

BNL Hosts DOE Conference on Tech Transfer, Communications



Roger Stoutenburgh

At DOE's Fifth Technology Transfer/Communications Conference, (from left) BNL Director Nicholas Samios met with DOE's Roger Lewis and Alexander MacLachlan.

The best ways to communicate to the U.S. taxpayer the value of partnerships between government and industry was a main focus of the Fifth Department of Energy (DOE) Technology Transfer/Communications Conference, hosted by BNL from July 19 to 21.

As keynote speaker, Alexander MacLachlan, DOE's Deputy Under Secretary, Office of Research and Development Management (OR&DM), pointed out, "By working together, government and industry can lower each other's costs, speed up each other's research and get access to each other's brain power and unique facilities."

Laboratory Director Nicholas Samios opened the proceedings, welcoming, among other speakers and attendees, MacLachlan and Roger Lewis, Associate Deputy Under Secretary for Operations, OR&DM,

who coordinated the conference with Dorry Tooker from BNL's Office of Technology Transfer (OTT).

In keeping with the conference's theme, topics addressed included: quality and customers; the role of BNL's OTT and Public Affairs Office; using the Integrated Technology Transfer System (ITTS), which is DOE's centralized information-management system for tracking and evaluating tech-transfer activities; how to sell a technology story; and the view from DOE's Public Affairs Office. Workshops were also held on various subjects selected by the 62 attendees.

At the end of the conference, attendees could participate in a computer training session on the search and retrieval section of the ITTS, which allows users to extrapolate data that could portray laboratory or facility success stories. — Liz Seubert

Two Thrifty Laboratories Pilot New Kind of Block Grant

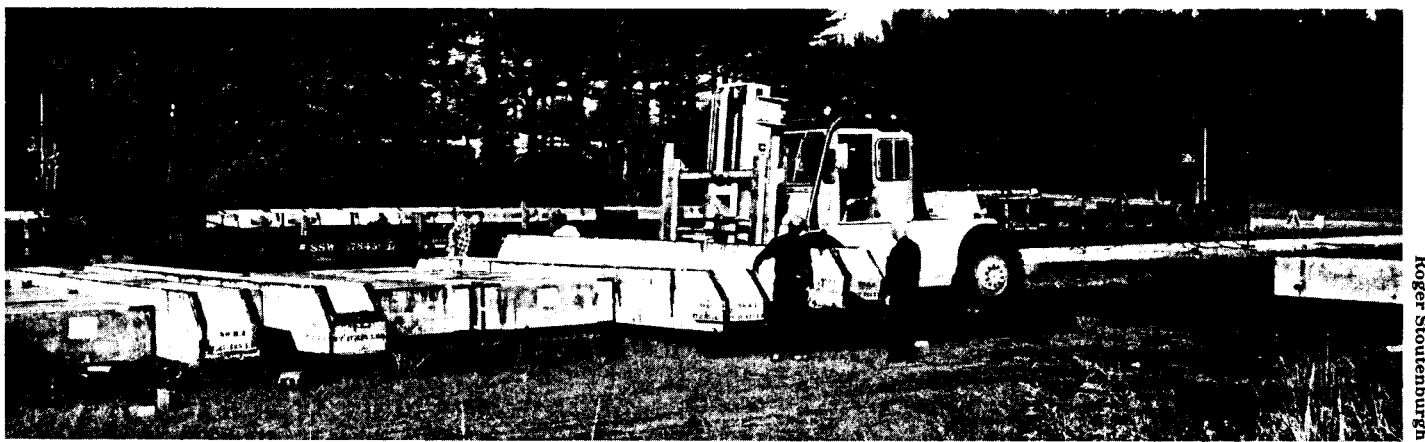
To free up valuable research space at Lawrence Berkeley National Laboratory (LBNL), officials there needed to dispose of about 4,000 concrete and steel radiation shielding blocks from the Bevalac, a decommissioned accelerator.

The plan? To dispose of the blocks at the U.S. Department of Energy's (DOE) waste repository for low-level radioactive material in Hanford, Washington. The tab? A hefty \$126 million of the DOE funding set aside for waste disposal — comparable to one quarter of BNL's annual budget for the entire Lab.

Instead, LBNL and BNL management came up with an alternate plan — to ship approximately one-third of the blocks to Brookhaven for use as shielding at the Relativistic Heavy Ion Collider (RHIC). The new plan will cost only \$4.2 million — for a savings of approximately \$45 million of the U.S. taxpayers' money.

The project, which will cover a four-year period from fiscal years 1995 through 1998, is being funded by \$2.1 million each from the DOE Offices of Energy Research (ER) and Environmental Management (EM).

BNL is getting approximately 13,500 of the 38,000 metric tons of the



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Workers unload some of the Bevalac blocks from which runs between Groves and Railroad Streets, near flatbed railcars at the Brookhaven railroad siding, the Lab's warehouse area.

shielding blocks available from the former Bevalac—a good bargain since many of the blocks are expensive to fabricate.

A large percentage of Brookhaven's portion is made from high-density concrete, which costs up to \$330 per metric ton, as compared to \$110 per metric ton for standard concrete block. In addition, the Lab will receive many of the Bevalac inventory's roof blocks — narrow reinforced concrete beams that are also very costly to make.

The first shipment of 272 metric tons of the blocks arrived early last

week. The rest of the blocks will be shipped over the next three years in about 50 rail shipments.

According to Steve Musolino, a health physicist with the RHIC project, most of the shielding blocks will be used to enclose the open area at the 4 o'clock location of the RHIC tunnel, and to seal the magnet-access tunnels at the 8 o'clock and 12 o'clock locations.

The blocks may also be used to supplement custom shielding requirements in the STAR and PHENIX experimental areas.

The project was originally conceived at a pollution-prevention workshop during an Environment, Safety & Health Coordination Meeting sponsored by ER. At the workshop, George Goode, of BNL's Safety & Environmental Protection Division, learned that LBNL wished to dispose of the Bevalac blocks to free up at least 3,700 square meters of space that is currently not available for conducting research.

If BNL could use the shielding materials at RHIC, suggested LBNL man- (continued on page 2)

Brookhaven Takes Groundwater Study Off Site

Beginning this month, BNL's Office of Environmental Restoration (OER) will be conducting a study to understand better how groundwater flows beyond the boundaries of the 5,300-acre BNL site.

Underlying Long Island is a vast underground reservoir of fresh water. This groundwater is a natural resource that must be managed and preserved. BNL recognizes the need to protect groundwater in its area and is committed to ensuring that Lab operations have minimal impact on the surrounding environment.

Past practices at the Lab, while in compliance with earlier environmental regulations, have resulted in some groundwater contamination on the site. Because of that contamination and because Long Island uses groundwater for drinking water, BNL was named to the National Priorities List of the U.S. Environmental Protection Agency (EPA) in 1989. This is a roster of sites that are considered high priority for cleanup under the federal Superfund program. All environmental remediation at BNL is paid for by the U.S. Department of Energy.

Given that BNL has areas of contamination on its premises, the Lab must have a more thorough understanding of how groundwater travels, both to do a better job of remediation and, for the future, to protect the environment better.

Geologist Robert Ramirez, who heads this project in OER, explained that groundwater flow in the vicinity of BNL is controlled by many factors. In general, however, groundwater in the northeastern section of the site flows to the east, and, in the northwestern section, it flows to the south. On the western portion of the site, groundwater tends to flow to the south. In the southern and southeastern sections of the site, groundwater tends to flow towards the south or southeast.

Some of the factors affecting groundwater movement are: rainfall, underground geologic formations, and human intervention, such as pumping

wells and recharge basins, which can alter the natural course of groundwater flow.

Groundwater usually flows from higher to lower elevations. To understand groundwater flow in more detail, instruments called piezometers, a type of well, are used to measure groundwater elevation. Clusters of piezometers will indicate the vertical component of groundwater flow.

At present, BNL has an on-site network of over 450 piezometers. To characterize groundwater flow off site, OER will be placing piezometers in 17 different locations beyond the Lab property. These piezometers are designed to fill in data gaps in a preexisting network of piezometers installed by the U.S. Geological Survey (USGS), New York State Department of Environmental Conservation (NYSDEC) and Suffolk County Water Authority (SCWA).

The BNL-installed piezometers will be located as far south as Sunrise Highway, west to the Carmans River, a mile north of the intersection of Route 25 and William Floyd Parkway (County Road 46), and east of the Lab in the area of Weeks Avenue. All the piezometers will be located on rights-of-way.

Over the next two months, employees and local residents may notice drilling crews and geologists working in various locations. Thirty-five borings will be drilled, soil samples collected to determine the geology of the area, and piezometers installed.

OER is responsible for remediating areas of contamination on BNL property, and the field work for this study will collect data useful not only to BNL, but also to town, county, state and federal authorities, such as the USGS, SCWA and the Suffolk County Department of Health Services. In addition, the EPA, NYSDEC and the Town of Brookhaven are part of a technical committee that reviews all OER work plans to monitor groundwater movement both on the Lab property and off site. — Mona S. Rowe

International Visitors Attend DAT Course In Nuclear Power Plant Fire Protection

For almost three weeks, May 8-25, fifteen visitors from Eastern Europe, Russia and Ukraine attended a BNL training course on "U.S. Commercial Nuclear Power Fire Protection Practices," organized by Kenneth Sullivan, Department of Advanced Technology (DAT)'s Engineering Technology Division. Part of a joint information exchange between the U.S. Nuclear Regulatory Commission (NRC), GOSATOMNADZOR of Russia and the Ukrainian regulatory body, the course was sponsored by the NRC's Agency for International Development-funded Direct Assistance Program.

The program was designed for individuals who may serve in a nuclear power reactor regulatory or oversight role in Russian or Ukrainian nuclear facilities. In addition to attending classes on topics such as the defense-in-depth concept for fire protection and safe shutdown analyses, the participants traveled to the operating Beaver Valley Nuclear Power station outside Pittsburgh, Pennsylvania, and the Underwriters Laboratory fire-testing facility in Chicago, for demonstrations and discussions.



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Photographed with most of the course attendees were: (standing, starting seventh from left) DAT's Kenneth Sullivan, who organized the training and instructed some classes; Leon Whitney, NRC project manager; and course instructors, including DAT's James Higgins, consultant Keith

Parkinson of Sonalysts, Inc., DAT's Anthony Fresco and consultant Thomas Story of Science Applications International Corporation. Other DAT staff working on the training course were Helen Todosow (front, left), Sonja Santos (third left) and Ann Fort (center).

Thrifty Labs

(cont'd.)

agement, transferring the shielding materials to BNL could be a win-win solution for everyone. RHIC project managers at BNL were enthused by the suggestion and readily agreed to pursue funding for the transfer.

In a letter dated July 15, 1994, BNL Director Nicholas Samios stressed that the concrete shielding blocks would be a boon to the RHIC project. "If the proposed transfer from LBNL is determined to be cost effective [for DOE], Brookhaven stands ready to assist by accepting the shielding, and our research programs will benefit as a re-

sult," he wrote.

Then, in September 1994, LBNL demonstrated the feasibility and logistics of the project in a test shipment of 33 roof blocks. The shipment, weighing a total of 366 metric tons, comprised blocks as heavy as 25 metric tons and almost ten meters long.

Eighteen truckloads, averaging 20 metric tons apiece, carried the blocks from LBL to the Oakland Army Base, where they were loaded onto seven flatbed rail cars for shipment to Brookhaven. The demonstration shipment was completed well within its \$100,000 budget.

Spurred by the success of this ship-

ment, the transfer of the blocks was approved for funding earlier this year. In a joint memo dated April 19, 1995, the directors of ER and EM wrote, "Through this joint effort, [DOE] is demonstrating its commitment to pollution prevention and fiscal responsibility."

According to Musolino, most of the blocks show no measureable radiation levels. The other blocks have been measured at a few tens of microrems per hour — just barely over natural background radiation. "The radiation levels are comparable to what is produced by the granite in Grand Central

Station," said Musolino.

But, because DOE waste disposal regulations limit how material that contains added radioactivity can be disposed of, the Bevalac shielding blocks would have to be handled as costly low-level radioactive waste, so could not be dumped in an ordinary landfill.

The activation levels of these blocks are so low, however, that they are classified as nonradioactive by U.S. Department of Transportation rules, and, thus, can easily be shipped directly to the Brookhaven railroad siding.

— Brad Keoun

Congratulations, Graduates!

Since August 1994, 34 employees have completed academic degrees under the BNL Tuition Refund Program in the Human Resources Division — in addition to the 18 BNLers who, this past June, received their master's degrees in mechanical engineering in evening courses given on site by Manhattan College (see Brookhaven Bulletin, June 23, 1995). Congratulations to the following graduates:

Associate's Degrees

Name	Dept.	Discipline	School	Date
Leonard DeSanto	AGS	Chemistry	Suffolk Community	5/95
Donald Farnam	SEP	Fire Prot. Tech.	Suffolk Community	5/95
Donna Grabowski	Instr.	Bus. Admin.	Briarcliffe	8/94
Dorothy-Jean Greco	DO	Bus. Admin.	Briarcliffe	5/95
Stephen Jao	Reac.	Nuc. Tech.	U. of Phoenix	12/94
Lawrence Rosenberg	NSLS	Mech. Eng. Tech.	SUNY-Farmingdale	1/95
Victoria Johnson	DAT	Comp. Info. Sys.	Suffolk Community	12/94

Bachelor's Degrees

Karen Adelwerth	HR	Social Science	SUNY-Stony Brook	5/95
Armand DiFilippo	AGS	Comp. Info. Sys.	Dowling	5/95
John Duggan	Reac.	Nuc. Eng. Tech.	Thomas Edison	5/95
Stephen Ellerd	RHIC	Nat. Sci. & Math.	Dowling	6/95
Patricia Jencius	S&MD	Prof. & Lib. Studies	Dowling	12/94
Daniel Jenkins	Reac.	Nuc. Eng. Tech.	Thomas Edison	9/94
Barry Karlin	NSLS	Comp. Info.	Empire	2/95
Conrad Koehler	Chem.	Mech. Engineering	Villanova	12/94
Robert Malachowsky	Reac.	Interdisc. Studies	NY Inst. of Tech.	8/94
Vera Meier	NSLS	Bus. Prof. Studies	Dowling	5/95
Kathleen Nasta	DAT	Bus. Admin.	Dowling	2/95
Mark Sardzinski	RHIC	Elec. Eng. Tech.	NY Inst. of Tech.	5/95
Michael Takacs	Reac.	Nat. Sci. & Math.	Dowling	5/95
Kathryn Warburton	DAS	Computer Science	Dowling	5/95

Master's Degrees

John Aloï	NSLS	Occ. Health & Saf.	SUNY-Stony Brook	5/95
James Benson	RHIC	Elec. Engineering	Polytechnic	6/95
Scott Buda	NSLS	Tech. Management	Polytechnic	5/95
John DeLalio	RHIC	MBA-Finance	Hofstra	6/95
Michael Greaves	SEP	MBA-MIS	NY Inst. of Tech.	12/94
Diane Hatton	Chem.	MBA-Bus. Admin.	Hofstra	12/94
Thomas Martin	Med.	Chemistry	Adelphi	8/94
Bette Morgan	AGS	MBA-Bus. Admin.	Dowling	12/94
David Passarello	RHIC	Tech. Systems	SUNY-Stony Brook	5/95
Barbara Pierce	DAS	Energy Mgmt.	NY Inst. of Tech.	8/94
Philip Pietraski	NSLS	Elec. Engineering	Polytechnic	6/95
Reginald Redman	CSD	MBA-Bus. Admin.	NY Inst. of Tech.	5/95
Patrick Sullivan	SEP	Occ. Health & Saf.	SUNY-Stony Brook	5/95

Volunteers Needed For Healthfest '95

Healthfest '95 — BNL's third celebration of health, fitness and safety — is scheduled for October 11-14, starting on a Wednesday and ending with a Family Day on Saturday.

The Family Day is intended to be both informative and fun, so the Healthfest '95 committee is seeking volunteer face painters, clowns and magicians, as well as suggestions for other children's activities. Contact Mary Wood, Ext. 5923, to volunteer yourself or your ideas.

Problem Solvers

The Employee Relations Committee (ERC) is a mechanism for exploring and resolving work-related problems that cannot be resolved through departmental channels. The ERC provides confidential assistance on a one-to-one basis to non-bargaining unit employees.

To bring a problem to the committee's attention, call chairperson Bill McGahern, Ext. 4005, or another members: Mary Durham, Ext. 7143; Ann Emrick, Ext. 5756; Patricia Fox, Ext. 2939; Marie Hicks, Ext. 3802; Carl Jacobs, Ext. 2244; Michael Kelly, Ext. 3476; or Grace Webster, Ext. 3227.

Camping Club

New members are welcome to join the BERA Camping Club, which organizes group camp outs in spring, summer and fall at the Lab's Recreation Park and off site. The club's affordable camp outs also feature fun and games, potluck meals and lots of comradery. For more information and a schedule of upcoming camp outs, call Charles Watson, club president, 929-4413.

Money Talks: Retirement Investment Options

Due to popular demand, the Money Talks lecture entitled "Investments and Options at Retirement," which was first presented last September, will be repeated on Thursday, August 17, at noon, for one hour in Berkner Hall.

During the lecture, a representative from TIAA-CREF will discuss withdrawals, minimum distributions, survivor benefits and annuities. The talk will also include information on providing spousal and beneficiary benefits, and on allocating assets at retirement.

For more information, contact Denise DiMeglio, Ext. 2881.

BERA's Best Foot Forward for MD

On Sunday, September 10, BERA will put its best foot forward in the Great Walk from Bald Hill Park in Farmingville to raise funds for Muscular Dystrophy and some 40 other related neuromuscular diseases. BNLers, their friends and families are invited to join the BERA walking team for this important charity event.

To exercise your healthy muscles for a great cause, sign up for the Great Walk at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

BNL to Exchange 282, 341 for 344

As part of the present installation of the new telephone system by Siemens Rolm Communications, Inc., the 282 and 341 prefixes currently used for BNL extensions will be replaced by the prefix 344 by the end of the calendar year.

In 1981, when BNL first began using 282 as its exchange, the 5,000 numbers available in the 2000, 3000, 4000, 5000 and 7000 series seemed like plenty. In 1992, however, those extensions were exhausted, due to the demand for voice, data and fax telephone lines. To allow for further phone-service growth at the Lab, the 341 exchange was added at that time.

When the new 344 exchange is phased in, some 8,900 extensions will be available at BNL. Details of the changeover will be announced later in the Bulletin, LINK.bnl and the home page of the Computing & Communications Division on the World Wide Web at <http://docserver.bnl.gov/com/www/default.html>.

In the meantime, employees are advised to use up their stock of business stationery and to purchase only limited quantities of new business cards, letterhead, etc. that are imprinted with the 282 prefix.

Trees to Topsoil, Dirt to Dollars



Roger Stoutenburgh

Decayed trees (right) are loaded onto an industrial screening machine (center). Then, using a front-end loader (left), operated by Charlie Yezek of the Plant

Engineering (PE) Division, the dirt is dumped onto a massive mound of reclaimed topsoil. Not shown is supervisor Mike Curtis, also of PE.

A front-end loader shovels heaps of decayed trees onto an industrial screening machine. Rich black earth, cascading through the double screen of the mammoth sieve, forms a mound of dirt — more than two meters long and one meter high. This dirt, which will eventually find its way to a massive mountain of topsoil, is the fertile proving ground of a new recycling project at BNL.

In this new Brookhaven undertaking, engineers in the Office of Environmental Restoration and the Plant Engineering (PE) Division are turning trees into topsoil — instead of paying \$14 for each cubic meter of topsoil that they would otherwise

have to buy off site.

In 1980, the previously uncounted savings began to mount when construction started on ISABELLE, a particle accelerator once planned for the site where the Relativistic Heavy Ion Collider is now being built. As trees were cleared away, they were dumped in an immense clearing in the Brookhaven forest, on the southeast side of the accelerator ring.

Fifteen years later, however, the trees had composted, leaving behind an abundance of excellent topsoil. That's when BNL engineers realized that with the screening machine, they could reclaim this topsoil for use elsewhere on site.

Working with the screening machine, an operator can produce about 33 cubic meters of topsoil in one hour — almost \$500 worth — from the huge piles of composting trees.

Already, according to McWilliams' estimate, approximately 2,500 cubic meters of topsoil have been reclaimed, in less than three weeks of work. Specifically, the topsoil is being readied for use to cap the Lab's former landfill, which has been closed due to environmental regulations. The topsoil will be "cut" — mixed with a percentage of sand to meet landfill specifications — and spread as the top layer in the landfill cap.

For this job, says Site Superintendent Roy McWilliams, of PE, engineers will need about 5,300 cubic meters of the cut topsoil mixture. The rest of the reclaimed topsoil will be used for other projects on the BNL site. — Brad Keoun

Sybase Users

The BNL Sybase Local Users Group will next meet on Wednesday, August 16, at 1:30 p.m. in the CCD Seminar Room, Bldg. 515, where representatives from PowerSoft Corporation will demonstrate their PowerBuilder Enterprise.

To replace character-based tools such as APT and Data Workbench, PowerBuilder Enterprise is a comprehensive, object-oriented environment for open client/server development, with access to a variety of server databases.

For more information, call Susan Eng, at Ext. 7988, or send e-mail to sge@bnl.gov.

Nursery School Holds Registration

The Upton Nursery School, an on-site, parent-run cooperative, is accepting registrations of three- and four-year-olds for the 1995-96 school year.

The school meets three mornings a week in the Recreation Building and is open to children related to BNL employees, guests and on-site contractors. The nursery school is not affiliated with the Child Development Center. For more information or to register your child, call Janice Steski, 929-3859.

Carpoolers Could Be Winners In New Lottery

What's the biggest reward from carpooling — the good feeling of helping the environment, the friends you make, the money you save, the lack of hassle when someone else is driving?

All of these are important, but now there's another rewarding reason to be glad you carpool or to start doing it: prizes!

In just a few weeks, the folks at BNL's Employee Commute Options (ECO) program's Commuter Assistance & Information Service (CAIS) will draw the names of 20 lucky car or van poolers out of a hat and award them U.S. savings bonds with maturity values ranging from \$50 to \$1000.

If you have already registered your carpool with the CAIS, then you don't have to lift a finger to be eligible for the ECO lottery — your entry is automatic.

But, if you haven't let the office know that you share a ride even once a week, remembering that your spouse or roommate qualifies as a ride-sharer, then call Ext. 2446 to register over the phone.

For more information on starting or joining a car or van pool, or on the other benefits of sharing a ride, such as free defensive-driving classes, call or stop by the office in Bldg. 129T.



EMPLOYEE COMMUTE OPTIONS

Softball

Standings as of August 4

League E1		League M1	
Blue Jays	12-1	Goodtimers	8-3
Phoubars	10-3	StingRays	8-3
System	9-4	Gour-Mets	7-4
Jerky Boys	7-6	Snake Bites	6-5
Six Pac	6-7	Parke Avenue	5-6
Titans	5-8	Personnelities	3-8
Up & Atom	2-11	Strike Force	1-10
CCD	1-12		
League E2		League M2	
Big Sticks	10-1	Skeleton Crew	7-2
Hammerheads	8-3	OER-Wellheads	6-3
Lights Out	8-3	Varmints	6-3
Contaminators	7-4	No Names	5-4
Phase Out	7-4	What's on 2nd	3-6
Hy Tech	6-5	Ground Hogs	3-7
Scram	6-5	Stray Cats	2-5
Sure Fire	5-6		
Feds	3-8	Scoring Notice	
Out of Control	3-8	If winning teams do not	
Bombers	2-9	submit score sheets to their	
Medical	1-10	League representatives,	
		unreported scores will be	
		recorded as losses for both	
		teams.	

Arrivals & Departures

Arrivals

Coomaraswamy Gopinath.....CCD
 Frederick J. Petschauer.....SEP
 Peggy C. Sutherland.....NSLS

Departures

Tamara A. Galen.....Adv. Tech.

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

Turtle Talk

It's a busy time of year for turtles, which are apt to be crossing Lab roads through September as they search for mates. So drivers should be aware that what looks like a fallen leaf in the roadway could very well be a box turtle. Drive carefully to help preserve this protected species. And, if you spot a turtle crossing, why not give it a helping hand, if it can be done safely? Be sure to bring the turtle to the side of the road that it was heading for, or it will just try again.

Bowling

Call for Bowlers

Applications for the Tuesday night men's bowling league in Port Jefferson and the Thursday night mixed league in Rocky Point are available now at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m. to 1:30 p.m.

All BNL employees, retirees, on-site contractors and their families may join. You do not have to be a great bowler, just a willing one! For more information, call Debbie Botts, Ext. 7218, or Maryann Musso, Ext. 2352.

Attn: Team Captains

Registration for existing bowling teams is due by Wednesday, August 16, and will be given priority; new-team registration is due by Friday, August 18.

All bowling team captains will meet on Wednesday, August 23, at noon, in Room D, Berkner Hall.

Cafeteria Menu

Monday, August 14

Soup: Black bean & cilantro .90/1.20
 A la Carte: Turkey à la king 3.85
 Lite: Flounder julienne 3.95
 Deli: Turkey w/stuffing 3.20
 Grill: Swordfish teriyaki 3.30

Tuesday, August 15

Soup: Cream of broccoli .90/1.20
 A la Carte: Meatloaf w/mushroom sauce 3.85
 Lite: Chicken w/cranberry glaze 3.95
 Deli: Roast loin of pork 3.20
 Grill: Western omelet 3.30

Wednesday, August 16

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, August 17

Soup: Country vegetable .90/1.20
 A la Carte: Ham w/redeye 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, August 18

Soup: Manhattan clam chowder .90/1.20
 A la Carte: Stir-fry beef 3.95
 Lite: Stir-fry chicken 3.95
 Deli: Baked ham w/beans 3.20
 Grill: Tuna melt 3.30

BROOKHAVEN BULLETIN

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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.

SCIENTIFIC RECRUITMENT - Doctorate usually required. Candidates may apply directly to the department representative named.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in synthetic organic chemistry, to develop rapid synthetic methods for the incorporation of the short-lived positron emitters into organic molecules to be used as radiotracers for basic studies in the neurosciences, within the PET program. Experience in high-performance purification and analytical methods is desirable, as is experience in handling and assaying radioisotopes. Contact: Joanna Fowler, Chemistry Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 2082. TECHNICAL POSITION - Will provide mechanical support for experimental research programs at the High Flux Beam Reactor. Under direct supervision, will assist in installation, assembly and maintenance of experimental equipment and facilities. Previous relevant work experience highly desirable. (reposting) Physics Department.

LS 0058. BIOLOGY ASSOCIATE POSITION - (term appointment) Requires a BS/BA degree in biology/biochemistry, and knowledge of standard recombinant DNA molecular cloning and sequencing techniques. Practical experience in general nucleic acid biochemistry, DNA cloning, PCR amplification, plasmid DNA preparation and use of an ABI automated fluorescence DNA system is required. Familiarity with DOS and Macintosh computers, and the ability to work in a group setting are essential. Responsibilities include interacting in an integrated high-volume DNA sequencing program. Biology Department.

Motor Vehicles & Supplies

95 MUSTANG GT - black, fully loaded, 5-spd., 7k mi., mint cond., asking \$20,000. Pat, 878-9117.

94 FORD F-150 4x4 PICKUP - cap, extra-long bed, ext. cab, fully loaded, dual gas tanks, a/t, 30k mi., \$19,000. 732-4668 or 288-2080.

94 HARLEY DAVIDSON - custom, blue, mint cond., asking \$15,900. Bill, 878-4072.

91 MERCURY CAPRI XR2 - conv., red, turbo, loaded, 53k mi., 5 yr./60k mi. warr., excel., \$7,800. Ed, Ext. 5360 or 477-8117.

90 TOYOTA COROLLA LE - a/t, all power, cruise, ac, am/fm/tape, 4-dr., 4-cyl., 74k mi., new timing belt, well maint., excel. cond., \$5,800. Vinny, Ext. 4706.

89 CHEVY CORSICA - 4-dr., 4-cyl., ac, a/t, cruise, tilt, high mi., excel., \$2,800. Gabriel, Ext. 2707 or 341-1087.

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

89 CHEVY BLAZER - black, Tahoe pkg., 4LV-6, alarm system, excel. cond. in/out, \$4,000. Ext. 7631.

88 OLDS FIRENZA - a/t, full power, cruise, ac, 4-dr., 90k mi., excel. cond. Arnie, Ext. 2606.

88 TOYOTA COROLLA - 89k mi., ac, 5-spd., v.g. cond., \$3,900. Joel, Ext. 5038.

87 FORD TAURUS - a/t, ac, cruise, am/fm cass., p/mirror, clean, 98k mi., good cond., \$2,200 neg. Gang, Ext. 3625/1273.

86 BLAZER 4x4 - ac, p/w, a/t, p/l, sunroof, needs mech. work, \$1,750 neg. Lenny, Ext. 4421.

85 LINCOLN TOWN CAR - black, excel. cond., in & out, asking \$3,000. Len Emma, 744-2404.

85 CHEVY MONTE CARLO - new tires, exhaust, brakes & starter, runs well, looks good, very dependable, asking \$1,500. Phil, Ext. 4421 or 758-8428.

85 FIREBIRD - 350 cu. in., a/t, full power, custom int., 16" wheels, \$3,200. Frank, Ext. 4220 or beeper, 279-3539.

85 HONDA ACCORD LX - 4-dr. sedan, ac, p/s, am/fm stereo cass., 49k mi., v.g. cond., \$2,500. Paul, Ext. 7644 or 929-4295.

85 NISSAN PULSAR - black, ac, sunroof, new tires, excel. cond., \$1,500. Gaby, Ext. 3906.

85 HONDA CRX - 2-dr., 5-spd., sunroof, 117k mi., 46 mpg, \$1,000 or best offer. Pete, 331-1485 after 5 p.m.

84 CADILLAC ELDORADO - clean, runs well, low mi., reasonable. 727-7741.

84 OLDS ROYALE 88 - V-6, excel. cond., \$1,600. Ion, Ext. 3606.

84 CHEVY C-20 - w/11' Coachman slide-on camper, fully equipped, both ac, plus fg cap, excel., \$8,000. Hank, 472-0553.

84 NISSAN SENTRA - 2-dr. h/b, 5-spd., am/fm cass., 86k mi., runs well, best offer. Fong, Ext. 3421.

83 CHEVY SUBURBAN - Silverado, p/everything, cruise, 3/4-ton, trailer hitch, new brakes, shocks & exhaust, \$2,800. Phil, Ext. 4421 or 758-8428.

83 DODGE PASSENGER VAN - just reconditioned by Dodge, full-size, windows, ac, cruise, stereo, excel., \$3,600. Mike, Ext. 3430.

82 YAMAHA 920 VIRAGO - new battery, clutch, master cylinder, runs well, asking \$1,250. Henry, Ext. 5725 or 727-7227.

82 PONTIAC GRAND PRIX - ac, p/w, p/l p/trunk, T-top, 83k mi., runs well, \$1,500 neg. Mike, Ext. 3255.

81 JEEP CJ8 - great motor, needs body work, hard top, soft top, best offer over \$1,500. 286-8554.

81 FORD LTD WAGON - 351 V8, fully operational, good cond., John, 298-4608.

81 HONDA ACCORD LX 20 - h/b, p/s, ac, new clutch, needs tranny work, asking \$350. Walter, Ext. 3848 or 281-9299 after 6 p.m.

79 OLDS DELTA 88 ROYALE - runs well, needs muffler, \$300. Mauro, Ext. 4254.

78 TRUCK CAMPER - sleeps 5-6, stove, sink, bath, everything works, awning, good cond., \$950. John, Ext. 3302 or 927-0651.

OLDS - 455 Rocket, 400 turbo tranny, excel. running cond., \$500. Joe, Ext. 2214.

TOYOTA CELICA GT - 5-spd., ac, 2-dr., all power, excel. cond., \$9,200. Frank, Ext. 3120.

CAP - A.R.E. fg, for 8' bed truck, blue, excel. cond., \$600 neg. Joe, Ext. 2350.

WHEELS - 5 BMW BBS mesh type, 5 lug, 14"x7", \$150; 4 Subaru 13"x6" spoke-type, sandblasted, manuals, \$100. Dorian, Ext. 4482.

OIL - other automotive fluids, 50¢/qt.; radiator flush, \$1. Morris, Ext. 4192.

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

CHEVY S10 CAB - for '85, good cond., best offer. Jesus, Ext. 4879.

SUBWOOFER - 2, Kicker C10a in box, for car audio system, can demo, \$275. Joe, Ext. 5741.

89 BUICK LESABRE - 78k mi., 6-cyl., p/s, p/b, ac, maroon, 4-dr., am/fm cass., excel., \$4,000. Greg, Ext. 7960.

88 CHEVY S-10 BLAZER - 2.8L, V-6, 2-dr., a/t, p/w, p/w, class 2 hitch, 98k mi., \$5,600. 878-8865.

88 DODGE CARAVAN - 135k mi., \$1,000. Susan, 924-1538.

87 CHEVY CAVALIER Z-24 - full power, ac, excel. mech. cond., \$2,800. Ext. 7908 or 473-7460.

87 FORD TEMPO 4x4 - 4-dr. sedan, 4-cyl., orig. owner, well maint., loaded, 86k mi., excel. cond., must see, asking \$3,500. Ext. 2683 or 751-2469.

87 JEEP CHEROKEE 4x4 - a/t, 4.0L, 6-cyl., ac, 4-dr. h/b, roof rack, runs well, \$4,300. Carlos, 399-6390.

87 MERC. SABLE GS - 4-dr. sedan, a/t, 6-cyl., ac, am/fm, white, blue int., 86k mi., \$3,000. Takeshi, Ext. 5323.

87 SUZUKI SAMURAI - 4wd, new top, \$1,900. Phil, Ext. 4417 or 821-1839.

86 AUDI QUATTRO - 5-spd., p/s, p/b, ac, sunroof, \$3,800. Ext. 3338 or 286-3863 eves.

85 YAMAHA B.W. - 200 cc, off-road ATV, \$800. Dan, Ext. 4220 or 698-7322.

85 SUBARU WAGON - white, roof rack, v.g. cond., \$900. 281-7844 eves.

84 PONTIAC 60006E - runs but needs work, \$475. Bob, Ext. 2270.

83 CAMARO - 4-spd., sunroof, rebuilt eng., new struts, clutch, windshield, radiator, exhaust system, radio, asking \$1,750. 325-0563.

82 DATSUN 210 WAGON - 5-spd., am/fm cass., \$300. Rich, Ext. 5725.

82 PROWLER CAMPER - 19', sleeps 6, propane tanks, awning, \$4,000 neg. Helen, 744-5578.

82 VOLVO WAGON - 5-spd., good cond., dependable, 140k mi., 751-8731.

80 CJ-5 - hard top, \$400 or best offer. Rich, Ext. 3499.

69 BUICK SKYLARK - 4-dr., hardtop, 350 V-8, a/t, p/s, p/b, runs well, ask \$500. Joe, Ext. 3893 or 653-4836.

68 GMC 3/4-ton, running gear. Dana front & rear diff., 4-spd. trans., transfer case. Ron, 363-8727.

TIRES - 4, GM, 8-lug, 16x8 alum. rims, new; 2, 235x16, white letter, \$275. Ken, Ext. 7268.

SHOP MANUAL - '91 S10 Blazer, \$15. George, Ext. 3783.

MUSTANG - '84-'86 rear hatch w/glass, \$45; pass. side door, \$25; 4, 14", 4-bolt rims, \$30; sunroof, \$30; steps, Blazer or Bronco, make offer. Joe, Ext. 5340.

COLEMAN RV - ac, roof mount, 13,500 Btu, excel. cond., \$450. Ron, 363-8727.

RACK SYSTEM - high side reading toolboxes w/locks for 8' bed, rear window mesh, universal fit, \$500. Dorian, Ext. 4482.

Sports, Hobbies & Pets

ARCHERY EQUIPMENT - youth and adult RH bows, rests and arrows, also selling 1994 Hoyt Superstar FF Bow, \$250. John, Ext. 8197.

BICYCLE - 20", good condition, \$5. Ext. 7505.

BICYCLE - Ross 10-spd., men's, good cond., \$50. 567-9025.

BIKE - girl's 20", \$18; child's wood desk & chair, \$30. 821-1435.

BUNNIES - \$10 ea.; sports cards & starting lineup. Richwood, Ext. 5675, 444-2336 or 289-4241.

CAMERA - Nikon F3 w/50mm lens & 28-70mm, 200m, w/ gadget bag, \$375; Nikon Photomic F2, w/135mm telephoto, \$350. 924-8558 after 5 p.m.

EXERCISE BIKE - \$60; adult's bike helmet, new, \$15. Joe, Ext. 2898.

EXERCISE BIKE - AMF ergometer, \$40; 2-burner camping stove, Benzomatic, propane, w/fittings for 20-gal. tank, \$20. Albert, 727-4884.

EXERCISER - Body by Jake, used 5 times, \$80. Al, 331-1003.

GOLF CLUBS - used drivers, Taylor Made, Cleveland & Palm Springs. John, Ext. 8197 or 929-5358.

PUPPIES - Bichon Frise, white, AKC registered, 2 males. Mort, 567-7813.

DOG - Beni lookalike, sweet-natured, affectionate terrier, young, neutered male, needs loving home. Eddy, 689-1725.

DOG - Cairn terrier, abandoned by owners, 3 yrs. old, good w/children, AKC, needs loving home. Ext. 5873.

PUPPIES - Dalmation, 6 wks. old, w/shots, AKC papers, just born, 924-8558 after 5 p.m.

DIRT BIKE BOOTS - AXO, used 3 times, size 10, AXO gloves & Scott goggles, all new, \$125. Joe, Ext. 5340.

DOGHOUSE - Dogloo, never used, \$50. Nancy, Ext. 4177.

Audio, Video & Computers

AMPLIFIER - Kenwood, start button needs repair, otherwise in perfect cond., \$50. Mott, Ext. 7108.

CAMCORDER - G.E. full VHS, extra accessories, hard case, \$200. Naidu, Ext. 4263.

COMPUTER - Compaq 386, 1 MB RAM, 71 MB hard drive, IBM mono VGA monitor, 1.44M diskette w/WordPerfect 6.0, 5.1, Typing Tutor, \$350. Sue, Ext. 4931.

GAMES - Sega Genesis, Spinball, Lemieux Hockey, Larussas Baseball, NHL 95, Sonic 2, basketball, \$15 and up. Chris, 399-7493.

PLOTTER - HP7475A pen plotter, cable, paper, pens, good cond., orig. \$1,200, now \$500. Paul, Ext. 7697.

SPEAKERS - \$10 ea.; stereo & turntable, \$30; type-writer, \$18; kitchen table, 4 chairs, excel., \$125. Kathy, 744-2203.

TV - 27" Panasonic color, flat black screen, invar. mask, \$480; Sony hi-fi VCR, 4 heads, cable control, \$330. Rob, Ext. 5161.

TV - G.E. 22" screen, floor console, great picture, \$125. Chris, 399-7493.

CAMERA - Nikon FM, lenses, tripod, flash, tele-converter, zoom, sev. acces., can sell sep./complete; Teac IDE hard drive, 105 MB, \$55. Hank, Ext. 7595.

CD PLAYER CHANGER - Onkyo-DX-C201, 5-disc, manuals, cables, excel. \$100. Tom, 281-6498.

COMPUTER - 286, color mon., software, mouse, \$200 neg.; tennis rackets & balls. Gang, 341-1273.

COMPUTER - NEC 286, screen, HD, DOS, chess, personal finances software, \$70. Dave, Ext. 5460.

PRINTERS - Panasonic KXP1592, Okidata Microline 391, TI Omni 800, model 855, \$30 ea. Bill, 878-4356.

PRINTER - 24-pin Toshiba 250SL line printer, sheet feeder, extra ribbons, cable, 2 font cards. John, Ext. 3108.

STEREO RECEIVER - Sony STR-V25, \$60. Joe, Ext. 2898.

Miscellaneous

BABY'S CRIB - solid heavy-duty oak, \$85. 473-6432.

EQUIPMENT FOR HANDICAPPED - new, mobile, upholstered commode chair, walker, transfer board, more, best offers. Bill, 924-6940 after 4 p.m.

INFANT'S CARSEAT - \$30; swing, \$20; infant's chair, \$15; play pen, \$20. 874-3127.

JACKET - gray fox, \$150; wedding dress, size 7, \$300. Harry, Ext. 3450.

MEN'S SUIT - Haggar, 42 reg. jacket, 34x32 pants, beige, never worn, \$75; navy blue Haggar sports coat, 44 reg., ask \$40, never worn. Kevin, 331-4525.

MOVING SALE - contents of home, furniture, tools, appliances, etc.. 924-4927.

TICKETS - 2 for *La Cage Aux Folies*, Gateway Theater, Bellport, Sunday, 8/20, 7 p.m., 4th row center, \$20 ea. Frances, Ext. 4382.

WHEELCHAIR - \$125; bar-height table & 2 chairs, \$75; solar pool cover, \$20; Stiffel lamp, \$75; couch, cut-velvet, traditional, \$200. Corinne, 654-3697.

Free

COAL - 1 1/2 tons, pea size, you haul. Dave, 474-4479.

DOG - Border Collie mix, 1 1/2 yrs. old, neutered, all shots, very friendly, needs good home; also kittens, 7 wks. old. Ed, Ext. 2697.

HAMSTERS - adorable, baby, 6 wks. old, 8 avail. Tori, Ext. 2073.

Yard and Garage Sales

MIDDLE ISLAND - 8/12-13, ac, chest, queen mat. & boxspring, crib, dining table, TV, stereo, VCR, cabinets, baby's items, etc., 223 Artists Lake Dr.

Car Pools

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

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, religion, sex, age, national origin, disability or veteran status of the applicant.

For Rent

BAITING HOLLOW - beach cottage, sleeps 4, l/r, eik, bsmt., deck, patio, priv. beach, rec. hall, laundry, near Splash Splash, wineries, golf, fishing, \$450/wk., multi-week discount. Mike, Ext. 7861 or 698-3967 eves.

CALVERTON - 2-bdrm. townhouse, l/r, d/r, 1 1/2 baths, deck, patio, cac, all appl., close to LIE, no pets, \$900/mo. + util., sec., refs. Mike, Ext. 7772 or 369-3307 eves./wknds.

E. PATCHOGUE - 1-bdrm. apt., eik, l/r, all util. & basic cable incl., avail. now, nonsmoker, no children. Bob, 289-1834.

MANORVILLE - 2-bdrm. condo, 2 baths, on golf course, 1 yr. free golf, kit., dining area, lg. l/r, entrance hall, carpeting, screened patio, pool, tennis, \$1,000/mo. Don, 864-5935.

MASTIC BEACH - 2-bdrm. apt. to share, 15 min. to Lab, priv. ent., lg. bdrm., kit. Ext. 2058.

MASTIC - 2-bdrm. bsmt. apt., w/w, carpeting, cable, full kit., l/r, bath, nonsmoker, single, prof., no pets, refs., \$625/all. Norma, 281-8598.

MASTIC PARK - 2-bdrm. apt., eik, w/w, upstairs, priv. parking, \$600/mo. + elec.; 1-bdrm. cottage, l/r, eik, heated porch, bsmt., fenced, newly renovated, \$750/mo. incl. heat. 281-3322 eves.

MIDDLE ISLAND - 1-bdrm. coop, upper unit, Artist Lake area, cac, w/d, deck, ceiling fan, \$750/mo. 345-5600.

MILLER PLACE - 1-bdrm. apt., l/r-kit., spare rm., util. incl., priv. ent., gar. 473-1658 after 6 p.m.

MILLER PLACE - lg. 1-bdrm. apt., l/r, eik, priv. ent./parking, w/w, full bath, avail. now, \$700/mo. incl. all. 345-2677, leave message.

PORT JEFFERSON VILLAGE - lg. furn. rm., share bath, priv. ent., cable, nonsmoker, no pets, long or short term, 15 min. to Stony Brook, 25 min. to Lab, \$100/wk. 473-6432.

ROCKY POINT - 1-bdrm. apt., l/r-d/r, kitchenette, full bath, carpeting, patio, parking, walk to beach, no pets, refs. req., \$600/all. 821-6698 or 718-721-4271.

SHIRLEY - studio apt., new carpet & bath, priv. ent., cable, nonsmoker, no pets, 10 min. to beach or Lab, \$550/mo. 473-6432.

STONY BROOK - lg. furn. room, priv. bath, cable, must love dogs, \$70/wk. Robin, Ext. 5589.

WADING RIVER - 1-bdrm. house, new bath, quiet street, walk to Wildwood Park, coal stove, single/couple, \$700/mo. + util., avail. Sept. Mike, Ext. 4202.

YAPHANK - 2-bdrm. house, l/r, kit., breezeway & gar., lake front. 924-3919.

YAPHANK - 1-bdrm. apt. w/loft, kitchenette, l/r, full bath, near LIE, \$600/mo. all, 1 mo. sec. 924-3588.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, pool, beach, golf nearby, through Sept., \$475/wk. Guy, Ext. 3147 or 689-5378.

PUERTO RICO - Palmas del Mar, 5-star vacation resort, 2-bdrm. villa on marina, 12/2-9, golf, water sports, fishing, horses, beach, pools. Pat, Ext. 5406.

For Sale

CALVERTON - 2-bdrm. cottage on the lake, 50'x100', skylights, l/r, kit., porch, dock, spectacular view. Mike, Ext. 3430 or 757-6286.

EAST MARION - 1-acre bldg. lot, adjacent to greenbelt, walk to Sound. 325-0447.

E. PATCHOGUE - South Country Shores, 3-bdrm. ranch, totally renovated, all new windows, doors, appl., 1/2+ acre, \$137,000 or rent for \$1,200/mo. Ext. 7502 or 475-6004.

E. PATCHOGUE - attention golfers! overlook 7th hole, 2 bdrm., 2 baths, fp, 2-car gar. + guest quarter, views of golf course & bay, \$256,000. 286-3209.

E.