priv., immed. occp., 1800sf, 2/2 + den. clubhs., pool, tennis. \$184,900/neg. 561-495-0187.

WEST PALM BEACH, FL - 1 bdrm. Con- do, 1 bath, renov., cabinets, appliances, a/c, etc, MUST SELL! \$37,500 516-375-7330.

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

In Appreciation

I thank everyone at BNL, and especially Plant Engineering, for the support you gave me during the difficult time of my Father's passing. With great apprecia-