BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

BNL Working With U.S./Norwegian/RussianTeam To Keep Russian Rad Waste Out of Arctic Environment

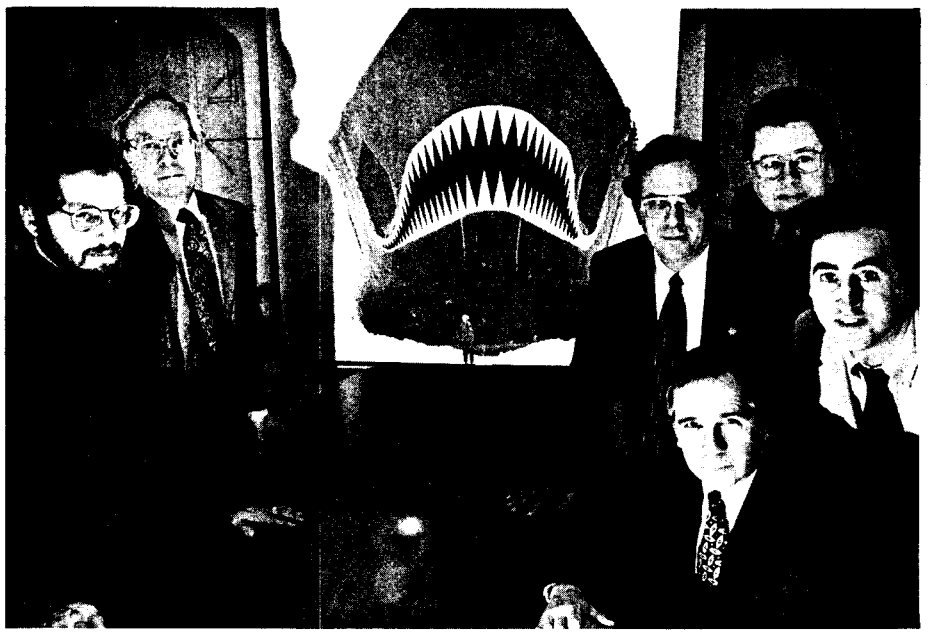
The dumping of nuclear submarine reactors, fuel assemblies and low-level radioactive waste into the Arctic and North Pacific Oceans between 1959 and 1992 was disclosed to the world in 1993 by the Russian Federation. As part of the international response to this disclosure, the U.S. is working with Norway and Russia to prevent any future nuclear contamination through several bilateral and multilateral efforts.

As one of the projects to prevent future nuclear contamination of the Arctic Ocean, the U.S. is helping the Russians develop technologies to treat radioactive wastes generated during the dismantling of nuclear-powered submarines from the Russian Navy's Northern Fleet and from the continuing operation of the world's only commercial nuclear-powered icebreaker fleet.

Russia has revealed that the facility for processing the nuclear materials and waste involved in this task must be upgraded and expanded.

The Environmental & Waste Technology Center (EWTC) in BNL's Department of Advanced Technology (DAT), under contract to the U.S. Environmental Protection Agency's (EPA) Office of International Activities, is providing technical support for this effort. Specifically, the EWTC is involved in what is called the Murmansk Initiative, a cooperative effort begun in 1994 by the U.S., Norway and Russia to expand and upgrade Russia's capacity to store and process liquid and solid low-level radioactive wastes, and to reduce their discharge into the Arctic Ocean.

The initiative followed the September 1994 summit of Presidents Bill Clinton and Boris Yeltsin. They announced that cooperation in resolving the problems of processing and storing Russian liquid low-level radioactive waste in north Russia was important to both countries because it would enable more effective environmental protection of the Arctic.



The liquid low-level radioactive waste from Russia's nuclear-powered vessels, such as the icebreaker *Yamal* (background), was discussed during a March 6 meeting at BNL by some of the U.S. members of a trilateral technical team that reviewed the technical design for the expansion and upgrade of a plant in Murmansk, Russia, which handles such waste. They included: (from left) Paul Moskowitz, Department of Advanced Technology (DAT); Romney Duffey, DAT; Robert Dyer, U.S. Environmental Protection Agency; Donald Gardner, Raytheon Corporation; Robert Gordon, U.S. Department of Energy (DOE); and (seated) Joesph Da Silva, DOE. — Photos in this issue by Roger Stoutenburgh

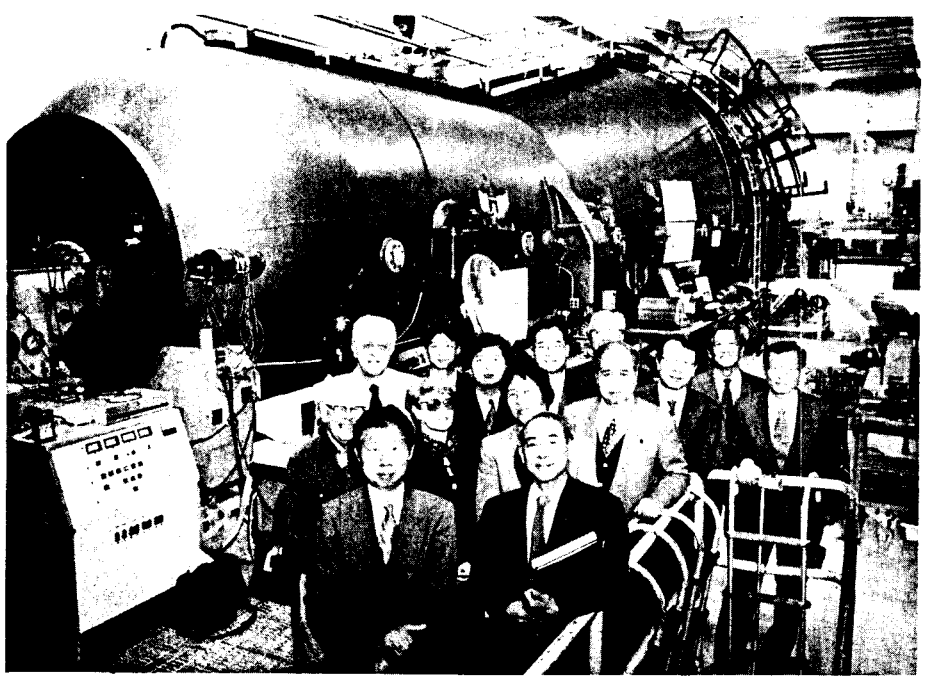
As a result, BNL's Richard Davis, Romney Duffey, John Mulligan and Paul Moskowitz have been among those who have evaluated technology proposed for the upgrade and expansion of a liquid low-level waste processing plant in Murmansk, Russia, a city located near the Norwegian border, inside the Arctic Circle.

The modifications to the existing plant will increase its capacity from 1,200 cubic meters per year to 5,000 cubic meters per year, permit the plant to process high-salt wastes from the decommissioning of the Northern Fleet of the Russian Navy, and improve the stability and interim storage of the processed wastes. Among the novel Russian technologies selected for the design are: ferrocyanide resins to adsorb the radionuclides, an electrodestructor for organic contamination, and an electromembrane system to treat salts in the liquid waste.

In December 1995, the EPA and the Norwegian Ministry of Foreign Affairs approved the technical redesign. Since then, the governments of the U.S., Norway, and Russia have signed a protocol covering the technical, financial, and management aspects of this expansion and upgrade project. Construction is slated to begin in June, and the improved and enlarged plant will be operational within 18 months.

"As a White House press release on this initiative noted, the experience gained from this project, though it addresses only one component of the radioactive-waste management problem in northern Russia, could be applied in the future to other cooperative projects that advance the ecological security of the Arctic," concludes Moskowitz. — Marsha Belford

Sharing an Interest in Ion Beams



A delegation from the Energy Research Center, Wakasa Bay, and other Japanese institutions visited BNL in February to review applications, both medical and industrial, and equipment for a new ion-accelerator being planned at the Wakasa Center. The visitors, who toured several Lab facilities, were pictured here in front of the Tandem Van de Graaff with their hosts: (second row, from left) Herb Kinney, Director's Office; Elaine Lowenstein, Museum Programs; and (back left) Peter Thieberger, Physics Department. This accelerator was of particular interest to the group because of its dual use as a particle injector for the Lab's Booster-Alternating Gradient Synchrotron-Relativistic Heavy Ion Collider complex and as a source of energetic ions for industrial and technological applications. In the next room, the group saw the irradiation test facility, where the National Aeronautics & Space Administration, the European Space Agency and many companies, laboratories and universities use ions from the Tandem to test and calibrate electronics and other spacecraft instruments and hardware.

A Question of Awareness: Sexual Harassment Training

Sexual harassment in the workplace has been recognized as a comparatively recent problem. Nationwide surveys have shown that the very employees trapped in sexual harassment situations are those with the least leverage to deal with it or confidence to report it. Thus, some people can silently endure annoyance or real misery that goes unnoticed by others around them.

Jeffrey Taylor and Frances Ligon, Diversity Office

To clarify the Lab's position on appropriate behavior in the workplace, Lorraine Merdon, Manager of the Diversity Office in the Human Resources Division, has initiated a short course being given at various locations on site, and which all employees are encouraged to attend.

"A problem can start because of a lack of awareness of what another person may perceive as harassment," says Jeffrey Taylor, Senior Diversity Coordinator. "Our goal with this course is to heighten everyone's sensitivity to employees' feelings and reinforce the Laboratory's policy on sexual harassment."

The one-hour course was developed by Taylor and the Human Resources Training Department, with input from Senior Diversity Coordinator Frances Ligon, who is also presenting the new program.

The session is designed to provide a basic understanding of sexual harassment and help employees recognize unwelcome behavior. It provides a model of appropriate behavior for the work force, as well as an indication of

(continued on page 2)

Flik International to Run BNL Cafeteria

Beginning tomorrow, Saturday, May 4, BNL cafeteria-goers will be greeted and served by the Lab's new food-service contractor, Flik International Corp.

A regional food-service company founded in 1971 by Ruediger and Julie Flik, Flik now serves 100 accounts throughout the tri-state area, including the original account at Sarah Lawrence College.

"Our key commitments are to quality and the customer," said Kevin Poletti, who, as Resident Food Service Director, heads the new cafeteria management team at BNL.

After gaining experience in food service with the U.S. Air Force, Saga Corporation and Country Breadboard, Poletti joined Flik in 1979. Most recently, he has been working in Mamaroneck, New York, as Flik's Director of Field Services.

"We're looking forward to providing food and service of the highest quality and greatest value to the Lab clientele in the cafeteria and the Center Club and at catered functions," he said.

Poletti's team includes Food Service Manager David Schrader, who is new to Flik, but has 20 years' extensive knowledge of the Long Island food-service world in capacities from supervisor to director of food-service operations for Grumman and Northrop Grumman Corporations.

Like Poletti, Schrader is committed to quality and feels it is important to understand the client's needs. "You can do good quality food and at the same time provide for the cost restraints of the customer," he said.

Sarah Welsh, as Catering Manager, provides liaison between the client and the kitchens, and she will be working closely with Christine Ronick, BNL's Conference Support Supervisor in the Administrative Support Division (ASD). Welsh's experience includes working at the New Orleans Hilton and co-owning a restaurant in Greece. Originally from Virginia, and a graduate of the Culinary Institute of America, she has many ideas for menus as well as new plans for the Center.

Vital to the team is Bruce Scandura, Executive Chef, another Culinary Institute of America graduate. During his six years with Flik, Scandura has been in New York City as Sous Chef for Cleary, Gottlieb, Steen & Hamilton and then the larger Marsh & McLennon Companies. Now he is eager to use his skills at BNL.

At Berkner Hall, (from right) Staff Services Manager Ron Manning meets with the new food- services team from Flik International: Resident Food Service Director Kevin Poletti, Food Service Manager David Schrader and Catering Manager Sarah Welsh. Missing from the photo is Executive Chef Bruce Scandura.

"I enjoy cooking," Scandura said. "I hope that comes across, and I can make everyone happy. It's a good feeling when you see people smile over what they just ate." Scandura likes all kinds of cooking, but admitted that his favorites are hot foods of all types and ethnic foods, researched to be "as authentic as possible."

To prepare for their new positions at BNL, the Flik team has been at the Lab for the past four weeks. Headquartered in Room D, Berkner Hall, they have been planning operations and meeting with ASD's Staff Services Manager Ron Manning and other BNL staff, as well as employees who have been working on site for Service America, the contractor that concludes its Cafeteria management today.

Manning explained that the contract solicitation and selection was an extensive and thorough process. A four-member panel, consisting of Mark Sakitt, Director's Office; John Laurie, Information Services Division; Ken Mohring, ASD; and Manning himself, assisted by Anthony Salvo and Jeanmarie Volkmann of the Division of Contracts & Procurement, and Lisa Kelly, Associated Universities, Inc., designed the Request for Proposal and scoring criteria, then evaluated the proposals that were submitted. The panel then made its recommendation to Hank Grahn, BNL's Associate Director for Administration, who made the final decision.

Said Manning, "I am delighted to have Flik International on board as our food-service provider. The company is strong in the industry, and they have assigned a strong management team to the BNL operation. I am looking forward to a very positive BNL-Flik partnership."

— Liz Seubert

Note to Diners

Due to the changeover of food services contractor, the cafeteria will close at 1:30 p.m. today, Friday, May 3, and will be closed all day on Sunday, May 5. Snack bar service will be available on Sunday at the Brookhaven Center from 9 a.m. to 2 p.m. Saturday cafeteria hours will be as usual.

In addition, there may be some temporary interruption of vending machine service in certain areas, as these machines will now be operated under a new, separate contract. The cold food machines in Bldgs. 179 and 912B and at the back of the National Synchrotron Light Source, which will be operated by Flik, will be continually serviced.

Coming Up

DOE Review of Laboratory Programs for Women

The fifth U.S. Department of Energy (DOE) Review of Laboratory Programs for Women will be held at BNL, Monday through Wednesday, May 6-8, organized by both Brookhaven and the Princeton Plasma Physics Laboratory. The Lab community is invited to attend the following events, all in Berkner Hall.

Tuesday, May 7

- **Keynote speaker** — Martha Krebs, Director of DOE's Office of Energy Research, "DOE and the U.S. Science Base: Critical Assets at Risk," 11 a.m.
- **Speaker** — Jacqueline Cooke, U.S. Department of Labor Women's Bureau, "Working Women Count," 1:30 p.m.

Wednesday, May 8

- **Speaker** — Sheila Tobias, science education writer, "Rethinking Science as a Career," 9 a.m.
- **Speaker** — Sylvia McDonald Monlyn, Director, Office of Strategic Planning, Budget and Program Evaluation, "Engendering Results: Continuing the Push Toward Diversity," 10:30 a.m.

AUI Distinguished Lecture

Stanford University's Martin Perl, 1995 Nobel laureate in Physics, will present an AUI Distinguished Lecture on Tuesday, May 14, at 4:30 p.m., in Berkner Hall. His topic will be "Craft and Art in Experimental Science."

Brookhaven Lecture

A. J. Francis, a microbiologist in the Department of Applied Science, will deliver the next Brookhaven Lecture on Wednesday, May 15, at 4 p.m. in Berkner Hall. He will speak about "Bioremediation of Contaminated Soils and Waste."

Cooking Exchange Resumes Next Week

A potluck luncheon will kick off the resumption of the Cooking Exchange, on Thursday, May 9, from noon to 1:30 p.m. in the Recreation Building in the apartment area. Bring your favorite dish to share. For more information, call Marlies Prechtl, Ext. 1013.

BNL/FBI Training Exercise Rescheduled

The first joint training exercise involving the BNL Police Group and the Federal Bureau of Investigation (FBI), which was canceled in March due to inclement weather, has been rescheduled for Friday, May 10.

The exercise will be conducted in the areas of Railroad Avenue by the warehouses, the cottages in the apartment area, and the North and South Rooms of the Brookhaven Center, Bldg. 30. The rest of the Brookhaven Center will be open for employees' usual evening use.

During the drill, passersby to those areas may see flashing lights and people in uniform carrying replica weapons, and may hear sirens and gunshots, though no live ammunition will be used.

All those who are not involved in the drill are asked to stay out of the three training areas during the seven hours of the operation. Those who must enter any of those areas during the drill are requested first to call BNL Police Headquarters, Ext. 2238, so a BNL patrol officer may assist in gaining access.

For more information, call Police Captain Michael Delph, Ext. 4968.

Sexual Harassment (cont'd.)

an effective response to sexual harassment. Taylor and Ligon are already giving the course, setting up sessions in different locations with the cooperation of department and division heads, training coordinators and equal opportunity representatives.

The pilot session was presented by Taylor in March, and four of the 18 participants were invited by the Bulletin to comment on the program.

"Sexual harassment's a delicate subject, but it was very well handled, presented most professionally," said Jan Naidu, Safety & Environmental Protection Division. "The nuances in legal interpretation were explained clearly and the length was good."

Robert Kaszuba, Administrative Support Division, agreed that the program is useful. "The difference between sexual harrassment and sexual discrimination was clearly defined, and the misuse of power was correctly identified as being at the heart of the problem," he said.

Women who attended the session were also favorably impressed.

"It was really interesting," said Camille Saville, Occupational Medicine Clinic. "People usually think that women are harassed by men, but we were reminded that the opposite situation exists also. It's important to educate the Lab population so that sexual harassment is unlikely to occur."

"Another interesting point the course brought out was that the way people react to certain jokes or any kind of physical contact can be because they have different cultures or backgrounds," said Corene Wood, Information Services Division.

As Merdon summed up: "Sexual harrassment is a diversity issue — men and women view behaviors in different ways, and, within the male and female population, the same behavior can be received differently. What is acceptable behavior in the workplace has changed over the years, just as the workplace itself has changed. The awareness program will give employees the guidelines of what behaviors are acceptable at Brookhaven."

— Liz Seubert

Arrivals & Departures

Arrivals

George T. Bostick.....Safeguards & Sec.
Daniel B. Chapman....Safeguards & Sec.
James K. Stewart.....Safeguards & Sec.

Departures

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

Cyndy J. Chisare.....Info. Services
Lewis Friedman.....Chemistry

Computing Corner

The Computing & Communications Division (CCD) is offering the following:

IDL Training

A five-day, highly interactive training class in IDL programming will be held during July. To participate, registrants must have at least six months of IDL programming experience or be proficient in some other programming language. The registration fee is $1,165 per person. For a course outline, more information and to register, contact Pam Mansfield, Ext. 7286, or e-mail pam1@bnl.gov.

P-CAD Users Group Meeting

The next meeting of the P-CAD Users Group will take place on Friday, May 10, in the CCD seminar room, Bldg. 515, at 10 a.m. The agenda includes the discussion of a report on the International P-CAD Users Group Conference and a presentation of the recently released ACCEL EDA Rev. 12 (formerly P-CAD for Windows) by an application engineer from ACCEL Technologies. For more information, call Pam Mansfield, Ext. 7286, or e-mail pam1@bnl.gov.

50 YEARS AGO THIS WEEK

This series, which recounts the earliest days of Associated Universities, Inc. (AUI), and BNL, will run as appropriate throughout 1996 and 1997, the 50th anniversary years of AUI and BNL, respectively.

• **May 3, 1946** — The Planning Committee of the Initiatory University Group (IUG) meets and reconsiders as the site of the new northeast research laboratory three army installations that had seemed less promising than several others when the committee met in mid-April. The three sites are (see map below): Camp Shanks (J), up the Hudson at Tappan, New York; Camp Upton (K) on Long Island; and Camp Devens (I), an hour and a half ride from Boston.

• **May 4, 1946** — IUG Planning Committee meets at Oak Ridge, Tennessee. This visit emphasizes that large amounts of cooling water will be required for the laboratory's reactor pile design, and this will necessitate investigation of well and reservoir facilities in greater detail.

• **May 8, 1946** — Stone & Webster engineers start survey of Fort Hancock (L) and Camp Upton sites.

In his Brookhaven Lecture of March 30, 1966, Norman Ramsey, who headed IUG's Subcommittee on Site, said, "The list of potential sites was further reduced by later indications from the Manhattan District that the site preferably should be on Government-owned land, or at least the land should be purchasable on the open market, since the Manhattan District in its closing days would be unwilling to institute eminent domain proceedings which would have to be completed by its successor, the Atomic Energy Commission.

"With these added restrictions," Ramsey continued, "the site that most nearly satisfied the requirements was David's Island, or Fort Slocum [C], an island approximately 3,000 feet long and 1,500 feet wide, about a mile from shore off New Rochelle."

Ultimately however, Fort Slocum's limited size and the indication that the Air Force would need this site made alternative choices necessary.

"In retrospect," said Ramsey, "it is interesting to note that this site was too small even for a 35-GeV accelerator*, but an accelerator of such a size was then beyond our powers of imagination."

Similar problems affected other site options: The probability that the army would retain much of the area for its own use ruled out Camp Devens; and, in addition to other severe limitations of the Camp Shanks site, the Federal Public Housing Administration was planning a veterans' housing project there, and the committee was concerned about adverse public reaction if it were canceled in favor of the laboratory.

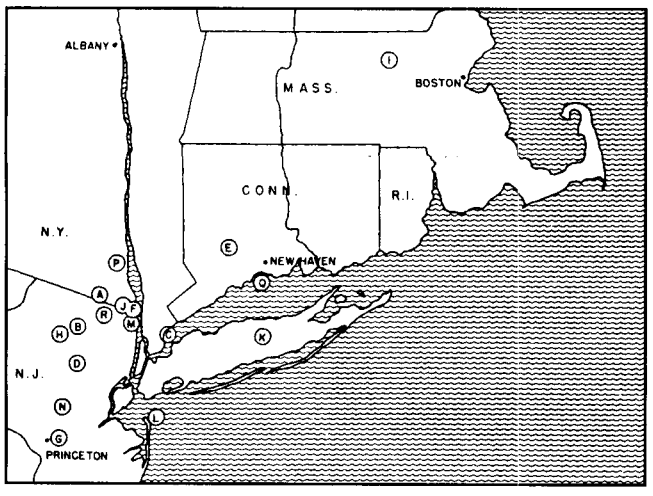
Thus, the Manhattan District requested that Stone & Webster study two developed sites, Camp Upton and Fort Hancock on Sandy Hook, New Jersey. However, should an undeveloped site prove more economical, two thinly populated sites in New Jersey were still under consideration: Lake Untermeyer (H) and a site near the Millstone River (N).

(To be continued on May 17.)

**GeV stands for billion electron volts, measure of an accelerator's energy; BNL's 33-GeV Alternating Gradient Synchrotron wouldn't have fit on Fort Slocum.*

Sites Considered for a National Lab in 1946

A - Bear Lake
B - Big Piece Meadow
C - Fort Slocum
D - Great Swamp
E - Lake Zoar
F - Palisades
G - Rocky Hill
H - Untermeyer Lake
I - Fort Devens
J - Camp Shanks
K - Camp Upton
L - Fort Hancock
M - Alpine
N - Millstone River
P - near Bear Mountain
Q - Connecticut shore
R - Saddle River



1996 Basketball Champions

Magic worked its wizardry to pull the BERA Basketball League's 1996 regular season out of the hat, with seven wins and one loss — to the Mustangs. In the championship game, however, the Mustangs galloped past Magic one more time, 58 to 57, to win the 1996 Basketball Championship. The champions are: (back, from left) Bill Gunther, Greg Mack, Hal Van Deroef, co-captain Charles Edwards, (front, from left) Jerry Cook, Jim Garrison, coach/captain Wayne Cummings, and Jim Desmond. Missing is Kiley Reynolds.

Bowling Pays Off for Ray Edwards

As reported in the Bulletin of April 12, before Ray Edwards became a technician in the Department of Applied Science, he was on the professional bowling tour. Now, even though he's given up the tour, he's still a bowling pro with the winnings to prove it — almost $13,000 from participating in two tournaments over the past two weeks.

Ray Edwards

First came the warm-up act: In the Bud Light Championship held in Sayville during the week of April 15, Edwards finished 21st and won $2,200.

Then it was on to the Brunswick World Tournament of Champions in Lake Zurich, Illinois. The only non-touring pro in this contest among winners of the past year's professional bowling tournaments, Edwards came in sixth and won $10,500. He almost made it to the televised finals, but, said Edwards, "I was in fourth with a game to go and had to bowl my best friend— and he beat me."

Does this success make Edwards long to go back on the tour? "No!" he said. "That's the only reason I did well — because I don't have to worry about winning for a living. I liked the bowling and the check in my wallet, but I also liked coming back to a good job and security." — Anita Cohen

New Benefit : Adoption Assistance

Effective October 1, 1995, the Lab has established a new reimbursement policy designed to assist eligible employees with certain expenses related to adopting a child. Since, through its medical programs, BNL covers many of the costs associated with childbirth, this program has been created to provide some financial assistance to parents who build their families through adoption.

Regular employees who work 20 hours or more per week and have completed at least one year of continuous service are eligible for this financial assistance. The reimbursement, which is taxable income and subject to withholdings, extends to a maximum of $3,000 for each adopted child, who must be under the age of 18 and not a relative or stepchild.

The expenses that may be reimbursed are:

• licensed adoption agency fees, including fees for placement and parental counseling

• legal costs, including attorney's fees and court costs

• charges for transportation to obtain physical custody of the adoptive child.

To benefit from this policy, employees must notify the Human Resources Division in writing within 30 days of the start of an adoption, or by May 9, 1996, for adoption procedures begun between October 1, 1995, and the April 9 letter announcing the new Adoption Assistance Policy sent to all employees by Human Resources Division Manager Robert D'Angio.

To cover an adopted child under the AUI Medical Plan, contact Human Resources, Ext. 2877, within 30 days of obtaining custody.

For more information on requests for reimbursement, contact Denise DiMeglio, Human Resources, Bldg. 185, Ext. 2881.

Volleyball

Standings as of April 23

Open League — Finals (best of 5):
Pass, Set & Crush 3, Monday Maulers 1
League II — Semifinals (best of 5):
Spiked Jello 3, Monday Nite Live! 0
Safe Sets 3, Fossils 1

Captains' Meeting

The agenda for the end-of-the-season volleyball captains' meeting at noon on Wednesday, May 8, in the large conference room of the Medical Department, Bldg. 490, includes election officers for the 1996-7 season. New blood is needed, and nominations are welcome for: president, vice president, secretary, treasurer and referee manager. Submit nominations to Rick Wagener, Bldg. 490D, or Terry Sullivan, Bldg. 830, by Monday, May 6.

End-of-Season Party

Forty people must attend if the Volleyball League is going to be able to afford to have a party similar to previous ones. Tentatively scheduled for Friday, May 17, from 6 to 11 p.m., in the Recreation Building, the party would include: hot/cold buffet; soda, beer and wine; and music — all for $17 a person if paid by Monday, May 13, or $20 each, if paid after May 13.

Team captains are asked to notify all team members of the party, then collect the money and purchase tickets at the captains' meeting on May 8, or earlier from: Terry Sullivan, Bldg. 830, Ext. 2840, or Ken Sutter, Bldg. 480, Ext. 4514. If necessary, individuals can purchase tickets directly. Non-league members are welcome to come to the party.

If less than 40 tickets are sold, the party may be canceled at the discretion of the Executive Board.

Tickets Available . . .

Tickets are still available for the following BERA-sponsored trips. For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

Broadway — Saturday, June 1

Theatergoers have a choice of two shows: *Showboat* or *Sunset Boulevard*.

For *Sunset Boulevard*, the per-person price for the full day's activities is $105; for *Showboat*, the per-person cost is $120. The cost includes: round-trip bus transportation, orchestra or mezzanine seats for the selected matinee, a full-course dinner at a theater-district restaurant, and a visit to South Street Seaport.

A $50 deposit to reserve tickets is due now at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m. to 1:30 p.m.

Disney World — October 15-21

All BERA employees, retirees and their families are eligible for BERA's sixth annual seven-day, six-night trip to Walt Disney World in Orlando, Florida.

Hospitality Meeting to Focus on Lyme Disease

At the next Hospitality Committee get-together, Robert Selby of the Safety & Environmental Protection will speak on "Ticks and Their Control, Lyme Disease and Its Prevention." The talk will be given from 9:30 to 11:30 a.m. on Tuesday, May 7, in the Recreation Building in the apartment area. Spouses of BNL employees and guests are welcome, and refreshments will be served. Bring the children, but also a toy or two for their amusement.

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ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

Bldg. 134, P.O. Box 5000
Upton NY 11973-5000
Tel. (516) 344-2345; Fax (516) 344-3368

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

Service Awards

The following employees celebrated BNL/AUI service anniversaries in April.

35 Years

Andrew P. Hull.....Saf. & Env. Prot.

30 Years

Ralph A. Trondle.....Comp. & Comm.
Robert Barone.....Comp. & Comm.
Andrew T. Como.....Physics
Lawrence E. Toler.....Physics

25 Years

Barbara A. Pringle.....Contracts & Proc.

20 Years

Charles P. LaSalla.....Saf. & Env. Prot.
Peggy L. Micca.....Medical
James A. Niederer.....AGS
Charles J. Ruger.....Advanced Tech.
Pilar Alverio.....Central Shops
Frances A. Burr.....Biology

10 Years

Jan Kieleczawa.....Biology
Hans J. Willutzki.....Physics
John L. Bourquin III.....Plant Eng.
Thomas J. Davin.....AUI
John E. Kenny.....Plant Eng.
Ernest R. White.....Safeguards & Sec.
Michael F. Clancy.....Saf. & Env. Prot.

Note to Employees:

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

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 (344-7744), 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.

NS 5579. COMPUTING ANALYST POSITION - (part-time) Requires a BSCS or equivalent and several years' experience in the design and production of publications and Internet Web pages. In addition, knowledge of Shell and C programming and good skills with HTML language are required. Experience with Apple systems and networking in a distributed-computing environment is preferred. Duties will include the editing and publication of the "Link.bnl" newsletter, the design and maintenance of the Division's HTML document systems and the support of Apple Macintosh users at the Laboratory. Computing & Communications Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 3215. ENGINEERING POSITION - (term appointment) - Requires a bachelor's degree in environmental engineering or a related discipline, and a minimum of five years' experience in subsurface site investigations and remediations. Experience as a project engineer/project manager on projects dealing with soil and groundwater cleanups is necessary, as is a working knowledge of federal and state regulations, particularly CERCLA, and good communication skills. Knowledge of DOE orders and administrative directives is a plus. Office of Environmental Restoration.

NS 3826. ENGINEERING POSITION - Requires a BS in chemistry or equivalent, extensive experience in the radiological analysis of environmental samples and three years' supervisory experience. Will be responsible for the operation of Sampling/Analysis Group and overall coordination of SEP's analytical program. Familiarity with EPA/DOE methodology and experience in a production environment necessary, as are excellent communication skills and a strong customer focus. (reposting) Safety & Environmental Protection Division.

DD 6183. TECHNICAL POSITION - Requires an AAS in electronic technology or equivalent, BSET preferred, and experience in analog circuitry. High voltage and vacuum experience highly desirable. Will assemble and operate a wide variety of scientific equipment. Alternating Gradient Synchrotron Department.

DD 3628. TECHNICAL POSITION - Requires an AAS or equivalent, and significant experience in the design and construction of digital and analog circuits, and a working knowledge of laser and optical systems. Experience in digital light processing also required. Knowledge of C++ desirable. Program involves the reverse engineering of electro-optical devices. Department of Advanced Technology.

Motor Vehicles & Supplies

94 MAZDA VAN MPV - 6-cyl., ac, p/w, p/l, 7-pass., 35k mi., maroon, excel. cond., must sell, $13,900. Chris, Ext. 7313.

93 FORD T-BIRD LX - V-8, black, loaded, 50k mi., excel. cond., $11,500. John, Ext. 5470.

90 FORD F-150 2x4 !XLT - short bed, 5-spd., ac, cruise, bed liner, excel. cond., $8,500. Steve, Ext. 4446 or 722-4821.

89 FORD PROBE GT - turbo, all options, ABS, 5-spd., well maint., hwy. mi., v.g. cond., asking $2,500. Mike, Ext. 4345 or 422-0232.

88 STERLING 825SL - luxury sport, white/gray, fully loaded, comprehensive alarm system, p/roof, tinted windows, a/t, V-6, 37k mi., $6,000. Edwards, Ext. 4308.

87 BLAZER S10 - 4wd, a/t, Tahoe pkg., red & silver, clean in/out, $4,500. 696-7452.

87 HONDA CRX - 5-spd., m/t, am/fm cass., ac, new tires, battery, timing belt, brakes, excel. gas mi., $2,000. Marc, Ext. 5248 or 286-3066.

86 BUICK CENTURY & 85 NISSAN STANZA - both 4-dr., a/t, ac, more; Buick $1,900 neg.; Nissan: 92k mi., $1,200 neg. John, Ext. 3421 or 632-2482 after 6 p.m.

86 NISSAN 300ZX - red, T-top, a/t, well maint., must see, priced to sell. Ext. 2873 or 473-5063.

86 LASER - black, '91 engine, new brakes, exhaust & tires, a/t, ac, clean, $1,300. Scott, 758-2952 after 5 p.m.

86 OLDS FIRENZA - black, 4-dr., a/t, p/s, radio, heater, 76k mi., must sell, best offer over $2,800. 928-7026.

86 MAZDA RX7 - 5-spd., ac, 132k mi., gar., well maint., all maint. records, v.g. cond. $3,900. Ext. 3815.

85 CHEVY CAVALIER - 2-dr., 4-cyl., a/t, runs well, looks good, $1,300; '79 Ford LTD s/w, runs, needs battery & brakes, best offer. Roger, 924-8213.

85 DODGE WAGON - needs head gasket, best offer. Dick, Ext. 7185.

85 BUICK REGAL LTD - V-6, all power, ac, am/fm, low mi., mint cond., $2,495 obo. Carl, Ext. 2543.

85 JETTA GL - excel. cond., $1,500; '82 Chevy, excel. cond., must see, $650; '82 Charger, v.g. cond., $500; must see all. Marc, 924-0960, leave message.

84 CAMARO - V-6, orig. owner, new tires, runs well, $550. George, Ext. 4453 or 924-6105.

84 ESCORT - diesel, 87.5k mi., new eng. at 40k mi., good mech. cond., best mpg in America, $1,050. 751-0345.

82 CHEVY CAMARO - V-6, a/t, needs engine, $300 obo. Frank D., Ext. 2022 or 399-4480.

79 CHRYSLER LEBARON - body in excel. cond., no dents or rot, new carb., needs minor work. 924-2510.

76 VOLVO 242DL - 4-spd., new battery & front struts, good running cond. Steve, Ext. 3018 or 369-5181.

55 CHEVY - fully restored, red/white, chromed 350 motor, TH350, posi, $13,950. Terry, 473-8426.

CAP - for '85 Chevy S10 long bed, $150 obo. Jesus, Ext. 4879.

TRUCK PARTS - '79 Ford, hood, door, fenders, 4x4, 4-spd. tranny, CB radio, like new, B&M shifter, 302 alum. manifold. Wayne, Ext. 3084.

Boats & Marine Supplies

31' UNIFLYTE - dual stations, swim platform, ALglas, heat, trim tabs, needs engine, TLC, $4,000. John, 758-0975.

26' SEARAY SUNDANCER - 1985, 1994 Merc. 260, windless, galley, head w/shower, sleeps 6, Loran, plotter, FF, $16,000. Ron, Ext. 7588.

24' SAILBOAT - custom-built racer, similar to J24, mast-head rig, many sails, cradle, $4,500. Terry, 473-8426.

23' PUMA SAILBOAT - fg, fixed keel, sleeps 4, galley, extras, moved, must sell, $1,000. Mike, Ext. 7861 or 698-3967.

21' IMP - 1987, fish, cuddy cabin, Mercruiser i/o, many extras, runs well, $7,200 neg. Paul, Ext. 7858.

21' T-CRAFT - 1971, 115-h.p. Evinrude, Magic roller trailer, asking $3,200. 878-9021.

18' GRADY WHITE - trailer, p/winch, 85-h.p., good cond. Chris, 472-5826.

16' CARAVELLE - 1970, fg, new floor, seats, running lights, glove box, tires, w/elec. winch, cover, mint, no motor, $600. Joe, Ext. 5740.

16' STARCRAFT - 50-h.p., elec. start, tilt trailer. Peter, 475-0831.

LOBSTER POTS - 5, wire, $18/ea. or $80 all. 689-9234.

Furnishings & Appliances

AIR CONDITIONER - works well, good for small room, asking $50. Pete, Ext. 5105 or 399-2813.

COAL STOVE - Franco-Belge, 30,000 Btu, incl. chimney, other access. available. Sharon, Ext. 3995 or 878-9355 eves.

DEHUMIDIFIER - large, Sears, w/new humidistat, $55; sofa bed, Workbench, excel., $175. Ext. 2004.

DEMITASSE MACHINE - Krupps, elec., $10; Century infant seat, $5; 5-globe walnut light fixture, $10; lined raincoat, men's size 42, $15. 473-8292.

DESK - large, L-shaped, needs refinishing, $100; dryer, elec., $50. Walter, Ext. 4958 or 821-9451.

DINING & KITCHEN SETS - 6 chairs ea., living room chairs, oil painting, Rya rugs, bookcase, fireplace, cradle, bench. Manu, Ext. 3202.

DINING ROOM SET - solid cherry, Ethan Allen, mint cond., orig. $9,000, now $2,500 obo moving. Dunn, Ext. 3012.

DISHWASHER - 1974, Westinghouse, portable, butcher-block top, good cond., $25; air conditioner, 1990, Hot Point, 5,000 Btu, window, $100. Ext. 2417.

DOOR - Stanley, 36" steel, 9-pane glass back door, w/frame, $50. Lloyd, Ext. 5225.

DRESSER - oak, light color finish, $50. Dan, Ext. 2012.

DRYER - Maytag, elec., used only 2 yrs., v.g. cond., $100. Pete, Ext. 5105 or 399-2813 after 5 p.m.

ENTERTAINMENT CENTER - Broyhill, oak, $800; dark pine hutch, custom-made, $100; Mikasa stoneware, $70. Rich, 929-8514.

RANGE - G.E., elec., 30", works well, $150. Bill, Ext. 2807 or 281-0557.

REFRIGERATOR - Hotpoint, 23.1 sq. ft., white, $300 neg. John, Ext. 7340 or 732-2702.

SOFA BED - double, excel., $300 neg. 744-3744.

Tools, House & Garden

ANNUALS - flowers, $10/flat, $5.50/½ flat, vegetables, $1/pack. Ray, 727-6818 after 4 p.m.

BLOWER - back pack, McCulloch, never used, $100; chain saw, McCulloch Eager Beaver, $75. Bart, 924-6761.

CHAIN SAW - McCulloch, 2-cyl. engine, $100. John, Ext. 7340.

CHIPPER/SHREDDER - Roto-Hoe, 8-h.p., good cond., $350. Ken, Ext. 5110.

COMPRESSOR - w/large steel tank & motor, very old, $25. Frank D., Ext. 2022.

DAHLIAS - mixed colors, 50¢/ea; cannas, red, 50¢/ea. Joe, Ext. 2898.

DOORS - louvered bi-fold, 4, unpainted for 6' opening, $35; parson's tables, oak parquet, $15/ea. or $25/2; window w/storm & screen. Sue, Ext. 7235 or 399-7997.

GENERATOR - electric, 4 kW, excel. cond., $200; gas station auto jack, neds gasket, $50. Mark, Ext. 3812.

GREENHOUSE - grown elephant ears, canna lillies, wholesale prices. Charlie, 345-3673.

LAWN MOWER - Sears Craftsman, 21", 4-cyl., $60; bike, children's, 20", $30; Schwinn Continental bike, 27½", 10-spd., $100. Steve, Ext. 3018 or 369-5181.

LAWN MOWERS - Murray, 21" cut, rear bagger, $85; Caldor, 19" cut, rotary, $50. Greenbriar, 20" cut, rotary, $50. Dan, Ext. 2012 or 698-7322.

LAWN MOWER - Snapper, rear bagger, 20" cut, ran last year, may need work, $10. Chris, Ext. 2593.

TRACTOR - Gravely, needs work, plus 30" mower, snow plow, sulky, reasonable; upright freezer; manual typewriters. 363-7032.

TREES - Colorado blue spruce, 5' to 6', you dig, $20/ea. Andy, Ext. 2907 or 289-1755.

Sports, Hobbies & Pets

AEROBIC SKIER - $50; row machine, $40. Walter, Ext. 4958 or 821-9451.

CAMERAS - Canon, 35mm, circa 1956, like new, magnesium const., 50mm, 28mm, & 85mm lens, access., $2,000. 585-7861.

DOG KENNEL - 22"x25"x37", for medium-sized dog, $40. Ext. 3751 or 589-5490.

EXERCISE MACHINE - Solo Flex, no attachments, all papers, excel. cond., $300. Pat, Ext. 7705.

EXERCYCLE - Voit, good cond., $125 neg.. Leonard, Ext. 4457.

GOLF CLUBS - Dunlop, woods P P.W. 3 irons, bag & cart, 2 yrs. old, $100. Wayne, Ext. 4010.

GOLF CLUBS - Smith, metal woods 1-3-5, 2 yrs. old, ask. $165. Ext. 2539 or 929-3586.

GOLF CLUBS - 845C copies, irons 3-SW, 1,3,5 metal woods, $150. Scott, Ext. 7197.

ORGAN - Hammond, $450; Wilson stepper, $180; exercise bike, $50. Ext. 2877/7039 or 289-8428.

PIANO - upright Estey, good cond., $500. 281-2907 after 5 p.m.

R.C. CAR - Bush Devil 1/10 scale pickup, Futaba control, variable charger, extra set of tires, manuals. Rich, Ext. 2410.

SKI OUTFIT - women's size 10, purple/black, 1-pc., like new, $20; Gee size 3, new, $10. 878-1178.

STEPPER - exerciser, v.g. cond., $20. Paul, Ext. 7577.

Audio, Video & Computers

ANSWERING MACHINE - Phone Mate, dual cassette, $40. Ext. 2004.

BASS HEAD - Gallien Kruger 200 rb, 100 watts, 3 band eq., chorus, $115. Jim, 924-7374.

COMPUTER - 286 Compaq, keyboard, b/w monitor, $95. Frank D., Ext. 2022 or 399-4480.

COMPUTER - 486DX2-80, 425MB HD, multimedia, 14" SVGA monitor, 8MB RM, ATI Mach32 video, $775. 924-6761.

CD PLAYER - Onkyo, full features, excel. cond., $100; TV, b/w, 13", works well, $10. Sue, Ext. 7235 or 399-7997.

CD PLAYER - NEC, w/remote, mint cond., $85; Fisher speakers, STV-430, 100W, 8 ohm, 15"W, 6"M, 5"T, 30x18x13, $185/pr. Norm, 289-3360.

PORTO STUDIO - Tascam, 4-track, Roland R8MKII drum machine, fully programmable, orig. $1,650, now $700 neg. John, Ext. 7340 or 732-2702.

TV - 13" color, remote control, Panasonic stereo, detach face, high output, cass. deck for car, $170 neg. Tommy, Ext. 4519.

TYPEWRITER - Smith Corona Citation, elec. w/case, exel. cond., $35 neg. Bill, 281-6498.

VRC - Hitachi, reconditioned, works well, $30. George, Ext. 3783 or 874-3873.

Miscellaneous

COAT - girl's 3T, royal blue dress coat w/black trim, hat, muff, $35. Kim, Ext. 3180.

CRIB - porta-crib, playpen w/foam mattress, $10. Ext. 2004.

PROM DRESSES - 4, sizes 11,13, excel., 1 brand-new, $20-$40. 473-6546.

RING - diamond, 1.13 cts., VS2 clarity, I color, GIA certified, papers, insurance appraisal, platinum setting. TJ, 333-6740.

SENTRY SAFES - double welded, you pick up, $200. 585-7861.

TICKETS - 2, Rod Stewart concert, Madison Square Garden, Thurs., May 23, $110. Chris, Ext. 7313.

TICKETS - 2, trip to Ellis Island, SHWR high school, May 19, 7:30 a.m., $15/ea. Marie, Ext. 2852.

TIME-LIFE BOOKS - home repair/improvement series, 33 vol., hardbound, excel. cond., $45/set. Paul, Ext. 7577.

WEDDING GOWN - designer, V-neck, bead work & sequins, never worn, must see, orig. $2,500, best offer. Ext. 2463 or 543-4820.

Yard & Garage Sales

BROOKHAVEN HAMLET - Friday, May 3, 9 a.m. to 3:30 p.m., 183 Old Stump Rd.

Lost & Found

LOST - gold bangle bracelet, BERA rec. park, 4/23, reward. Louisa, Ext. 4208.

LOST - pair of glasses in vicinity of field 5, if found turn in to Andrea at BERA sales office. Ext. 4617.

FOUND - spoked hubcap, Special Edition. Ext. 5054.

Free

FENCE - chain link w/gate, ~30'x30' square, missing 1 post, you pick up, all hardware. John, Ext. 3108.

KITTENS - 6 wks. old, affectionate, black, black/white, good homes only. Pat, Ext. 7705 or 821-2171.

ORGAN PIPES - old. Mark, Ext. 3812.

Wanted

ANIMAL LOVERS - help stray cats find good homes, already spayed, neutered, shots. Pat, Ext. 7705.

BAILED HAY/STRAW - bricks & cobblestone; p/steering pump for '86 Chevy Cavalier; int. doors, 3'x6'8"; used studs, sheetrock, kit. cabinets. Rich, 929-8514.

HOCKEY GEAR - shorts, shoulder pads, skates, sticks, goalee equipment. Kevin, 878-9331.

HOMES - for BNL visitors/guests, furn. apts., condos, houses for short-term rentals. Marie, Ext. 4489.

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. tops, sunroof installation, elec. sunroof repair, rugs, some mech. work, brakes. Rob, 395-4521.

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 available, flyers, letterheads, envelopes. Mike, 878-3480.

CARPENTRY - docks, trim, closets, siding, decks, etc., neat, reliable & professional, quality work at reasonable cost. Gerry, 981-4518.

CHILD CARE - during working hours, Christian home, Medford. 447-1667.

CHILD CARE - experienced Mom, formerly BNL day-care employee, now offering day care in home, 5 mins. from Lab. J. Waltz, 821-8379.

COSMETICS - independent beauty consultant, skin care, facials, color cosmetics, nail & hair care. Sarah, 821-9178.

COUNSELING - individual child and family therapy, alcohol & drug counseling, licensed social worker. 732-5464 for appointment.

DRIVER - w/15-passenger van, any occasion, $275 for 8 hrs. Bob, 467-2790.

GUTTER PROTECTION - keep your gutters flowing freely forever, guaranteed, free estimates, Lab disc. Henry, 727-7227.

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

HOME IMPROVEMENTS - carpentry, complete service, roofing, siding, windows, doors, decks, oak flooring, basements, licensed, insured. Joe, 399-0828.

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

HOUSEKEEPER - will clean your home to your standards w/schedule convenient to yours, excel. refs. Jane, 874-4049.

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

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

LANDSCAPING - grass cut & maint., free estimates. Jesus, 286-5403.

LAWN IRRIGATION SYSTEMS - prof. layouts, installations & repairs, free est. Bill, 231-5772.

LAWN MOWER REPAIR - spring tune-up special, get your mower ready for summer, next day service, $24.95, major service also available. John, 447-5458.

LAWN MOWER/TRACTOR - repair & service, also all small engine tools, fast, reliable, have trailer, will travel. Dan, 698-7322.

LAWN SPRINKLERS - auto., prof. layouts, repairs, alterations, additions, spring turn-ons, winterizations, free est., prompt, courteous service. Lou, 928-7973.

LOCKSMITH - sales & service, 10% Lab discount, keys cut during lunch. Pete, 399-2813 after 5 p.m.

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

PAINTING - int./ext.; power wash, staining, decks; Sheetrock & spackle; all work guaranteed, free estimates. John, 563-6596.

PARTY TENTS - we set up & take down, call for details, sizes & combinations. Fred Kuehl, 588-2268.

PARTY TENTS - 20'x30' w/side curtains, we set up & take down, $250/$38 hr. 321-2889.

PARTY HELPERS - let us serve your guests & clean up the mess. 698-6259.

PHOTO ENHANCEMENTS - great Mother's Day gift, photos on coffee mugs. Lenny, 878-6020.

PIANO TUNING & REPAIRS - reas. rates. 298-9560.

PLUMBING & HEATING - alterations, repair. Jim Morris, retiree, 472-1205.

SHEETROCKING & SPACKLING - free estimate. Kevin Tisch, 567-6621.

SPRING CLEANING - references available. 698-6259.

TREES - spruce, white pine, cedar, Doug. fir, b&b, sheared, excel. for yd./priv., 4'-8', $20-$75 ea., depending on selection, quantity. Tom, 878-1060.

TYPIST - 10 yrs. exp., quick, efficient, will return your work on PC disk, spell-checked, no job too big or small. Michele, 369-1438.

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

WINDOW CLEANING - all work squeaky clean, reliable, courteous service. 289-4759.

In Appreciation

Thanks to my friends at NSLS and BNL for their kind thoughts and donations in memory of my mother
— Marty Woodle

Thank you to all our friends at BNL for your total support after our daughter Janice passed away.
— The Wisowaty Family

Our thanks to everyone in our time of grief.
— The Schiappa Family

I would like to express my sincere thanks to all my friends at BNL who sent messages of condolence to me upon the death of my mother. — Anne M. Flood

Classified Ad deadline is noon Friday for publication Friday of the next week.