BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

At BNL's nearly completed facility for magnetic resonance imaging, or MRI, located on the corner of Cornell Avenue and Center Street, the Chemistry Department's Charles Springer stands atop the magnet dewar that is keeping the superconducting coils of the powerful four-tesla magnet at a very cold temperature of four kelvins.

Photos in this issue by Roger Stoutenburgh

BNL Lecture: Behind MRI — The Physics and Chemistry

Because the technique known as MRI, for magnetic resonance imaging, gives clear pictures of soft tissue deep in the body, it is now commonly used in general medicine to diagnose conditions that are invisible to x-rays.

How does MRI work? First, it depends on the response of the nuclear spins in a body to external magnetic fields, both static and oscillating. The images are made from signals picked up after radio-wave pulses are sent through the body set in a magnetic field.

But there's more: These radio-frequency signals depend on specific magnetic spin properties possessed by most atomic nuclei, among them, protons. Since protons, by far the most common of hydrogen nuclei, are naturally very abundant in the water pervading the human body and also yield a particularly strong MRI signal, images of essentially all organs inside the body can be made, with a clarity that partly depends on the strength of the magnet.

At a very few centers — and BNL will soon be one of them — powerful, 4-tesla magnets give MRI the extraordinarily high spatial resolution needed in forefront neuroscientific research.

But MRI is really just a part of the more general phenomenon of nuclear magnetic resonance (NMR). How did NMR come to be discovered, and what are the scientific principles and physical phenomena on which it is based?

To explain some of the most significant and intriguing NMR history and physics, Chemist Charles Springer will deliver the 309th Brookhaven Lecture, on Wednesday, October 11. His

(continued on page 2)

Rorer Heads Reactor Division

David Rorer, a physicist who has used two of BNL's research reactors in his work and has served for 20 years in the Reactor Division's management, has been made the new Division Manager, effective October 1. He replaces Lance Junker, who has retired.

"We look forward to Dave's leadership of the Reactor Division at a time when many issues such as budget constraints, contract reform, regulatory uncertainties and plant life extension are increasing in importance to the vitality of the division and the scientific programs that utilize the reactors," said M. Sue Davis, Associate Director for Reactor, Safety & Security.

David Rorer

At the same time, she announced that Albert Queirolo, former Plant Manager at the High Flux Beam Reactor (HFBR) and a member of the division since 1983, has been tapped as Rorer's deputy. Davis also thanked Junker for his nearly two years of leading the division.

The 116 members of the Reactor Division operate and maintain both the HFBR and the smaller Brookhaven Medical Research Reactor (BMRR).

"Our main purpose is to keep those neutrons coming down the beam tubes and to keep the reactors running safely," Rorer explained. "The staff is very competent and has learned to live with a lot of regulations in a very short time. It's a credit to them and Lance Junker that we have had a whole year of operation without any deviation from our schedule and with no significant interruptions. They are all to be congratulated, and my goal is to repeat that achievement."

Rorer outlined other missions for the division, including eventually raising the HFBR's power back up to 60 megawatts (MW) from its current 30 — an improvement that is undergoing a safety review.

"It's much more cost-effective that way," he explained, "because it doesn't cost much more to operate at 60 MW, and you get twice as many neutrons, so you can do more experiments in a shorter time." The HFBR has been operating at 30 MW since 1991, after starting up from a two-year safety-review shutdown.

He also expressed confidence in the potential benefits of the U.S. Department of Energy's Facilities Initiative, which, if approved by Congress, will give national lab user facilities additional funding for more running time.

Another goal is to improve the beam at the BMRR to support the enhanced-radiation cancer therapy called boron neutron capture therapy, which is currently being used to treat brain-tumor patients.

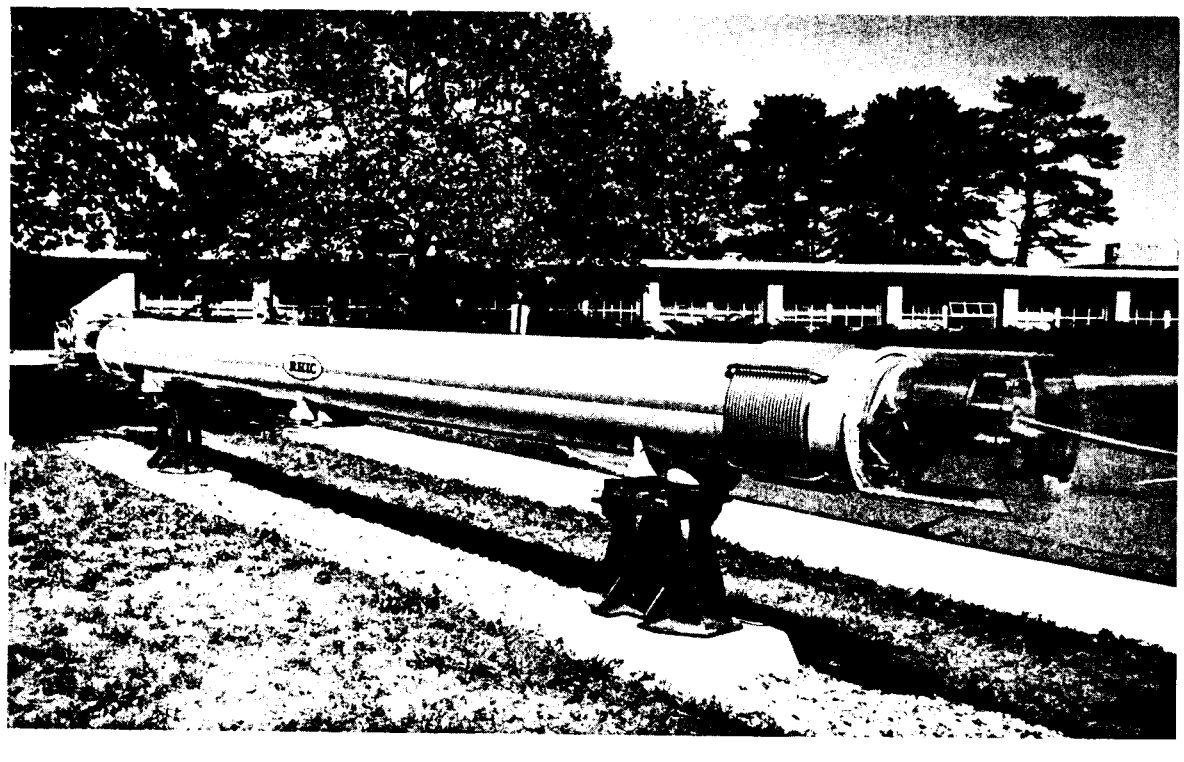
Finally, Rorer said, the division's materials surveillance program will continue to monitor the condition of the HFBR's vessel. "Thanks to the simple, robust design, it has weathered all kinds of changes, and we plan to keep using it for quite a while longer," Rorer said, adding that a major inspection via remote video camera and ultrasonic probes is planned for next fall.

Rorer received his bachelor's degree in physics from the Massachusetts Institute of Technology in 1959, moving to the University of Illinois for his master's in physics in 1961, then to Duke University for his physics Ph.D., which he was awarded in 1963.

After two years as a Duke research associate, he came to Brookhaven in mid-1965 as a Physics Department research associate, just as the HFBR was being completed. Working in nuclear cryogenics at the Brookhaven Graphite Research Reactor and then the HFBR, he was made an assistant

(continued on page 2)

Magnets Stand as Exhibit of Cooperative RHIC Effort



Work continues inside the Relativistic Heavy Ion Collider (RHIC) tunnel to install the 3.8-kilometer-long double ring of 1,700 brand-new superconducting magnets. But last month, two early predecessors of the final dipole magnet design now in use took up residence in front of two RHIC Project buildings — Bldg. 1005, the Collider Center, and this one in front of Bldg. 902, the Magnet Division. The two magnets were tested successfully several years ago in a full-cell trial of a short sequence of magnets. Now, they stand as tributes to the successful research and development effort already put into the future accelerator, and as exhibits that will allow visitors to see a RHIC magnet long after the accelerator goes on line and tunnel access is limited. These pre-production dipole magnets are a tangible accomplishment brought about by the work of the BNLers who performed the research, conceived the design, built and tested the series of magnets. That effort provided the basis for the technology transfer to Northrop Grumman Corporation, which is building 373 dipoles for the rings. In addition, it prepared RHIC staff for the production of several hundred superconducting magnets of other varieties, all needed to complete the world-class accelerator.

Arrivals & Departures

Arrivals

Matti K. Alatalo.....Physics
Cathy J. Lombardo.....Comp. & Comm.
Paul C. Mickaliger.....RHIC
Roland Overton.....RHIC
Robert P. Pisani.....Physics
Michel Tytgat.....Physics
Xing Zhang.....Biology

Departures

This list includes all employees who have terminated from the Lab, including retirees:

David J. Albinus.....Saf. & Env. Prot.
Patrick J. Asendorf.....Biology
Jerome I. Barancik.....Medical
Kenneth Batchelor.....NSLS
Peter S. Bilski.....Plant Eng.
Ollie J. Booker Jr......Plant Eng.
Angelo Bosco.....Plant Eng.
Charles E. Botts.....Plant Eng.
Graham H. Campbell.....Comp. & Comm.
Edward Caruso.....Biology
James P. Caruso.....Plant Eng.
Antone B. Chituk.....Medical
Roy C. Craft.....Saf. & Env. Prot.
Roger R. De Puy.....Plant Eng.
William A. De Santis.....Plant Eng.
Rodney T. Di Girolamo.....RHIC
Robert L. Ellis.....Plant Eng.
Haskell Frei.....Reactor
Kurt Fuchel.....Comp. & Comm.
Robin R. Gianopoulos.....Reactor
Vadim T. Gratchev.....Physics
Eleanor Grist.....Biology
Margaret H. Hedrick.....Comp. & Comm.
Ralph C. Helmig.....Physics
Carnal Hobson.....Plant Eng.
Eddie J. Hobson.....Plant Eng.
Louise M. Honikel.....Medical
Randolph A. Hudson Jr......Reactor
Paul G. Humbert.....Plant Eng.
Douglas Humphrey.....Info. Serv. Div.
Lewis A. Jacobson.....Plant Eng.
Walter E. Jahnig.....Saf. & Env. Prot.
William A. James.....Sup. & Mat'l.
Milton Jones Jr......Plant Eng.
Lance L. Junker.....Reactor
Carole L. Kerr.....Director's Off.
Vincent La Forte.....Plant Eng.
Yan Liu.....Physics
Joseph A. Lopez.....Plant Eng.
Thomas Lo Conte.....Comp. & Comm.
Tina M. Marascia.....Plant Eng.
Viola D. Malloy.....Fiscal
Robert B. Marr.....App. Science
Joseph W. Mead.....Instrum.
Irma I. Montanez.....Human Res.
Anthony Natoli Jr......Comp. & Comm.
George E. Oldham.....Plant Eng.
Betty A. Organek.....Con. & Proc.
George M. Penny.....Reactor
Helga Pirozzi.....Info. Serv. Div.
Nicholas F. Pisco.....Comp. & Comm.
Donald J. Robbins.....Director's Off.
Elizabeth A. Rowan.....RHIC
William J. Sells.....Saf. & Env. Prot.
Thomas R. Snow.....Plant Eng.
Frank D. Strebel.....Plant Eng.
Frank C. Strelecki.....Plant Eng.
Richard J. Tache.....Reactor
Booker T. Washington.....Plant Eng.

BNL Lecture (cont'd.)

talk, entitled "Magnetic Susceptibility in MRI — Imaging Brain Function" will begin at 4 p.m. in Berkner Hall. The speaker will be introduced by Senior Chemist Alfred Wolf, Chemistry Department.

As Wolf will detail, Springer joined BNL full time in 1994 to head the Lab's new, high-field MRI research facility, now almost complete, which will be part of the new Brookhaven Center for Imaging and Neuroscience. For 24 years prior to 1994, Springer had led a research group in NMR studies at the State University of New York (SUNY) at Stony Brook.

In his talk, Springer will explain that the property of a substance known as its magnetic susceptibility can affect its NMR parameters in two ways. These effects were known to the physicists who discovered NMR 50 years ago this year, but, as Springer will relate, the chemists who first applied NMR, devised clever techniques to obviate one part of the magnetic susceptibility effect and to avoid the other part. Thus, formal theory of the effects remained rather undeveloped.

However, when NMR was expanded to study multi-compartmental samples such as powdered solid materials and biological tissues, instead of the simpler, single-compartmental samples studied earlier, the magnetic susceptibility effects became unavoidable. Springer will describe how, in the early 1980s, he and the Stony Brook group began to systemize and extend the theory applicable to such cases.

This work was fortunately timed, because, by the late 1980s and early 1990s, results reported from major *in vivo* NMR laboratories showed that magnetic susceptibility effects, at least in part, allowed the direct, noninvasive detection of human brain function, in what came to be called *functional* MRI (*f*MRI; see Brookhaven Bulletin, September 16, 1994) experiments. And these studies have revolutionized MRI research possibilities in cognitive neuroscience.

After receiving his B.S. in chemistry in 1962 from St. Louis University, Charles Springer earned his M.Sc. in 1964 and Ph.D. in 1967, both also in chemistry, at the Ohio State University. He spent 1965-68 as a research chemist in the Aerospace Research Laboratories at Wright-Patterson Air Force Base in Ohio, then joined SUNY at Stony Brook as Assistant Professor of Chemistry.

Since 1985, Springer has been Professor of Chemistry, and, since 1991, Professor of Radiology. After a year in 1993 with a joint guest BNL/SUNY appointment, he also joined BNL's Chemistry Department.

From 1976 to 1990, Springer also held visiting faculty appointments at the California Institute of Technology, Harvard Medical School and the College of Physicians and Surgeons of Columbia University. His memberships include the American Chemical Society, the New York Academy of Sciences and the Biophysical Society, and he is on the Board of Trustees of the Society of Magnetic Resonance.

After the lecture, all are invited to join Springer for discussion and refreshments. Those wishing to have dinner with the speaker at a restaurant off site should call Lois Caligiuri, Ext. 4397. — Liz Seubert

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

It's Clear: What the BNL Glass Shop Can Do for You

"Science is blind without glass," says Barry Lafler, BNL's scientific glassblower, as he stands surrounded by tangible examples of this motto in his shop in the Chemistry Building.

On the table is an oddly shaped flask destined for use separating out medically useful radioisotopes at the Hot Lab. Over there lies a transparent chamber in which the layers of liquid metal will soon be examined at a National Synchrotron Light Source beam line. Poised in a glassworker's lathe across the room is the intricate prototype of a vacuum-chamber diffusion pump that will use oil, not mercury.

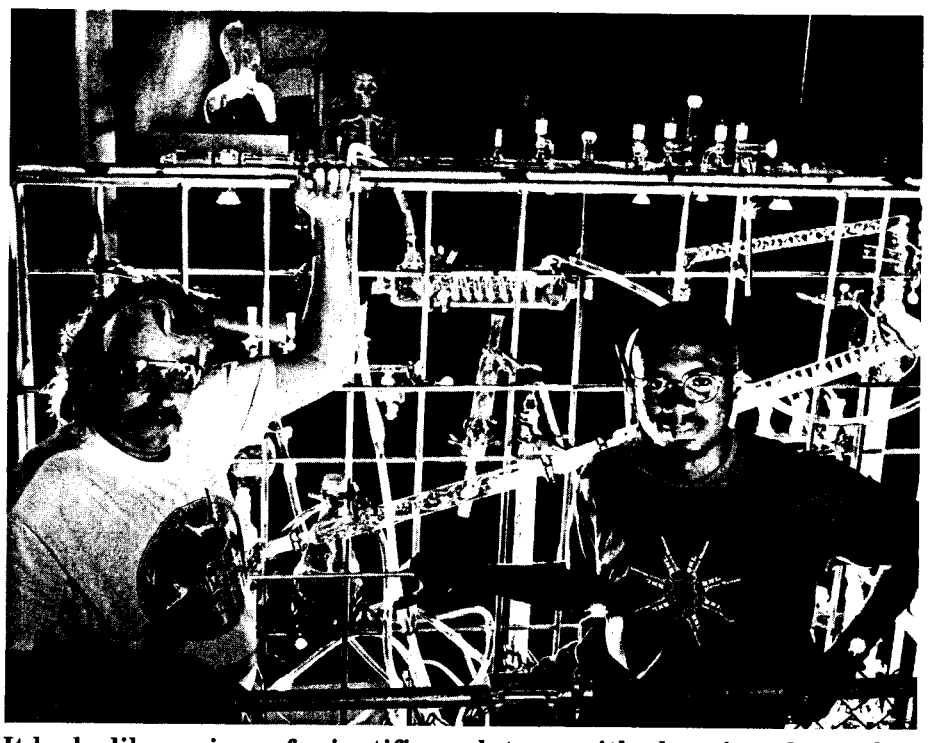
Continuing a 45-year tradition of scientific glassblowing at BNL, Lafler's more than 25 years of expertise — 22 at Eastman Kodak and over 3 at BNL — is available to all Lab scientists and technicians, and to all visitors.

Though they may seem wildly different, every piece of Lafler's handiwork has two things in common with every other: First, each is made especially for a BNL scientist or collaborator, exactly to their specifications and needs, without the time-consuming back-and-forth shipping made inevitable by mail-order glass houses.

Second, each is crafted with a blend of scientific precision and artistic interpretation found only in the hands and minds of the nation's 850 scientific glassblowers.

Working over a gas flame that never goes out, Lafler can turn a formal plan or a scribble on the back of a napkin into reality. It can be a prototype for an object that will eventually be made out of steel, a deceptively delicate-looking vessel, a vacuum-jacketed dewar that would be impossible to craft in metal, or a modification of a standard item to fit a special need.

Lafler works in borosilicate glass and can make items that can withstand vacuums as high as 10^{-7} torr. Grinding, polishing, bonding to machinable ceramics and quartz work are also among his many capabilities.



It looks like a piece of scientific sculpture, with gleaming glass tubes and beakers arrayed against a wire apparatus rack, and streams of colored water bubbling through transparent curlicues. But the newest exhibit in the BNL Science Museum is more than an educational work of art — it's a work of cooperation and recycling. And, it's a gleaming example of the work of Lab glassblower Barry Lafler (left). Built this summer by visitor Howard Paul (right), a New York City science teacher, the exhibit makes use of excess materials provided by the Chemistry Department. After cleaning off a rack found in Chemistry's basement, Paul got surplus glassware from David Comstock in the department's stockroom and outmoded supplies from Lafler. Lafler also gave Paul a hand in connecting the tubes and equipment, and in pumping water and air through the creation. Completed at very little cost to the Lab, the project was just one of several that Paul finished during his second summer at BNL as part of a teacher-enrichment program coordinated by Renée Flack of the Office of Educational Programs. Under the direction of Museum Programs Supervisor Janet Tempel, Public Affairs Office, Paul also helped repair some of the Science Museum's other displays.

And his expertise is augmented by that of his peers in the Scientific Glassblower's Association.

The BNL Glass Shop, besides offering custom-made items, can also expedite orders of standard pieces from outside suppliers: Most can be shipped the day after ordering, so Lafler's standing purchase orders and access to computerized ordering systems can save time and money.

For more information on what the BNL Glass Shop can do for you, call Lafler at Ext. 4309. — Kara Villamil

Welcome Sons to Work Monday

On Monday, October 9, some 200 sons of BNL employees will participate in BNL's first Take Our Sons to Work Day. The 9-to-15-year-old boys will visit their parents' or host parents' workplaces in the mornings, then tour various Lab areas in the afternoon.

Susan Foster, who heads the Lab committee planning the day's events, asks all employees to encourage the boys' questions and otherwise make them feel welcome during their day at BNL.

David Rorer (cont'd.)

physicist in 1966 and, in 1968, rose to associate physicist.

Rorer transferred briefly to the Department of Applied Science's nuclear safeguards group in 1972, and left BNL later that year for the Long Island Lighting Company (LILCO). At LILCO, he worked as a reactor engineer assessing safety and environmental factors during the building of the Shoreham Nuclear Power Plant.

Back at Brookhaven in 1975, Rorer was made a physicist in the Reactor Division and became the division's Research Coordinator, responsible for overseeing installation and safety review of experiments.

In addition, he worked to ensure safe experimental use of the HFBR's in-core irradiation capability, which allows samples to be fed into the core area through tubes called thimbles and irradiated for scientific use.

He was also responsible for the startup, testing and operation of the cold-neutron facility at beam line H9, the first in the country to use a hydrogen "moderator" chamber to slow neutrons for scientific investigations of magnetism and molecular structure.

After becoming Senior Physicist in January 1980, Rorer was made Reactor Division Deputy Manager. In the more than 15 years since, he has overseen upgrades to the BMRR and HFBR, as well as day-to-day operations of the reactors. — Kara Villamil

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

$wim, $wam, $wum

Held at the Lab pool last July to benefit the American Cancer Society, BNL's Swimarathon '95 advanced one record and took in some $5,402 — bringing its total to over $31,000 over the six years that the event has been held.

On July 22, this year's Swimarathon involved 54 swimmers who completed 113.78 miles over 13 hours, and ten volunteers on deck, counting their laps.

The Department of Advanced Technology (DAT) team of 13 swimmers raised the most money of the eight teams participating: For completing 29.62 miles, they earned $1,404 for the ACS and earned themselves the Team Award, a Panasonic telephone-answering system.

Composed of 13 swimmers from the Alternating Gradient Synchrotron Department, Physics Department and the Relativistic Heavy Ion Collider Project, the Ions put in the most laps as a team: They totaled 36.38 miles for the second-place team sum of $1,356. The 9-swimmer Bio-structure team from the Biology Department was third in terms of money — $606 after 10.1 miles. However, the 12-member Adit's team, formed in memory of the late BNL Assistant Physicist Aditya Sambamurti who died of cancer in 1992 at the age of 31, was third in terms of miles, with 25.67, but fourth in the money, with $473.

The most money raised by an individual was $777 collected by Rich Stoner of the National Synchrotron Light Source (NSLS) Department. He was rewarded with the Individual Award, a Smuggler suitcase and luggage cart. Fran Brown cashed in her pledges for $155, the second largest sum raised by an individual, while Tom Tully's $75 in fulfilled pledges was third.

At the BNL pool, Spirit Award winner Susan Juzwah (front, left) joins members of the DAT team, which raised the most money for the American Cancer Society during Swimarathon '95: (back row, from left) Greg Van Tuyle, John Vandenkieboom, Jim Higgins, (front row, from second from left) Karen Savino, Helen Todosow, Kathleen Nasta and Patti Van Gurp.

By upping his mileage from 11.48 to 11.55, Greg Van Tuyle, one of the organizers and a member of the DAT and Adit's teams, bested his own Swimarathon record, the greatest distance swum by an individual. The second greatest distance swum this year by an individual was 8.03 miles, by Wlodek Guryn of the Ions team. Jack Guthy, also of the Ions, swam the third greatest distance this year, 7.32 miles. This year's Spirit Award was presented to former BNL Head Lifeguard Susan Juzwak, who not only volunteered her time as a lifeguard beginning at 8 a.m. and ending at 9 p.m., but also swam 1.2 miles for the Lifeguards team, encouraged other swimmers and counted laps during her breaks. For her good spirit, she was given a Convertible carry-on bag.

In addition to Van Tuyle, Swimarathon '95 was organized by Peter Heotis, with Kay Dellimore of the Recreation Office, Human Resources Division.

The organizers thank the Brookhaven Employees Recreation Association for supplying beverages; *My Hero* deli in East Patchogue for donating party platters, as well as the individuals who brought refreshments; and the following volunteers: Russell Christian, Stephanie Collado, Victor Collado, Joanne Grove, Laura Heotis, Chris Ingoglia, Carol Kirby, Erin Rogers, Kumar Rohatgi and Sharon Smith. — Marsha Belford

Swimarathon '95 — Individual Distances

Swimmer	Team	Miles	Swimmer	Team	Miles	Swimmer	Team	Miles	Swimmer	Team	Miles
David Alburger	Ions	1.01	Jack Guthy	Ions	7.32	Donald MacKay	Police	0.72	Christina Todosow	DAT	2.01
Mary Alburger	Ions	0.83	Matt Harrington	Police	2.04	Kathleen Nasta	DAT	1.01	Helen Todosow	DAT	4.02
Fran Brown	—	2.01	Katie Heotis	Team Heotis	4.02	Mina Nozar	Ions	3.02	Tom Tully	—	5.02
Bill Christie	Ions	2.53	Peter Heotis	Team Heotis	5.03	Emmanuel Onillon	Ions	2.08	Mary Valentine	Bio	1.01
Eva Chu	DAT	1.01	Jim Higgins	DAT	3.55	Slawka Pfauntsch	—	0.57	John Vandenkieboom		
Jeff Chu	DAT	0.75	Bill Horak	DAT	1.17	Ruchi Rohatgi	DAT, Adit's	1.01		DAT	1.01
Paul Eugenio	Ions	1.01	Dick Hseuh	Adit's	4.02	Udai Rohatgi	DAT, Adit's	0.51	Patty Van Gurp	DAT	1.01
Jason Farrell	Ions	1.13	Al Huse	—	2.01	Lucy Shelenkova	—	0.53	Greg Van Tuyle	DAT	11.55
Kate Feng	Adit's	0.49	Sue Juzwak	Lifeguards	1.21	Jinsong Sheng	Bio	0.49	Lan Wang	Adit's	1.01
Margaret Foster	Adit's	1.01	Gene Kaplan	Ions	0.49	Eddie Sierra	Adit's	1.01	K.C. Wu	—	0.64
Heidi Fucci	Lifeguards	1.28	Dave Kirby	Ions	2.01	Dan Simon	Bio	1.25	Jeanne Wysocki	Bio	1.28
Rex Garcia	Lifeguards/Police	1.01	Beth Lin	Bio, Adit's	1.06	Martha Simon	Bio	1.01	Hong Xiang	Ions	6.92
Eddie Grove	DAT	1.01	Mow Lin	Bio, Adit's	2.01	Rich Stoner	—	2.01	Yian Biao Zhang	Adit's	1.01
Wlodek Guryn	Ions	8.03	Sophia Lin	Bio, Adit's	0.98	Rich Thorp	Police	2.04	**Total**		**113.78**

AUI Scholarship Alert

Applications for the 1996 AUI Trustee Scholarships can now be obtained from the Office of Scientific Personnel. The application deadline is November 15.

Children of regular employees of BNL are eligible to compete for up to 14 AUI scholarships, each for $2,500 per year renewable for up to four years of study toward an academic degree.

In addition, up to three scholarships may be awarded to BNL and National Radio Astronomy Observatory (NRAO) employees' children who are Black, Hispanic or Native American. One such scholarship is open to qualified children of employees at BNL and another for children of NRAO employees. One may be awarded to an additional applicant from either institution.

Applicants must be secondary school seniors who will be graduating during the current academic year and entering college by fall 1996.

In addition, qualified applicants are: children of BNL employees who begin regular, full-time or regular, eligible part-time employment no later than November 15 of this year and who are employed by BNL at the time the award is announced; or children of retired employees or employees who died while in regular service at the Laboratory. Stepchildren are eligible if the employee regularly claims the child as a dependent for income-tax purposes, or if the stepchild has resided in the employee's household for the two-year period immediately prior to application.

For further information, contact the Office of Scientific Personnel, Bldg. 185A, Ext. 3336.

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The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste. It can be recycled.

Bowling

Red & Green League

R. Mulderig 255/620 scratch series, R. Raynis 244/623 scratch, K. Asselta 238, S. DiMaiuta 238, A. Warkentien 237/214/612 scratch, J. Goode 236, R. Wiseman 216, R. Larsen 213/205/201/619 scratch, R. Eggert 212/211/613 scratch, J. Griffin 207, J. LaBounty 205, B. Geib 203, E. Sperry III 203, D. Fisher 202, J. Cuccia, Jr. 202, E. Larsen 202.

Purple & White League

A. Warkentien 267/223/661 scratch series, Doug Fisher 234/212/619 scratch, R. Larsen 234/200/198/632 scratch, M. Guacci 225/206/202/633 scratch, S. DiMaiuta 221/191, T. Mehl 215, M. Addessi 213, Don King 201/182, P. Wynkoop 201, N. Besemer 199, M. Musso 196/181, R. Wiseman 192, J. McCarthy 190, E. Sperry III 189, E. Meier 187/181, C. Wood 185, R. Picinich 183, A. Almasy 180, M. Picinich 179, T. Blydenburgh 175, M. Haller 174, I. Sperry 171, M. G. Meier 170, Doug Fisher converted the 3/6/7 split, M. Picinich 4/7/10 split, Diana Fisher 3/6/7/10 split.

Rifle & Pistol Club

The Rifle & Pistol Club meets on the second Wednesday of each month, so the next scheduled meeting is October 11, in Room 202, Bldg. 911B, at noon. For more information, call Otto Jacobi, Ext. 3471.

Healthfest '95 Begins Wednesday

Healthfest '95 — BNL's third celebration of personal health, fitness and safety — will kick off next Wednesday, October 11, with a 2-mile Employee Fitness Walk, followed by a 5-kilometer Employee Fitness Run on Thursday, October 12.

The Health, Fitness & Safety Fair will open in Berkner Hall for employees on Friday, October 13, at 11 a.m. and run until 2 p.m., with a stress management and relaxation techniques workshop to held at noon. The fair will be expanded for employees' families on Saturday, October 14, from 10 a.m. to 2 p.m. During this time as well, *Healthfest* participants are invited to take part in, among other activities, family tennis games, a basketball game, dance lessons, a family bicycle ride, water safety & rescue demonstration, a family fitness swim and/or water aerobics lesson.

For more information or to sign up for the various events requiring registration, see last week's Bulletin, the *Healthfest* flyer mailed to all employees, *Healthfest* brochures found around site, or call Health Promotion Specialist Mary Wood, Ext. 5923.

Met Opera Tickets

Some family-circle tickets are left for 1995-96 performances of the Metropolitan Opera, as follows:

Fri., Nov. 10, *Un Ballo in Maschera*
Sat., Nov. 25, *Un Ballo in Maschera*
Fri., Apr. 26, 1996 *Romeo et Juliette*

The tickets may be purchased in pairs at the BERA Sales Office, weekdays, 9 a.m. to 1:30 p.m. All sales will be final: No refunds or exchanges.

Cafeteria Menu

Monday, October 9	
Soup: Black bean & cilantro	.90/1.20
A la Carte: Turkey à la king	3.85
Lite: Baked flounder julienne	3.95
Deli: Pork loin	3.20
Grill: Swordfish teriyaki	3.30
Tuesday, October 10	
Soup: Cream of broccoli	.90/1.20
A la Carte: Meatloaf w/mushroom sauce	3.85
Lite: Chicken w/cranberry glaze	3.95
Deli: Turkey w/stuffing	3.20
Grill: Western omelet	3.30
Wednesday, October 11	
Soup: Chicken gumbo	.90/1.20
Display Cooking: Cajun foods	4.75
Deli: Roast beef w/mashed potatoes	3.20
Grill: Spicy wings w/bleu cheese	3.30
Thursday, October 12	
Soup: Country vegetable	.90/1.20
A la Carte: Country ham w/red-eye gravy	3.95
Lite: Baked cod w/peach-pepper sauce	3.95
Deli: Corned beef w/boiled potatoes	3.20
Grill: Tex Mex taco bar	3.30
Friday, October 13	
Soup: Manhattan clam chowder	.90/1.20
A la Carte: Stir-fry beef	3.95
Lite: Stir-fry chicken	3.95
Deli: Baked ham & beans	3.20
Grill: Tuna melt	3.30

Operator Hours Reduced

Due to staff reductions, the BNL telephone operators are now on duty only from 8 a.m. to 5 p.m.

Atlantic City Trip

A few seats remain for the next BERA trip to the Trump Castle Hotel and Casino in Atlantic City, on Saturday, October 28. The initial cost will be $22, but the hotel-casino will give a $15 coin return. Buy tickets at the BERA Sales Office, weekdays, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

Phys. Rev. Job Opening

The American Physical Society (APS) is seeking an editorial assistant for *Physical Review B*. Will train someone with an interest in journal publication willing to make the commitment necessary to develop editorial skills. B.S. or M.S. in physics or a related science essential; editorial experience desirable. Individual should have a broad interest in physics; a strong command of the English language, spoken and especially written; excellent communication skills; and familiarity with the working scientist's expectations for a scientific publication. APS offers a competitive salary and benefits package. Send cover letter and resume, including current salary and requirements to: Joseph Ignacio, Personnel Manager, APS, 1 Research Road, Box 1000, Ridge, NY 11961.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates 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, handicap or veteran status.

Each week, the Human Resources Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Human Resources, and second, for general recruiting under 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, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then select "Scientific Personnel Office " for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

MK 3928. ASSISTANT TO THE NSLS DEPARTMENT CHAIR - Requires a BS/BA in business administration or equivalent and significant relevant experience, several years of which should be as a Department/Division Administrative Manager or Deputy to that position. Will be responsible for the interpretation and implementation of all DOE/BNL administrative policies and procedures, have line authority for the Department's budget, user administration, facility and property management as well as training coordination and clerical/secretarial support. National Synchrotron Light Source Department.

DD 5574. OFFICE SERVICES POSITION - (term appointment) Requires an AAS or equivalent experience, excellent communication and demonstrated interpersonal skills, and a knowledge of Laboratory policies and procedures. IBM PC experience is also required, as is a familiarity with IPAP. Will be responsible for ordering hardware, shipping, receiving and distribution of packages of moderate weight, IPAP Work Copy entry, expediting orders with vendors, maintaining PO and release order files, mail and fax distribution. Additional duties will include serving as backup in the PC Software and Documentation Store as needed. Computing & Communications Division.

DD 0685. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent experience, working knowledge of WordPerfect, and a basic knowledge of Laboratory practices, policies and procedures. Under close supervision, will perform a variety of secretarial tasks for the Office of the Associate Director for Administration. Will follow established procedures in performing a variety of assignments such as data entry, file organization and maintenance, report and correspondence preparation and other secretarial duties. Director's Office.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 3822. TECHNICAL POSITION - Requires substantial health physics field experience and the ability to pass Radiological Control Technician Training. Additional requirements include the ability to obtain and maintain a DOE security clearance and the ability to wear a respirator. Duties will include routine radiation and contamination surveys. May involve shift work. Safety & Environmental Protection Division.

Motor Vehicles & Supplies

93 CHEVY LUMINA EUROSPORT - ac, a/t, ABS, am/fm cass., 4-dr., 50k mi., $8,900. Emil, Ext. 4289.

92 YAMAHA QUAD - 80cc, like new, $1,050 neg. Bill, Ext. 4408 or 399-3950.

90 BMW 525I - black, 65k mi., orig. owner, maint. by BMW, mint cond., ask. $16,000. Michelle, 289-1726.

89 CHEVY CORSICA - 4-dr., 4-cyl., ac, a/t, cruise, tilt, high mi., excel. cond., $2,500. Gabriel, Ext. 2707 or 341-1087.

89 HONDA CRX - 5-spd., silver, ac, 45 mpg, 2-seater, excel., $4,500. John, Ext. 7671 or 765-1299.

89 COLEMAN SUN VALLEY POP-UP CAMPER - sleeps 6, stove, sink, spare awning, $3,850. Tom, Ext. 7287 or 744-4535.

89 FORD ESCORT - red, m/t, 80k mi., new tires, $2,250. Pam, 474-2792.

89 FORD TAURUS GL - fully equipped, runs well, rear door damaged but functions, 108k mi., $2,500. Steve, Ext. 3822 or 929-6527.

89 TOYOTA COROLLA - 4-dr., a/t, p/s, ac, $3,900; '86 Chevy Nova, 4-dr. h/b, a/t, p/s, ac, $900. Skalyo, Ext. 2509.

87 AUDI 5000S - 5-spd., 85k mi., Blaupunkt alarm, cruise, many new parts, v.g. cond., $2,900. Robert, Ext. 5687.

87 PONTIAC SUNBIRD - tan, am/fm, a/t, runs well, good shape, well maint., $1,100 neg. Patt, Ext. 3799 or 744-9516.

87 TOYOTA CAMRY - ac, a/t, am/fm cass., cruise, 144k mi., gar., excel. cond., $3,900. Bill, 878-4356.

87 GMC SAFARI MINI VAN - luxury, custom hi-top, loaded, $6,000. Edwards, Ext. 4308.

87 HYUNDAI EXCEL - 67k mi., 4spd., fm cass., new tires, batt., clutch & exhaust system, runs well, $1,200. Marco, Ext. 3861.

86 AUDI QUATTRO - 5-spd., ac, sunroof, excel. cond., $3,500. Gail, Ext. 3338.

86 FORD TEMPO - white, 5-spd., ac, am/fm, new clutch, well maint., owner leaving country, $1,500. Giorgio, Ext. 3867.

86 TOYOTA COROLLA - 4-dr., 5-spd., ac, cruise, am/fm, gar., 95k mi., excel., $2,950 neg. Bob, 737-1786.

85 JETTA - tan, orig. mi., sunroof, p/w, ac, Benzi-Box stereo, alarm, $2,100 neg. Mark or Julian, 924-0960.

85 NISSAN 4x4 PICKUP - many extras, excel. cond., must sell. Ext. 5329 or 422-7415.

84 MERCURY GRAND MARQUIS - 2-dr., V-8, a/t, ac, p/b, p/w, p/s, radio, etc., $1,300 neg. Bill, 281-6498.

84 NISSAN 200SX - turbo, h/b w/louvers, all options, good cond., runs well, $900 neg. Suresh, Ext. 4459.

83 THUNDERBIRD - turbo coupe, 4-cyl., 5-spd., 87k mi., intercoded, new tires, brakes, paint well maint., loaded, asking $2,850. Mike, 588-0781.

79 HONDA CX - 800 cc, running but needs work, $150. Frank D. Ext. 2022 or 399-4480.

78 HONDA MOTORCYCLE - 550-4, black, 4.5k, very clean, $700. Louie, 399-6128.

77 FORD F-150 PICKUP - stepside, 4wd, p/s, p/b, a/t, V-8, many new parts, runs well, $1,400 or best offer. Joe, 345-5806.

76 VOLVO 242DL - 4-spd., new batt., front struts, runs well, $900 neg. Steve, Ext. 3018 or 369-5181.

74 HONDA CB175 MOTORCYCLE - 24k mi., excel cond., $450. 929-4446.

73 MUSTANG - conv., V-6, a/t, am/fm cass., like new, $3,500 or best offer. 286-3231.

AIR FILTERS - Sears & Lee Brand AFL-52 for Chrysler cars, new, $9/4. Susan, Ext. 7647.

BUMPERS - new, front & rear, '95 Chevy van, $50 ea. firm. Don, Ext. 7237 or 929-6571 after 5:30 p.m.

FORD PARTS - 302 alum. intake manifolds, headers, Mallory electronic distributor, '88 stock 5.0 roller motor, fuel inj., low mi. Wayne, Ext. 7238.

TIRE BALANCER - micro-precision, static, excel. cond., $60 neg. Bill, 281-6498.

TIRES - 2 Goodyear P225/75R14, like new, $40 ea.; 1 Firestone P215/70R14, $20. 698-9274.

Boats & Marine Supplies

27' SEARAY SUNDANCER - 1991, Bravo 2 o.d., 330-h.p., fully loaded, low hrs., must sell, $35,000. John, Ext. 2788.

23' SAILBOAT - fg, sleeps 4, galley, fixed keel, mooring, dinghy, jack stands, 6-h.p. motor, sails, excel. cond., extras, $1,500. Mike, Ext. 7861 or 698-3967.

20' FORMULA - fg, 120 Mercuiser, rebuilt engine & drive, runs well, mint, best offer. Tony, 298-1932.

16' STAR CRAFT - alum., new navy top, 50-h.p. Evinrude, trailer w/new elec. winch, $1,600. 924-6751.

Furnishings & Appliances

BAR - wicker, $35; girl's desk, lamp, heart-shaped pink & white, $25; changing table, oak, $30; 2.5 cu. ft. refrigerator, $50. Tom, Ext. 7287 or 744-4535.

BEDROOM SET - queen, headboard, frame, triple dresser, 2 mirrors, armoire, 2 night tables w/drawers, $250. 281-0268.

COMPUTER DESK - solid oak, 58"Hx40½"Wx24½"D, 2 drawers, keyboard drawer, top-mounted file cabinet. Ken, Ext. 2012.

COUCH - black, 7', 5 piece sectional, good cond. Ext. 4432.

DESK - double size, chair, pad, $35; halogen lamp, $10; you pick up. Robert, Ext. 5687.

DISHWASHER - GE Potscrubber 660, built-in model, smoked glass exterior, 1 yr. old, like new, best offer over $125. Cindy, 331-4487.

DRYER - GE, elec., 6 yrs. old, v.g. cond., $50 firm. Tom, 736-6993.

FILE CABINET - 6-drawer, metal, locking, legal, $35, you pick up. Bill, 878-4356.

REFRIGERATOR - small, freezer, few yrs. old, excel. cond., $75. Bob, Ext. 2351.

REFRIGERATOR - Kenmore, 1.8 cu. ft., white, v.g. cond., $200 neg. Dan, 698-7322.

STOVE - 2-burner, elec., tabletop, $5; bike helmet, new, $15. Joe, Ext. 2898.

END TABLES - 2, walnut, open, imitation black slate top, $25/ea. Pete, Ext. 3297 or 821-9547.

TV - console, 21", Zenith, color, asking $100. 924-6751.

WATER BED - king size, all wood, 12 drawers in base, large headboard w/light, mirror, cabinet, $460 neg. Carlos, 399-6390.

Tools, House & Garden

BURNER - Beckett, retention head, cad cell, $80; 2 B&G circulators, $30/ea. Bob, 689-9234.

CINDER BLOCKS - 15, decorative, 12"x12", you pick up. Kathi, Ext. 7661.

LAWN MOWER - elec., old, works well, $15; rotary mower cover, reinforced polyethylene, fits any walk-behind mower, $5. Linda, Ext. 2733 or 395-6784.

LAWN MOWER - Snapper, 21"cut, rear bagger, blade clutch, self-drive, thatcherizer, like new, $175. Dan, 698-7322.

LAWN MOWER - Sears, 22", titanium deck, $20. Sy, Ext. 4992.

TREES - Colorado blue spruce, 5-6', $25, you dig. Andy, Ext. 2907 or 289-1755.

TREES - Japanese maples, $10-$45+. 265-6542.

WOOD STOVE - Vermont Castings, Vigilant model, used 2 seasons, 9' s/s triple insulated flue, $400 firm. Tom, Ext. 5258.

Sports, Hobbies & Pets

CAMERA - 35mm, Konica, lens, flash, $100; clarinet, Alpine, $175. Tom, Ext. 7287 or 744-4535.

CAMERA ACCESSORIES - 52mm Cokin filters, sepia, rainbow, star, double exposure, etc., mount, $10/ea. or $100/set. Tom, Ext. 5258.

DOGLOO - for large dog w/winter flap, excel. cond., never used, $60. Corinne, Ext. 3662.

DOGLOO - for small dog, orig. $115, never used, $75. Carol, 472-3332.

EXERCISE BIKE - $30, must pick up. Susan, Ext. 7647.

FISH TANK - 55-gal.; bar, w/stand, $75 or best offer. Carlos, 399-6390.

GUITAR - Ovation, 12-string, custom Legend model, acoustic/elec., spruce top w/mother-of-pearl inlay, hard case, $700 or best offer. John, 286-4773.

HORSE TRAILER - Hartman, standard width, 1976, spring shocks, needs work, $600. Walter, Ext. 3841.

KARATE GEAR - head, hands, feet, men's large, new, never used, $50. 472-1479.

PARROT - yellow nape, Amazon, w/cage, $600. 281-3515.

SEWING MACHINE - Singer, fold-out table, drawers, all attach., book, $75. Pete, Ext. 5105 or 399-2813.

TRUMPET - Olds, B-flat, excel. cond., $500; J. Banez bass guitar, elec., sunburst, $500. Corinne, Ext. 3662.

Audio, Video & Computer

ANTENNA - ham, Mosley Pro-57B; Rohn Tower, 3 sections, like new, $600; tire/rim, Bridgestone 185/70 SR-13, new, $45; TV/VCR stand, $30. 472-4368.

COMPUTER - 8088, color monitor, small HD, dual disk drives, mouse, keyboard, software, $140. Chris, Ext. 7313.

COMPUTER GAMES - Nintendo, complete set, 50 games, $250; trading cards, all sports, over 60,000, $250. Joe, Ext. 4567.

COPIER - Toshiba, heavy-duty, desk top, reduces/enlarges, excel. cond., $150 neg. 281-0268.

PRINTER - Citizen 200EX, dot matrix, 250cps, $40. Vinny, Ext. 4706.

PRINTER - laser, postscript, 300dpi, old, works well, needs cleaning, $75 neg. 281-0268.

SPEAKERS - Magneplaner, tower, model MG-1, w/box & manuals, mint cond. 271-7547.

STEREO - Proton #AM300 amp/rec., CD, cass., 2 Boston speakers, 3 yrs. old, $500 neg. Janet, Ext. 2345 or 929-3910.

TV - GE, console, great picture, on wheels, $80 firm; Sega Genesis, sports & action, super power, joysticks, $200/all. Chris, 399-7493.

Miscellaneous

CAR SEAT - Fisher Price, $20; tricycle, $5; girl's bike, 4-5 yr. old, training wheels, $20; baby's walker, $5; Fisher Price swing, $20. Joe, Ext. 4259.

CASH BOX - locking, 2 keys, compartment for bills/coins, $50. Pete, Ext. 5105 or 399-2813 after 5 p.m.

SKI - children, $6; women's coat, shearling, beige, excel., $75; car roof rack, $10. Anita, 929-5742.

WINE PRESS - heavy-duty, basket holds 16 gal. of grapes, ratchet drive, $75. Tom, Ext. 7196 or 286-2505.

Free

KITTEN - 12 wks.-old, black, white nose, paws & belly, very friendly, cuddly, female, good home please. Joel, Ext. 5988 or 744-1628.

Car Pools

LIE EXIT 36 - fourth person needed. John, Ext. 5181.

Wanted

APT./HOUSE - and nonsmoking housemates, for 23-yr.-old son of BNLer looking to rent within modest commute of office in Merrick. Jeff, 928-5714.

BABY-SITTER - in Center Moriches home, 1-2 mornings/wk., for 3 children, ages 5-7, exper., nonsmoker, own transp. Cindy, 874-3652 or Anna, 878-6760.

BOAT TRAILER - in good cond., for 19'/800-lb. boat. Terry, 473-8426.

DIRT BIKE - small moped, mini-bike or go-kart for 11-yr.-old., running cond., but small repair OK, cheap. Ed, Ext. 4447.

HOUSE/CAT SITTER - in Bayport, Dec. 21-28. Bernice, 472-1735.

HOUSEMATE - share lg. waterfront home in Center Moriches. Jack, Ext. 5442 or 878-4130.

JUNK CARS/TRUCKS - free removal, money paid for running, late model vehicles., Steve, 924-8741.

ROTOTILLER - gas-powered, mini-size. Harriet, Ext. 2800.

TRAILER - for 19' sailboat w/centerboard, will consider trailer in any cond. Dave, Ext. 2686.

TRUCK - small or med-size Chevy, Mazda, Toyota, Dodge pref., $1,000-$1,500 price range. Chris, 399-7493.

WHEELS - and small gasoline engine, any cond., for kid's go-cart project. Peter, Ext. 2824 or 727-3218.

In Appreciation

I thank all my friends at Brookhaven Lab for the card and gift. —Marty Candito Jr.

Services

Services are listed in the first ***Bulletin*** *of every month as a courtesy to BNL employees. They are neither screened nor recommended by the* ***Bulletin.*** *Services forms are available in the* ***Bulletin*** *lobby, Bldg. 134.*

AUTO CUSTOMIZE - vinyl tops, headliners, convert. to ps, sunroof installation, elec. sunroof repair, rugs, some mech, work, brakes. Rob, 395-4521.

BABY-SITTER - my home f/t or p/t, reasonable rates. Debbie, 395-3505.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. exp., Lab disc. Tony, 698-9274.

BUSINESS CARDS - raised lettering, many colors, BNL cards avail., flyers, letterheads, envelopes. Mike, 878-3480.

CUSTOM-DESIGNED CAKES - cookies, pies, pastries, for any occasion. Johanna, 924-7922.

CARPENTER - decks & repairs of all kind within the trade, reas. rates. Chris, 399-7493.

CHILD CARE - by licensed, loving mother, impeccable refs. provided by BNL employees, close to Lab. Robin, 345-0298.

CHILD CARE - after school, provided by responsible Eastport mom, includes homework help, arts & crafts, snacks, fun, refs. Debbie, 325-1207.

CHILD CARE - mature mother of 2 & 5 yr. olds, in her Wading River home, very clean, warm environment. Maria, 929-6925.

CHILD CARE - mother of 2 yr. old will take care of infant/toddler, Mon.-Fri., 8:30-5:30, FT/PT, experienced & refs. Rachel, 546-1054.

CHIMNEY CAPS - fireplace, wood & oil flue, sweeping, custom-made, stainless steel caps for all chimneys, Lab discount. Mike, 821-5526.

CLEANING MAN - retired w/23 yrs. exp., seeking PT office cleaning or supervision. Christos, 475-8242.

COMPUTERS - installations, repairs, tutoring, reasonable, in your home. Steve, 345-6960.

ELECTRICIAN - lighting, power, repairs, service upgrades, appliance hookups, alterations, lic./inc. Steve, 758-7002.

FISHING RODS - custom, surf or boat. Emil, 473-3120.

HANDYMAN - home repairs, yard work, painting, competent work, reasonable. Frank D., 399-4480.

HOME CARE - for adult, experienced, mature, caring, days. Marilyn, 698-4882, leave message.

HOME IMPROVEMENTS - quality work, honest prices, extensions, dormers, decks, kitchens, baths, roofing, siding, lic. & ins., refs., free est. Chris, 286-1348.

HOME IMPROVEMENTS - carpentry, drywall, spackling, painting, plumbing, ceramic tile, electrical, free est., Lab disc. Don, 929-6571 after 5:30 p.m.

HOUSECLEANING - reasonable, reliable, refs., honest, efficient. 281-0360.

IRONWORK/WELDER - ornamental railings, window and door guards, all types of repairs. Tony, 298-1932.

JEWELER - special orders, repairs, honest, affordable, no job too large or small. Kelly, 821-5239.

KARATE - character development, self-defense, mental strategies, various martial arts styles, children and adult classes, group discounts. Richard, 289-2939.

LAND CLEARING - trees/stumps/brush removed, topsoil graded and raked w/450 loader, $70/hr. Tom Muller, 878-1060.

LANDSCAPING - free estimates on grass cuts, clean ups, etc. Jesus, 286-5403.

LAWN SPRINKLERS - automatic, free est., prof. layouts, repairs, alterations, additions, winterizations prompt, courteous service. Lou, 928-7042.

LAWN MOWER - and lawn tractor repairs and service, fast, reliable, have trailer will travel, winterizing and spring tuneups. Dan, 698-7322.

MAILBOXES - custom-made, many colors and designs, free lettering, free catalog, Lab disc., house and post mailboxes avail. Mike, 821-5526.

PAINTED FINISHED - marbelizing, ragging, sponging, combing, graining, murals on floors, walls, ceilings & trim, free est. & samples. Phillip, 286-1348.

PAINTING - paper hanging, ext./int., free est., quality work, lic. & ins. Bob, 331-4336.

PAINTING - int./ext., tape, spackle, Sheetrock, wallpaper, power wash, stain. James, 399-4912.

PIANO TUNING - and repair, reasonable. 298-9560.

PLUMBING & HEATING ALTERATIONS - repair work by retired BNL employee. Jim Morris, 472-1205.

RIBBONS - printed party favor ribbons for all occasions, also large selection of favors. 981-5993.

SHEETROCK & SPACKLING - free estimate. Kevin, 567-6621.

SKINCARE & BEAUTY CONSULTANT - nail care, facials, men's line, body care, free first-time facials. Barbara Jean, 929-3235.

TOURS - personalized tours of Washington, DC, & places nearby, Baltimore, Annapolis, etc., by knowledgable, licensed tour guide. Tom, (202) 686-6214.

TREE SERVICES - 281-2746.

VIDEO SERVICE - have your special occasion videotaped on high quality prof. equip. at a price you can afford. Willi, 471-7189.

VIDEOGRAPHER - capture those precious moments on video, will tape weddings, parties, all occasions. Larry, 281-7240.

WINDOW CLEANING - all work squeaky clean, reliable, refs. 289-4759, leave message.

Farewell Gatherings

RETIREMENT PARTY - for Walter Mason, Tues., 10/10, 4:30 p.m., Berkner Lobby, $17 per person incl. all. RSVP Chris Ronick, Ext. 3545, by 10/6.

RETIREMENT PARTY - for A. van Steenbergen, K. Batchelor, N. Fewell, P. LeDoux, G. Stenby, B. Larson C. Auguste, Brookhaven Center, 10/13, 5:15 p.m. RSVP Toni Hoffmann, Ext. 5257 or Lydia Rogers, Ext. 4746 by 10/9.

RETIREMENT PARTY - for Pete Bilski, Ollie Booker, Charlie Botts, Roger DePuy, Carnal Hobson, Eddie Hobson, Joe Lopez, George Oldham, Frank Strelecki, Billy Washington, 10/20, 5:30 p.m., Brookhaven Center, $15 per person., cash bar, RSVP Patti Bender, Ext. 3145, or Claudia Jones, Ext. 3082.

Classified Ad deadline is 4:30 p.m. Friday for publication Friday of the next week.