BROOKHAVEN BULLETIN

Vol. 46 - No. 15 April 10, 1992

BROOKHAVEN NATIONAL LABORATORY

Coming Up

Soviet physicist Vitaly Lazarevich Ginzburg will deliver an AUI Distinguished Lecture on Thursday, April 23, at 11 a.m. in Berkner Hall. His talk on "Lev Landau: Physicist and Man" will explore the varied scientific accomplishments of the late Novel Prize winner.

Wanted: More Complaints

The Vendor Evaluation Program in the Division of Contracts and Procurement (DCP) has a complaint: It is receiving too few complaints.

When goods or services that have been procured through DCP are unacceptable as delivered, many requisitioners contact the vendor directly and do not inform DCP of the problem. DCP therefore continues to do business with an unsatisfactory vendor.

The correct procedure is to state the problem on the Inspection/Test Record (ITR) form BQF-003, which can be ordered free from Lab stock supplies with stock number S-80507. Another form that can be used is the Supplier Correction Action Request (SCAR) form BQF-005, obtainable from Marvin Shear, BNL Quality Assurance Office, Bldg. 902B. Then mail or fax the complaint to Frederick Altrui, Bldg. 355, fax Ext. 5499.

Roger Stoutenburgh

Frederick Altrui

Altrui, a DCP contracts administrator, handles the Vendor Evaluation Program, which forms a part of BNL's overall quality assurance program. Altrui stores the data and sees that the vendor is informed that a shipment has been made that does not comply with BNL requirements. The vendor is then asked to take corrective action so that the correct goods or services are supplied.

The Vendor Evaluation Program was established to give DCP one central point for all information on vendors who provide noncompliant goods and services. The same vendor can give rise to several complaints. With an overall picture of difficulties as they arise, DCP can take prompt action on an official basis. The result should be better quality service for everyone.

Explained Altrui, "Our procedure gives a company a reasonable chance to improve its service. If the situation reoccurs, we may suspend business with that vendor. To do this, however,

(continued on page 2)

BNL Lecture:

The AGS Booster — On the Way to RHIC

Since the early 1980s, BNL physicists have had their eyes on the Relativistic Heavy Ion Collider (RHIC) — an accelerator with which to probe a hitherto unexplored energy regime with colliding beams of the heaviest ion species at energies of 100 billion electron volts (GeV) per nucleon.

But BNL physicists have been doing a lot more than dreaming about RHIC: They've been working hard to make it a reality. And a major part of this effort has been the Booster, a small but mighty synchrotron in which ions as heavy as gold can be preaccelerated to circulate in the Alternating Gradient Synchrotron (AGS), so it can serve as the injector for RHIC.

The Booster completed the transition from dream to reality last month, when, on March 16, it operated flawlessly to preaccelerate heavy ions for the 1992 heavy-ion physics run at the AGS. One of the BNL physicists for whom this was a proud, long-awaited moment — but no surprise — was Wu-Tsung (Bill) Weng, head of the Accelerator Division in the AGS Department.

As Booster Project Manager since 1987, Weng has guided the Booster smoothly through many milestones — on schedule and within budget. Now, he will guide the Lab community through those milestones and those yet to come, when he delivers the next Brookhaven Lecture, on Thursday, April 16, at 4 p.m., in Berkner Hall. Weng's talk about "The AGS Booster — On the Way to RHIC" will be introduced by AGS Department Chairman Derek Lowenstein.

As Weng will explain, the Booster was required to enhance AGS performance — not only for heavy-ion physics but also to increase proton intensity for the high energy physics programs.

Weng will discuss the major design and construction issues such a machine presented, including the need for ultrahigh vacuum and a versatile radio-frequency system. Then, after describing the stages of construction of the Booster and its major systems, he will share the commissioning results in such areas as: spiraling, tune, orbit, chromaticity, acceleration, phase and radial feedbacks, and AGS injection.

The Booster commissioning and the consequent increase in proton intensity and circulating current, Weng will explain, greatly enhance the AGS's already acknowledged status as a "kaon factory." And, by making it possible for the AGS to accelerate ions as heavy as gold, the Booster opens the way to exciting new physics with RHIC. Weng will also comment on the general functions of a booster and the purpose it serves in an accelerator complex.

Bill Weng earned his M.S. in physics at Taiwan's National Tsing-Hua University in 1968. He then came to the State University of New York at Stony Brook to pursue a Ph.D. in physics, which he received in 1974.

Weng came to BNL in 1977, as an accelerator physicist in the then Accelerator Department. He headed the Accelerator Physics Section of the AGS Division from 1980 until 1983, when he left the Lab to become an accelerator physicist at the Stanford Linear Accelerator Center.

Roger Stoutenburgh

At the Booster control console in the AGS Main Control Room, Bill Weng checks the Booster's beam trajectory into the AGS.

Returning to Brookhaven in 1987 as an accelerator physicist in the AGS Department, Weng also became Booster Project Manager. In 1990, he was named Accelerator Division Head.

Weng is a member of the American Physical Society and a senior member of the Institute of Electrical and Electronics Engineers (IEEE), for which he chairs the Accelerator Science and Technology Committee.

After the lecture, those attending are invited to join the speaker for discussion and hors d'oeuvres. To join the lecturer for dinner at a restaurant off site, call Marion Heimerle, Ext. 4776.

BNL Hosts Collegiate Competitors

Roger Stoutenburgh

For the first time in 49 years, the annual meeting of the National Institute of Science, the Beta Kappa Chi National Honor Society and BNL's Brookhaven Semester Program was held on Long Island.

BNL served as host of the meeting, which was attended by over 300 students from predominantly black colleges and universities around the country. The meeting was headquartered at the Radisson Plaza Hotel in Melville, from April 1-5.

On Friday, April 3, the students visited BNL. After a site tour, the young people met with Lab officials and posed for this group photo with Robert Thomas (extreme left) and Renée Flack (front row, ninth from the right), Office of Educational Programs. The visitors were also entertained by the BNL Gospel Choir. The students' day at BNL is featured on the current GLANCE video program continuing today and Monday in the lobby of the Cafeteria.

According to Flack, this annual event gives young black college men and women an opportunity to exchange scientific information as well as present scholarly research papers in a formal competition. One of the highlights of the meeting was the awarding of cash prizes to student presenters of the top three undergraduate papers in biology, chemistry, computer science, mathematics, physics, psychology and science education.

Representatives from numerous colleges, universities and businesses also set up exhibits in an effort to recruit young minority talent, says Flack.

Learn to Converse Using DIALOG

One of the leading computerized-database search services for scientific and technical information, DIALOG offers nearly 400 databases from which a user may choose.

So users may learn to utilize this powerful, flexible and easy-to-use service better, the Technical Information Division (TID) has organized training on how to conduct an on-line database information search using DIALOG.

DIALOG training is scheduled for Tuesday through Thursday, April 21-23, from 9 a.m. to 4 p.m. each day. The first day is a system seminar, the second goes beyond the basics, and the third concentrates on Medline.

The $140 cost includes lunch. To register, call (800) 334-2564 and have your DIALOG user number handy. For more information about accessing databases available through TID, DIALOG training, or upcoming classes on STN, May 12 and 13, call Louise Heusinkveld, Ext. 3648.

Outreach Workshop *Teenagers, Part II*

Back by popular demand, psychologist Robert Carrere will return to BNL to present "Dealing With Teens: A Survival Guide, Part II."

Sponsored by the Employee Assistance Program (EAP), Carrere will speak on Tuesday, April 14, from noon to 1 p.m. in Berkner Hall. All are invited.

For his return engagement, Carrere will recap his first lecture, given on February 4. At that time, he presented the thesis that parents and their adolescent children are ripe for conflict, given that adolescence is a time of rebellion against parental authority and that parents of teens are usually undergoing their own mid-life crisis at the same time.

Then, Carrere will open the microphone to questions, and offer strategies and solutions to problem situations so that parents may avoid a battle of wills over control issues with their teenagers in the future.

In private practice in Amityville since 1987, Robert Carrere, Ph.D., sees individuals, couples and families, and specializes in the treatment of depression, substance abuse, eating disorders, sexual abuse and post-traumatic stress disorders.

To register for this workshop, return the bottom portion of the Outreach flyer sent to all employees this week to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490. For more information about the EAP and its Outreach lecture series, call Ext. 4567.

Complaints (cont'd)

we must have documented complaints from Lab personnel — such as we get on the ITR or SCAR forms."

Victor Gutierrez, a senior quality assurance engineer in the Director's Office, agrees and wants to make more Lab staff aware of the Vendor Evaluation Program. So he submitted a suggestion to the Employee Suggestion Program to the effect that an article in the Bulletin would be helpful in publicizing the program's importance.

Altrui welcomed this idea. "For this kind of program to work, it needs the support of all who are involved," he said. "With timely information, DCP can prevent poor quality goods and service — to everyone's advantage." — Liz Seubert

AUI Scholarships Awarded to 16 High School Seniors

In the 27th year of the scholarship program, 16 daughters and sons of BNL employees were selected to receive AUI Trustee Scholarships from among 59 applicants. Each AUI Scholar will receive $2,500 per year for up to four years of study at the college or university of her or his choice.

The selection was made by an independent committee appointed by the College Scholarship Service of Princeton, New Jersey, which administers the program for Associated Universities, Inc. (AUI).

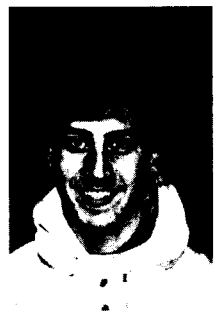
Heather Davis is the daughter of M. Sue Davis, Director's Office, and Richard Davis, Department of Nuclear Energy (DNE). She lives in Wading River, attends Shoreham-Wading River High School and plans on attending either Mount Holyoke, Bryn Mawr or Skidmore College, where she will major in psychology and pursue pre-law studies.

Natalie Dixon, daughter of Pauline Dixon, DNE, resides in Center Moriches, where she goes to Center Moriches High School. To major in chemical or electrical engineering, she will attend either the State University of New York (SUNY) at Buffalo or Temple University.

Tanya Fatimi is the daughter of Khem Fatimi, Occupational Medicine Clinic (OMC). A Bellport resident, she will graduate from Bellport High School. To undertake premed studies, she will matriculate at Yale University.

Michael Jo, son of Jae Jo, DNE, has been accepted by the University of Pennsylvania, where he will major in economics or business administration. Attending Ward Melville High School, he lives in Setauket.

Erick Lemley is the son of James Lemley, DNE, and resides in Miller Place. Now in his last year at Miller Place High School, he will go to either Cornell University or Dartmouth College to major in engineering and/or pursue premed studies.

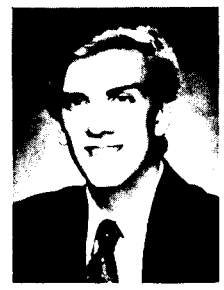


Matthew Mausner, son of Leonard Mausner, Medical Department, will major in psychology at either Amherst College, Princeton University or Yale University. Living in Stony Brook, he will graduate from Ward Melville High School.

Lauren Mouzakes is the daughter of Sylvia Mouzakes, Staff Services Division. A resident of Rocky Point, she is a senior at Rocky Point Junior-Senior High School. To major in psychology, she will matriculate at Union College.

Liba Neymotin, daughter of Lev Neymotin, DNE, will attend either Columbia University, SUNY at Binghamton or Yeshiva University to study the biomedical sciences. A resident of Plainview, she will be graduated from Torah Academy of Suffolk.

Kristen Paul is the daughter of Jerry Paul, Management Information Systems Division. To undertake a nursing major, she will attend West Chester University of Pennsylvania. Residing in Medford, she is a senior at Patchogue-Medford High School.



Brian Perkins, son of Kenneth Perkins, DNE, will attend Brown University to major in electrical engineering. He lives in Wading River and is in his last year at Shoreham-Wading River High School.

Dong Qiu, daughter of DeHaui Chen, Physics Department, is a senior at Rocky Point Junior-Senior High School and a resident of Rocky Point. To study business administration, she will attend Harvard University.

Melissa Rodriguez is the stepdaughter of Thomas Martin, Chemistry Department. An Islandia resident, she is in her senior year at Brentwood High School. To major in mathematics, she will attend SUNY at Stony Brook.

David Sbarra, son of Laura Sbarra, OMC, will attend Cornell University, where he will select a major in the humanities or social sciences. A Shoreham resident, he will graduate from Shoreham-Wading River High School.

Gregory Sevian, is the son of Susan Sevian, Computing & Communications Division. A senior at Miller Place High School, he lives in Miller Place. To undertake a music major and premed studies, he is deciding between Hofstra University and SUNY at Stony Brook.

Kurt Thorn is the son of Craig Thorn, Physics. He lives in Wading River and is a Shoreham-Wading River High School senior. To study molecular biology, he will matriculate at Princeton University.

Virginia Youngblood is the daughter of Robert Youngblood, DNE. She lives in Stony Brook and is a senior at Ward Melville High School. To major in a physical science, she will attend either Brown, Wesleyan or Yale University.

In Memoriam

Sven Hasselriis, who had retired from the Physics Department in August 1979, died on March 5 at age 77. Hired during BNL's first year, Hasselriis began his Lab career on March 24, 1947. When he retired with 32 years of service, he was a technical associate II in Physics. Having resided in Sayville, Hasselriis is survived by his wife Karen; daughter Tove Abrams; sons Warren, Karl and Sven; and seven grandchildren.

Ruth Petit, who retired in May 1981 as an Accounts Payable Supervisor in the Fiscal Division, died on February 28. She was 74 years old, and she had been a BNL employee for almost 22 years, since October 26, 1959. She was residing in Tamarac, Florida, and she is survived by two daughters, Patricia Fortunato and Arlene Saccente; six grandchildren; two great-grandchildren; a brother, Albert Beyer; and a sister, Wanda Beyer.

Small but Mighty

A David among Goliaths, the BNL Swim Team for the third year in a row finished first in the small-team category (up to nine swimmers) of Empire State Masters Swimming for the 1990-91 season. With a total of 509 points, the BNL swimmers surpassed the second-place team by 304 points.

In the annual age-group competitions, Roger Klaffky finished second overall for the season among his competitors in the men's 45-49 year-old category.

Standing in the newly painted and recently reopened pool, after the paint dried and before the pool was filled, are three of the six winning BNL Swim Team members: Wlodek Guryn (back, left), Ron Wittlock, and Marsha Belford. Missing from the picture are: Peter Heotis, Roger Klaffky, and Paul Michael.

St. John's University Masters' Swim Meet

For the second time this year, Ron Wittlock bettered his personal record in masters' swimming competition for the 100-yard backstroke — and in the process set another new BNL Swim Club record. Having mastered the new backstroke turn, Wittlock moved the clock back nearly one second, from 1:12.66 to 1:11.70, at the St. John's University masters' swim meet, Saturday, March 28.

50-yard Backstroke

Wittlock	33.12	1st men 55-59
Guryn	34.30	2nd men 40-44

100-yard Backstroke

Wittlock	1:11.70*#	1st men 55-59

200-yard Backstroke

Wittlock	2:46.20	1st men 55-59

50-yard Breaststroke

Guryn	34.83	2nd men 40-44

100-yard Breaststroke

Guryn	1:16.93	2nd men 40-44

200-yard Breaststroke

Guryn	2:46.76	2nd men 40-44

200-yard Individual Medley

Wittlock	3:06.39	1st men 55-59

* indicates personal record
\# indicates BNL Swim Club record

Roger Stoutenburgh

New Members On BERA Board

Congratulations to April Donegain, Fiscal Division, and Haskell (Skelly) Frei, Reactor Division — the newest members of the Executive Board of the Brookhaven Employees Recreation Association (BERA).

Chosen by BERA members during elections held the week of March 23, they will replace outgoing BERA Executive Board members Lawrence Musso, Safeguards & Security Division (S&SD), and Jean Ramirez, Safety & Environmental Protection Division (S&EP).

Donegain and Frei will join the other six Executive Board members: Rick Backofen, Photography & Graphic Arts Division; Michelle Cummings, Management Information Systems Division; Andrea Epple, S&EP; Betty Pergan, Department of Applied Science; Rosalie Piccione, Division of Contracts & Procurement; and Maryann Reynolds, S&SD.

Skelly Frei

April Donegain

Early Payday Next Week

Though the Laboratory will be open, the Teachers Federal Credit Union will be closed next Friday, April 17, in observance of Good Friday. Thus, paychecks for BNL's weekly employees will be distributed on Thursday, April 16, and may be cashed that same day.

Software Demo

Jim Judge of Applied Technology of New York will present Project Workbench, a comprehensive project management package, on Thursday, April 16, at 2 p.m., in the CCD Seminar Room, Bldg. 515. Project Workbench is a PC-based planning and control system that allows the user to manage projects of any scope and size with both dependency and resource constraints.

Note to Employees:

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

ANS Meeting

Edward Fuller, Senior Vice President and Director of Business Planning of TENERA, a California firm in the nuclear industry, will speak on "ANS — The Next Generation" at the next meeting of the Long Island Section of the American Nuclear Society (LIANS), on Tuesday, April 14, at the Three Village Inn in Stony Brook. Following cocktails at 6 p.m. and a dinner at 7 p.m., the speaker will be introduced at 8 p.m. by LIANS past president Walter Kato of BNL's Department of Nuclear Energy. To make reservations, call Linda Hanlon, Ext. 7517.

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Plant Sale

Just in time for Easter and Passover, the Association for the Help of Retarded Children (AHRC) will hold a plant sale outside the Cafeteria, next Thursday and Friday, April 16 and 17, from 9:30 a.m. to 2 p.m. The sale will be run by AHRC volunteers, such as retired BNLer Isidore Danowski, and proceeds will be used to fund activities for mentally retarded adults.

Technical Seminar

The Microsoft Corporation will sponsor a technical seminar introducing Windows 3.1, and featuring Microsoft Excel 4.0 and Word for Windows 2.0, on Thursday, April 23. The seminar will be held in two sessions: from 9 to 11:30 a.m. and from 1:30 to 4 p.m., both in the CCD seminar room, Bldg. 515. At each session, Microsoft will raffle off Windows 3.1 software. Seats are limited, so reserve by April 17 by calling Donna-Ree McCambridge, Ext. 4103.

Basketball

Week of March 30

Runaways 73		X-Men 67	
J. Gaeta	26	J. Hobson	18
M. Fulkerson	17	G. Mack	17
G. Shepherd	13	E. Meier	17
W. Cummings	8	R. Schuhmann	8
P. Ratzke	8	J. Garrison	5
S. McAlary	1	G. Smith	2

3-point shots: J. Gaeta (2), J. Hobson, E. Meier, G. Shepherd

Trailblazers 77		Deep Six 56	
T. Buck	22	M. Williams	19
T. Mayo	18	P. Brown	10
C. Edwards	12	J. Simms	8
D. Branch	8	S. Anderson	7
R. Garappolo	6	R. Hart	6
S. Springston	5	C. Saxton	4
A. Jones	4	D. Eleazer	2
A. Ratti	2		

3-point shots: T. Buck, R. Garappolo (2), M. Williams

Volleyball

League Standings as of April 2

Open League		League I (Final)	
Magnum	46-8	Upfagrabs	59-13
Me and the Boys	33-21	Network News	50-22
G-Team	31-23	Rude Dogs	48-24
Phoenix	23-31	Dinkers	39-33
Leftovers	15-39	Six Pack Attack	32-40
Penetrating Vollies	14-40	Setups	18-54
		Bumps & Sets	6-66
League II		**League III (Final)**	
Monday Night Live	44-4	Interns	35-19
Just Ups	31-17	Nutcrackers	35-19
Net Wits	29-19	Over the Top	35-19
Nuts & Bolts	28-20	Renegades	31-23
Fossils	27-21	High Volley'em	31-23
Night Court	25-23	Sourcerers	27-27
Volley of the Dolls	14-34	Good Timers	24-30
Upton Ups	11-37	Undertakers	12-39
Muffits	7-41	Silver Bullets	10-41

Microcomputer Club

The Microcomputer Club will next present "Introduction to and Setting Up Windows," by Robert Frankel, Safety Section Head in the Alternating Gradient Synchrotron (AGS) Department. This will be held in the CCD conference room, Bldg. 515, on Thursday, April 16.

Windows provides a new, more intuitive way to use a PC, but is it right for you? Frankel, who uses a Windows environment for training at the AGS, will give examples of why he has chosen this software.

All are welcome to attend; bring your lunch. For more details, contact Irving Montanez, Ext. 2540.

PSI Meeting

Camille D'Amato, a chiropractor with Suffolk Family Chiropractic Center, will speak on "Menopause: How it Affects a Woman's Metabolism," at the next meeting of the Upton Chapter of Professional Secretaries International (PSI). The meeting will be held on Wednesday, April 15, at 6 p.m., in the south dining room of the Brookhaven Center. Guests are welcome.

For more information, call Patricia Durcan, Ext. 3807, or Nancy Griffin, Ext. 4177.

Bowling

Red/Green League

H. Marshall had a 243/208/642 scratch series, R. Raynis 225, A. Warkentien 225, R. Larsen 223/212/621 scratch, S. Dimaiuta 215, H. Arnesen 212, M. Guacci 212, F. Griswold 208, R. Mulderig 202, K. Asselta 201, E. Meier 201.

White League

Tom Romano had a 264, Ed Sperry IV 203 and converted the 6/7/10 split, Dick Adams 203, John McCarthy 200, Annamarie Spira 198, Sharon Smith 196, Kay Conkling 181.

Purple League

Caryl MacDougall had a 219, Andy Warkentien 213, George Munoz 203, John Addessi 203, Diane Lombardi 183, Mary Grace Meier 181, Ed Sperry converted the 3/7/10 split.

Arrivals & Departures

Arrivals

Kenneth M. Hartmann.....AGS
Kevin J. Fox.....Con. & Proc.
Andrew G. Palimotti.....S&EP
Yannis K. Semertzidis.....Physics

Departures

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

Martin F. Montag.....Sfgrds. & Sec.

BWIS Meeting

Diane Cabelli, an associate scientist in the Chemistry Department, will be the guest speaker at the next meeting of Brookhaven Women in Science (BWIS), on Thursday, April 16, at noon, in Room C, Berkner Hall. She will discuss "Some Studies of the Structure-Function Relationship in the Enzyme Superoxide Dismutase."

Cabelli, who first came to BNL as a research associate in 1981, will describe how changing amino acids, the building blocks of proteins, by site-selective mutagenesis can affect the reactivity of the enzyme superoxide dismutase (SOD) towards its substrate, superoxide. As Cabelli will explain, BNL has become an important center for activity studies on SOD because the superoxide (negatively charged dioxygen) can be cleanly generated using radiation chemistry.

All are welcome. Bring your lunch; coffee, tea and cookies will be provided.

Cafeteria Menu

Luncheons

Monday, April 13*

Soup: Navy bean	.80/1.10
Entree: London broil w/1 veg.	3.65
Entree: Chef's choice	3.20
Fitness: Baked fish Kiev w/1 veg.	3.45
Carvery: Hot pastrami sandwich	2.95
Grill: Monte Cristo w/coleslaw	2.85

*Enjoy our chuck wagon pancake breakfast

Tuesday, April 14

Soup: Beef Calcutta	.80/1.10
Entree: Linguine w/Alfredo sauce	3.45
Entree: Chef's choice	3.20
Fitness: Grilled breast of chicken w/1 veg.	3.20
Carvery: Hot oven-roasted beef sandwich	2.95
Grill: Chicken tenders on a croissant	2.95

Wednesday, April 15

Soup: Cream of broccoli	.80/1.10
Entree: Chicken & dumplings w/1 veg.	3.45
Entree: Taco bar	(each) .90
Fitness: Grilled mahi-mahi w/1 veg.	3.45
Carvery: Hot corned beef sandwich	2.95
Grill: BBQ pork on bun w/fries	2.95

Thursday, April 16*

Soup: Corn chowder	.80/1.10
Entree: Pork chow mein over rice	3.20
Entree: Chef's choice	3.20
Fitness: Vegetarian plate	2.35
Carvery: Hot Virginia ham sandwich	2.95
Grill: Meatball sub w/coleslaw	2.85

*Coffee break — buy one, second cup half price

Friday, April 17

Soup: New England clam chowder	.80/1.10
Entree: Seafood Newburg w/1 veg.	3.45
Entree: Fried fisherman's platter	3.85
Entree: Chef's choice	3.20
Fitness: Baked chicken oregano w/1 veg.	3.45
Carvery: Hot roast turkey sandwich	2.95
Grill: Grilled tuna melt w/fries	2.95

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 Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, 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.

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

POSTDOCTORAL RESEARCH ASSOCIATE - trained in chemistry or physics to carry out theoretical and experimental research on aerosol characterization using Raman spectroscopy and mass spectrometry. Contact: Ignatius Tang, Department of Applied Science.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

MK 0711. MAIL CLERK - (temporary, 5/11-9/11/92). Staff Services Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 8116. SAFETY ENGINEER - Requires BS (MS preferred) in industrial hygiene, health physics, chemistry or related field, and significant experience in the development and implementation of health and safety programs for assessment and remediation of hazardous waste sites. Requires broad knowledge of regulations including CERCLA and RCRA, and OSHA and NRC requirements. Duties will include coordinating and monitoring health and safety plans, training and waste-management programs. Will provide general ES&H support to the Office of Environmental Restoration. Safety and Environmental Protection Division.

Motor Vehicles & Supplies

91 TOYOTA CAMRY - gray, 4-dr., a/t, ac, p/s, p/b, am/fm cass., 2.5k mi., new, still under warranty, $11,750. Ext. 3134.

91 HYUNDAI EXCEL SE - 3-dr. h/b, black, 5-spd., ac, am/fm cass., mags, like new, 17k mi., $5,950. George, Ext. 4769.

89 CELICA GT - h/b, a/t, p/s, p/b, am/fm stereo, ac, red w/sport stripes, spoiler, alarm, 60k mi., $8,000 neg. Paul, Ext. 2447 or 878-1486.

87 NISSAN STANZA GXE - all power, fully loaded, am/fm cass., ac, 5-spd., excel. cond. in & out, $5,500 neg. Tim, Ext. 5277 or 744-1090 eves.

87 TOYOTA MR2 - 64k mi., black, sports pkg., $5,995; '84 luxury conversion van, 89k mi., runs well, $3,950. Roy, Ext. 7357.

85 DODGE RAMCHARGER - loaded, running boards, am/fm cass., alarm, excel. cond., must see, $7,000. Chris, Ext. 2326.

84 CHEVY CAPRICE CLASSIC - s/w, a/c, p/s, p/b, p/w, am/fm, 110k mi. V-8, good cond., must sell, $1,700 neg. 399-2757.

83 SAAB - 4-dr., p/s, p/b, a/t, am/fm cass., v.g. cond., must sell, $2,195 neg. 589-2759.

TIRES - 5, 225x75R15, Uniroyal, Tiger Paw, raised white letters, used 29k mi., $100. Jim, Ex.t 4040.

Boats & Marine Supplies

21' BAYLINER TROPHY - 1988, VHF, CB, am/fm, full canvas, 125-h.p., trim tabs, fish box, bait well, trailer, $9,450. 929-5911.

19' BAYLINER BOWRIDER - 1987, 125-h.p. Force, full canvas, low hrs., excel. cond., must sell. Ext. 2642.

19' RHODES #69 SAILBOAT - CB, Hard sails, cockpit cover, extras, excel. cond., ideal daysailer, $2,200. 286-0008.

17' BOAT - f/g, full canvas, new int., windshield, all access., plus galv. trailer, excel. cond., 60-h.p. Evin. needs work, $1,000. 878-1617 after 6 p.m.

13' TRI HULL - fiberglass lake boat w/trailer, 36 lb. thrust electric motor w/battery, asking $850. Joey, Ext. 2950 or 758-2938.

Furnishings & Appliances

APPLIANCES - Whirlpool gas dryer, white, $125; gas stove, white, $50. Ext. 4417 or 5873.

BEDROOM SET - dark brown, bed & 2 dressers. Chas, 288-2080.

BEDROOM - oak, queen size, dresser, w/mirror, armoire, 2 end tables; boy's desk w/large drawers, dresser, old, oak. Bob, 467-4222.

DINING ROOM - antique, mahogany table w/2 leaves, oval shape, excel., $175. Paul, Ext. 3308.

DINETTE SET - white & chrome, 4 Naugahyde chairs, table w/extra leaf, $175. 475-8658.

FIREPLACE - insert, wood or coal, complete, $125. Roger, Ext. 7518 or 878-8847.

GARBAGE COMPACTOR - Kitchen-Aid, KCS-200, fits under standard countertops, white, asking $90. Leo, Ext. 2273 or 728-0992.

LIVING ROOM - Colonial, couch, rocker, chair, coffee table, 2 end tables, v.g. cond., $200. Phil, 924-6790.

COUCH - blue print, $190; heavy trestle table, $160; 2 old dressers. 475-4199.

DINING ROOM SET - 6 upholstered chairs, reasonable. 363-7032.

DINING ROOM - pine, 68"w x 78"h hutch, trestle table, 4 chairs, $200/all. 744-2404.

LIVING ROOM - coffee table, 2 end tables, dark pine, 2 ceramic lamps, v.g. cond., make offer. 588-3999.

LIVING ROOM - high-back couch, love seat, 3 end tables, coffee table, 3 lamps, $900. Annamarie, Ext. 2352 or 821-5247.

OVEN - Farberware convection, 13¼"d x 20½"l x 14"h, drip tray, 2 chrome racks, like new, $100. 475-7257.

RANGE - GE, elec., self-clean, 3 yrs. old, $285 neg. Gene, Ext. 7113 or 874-4248 after 7 p.m.

SLEEPER SOFA - country blue print, 4 yrs. old, good cond., make offer. 924-7476.

VACUUM - Kirby Upright Classic III, all attach., carpet shampooer, metal casing, v.g. cond., $100. Joann, Ext. 5671 or 472-6742.

WALL UNIT - 3-piece contemp., black lacquer, smoked glass, mirrored bar, TV, display units, interior lighting, $800. Jim, 929-6896.

Tools, House & Garden

WOOD STOVE - Vermont Castings Vigilante w/pipes, chimney cap, 2 cords of hardwood, $950. Steve, 722-4821.

COAL STOVES - 1 small w/stove pipes, $75; 1 large w/stove pipes, $125. Jim, 929-6896.

ENGINE - Briggs & Stratton, 3½ h.p., horizontal shaft w/centrifugal clutch, $65; Sears lawn tractor, 11 h.p., 36" deck, $350. Dan, Ext. 4987.

GAS GRILL - Arkla, dual burner, chrome warming rack, shelf, rotisserie, elec. motor, $125. 475-7257.

KEROSENE HEATER - like new, hardly used, $125. 698-2798.

PATIO FURNITURE - metal, 2 couches, 2 chairs, cushions, 2 tables, footstool, $200; redwood table, 60" round, 4 benches, more, $100. Bob, 467-4222.

POOL WATER PUMP - Little Giant, new, complete, w/motor for slide or fountain, $25; motor alone, $13. 727-3608.

ROTOTILLER - Troy-Bilt, 2 seasons old, excel. cond., orig. $1,300, asking $800. Sauter, Ext. 3783.

STORM DOOR - 30" crossbuck, w/screen, heavy-duty, brown, new, still in box, orig. $180, sell for $100. Janet, Ext. 4049.

STORM WINDOWS - screens on top, quality prime seal, brown, eight 28"x55", eight 28"x51", like new, $35/ea. Alex, Ext. 3680.

TOPSOIL - $15/yd. unscreened, $20/yd. fine screened, delivered, 3 yd. min. 696-6011.

TREES - balled, ready for planting, 6 blue spruce, 5', $40/ea.; Douglas fir, 6', $50/ea. Tom, Ext. 4507 or 878-1060.

WINDOW - Andersen, triple, 6'x12', thermal pane, bottom louvers, $350. 929-6235 after 5 p.m.

Sports, Hobbies & Pets

BICYCLE - Colnago Master, 56cm, w/Dura Ace headset & BB. Oscar, Ext. 3499.

GUITAR - Takamine F349, w/case, mahogany, mint cond., $200. 698-2798.

WEIGHT-LIFTING BENCH - weights on pulley system, good cond., $20. Ext. 2095.

CAMERA - Nikomat 35mm, 50mm coated F1:1.4, Vivitar 70-210mm zoom, 2x3 wide angle lenses, almost new, $300. Ulysses, Ext. 7584.

FISH TANK - 20-gallon, stand, gravel, heater, air pump, box filter, $45. Roy, Ext. 7357.

GOLF CLUBS - Cougar II, complete set, SW through 3 iron, 3 wood and driver, $150. Charles, 286-9458.

PIANO - baby grand, needs tuning, good for practice, ivory keys, $450. Lora, 567-8063.

PIANO - Schumann, upright, red mahogany, w/bench, excel. cond., $2,200. Kerry, 878-4757.

PHOTOGRAPHY DARKROOM EQUIPMENT - enlargers, developers, timer, heater, etc., come see, make offer. Mike, Ext. 4034 or 395-4832.

ROWING MACHINE - Sears, $50. Bob, 467-4222.

SLIDE PROJECTOR - Bell & Howell, 35mm, 58 slide cubes, 5 boxes, 1 metal slide tray, $35. Ralph, Ext. 2180.

SURFBOARD - 5'8", cover & leash, excel. cond., $200; X-C skis w/bag, poles, woman's 8½ boots, used twice, $90. Karen, 345-0302.

VIOLIN - w/case, good cond., $100. Gina, Ext. 2396.

BICYCLE - Trek 420, CrMo double butted tubing, 24" frame, 12-spd., Shimano 600EX crank, barcon shifters, $200 neg. Chris, Ext. 2593.

BICYCLE - Schwinn light speed, man's, hand brakes, 10-spd., red, like new. Ext. 2582.

BUNNIES - baby dwarf, $6. John, Ext. 2675 or 924-3528.

BUNNIES - adorable, cages, all supplies, reasonable. 286-1060.

BUNNY - mini Rex, trained, white & tan w/black spots, cage & access; yellow canary, male, singer, white & yellow decorator cage. 744-3069.

EXERCISE BIKE - DP, ergometer, w/electronic fitness computer, brand-new, still in box, $190. Jennifer, 732-8124.

PUPPY - your choice of breed, pedigree, all shots, $400. 821-1042.

ROWING MACHINE - DP Lifestyler 2500, never used, $60; slant board, $20. Ext. 7573.

SITAR - and Indian drums, same as used by Ravi Shankar, excel. cond., extra new drum heads, best offer. Saxon, 929-4701.

Audio, Video, Computer

COMPUTER - XT clone, 20MB hard drive, green mono monitor, mouse, $250; Toshiba P321 printer, w/acces., $180. Monica, Ext. 5455.

PROJECTOR - Keystone, 8mm, in case, no take-up reels, v.g. cond. 924-8558.

STEREO - Panasonic, turntable, graphic equalizer, digital snythesizer, 2 cassette decks, 16-channel memory, cabinet. Ext. 2582 or 298-3824.

TAPE DECK - Nakamichi RX505, 3-head, like new, w/access., orig. $1,300, ask. $600. Chris, Ext. 2326.

TV - RCA, color, 20", like new, $75. Marion, Ext. 5087.

VIDEO GAME - Sega Genesis, extra controller, 2 games, mint cond., $145 neg. Peter, 286-2788.

Miscellaneous

BINOCULARS - 7x50 AMC, w/leather case, good cond., $15; Encyclopedia Americana, complete 30 volume, new cond., $60. Saxon, 929-4701.

CRIB - Simmons, $150; Fisher Price car seat, $50; Graco stroller, $50. 475-9019 or 758-4956.

DIAMOND RING - 14K, 6 prongs, approx. 30 points, must sell. Linda, Ext. 7187.

FASHION BOOTS - woman's, leather, knee-high, size 6, 2 pairs, 1 brown, 1 black, look brand-new, were $70/ea., sell for $40. Eugene, Ext. 7113.

GOWNS - worn once, white, 11/12, satin, lace, $40; pink, 15/16, satin, lace, $80; purple, 7/8, satin, $25; blue, 9/10, $25. Heidi, 281-7873.

HUTCH - top, $49; Country Inn books, $100; snow skis, $20; small girl's bike, $25; glass grape lamp, $75. Kathy, 744-2203.

PRESSURE COOKER - 6 qt., antique, $10; pitcher pump, $18; large dresser, headboard, 2 night stands, $50/all; table & 4 chairs, $50. 878-6637.

TICKETS - 2, NY Philharmonic, Lincoln Center, May 1, Tchaikovsky, Dukas, *Sorcerer's Apprentice*, $40/ea. Mike, Ext. 4061.

WEDDING GOWN - silk organza, new, size 10, orig. $600, sell for $250. 878-1617 after 6 p.m.

Free

CAT - male, 6 mo. old, beautiful, furry, beige color. 744-5895 after 6 p.m.

Yard & Garage Sales

TAG SALE - d/r, den furn., dinette table & chairs, many other household items, reasonable prices. 732-1389.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

BELLPORT VILLAGE - large 1-bdrm. apt., l/r, d/r, full kit., great location, village privileges, $625/mo. incl. heat, cable TV. 447-1417.

BLUE POINT - 1-bdrm. apt., l/r, kit., lg. closets, o/s ent. w/deck, near water, walk to bus routes, $675/mo. + 1 mo. sec., refs. 363-6845.

BROOKHAVEN HAMLET - 1-bdrm. apt., l/r, kit., fully tiled bath, furn. or unfurn., cable TV, priv. ent., immaculate, no pets, mature single only, $575/all. Fred, Ext. 4798 or 289-4798.

CENTER MORICHES - 2-rm. apt. w/full bath, priv. ent., off-street parking, close to shopping, transp., $475/mo. incl util., 1 mo. rent & sec., 15 min. to Lab. Bob, Ext. 4672 or 929-4753 eves.

CENTEREACH - 2-bdrm. bsmt. apt., l/r, full kit., full bath, priv. ent., cable, mature nonsmoker, furn./unfurn., lg. property, $600/mo. incl. util., 1 mo. sec. Pam, Ext. 4082 or 732-6280 eves.

EAST SETAUKET - 1-bdrm. apt., l/r-kit. combo, ground floor, 7 min. from SUNY, sep. ent., cable, w/d, no pets, single, $575/mo., util. incl. Valerie, 751-6091.

FARMINGVILLE - bdrm., share bath, 20 min. from Lab, $85/wk. 732-2786.

MEDFORD - 1-bdrm. Blue Ridge upper condo, l/r, d/r, kit., all appl., cac, full club facilities, nonsmoker, $700/mo. + util., 1 mo. sec. Russ, Ext. 3059 or 758-3952 after 6 p.m.

MEDFORD - studio apt., low utilities, rent free in exchange for evening child care, single preferred. 758-0465.

MIDDLE ISLAND - 2-bdrm. condo, furn., 1½ baths, 4 yr. old, l/r, kit., all appl., clubhouse, pool, $875/mo. + util. 751-8351.

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

N. PATCHOGUE - new 1-bdrm. apt., full bath, new appl., carpet, etc., near everything, quiet neighborhood, priv. ent., single, nonsmoker, $625/mo. incl. all, avail. immed. 758-2328.

NORTH SHIRLEY - 2-bdrm. upstairs apt., eik, l/r, full bath, priv. ent.; all utilities, 5-10 min. to Lab, $700/mo. 924-7849 after 5:30 p.m.

NORTH SHIRLEY - rooms in 3-bdrm. ranch, clean, quiet, kitchen priv., w/d, 5 min. from Lab, $80/rm. Bob, 281-7432.

OLD MASTIC - small 2-bdrm. house, 1½ baths, w/2-rm. studio w/full bath, all appl., 2 fp, screened porch, wooded setting, near water, 20 min. to Lab, avail. April 1, $880/mo. + util. Hans, Ext. 3737.

PORT JEFFERSON STATION - 2-bdrm. apt., kit., l/r, full bath, very priv. wooded property, $750/mo. + util. & 2 mo. sec. 473-8637.

RIDGE - 2-bdrm. condo, 1½ baths, l/r, d/r, 5 min. to Lab, $800/mo. + util. Suzette, 399-2159 eves.

RIDGE - furn. studio apt. w/fenced yard, priv. ent., 3 miles to Lab., $480/mo. Ext. 2673 or 744-8632.

SHIRLEY - new 1-bdrm. apt., carpeted, spacious l/r, full bath, full kit. w/dinette, priv. ent., $650/mo. for all. 399-7605 after 5 p.m. 727-1494.

SHOREHAM - 3 large bdrm., 2 full baths, full kit., lg. d/r, l/r, deck, bsmt., 2 walk-in closets, $1,350/mo. incl. all. Gina, Ext. 2396.

SMITHTOWN - immaculate 1-bdrm. in new house, share kit., bath, l/r, d/r, priv. ¾ acre, 25 min. to Lab, w/w, nonsmoker, $400/mo. Jim, 979-0632 after 6 p.m.

YAPHANK - 4-bdrm. apt., priv. ent., 2 baths, large l/r, d/r, full kit., all appl., fp, fenced yard, 5 min. to Lab, no pets, $1,100/mo. incl. all + sec. Mike, Ext. 4986 or 924-5588 after 4:30 p.m.

ORLANDO, FL - timeshare, 2-bdrm. apt., full equipped, sleeps 6, week of July 4-11, $480/neg. Ext. 2683 or 751-2469.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, tennis, beach, golf nearby, April, $450/wk. Guy, Ext. 3147 or 689-5378.

For Sale

CALVERTON - 4-bdrm. ranch, 2 baths, ½ acre, l/r, d/r, 20'x20' den, skylights, low taxes, ask. $165,000. John, 727-7794.

EASTPORT - 3-bdrm. ranch, 2 full baths, full bsmt., new oil heat, sprinklers, deck, 1½-car gar., mint, 1-acre wooded, taxes $3,200, Southampton Town Beach rights, $169,500. Mike, Ext. 7941.

EAST SETAUKET - 3VSD, 4 bdrm., 1½ baths, gar., fenced yard, patio, deck, w/w carpet, new roof, d/w, refrig., 100'x150', $129,900. 286-8814.

MEDFORD - 3-bdrm. center hall Col., 1½ baths, eik, den, l/r, d/r, gar., 0.4 acre, fenced, $127,900. 286-1571.

MIDDLE ISLAND - 2-bdrm. condo, 1½ baths, cac, French doors, G.E. appl., low common charges, pool, clubhouse, 5 min. from Lab, ask. $89,000. Mark, 924-1561.

MIDDLE ISLAND - 2-bdrm. condo, 4 yr. old, 1½ baths, l/r, kit., all appl., clubhouse, pool, $89,000. 751-8351.

N. SHIRLEY - 3-bdrm. ranch, 1/3+ acres, fenced yard, new boiler, HW heater, windows, renovated contemp. kit., bsmt., igs, by Southaven Park, extras, mint, $121,000. Jim, Ext. 2957 or 281-4541.

N. SHIRLEY - 2-story, 3-4 bdrm., l/r, d/r, 2 baths, ½ bsmt., new appl., laundry rm., 2 decks + pool w/deck, ½ acre, near LIE, Lab, Longwood SD, $120,000. Kathey, 345-3778.

N. SHOREHAM - 3-bdrm. L-shaped ranch, d/r, sunken l/r, eik, oak floors, fin. bsmt., workroom, 2-car gar., ½ acre, igs, deeded beach rights, $179,900. Mike, Ext. 5972 or 744-4579.

PORT JEFFERSON STATION - 1 or 2-bdrm. ranch, l/r-d/r combo, eik, full bsmt., 1½-car gar., 16'x16' deck, blacktop driveway, country setting, low taxes, mid 90's. 331-7812 eves.

RIDGE - 3-bdrm. ranch, 4 yr. old, 2 baths, cac, 5 min. to Lab, ¾ acre, wooded lot, $137,000. 821-1455.

SELDEN - 4-bdrm., 1½ baths, splanch Colonial, eik, l/r, d/r, fam. rm., fin. bsmt., gar., energy eff. windows, fenced-in yard, extended driveway, excel. cond., $128,500. 732-1389.

SHIRLEY - 3-bdrm. ranch, designer bath w/skylight, full bsmt. w/laundry rm., all oak floors, d/r, l/r, sec. lights, fully fenced on 100'x100', $110,000. Ext. 3531 or 281-7578.

SHIRLEY - Tangier section, 5 bdrm., 2½ baths, 2-car gar., sunroom, l/r, fp, eik, part. fin. bsmt., utility rm., pool, yard, large decks, relocating, $144,500. 281-6233.

SHOREHAM - 3-bdrm. ranch, l/r w/fp, d/r, eik, laundry, den, full fin. bsmt., 1½-car gar., large deck, prof. landscaped, ½+ acre on cul-de-sac, SWR SD, low taxes, $155,000. Ken, 744-0722.

SPEONK/WESTHAMPTON - 2-bdrm. 1987 Liberty mobile home, eik, bay window in l/r, 10'x10' shed, $35,000. Dave, Ext. 5460.

WADING RIVER - priv. beach road, 3 bdrm.-ranch, 1½ baths, fd/r, eik, all appl., bsmt., shed, deck, treed, ac, County water, ½ acre, cyclone fence on 3 sides, $135,000. 929-4701.

WESTHAMPTON BEACH - 3-bdrm. ranch, 1½ baths, cac, oil heat, encl. patio, fp, ½ acre, attach. gar. 821-0865.

OCALA, FL - corner property, zoned for townhouse, water & elec., close to Orlando, $22,000, neg. 929-3298.

SHAWNEE, PA - timeshare week 40, kit., d/r, sleeps 6, fp, golf, indoor pool, horseback riding, rafting, canoeing, $9,500 neg. Tom, Ext. 5350.

SHAWNEE, PA - timeshare week 21, d/r, sleeps 6, fp, golf, indoor pool, horseback riding, rafting, canoeing, also RCI, $10,000. Chas, Ext. 2021.

Wanted

ANTIQUE SINGER SEWING TABLE - and old wood kitchen cabinets, reasonably priced. E. White, 928-7105.

ART & CHERRY BLOSSOM LOVERS - to go to Brooklyn Museum & Gardens, Sat., 4/25, 9 a.m.-6 p.m.; bus, $15. Liz, Ext. 2346.

BABY'S BICYCLE SEAT - and helmet. Ext. 5355 or 474-3863.

BEDROOM SET - queen-size, bed, dresser, night stand, etc., good cond. Sharon, Ext. 3359.

BLUE DASH LIGHT - for volunteer EMT, reasonable. Anna, 878-6760.

RUBBER CLEATS - to fit woman's size 6-6½, leather upper, for softball. Georgia, Ext. 7957.

DANCERS - to join newly forming BERA ballroom, swing & Latin dance club. Walter, Ext. 3086.

GOLF CLUBS - for beginner. 924-7849.

HOUSE TO SIT - visiting college student working w/DNE from 6/1-8/31. Dan, Ext. 4050.

PIANO STUDENTS - to take lessons from experienced, qualified teacher. Ext. 3191.

PUBLIC SPEAKING - impress your supervisor w/a snappy presentation, join Toastmasters. Darryl, Ext. 7892.

SUBSTITUTE TEACHER AIDES - for the on-site Child Development Center, child-care experience necessary. For interview, Ext. 7426.

TRAILER - for lawn-care business. Tom, Ext. 4563.

GERMAN TRANSLATOR - to translate 2 technical articles on concrete chemistry, roughly 5,000 words total. Bob, Ext. 2363.

TUTOR - for high school biology and seq. math I, must be current college student or teacher. Lucille, 929-5676.

VIEWERS - for video "Jesus" by Campus Crusades; 2 parts, 4/14 & 16, noon, Snyder Conf. Rm. 911A. Frank, Ext. 2368, or Pete, Ext. 3297.

In Appreciation

Thanks to my friends for the support they gave me upon the death of my mother.

— Patricia Jencius

The family of Henry E. Boyd would like to sincerely thank the friends and co-workers at BNL for their prayers, kindness and support.

— The Boyd Family

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.

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