BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

Roger Stoutenburgh

European Biotech Reps Tour Lab

Standing by beam port X12, Physicist William Thomlinson (right), Associate Chairman of the National Synchrotron Light Source (NSLS), explained the workings of the protein crystallography station developed by BNL's Biology Department to representatives from European biotechnology companies.

As part of a tour sponsored by the New York State Department of Economic Development, which hopes to interest foreign technological companies to move to Long Island, 35 corporate representatives toured the Lab during the morning of March 26, before visiting the Brookhaven R&D Park and the State University of New York at Stony Brook.

Hosted at BNL by Associate Director Sy Baron (back, left), the group also stopped at the angiography, holography, x-ray microscopy and crystallography beam lines at the NSLS. After walking through the Chemistry Department's Positron Emission Tomography VI facility, they heard about the Medical Department's Brookhaven Linear Isotope Producer and the biotechnology research going on in the Department of Applied Science.

Two BNLers Win Fellowships

Two members of the BNL staff — Venkatraman Ramakrishnan and Scott Willenbrock — have recently won prestigious fellowships supporting their research in biophysics and in physics, respectively.

Venkatraman Ramakrishnan, Biophysicist in the Biology Department, was granted a 1991 Guggenheim Fellowship by the John Simon Guggenheim Memorial Foundation.

The foundation was established by Simon Guggenheim, an industrialist who was a U.S. Senator from Colorado, 1907-13, and his wife Olga as a memorial to their son John Simon, who died April 26, 1922.

For 1991, Ramakrishnan was one of 143 Guggenheim Fellows selected out of 3,092 applicants by a seven-member selection committee. In addition to scientists, the 1991 fellows include creative and interpretive artists, social scientists and humanities scholars. They were selected based on their achievement to date and their future promise within their professional fields.

The grants average $26,500 and will be used by the fellows to pursue the projects that they proposed to the foundation.

Ramakrishnan will use his grant to take a sabbatical at the Medical Research Council of Molecular Biology in Cambridge, England. There, he will work with John Finch on understanding the structure of histone H1, a protein that is essential in the organization of chromosome structure.

Ramakrishnan received his Ph.D. in physics from Ohio University in 1976. To switch fields, he studied biology in graduate school at the University of California, San Diego, 1976-78. Ramakrishnan was a postdoc at Yale University, 1978-82. While there, he intermittently had an appointment as a guest research associate in BNL's Biology Department from October 1978 to April 1982.

After a year as a research staff scientist at Oak Ridge National Laboratory, 1982-83, Ramakrishnan joined BNL's staff in July 1983 as an assistant biophysicist. He was promoted to an associate biophysicist in October 1985 and to his present position in October 1988. He was granted tenure in April 1990.

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Scott Willenbrock, Associate Physicist in the Physics Department, was recently awarded a Superconducting Super Collider (SSC) National Fellowship. The fellowships are awarded annually as "a mark of true distinction" to outstanding young scientists throughout the United States and are funded by the Texas National Research Laboratory Commission.

The 24 SSC fellows were chosen by a committee appointed by SSC Laboratory Director Roy Schwitters. Selections were made on the basis of the ability of the candidates, the quality of the research work proposed, and its application to SSC interests. Fellows will receive full salary support, travel and research expenses, to spend the next academic year working at their home institutions on scientific research related to the SSC.

Willenbrock, a member of the High Energy Theory Group since his arrival as a BNL assistant physicist in 1988, will be focusing on the physics of the electroweak symmetry breaking mechanism.

Students Learn About Making WISE Career Choices

About 60 high school students, accompanied by equal numbers of parents, teachers, counselors and friends, attended the Women in Science and Engineering (WISE) Career Day held at BNL on Saturday, April 20.

Meeting them in Berkner Hall were over 50 BNL women and men, for whom this day was the culmination of many weeks of planning. Their collective goal: to give the young attendees to the WISE program a full day of positive exposure to the possibilities available to women in scientific and technical fields.

"The people who attended were impressed by the quality of the people with whom they interacted," said Program Coordinator Victoria McLane, Brookhaven Women in Science (BWIS). "One of the most important things the students learned is that the opportunities are available — to the people who go after them."

The attendees reached this conclusion during a program that included displays focusing on many disciplines: biology, chemistry, computer science and mathematics, engineering, materials science, medicine, physics, safety and environmental protection, and atmospheric, environmental and marine sciences. At each of these display areas, BNL staff shared additional insights with individual attendees.

Other highlights of the day were a keynote speech by Judith Wishnia, State University of New York at Stony Brook; a seminar on antarctic research, led by Jeanette Yen, also of Stony Brook; a computer exhibit, videos detailing various career opportunities, tours of the Exhibit Center/Science Museum; and announcement of the winners of a poster contest held to celebrate Earth Day: Erin Collins, Ridge; Leigh Kaste, Blue Point; and Michelle Teon, Dix Hills.

Primary funding for the WISE Career Day came from the U.S. Department of Energy's Office of University and Science Education Programs, through BNL's Office of Educational Programs (OEP). The event was organized by BWIS in cooperation with OEP, the Office of Scientific Personnel, the Tour Program of the Public Affairs Office and Women's Program Coordinator Virginia Brown.

Said Brown, "This Career Day was the success it was thanks to the enthusiasm of the many terrific people who worked so hard and who set up some very impressive displays."

BNL's Chu Ng (back), Physics, and Pamela Mansfield (center), Computing & Communications, demonstrate the SUN Sparc workstation at the Computer Technology display to a high school student attending the WISE Career Day.

For Emergency TDD, Call Ext. 7032

In case of emergency, hearing-impaired employees and visitors to BNL can now communicate with the Lab's Police Group by dialing Ext. 7032 and typing messages using a telecommunications device for the deaf (TDD).

As Sergeant Sheryl Busby demonstrates here, a TDD is an electronic typewriter-like device with a built-in modem. Once a telephone link is established between two TDDs, messages can then be typed back and forth.

Since November 1990, the Police Group has had a SuperPrint 400 TDD in Police Headquarters, Bldg. 50, and been trained in its use. When a call comes in over the dedicated extension, the sergeant on duty at the front desk is charged with answering it via TDD.

Last summer, the first set of hearing-impaired students to participate in BNL's annual Summer Student Program included three undergraduates from Gallaudet University in Washington, D.C. Each was issued a portable TDD for regular use by the Office of Educational Programs (OEP).

As a result of their stay, OEP realized that a way had to be found to communicate during an emergency with deaf people on site, including the hearing-impaired computer operators in the Computing and Communications Division. And so the Police Group obtained a TDD.

Roger Stoutenburgh

BNL-Sponsored Whiz Kids Place Second In National Science Bowl

A team of Long Island high school students did Brookhaven proud earlier this week, when they placed second in the first National Science Bowl, held in Washington, D.C., April 20-22.

The five-member team, representing both Nassau and Suffolk counties, was sponsored by BNL. A total of 18 regional teams from all over the country competed in the bowl, fielding questions in biology, chemistry, physics, astronomy, earth science, mathematics and computer science.

Sponsored by the U.S. Department of Energy and the Intel Corporation Foundation, the bowl was established to heighten interest in science among precollege American students.

L.I. team members were: Jeremy Brosowsky, a senior at The Wheatley School in Old Westbury; Craig Misciagno, a senior at West Islip High School; Jim Noonan, also a senior at West Islip; Mike Rost, a senior at Lynbrook High School; and Kurt Thorn, a junior at Shoreham-Wading River High School. Kurt's father, Craig Thorn, is a physicist in BNL's Physics Department.

Long Island's BNL-sponsored National Science Bowl team and its coaches: (front, from left) Mike Rost, Jim Noonan, Craig Misciagno, (back, from left) coach Bill Lynch, Kurt Thorn, Jeremy Brosowsky, and coach Nancy Lynch. — photo by Roger Stoutenburgh

Coaches for the team were two East Islip High School teachers with long-time associations with BNL's Office of Educational Programs (OEP) — William Lynch, a physics teacher, and Nancy Lynch, who teaches biology.

The Long Island team was selected by WLIW-TV, Channel 21, from among students who competed in the "Brainstormers" TV program, a quiz show for Long Island high schools. Through OEP, BNL provided the team's coaches and handled travel arrangements to Washington. The team had two practice sessions with their coaches before the competition.

Reported Bill Lynch, "Going into the final round, the Long Island team was the only one undefeated." But there, they finally met their match — the team from Texas, sponsored by the Superconducting Super Collider Laboratory.

"We had a very strong team," said Lynch. "Though they came from four different schools, they really worked well together. Right from the beginning, they were shooting for the top. And it's clear that they also have parents and teachers who are concerned."

He added, "The Texas team came from a single high school, but a so-called magnet school, which pulls kids from a large area. So it is interesting to note that the top two teams both drew students from a wide geographical area, making them especially competitive."

During their three-day stay in the nation's capital, the Long Island students also visited Capitol Hill, toured the National Air and Space Museum, lunched at the National Press Club, and enjoyed dinner and a cruise on the Potomac River.

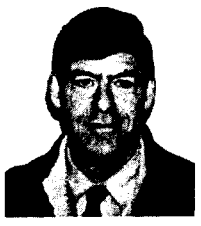
It was on that cruise trip that a bit of banter was exchanged between the BNL-sponsored team and their next morning's opponent, the California team sponsored by Lawrence Berkeley Laboratory. "LBL sent the waiter over with a message that read: 'Eat, drink and be merry!'," said Lynch. "Our team quipped back, 'To sleep, perchance to dream.' "

As one of the top four teams in the competition, the Long Island students were also honorees at a special ceremony at the White House, where they were congratulated by First Lady Barbara Bush. — Mona Rowe

To Your Health
Mammography Saves Women's Lives

The incidence of breast cancer has increased about 3 percent a year since 1980. Today, one out of every nine American women develops breast cancer, so an estimated 175,000 new cases of breast cancer are expected among U.S. women this year.

Although incidence rates are increasing, early detection and improved treatment have kept mortality rates fairly stable over the past 50 years. The most effective tool for detecting breast cancer early is mammography, which is a low-dose x-ray examination of the breast.



As a preview of national Breast Cancer Detection Awareness Week, May 6-10, "Mammography: Facts, Fallacies and Future" will be discussed at the next lecture sponsored by the Health Promotion Program of the Occupational Medicine Clinic. To be presented by physician Ronald Hames, the talk and slide show will be given on Thursday, May 2, from noon to 1 p.m. in Room B, Berkner Hall. Employees, their spouses and dependents are welcome; bring your lunch.

During the hour, Hames will review breast-cancer statistics for American women, as well as for women from other countries. He will discuss the risk factors for breast cancer, and some of the possible reasons for its high frequency among U.S. women.

In addition to outlining the procedure during the exam, Hames will explain recommendations made by the American Cancer Society and the American College of Radiology (ACR) regarding the taking of a baseline mammogram (see box) and the frequency of having regular mammography exams. He will also stress how mammography screening has had a dramatic impact on improving breast cancer survival rates. Handouts on mammography and breast self-exam will be available afterwards.

Ronald Hames is an ACR-board certified radiologist. He is the Associate Director of the Department of Radiology at Brookhaven Memorial Hospital Medical Center, an assistant professor of clinical medicine at the State University of New York (SUNY) at Stony Brook, and the Chief Radiologist of the Suffolk County Mammography Van, which is accredited by the ACR.

Hames received his medical degree from SUNY Downstate Medical Center, which he followed with an internship at Greenwich Hospital and a residency at Montefiore Hospital. He is a member of the Radiologic Society of North America, American Roentgen Ray Society and the American Medical Association.

To register for this lecture, return the bottom portion of the white Health Promotion flyer that was sent to all employees last week to Health Promotion Specialist Mary Wood, Bldg. 490, before April 30. Space permitting, registrations will be taken at the door. For more information, call Wood at Ext. 5923.

First Mammogram For $40 on May 18

Again this spring, the American Cancer Society is sponsoring their Breast Cancer Detection Awareness Project: For $40, women age 35 and over who have no symptoms and have never had a mammogram before can have a baseline mammogram taken on Saturday, May 18, at one of 27 participating Long Island hospitals. To make an appointment, call 955-WELL between May 6-10, 9 a.m. to 7 p.m.

BNL employees and their dependents covered by the AUI Medical Plan administered by Connecticut General Life Insurance Company are reimbursed for mammography in full under their diagnostic x-ray and laboratory test benefit, or, if expenses applied toward this benefit exceed $250 in a calendar year, 80 percent under their major medical expense benefit once their annual deductible amount is satisfied.

Employees enrolled in health maintenance organizations generally are covered for approved screening tests, so they or their dependents should contact their HMO primary care physicians to make mammography appointments.

For more information, call Health Promotion Specialist Mary Wood, Ext. 5923.

Minimizing Negative Emotion In the Workplace

Roger Stoutenburgh

Physicists and engineers know it as the internal resistance of an elastic body to the deformation that tends to be induced by external forces applied to that body.

Biologists and medical scientists define it as the stimulus that disturbs the normal physiological equilibrium of an organism.

And everyone feels the physical, mental and emotional strain it causes.

It is stress, and the Employee Assistance Program (EAP) of the Occupational Medicine Clinic has been organizing half-day seminars to teach employees to cope better with stress, as requested by their work group. To date, staffers in the Division of Contracts & Procurement, Management Information Systems Division (pictured) and the Technical Information Division have gone through this training.

The stress-management seminars are presented by clinical psychologists Dennis Gallo (center) and Norman Kanter (seated left, back row) of the Center for Effective Living in Commack and Smithtown. Tailored to the group requesting it, the presentation expands upon material discussed by Gallo and Kanter before a Lab-wide audience during a three-session EAP Outreach workshop last October.

Gallo and Kanter define stress as a negative emotion that encompasses other negative feelings such as anger, frustration, anxiety, depression, guilt, envy, jealousy and embarrassment. Since their key to stress management is to minimize negative emotion and maximize the positive, they explore techniques and strategies for accomplishing this by changing ways of thinking about circumstances and events.

For information on how to arrange a stress-management seminar for a group, contact EAP, Ext. 4567.

Inside Info

Anthony J. Salvo has been named Assistant Manager of the Division of Contracts and Procurement (DCP), announced DCP Manager Mary-Faith Healey last month.

Salvo came to BNL in 1976 as a contracts specialist in DCP and was promoted to a contracts administrator in 1978. While in DCP, he has been in charge of the Contracts Section, and handled procurements involving research and development, service contracts, construction, and architecture and engineering services.

BNL Highlights Distributed

BNL's annual report of activities during the past fiscal year, the 1990 *Brookhaven Highlights,* has been distributed to all employees. For additional copies of this report, BNL report number 52274, contact Marylin Banks, Ext. 3484, or Mary DaCosta, Ext. 5068, who are both in the Technical Information Division, Bldg. 477.

Pick a Student

An unusually large number of junior and senior high school students have applied for internships in the Community Summer Science Program (CSSP) run by the Office of Educational Programs (OEP).

CSSP interns work afternoons in the Lab's research programs under the direction of BNL staff members. Appointments run July 1-August 9 with extensions possible. Interns are supported at no cost to the sponsoring departments.

OEP will refer applications to staff members who have already expressed interest in taking CSSP interns. Others wishing to review applications may do so in the solarium of the Medical Department, Bldg. 490, next week, April 29-May 2.

Equipment Demo

Representatives from Custom Computer and Norman Yohay Inc. will demonstrate Apple's new System Software 7.0 and SuperMac Monitors and Video Cards, in the Berkner Hall lobby, on Friday, May 3, from 11 a.m. to 2 p.m.

Atlantic City Trip

The next BERA-sponsored bus trip to Atlantic City will be on Saturday, May 18. The one-day trip to Trump Castle Hotel & Casino on the Marina will have an initial cost of $20, but the Hotel/Casino will give a $10 coin return, $4 towards food and a $5 deferred voucher.

Tickets are on sale now at the BERA Sales Office in Berkner Hall, weekdays from 9 a.m. to 2 p.m. Participants must be at least 21 years of age. The bus will leave the Brookhaven Center promptly at 9 a.m., with a pickup at Ext. 63, LIE, if necessary, and return about 11:45 p.m.

For information, call Louisa Barone, Ext. 3347, Rosalie Piccione, Ext. 3160, or Kay Dellimore, Ext. 2873.

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Lifeguard Training

BERA will offer a Red Cross lifeguard training course at the BNL swimming pool beginning Tuesday, April 30, at 7 p.m.

The course will involve a minimum of five lessons costing $75. Register through the first day of class at the pool. Class size is limited; participants must be at least 16 years old.

For more information, call Susan Juzwak, Ext. 3147 or 3496, after 4 p.m. daily.

Hospitality News

Garden Plots

Now that spring is here, ten-foot-square garden plots will be set aside in the apartment area for on-site residents who wish to grow flowers and vegetables. Gardening equipment will be available. To secure a plot, call Pamela Marston, Ext. 3089, or Andrea Aeppli, Ext. 3090.

Tips on Gardening

"Vegetable Gardening" will be the topic of the Hospitality Committee's next monthly get-together on Tuesday, May 7, at 9:30 a.m., in the Recreation Building in the apartment area. The guest speaker, master gardener Nancy Kuehner, will give a slide presentation and provide tips on how to start and maintain a vegetable garden.

Spouses of Laboratory employees and guests are welcome; baby-sitting will be provided free of charge. Coffee, tea and danish will be served.

Softball

All league fees were due on April 19. If you have not sent in your team's fee, call Andrea Epple, Ext. 4424.

The Employees' and Mixed League tournaments will be held on Saturday, May 11; rain date will be Sunday, May 12. Interested teams should contact Tirre Farmer, Ext. 3288, as soon as possible.

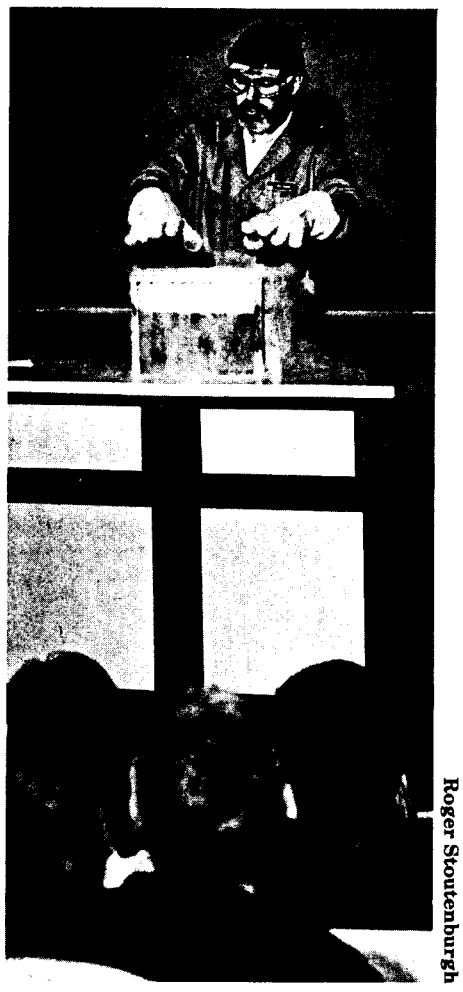
Volunteers are needed to umpire for the tournaments. Call Farmer or Marty Leach, Ext. 3813, to volunteer.

Mountain Club

The Mountain Club's annual camping trip at Watch Hill, Fire Island, will take place this year from May 24-28. Call Nancy Kuehner, 281-4673, for details.

The group is planning an overnight canoe trip down the Delaware the weekend of June 15, but details now are sketchy. Interested parties should call Rich Casella, Ext. 7975.

Teachers on Tour



Roger Stoutenburgh

Fred Sawicki presents the "Whiz-Bang Physics Show" to 120 high school teachers from the Sewanhaka Central School District in Nassau County. The science and mathematics instructors came to BNL on March 28 to participate in a teacher in-service day provided by the Tour Program of the Public Affairs Office. Sawicki is on the staff of both the Tour Program and the Office of Educational Programs (OEP), which created the science show. Earlier, Renée Flack, OEP, spoke to the group, which also toured the Exhibit Center/Science Museum. Additionally, the mathematics teachers were addressed by Leonard Slatest, Computing & Communications Division.

Archery Club

The Archery Club will hold its next meeting on Thursday, May 2, at noon, at the gazebo by the softball fields. In case of rain, the meeting will be held in Physics Seminar Room lounge, Bldg. 510. New members are welcome. For information, call Bill Schoenig, Ext. 2377.

Reports Available

The following reports are available to Laboratory staff and affiliates of DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Staff members should call the designated contact.

NUREG/CR-5567
BNL-NUREG-52234
Contact: S. Flippen, Ext. 2507
PWR Dry Containment Issue Characterization. J.W. Yang

BNL-52245
Contact: C. Rattal, Ext. 7250
Retran/Minet Composite Code Documentation. G.J. Van Tuyle, U.S. Rohatgi, A.L. Aronson, R.J. Kennett, A.N. Mallen, and B.C. Chan

BNL-52249
Contact: F. Donnelly, Ext. 4835
Emissions Characteristics of Modern Oil Heating Equipment. Project Report. R. Krajewski, Y. Celebi, R. Coughlan, T. Butcher and R.J. McDonald

BNL-52256
Contact: J. Lamb, Ext. 3711
Brookhaven National Laboratory Action Plan for the Tiger Team Assessment Report

NUREG/CR-5254
BNL-NUREG-52168
Contact: N. Siemon, Ext. 2397
Bias in Peak Clad Temperature Predictions Due to Uncertainties in Modeling ECC Bypass and Dissolved Non-Condensable Gas Phenomena. Prepared by: U.S. Rohatgi, L.Y. Neymotin, J. Jo and W. Wulff

NUREG/CR-5572
BNL-NUREG-52236
Contact: K. Nasta, Ext. 2267
An Evaluation of the Effects of Local Control Station Design Configurations on Human Performance and Nuclear Power Plant Risk. Prepared by: J. O'Hara, C. Ruger, J. Higgins, W. Luckas and D. Crouch

NUREG/CR-3469
BNL-NUREG-51708
Vol. 5
Contact: M. Beckman, Ext. 3228
Occupational Dose Reduction at Nuclear Power Plants: Annotated Bibliography of Selected Readings in Radiation Protection and ALARA. Prepared by: T.A. Khan, H. Tan, J.W. Baum and B.J. Dionne

NUREG/CR-5507
BNL-NUREG-52222
Contact: A. Fort, Ext. 2114
Results From the Nuclear Plant Aging Research Program: Their Use in Inspection Activities. Prepared by: W. Gunther and J. Taylor

Pool Closing For Three Days

The swimming pool will be closed next week from Wednesday, May 1, through Friday, May 3. The new pool season will begin with the pool's reopening on Saturday, May 4. Schedule and rates will appear in next week's Bulletin.

Bowling

White League
Ken Riker bowled a 205, Jim Goode 204.

Purple League
Fern Simes rolled a 209/191, Nancy Erickson 202/181, Ron Picinich 201, Sharon Smith 194, Evelyn Freese 188.

Volleyball

Captains' Meeting

The last captains' meeting of the 1990-91 volleyball season will take place on Wednesday, May 1, at noon, in Room 300, of Bldg. 555, Chemistry, to elect officers for the 1991-92 season.

The issues of switching League I to Wednesday evening and Open League to Monday evening, and the composition of mixed league teams will also be discussed and voted on.

All team captains or their representatives must attend. For information, contact Kathi Barkigia, Ext. 7661.

Awards Dinner

The Volleyball Awards dinner will be held on Friday, May 10, at the Patchogue Knights of Columbus Hall. Dinner will include hot and cold buffet with dessert and coffee. Music will be provided by Ed Taylor.

Tickets are $15; drinks are inexpensive. Tickets must be sold by May 3, and they are available from Kathi Barkigia, Ext. 7661, and Terry Sullivan, Ext. 2840.

Playoff Standings

Open League*
Magnum defeated Me & the Boys

League I
Cannonballs shot down Dinkers.
Upfagrabs nipped Rude Dogs.

League II
Net Wits outplayed Chunga's Revenge.
Pteropods upended Upton Ups.
Fossils dealt a blow to Aces.
Nuts & Bolts slammed Slammers.

League III*
Nutcrackers shattered High Volley'em.

*Final standings

Cafeteria Menu

Monday, April 29

Soup: Chicken noodle	.75/.95
Entree: Barbequed chicken w/1 veg.	3.10
Entree: Beef fajitas w/1 veg.	3.10
Fitness: Cheese ravioli in marinara sauce w/veg.	3.10
Carvery: Pastrami sandwich	2.85
Grill: Swiss mushroom burger	2.85

Tuesday, April 30

Soup: Old-fashioned lentil	.75/.95
Entree: Pork chop w/dressing & 1 veg.	3.45
Entree: Linguini w/clam sauce	3.10
Fitness: Stir-fried beef & broccoli over rice	3.10
Carvery: Hot roast beef sandwich	2.85
Grill: Chicken cutlet w/cheese & bacon	2.85
SPICE: Apple pie w/free coffee	

Wednesday, May 1

Soup: Cream of chicken	.75/.95
Entree: Quiche Lorraine w/veg.	3.10
Entree: Eggplant Parmesan w/veg.	3.10
Fitness: Oven broiled fish	3.10
Carvery: Hot Black Forest ham sandwich	2.85
Grill: Grilled cheese quartet	2.85

Thursday, May 2

Soup: Cream of broccoli	.75/.95
Entree: Turkey divan w/veg.	3.25
Entree: California pizza (slice)	.75
Fitness: Chef's choice	3.10
Carvery: Hot corned beef sandwich	2.85
Grill: Cheesesteak sub w/lettuce, tomato, onions	2.85

Friday, May 3

Soup: Maryland crab	.75/.95
Entree: Beef & bean burritos supreme w/veg.	3.10
Entree: Baked macaroni & cheese w/veg.	3.10
Fitness: Baked fish w/veg.	3.10
Carvery: Hot turkey sandwich	2.85
Grill: Tuna melt	2.85

Breakfast w/coffee, 7:30 - 10:30 a.m. 2.65

Mon.: 2 eggs, bacon & pancakes
Tue.: Western omelet, French fries, toast
Wed.: Spanish omelet, home fries, toast
Thu.: 2 eggs, bacon, cheese on croissant, fries
Fri.: French toast, 2 eggs, bacon, home fries

New Pickup Point For P.M. Bus to Train

Effective May 6, the pickup point for the afternoon bus to the Mastic-Shirley Long Island Railroad Station will relocate permanently *from* Public Affairs, Bldg. 134, *to* Staff Services, Bldg. 179B. The bus will depart promptly at 4 p.m. from the rear entrance of Staff Services. To reserve a seat, call Ext. 2535.

In the event of inclement weather, passengers may wait in the lobby of Staff Services, near the transportation counter.

Basketball

Second round of playoffs

Bulls 62		Celtics 48	
P. Johnson	25	B. Turner	15
W. Cummings	9	L. James	11
M. Williams	8	N. Schaknowski	7
S. Gilbert	8	J. Wells	7
L. Furenlid	6	G. Mack	4
B. O'Brien	4	R. Schullman	2
F. Ligon	2	A. Jones	2

Three-point shots: P. Johnson (2), B. Turner, J. Wells, M. Williams

Trailblazers 65		Runaways 50	
D. Evans	21	L. Walcott	18
T. Mayo	18	J. Desmond	12
C. Edwards	8	J. Belz	11
S. Springston	8	B. Wells	4
R. Domenech	6	P. Ratzke	3
R. Garappolo	4	J. Garrison	2

Three-point shots: D. Evans, J. Desmond, T. Mayo, L. Walcott (3)

Finals: Bulls vs. Trailblazers

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.

The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.

SCIENTIFIC RECRUITMENT — Candidates may apply directly to the department representative named or through the Office of Scientific Personnel, Ext. 7818.

PHYSICIST - Position open for Ph.D. physicist at the U14A solid-state photoemission beam line at the National Synchrotron Light Source (NSLS). Because U14A is a beam line dedicated to general users, the primary responsibility of the physicist is to coordinate user interactions and experiments, including scheduling and hardware/software upgrades. In addition, the successful candidate will be expected to participate in an NSLS research program of choice. Apply to: W. Thomlinson, NSLS Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

MK/MH. - MATERIEL HANDLERS - (Temporary - o/a 6/1/-8/30/91) Supply and Materiel Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

DD 8675. TECHNICAL POSITION - Requires AAS in physical or environmental science, or equivalent. Responsibilities include preparation of environmental, facility and bioassay samples for radiological analysis, receipt of samples, computations required to finalize results, and preparation and analysis of asbestos samples for bulk and fiber content. Safety & Environmental Protection Division.

LL 5065. ENGINEERING POSITION - Requires a BSME/MSME plus several years of relevant experience in finite element analysis of thermal and structural problems, and a background in machine shop practices. Experience in design and fabrication of magnets is desirable. Candidate should have background in CAD/CAM, especially AUTOCAD. Responsibilities will include working on the design, analysis, fabrication, assembly and installation of various magnetic, mechanical and support systems of the Superconducting X-Ray Lithography Source. In addition, will provide engineering support for various components of the NSLS facility and its experimental beam lines. National Synchrotron Light Source Department.

Motor Vehicles & Supplies

90 CHRYSLER LE BARON - 4-dr., white, a/t, V-6, ac, full power, ext. warr., 20k mi., $12,500. Ext. 7918 or 744-3068.

89 DODGE B250 VAN - 10k mi., 7/70+ power option warranty, all options, alarm, mint cond., $18,500. 924-9427.

89 YAMAHA XT350 - runs well, looks great, w/helmet & gloves, $1,500. Rob, 878-0702.

88 CHEVY MARK II VAN - 21k orig. mi., 305 V-8, a/t, , fuel inj., ac, am/fm, reclining buckets, $12,000. A. Campbell, Ext. 2043 or 878-6904.

88 BUICK REGAL LTD - 39k mi., fully loaded, digital display, spoke wheels, mint cond., $8,500. Bill, Ext. 3531/4539 or 473-3171.

88 YAMAHA F2-600 - low mi., much more, mint cond., w/helmet, $2,500. Ext. 5864 or 874-4460.

87 ISUZU TROOPER 4x4 - ac, luggage rack, running boards, great looking, excel. cond., Jim, 399-4897 after 6 p.m.

87 FORD RANGER XLT PICKUP - 4wd, long-bed, sunroof, sliding rear window, V-6, EFI, blue, v.g. cond., $6,900. Charlie, Ext. 7749 or 325-0968.

87 CAR & TRAILER - Chevy suburban 4x4, a/t, loaded, 55k mi.; 21' Shasta, sleeps 6, $14,000/both or sell separate. Vic, Ext. 5318.

87 SUBARU GL - 3-dr. coupe, h/b, 5-spd., ac, am/fm cass., dual mirrors, silver, 74k mi., $3,300. Karen, Ext. 4262.

86 TROOPER II - LS, 4-cyl., 5-spd., ac, stereo, 77k mi., excel. cond., $5,900. George, Ext. 4769.

86 ISUZU PICKUP - 4wd, 77k mi., 38k mi. on the eng., LS pkg., excel. cond., $52,000. Lloyd, Ext. 3163 or 286-1024 after 6 p.m.

86 PLYMOUTH VOYAGER SE - 2.6L, 7-pass., a/t, ac, cruise, roof rack, running boards, 96k mi., $3,695. 472-0690 after 5 p.m.

85 FORD LTD WAGON - 6-cyl., ac, 68k mi., a/t, am/fm, cruise, excel. cond., $3,000. Barbara, Ext. 2456.

84 HONDA ACCORD - 5-spd., white, 2-dr., h/b, ac, 73k mi., excel. cond., $2,300. Gene, Ext. 3608 or 474-3526.

82 DODGE RAM CAMPER - 89k mi., sleeps 4, heater, refrig., extras, excel. Marielle, 924-6129.

81 ACCORD - 5-spd., 4-dr., new exhaust, 120k mi., runs, good commuter, some rust, $725 neg. Alison, 369-4922.

81 DATSUN 200SX - orig. owner, SL pkg., excel. running cond., new battery, alt., tires, 5-spd., $750. Bob H., Ext. 4446 or 654-3989.

80 HONDA ACCORD - 5-spd., some rust, runs well, best offer. F. Meier, 929-4258 after 5 p.m.

80 CHEVETTE - 4-dr. h/b, a/t, ac, p/s, body good, mech. excel., high mileage, recently inspected, $500. Herman, Ext. 7333.

79 FORD - 10x10, box truck, many new parts, good cond., $1,900. Kevin, 585-2885.

78 CHEVY IMPALA - 48k orig. mi., small V-8, 305 cu. in., excel. cond., asking $3,000. Ext. 4364 or 286-1709.

78 FORD FAIRMONT - 4-dr., 302 V-8, a/t, p/s, p/b, good transportation, 73k mi., needs muffler, $500 neg. 929-4898.

78 TOYOTA CELICA - 5-spd., m/t, ac, am/fm cass., 130k mi., runs well, $600. Nelson, Ext. 3861.

78 SHASTA TRAILER - 25', sleeps 8, self-contained, full bath, awning, excel. cond., $3,500; '78 Ford van, custom, loaded, $2,500. Ext. 5320.

76 JEEP WAGONEER - Quadra Trac, for parts, 4wd works. Joey, Ext. 2950 or 758-2938.

57 CHEVY - 4-dr., m/t, needs much work, driven daily, restoreable, asking $950. Nick, Ext. 5662.

PARTS - Nova, Camaro, 68-69, M-21, 4-spd., tranny 400, small block & more. Walt, Ext. 5016.

TIRES - 5, 33x12.50-R15, B.F. Goodrich, radial, all terrain, alum. rims, 6 lugs, $250. 588-2477.

TIRES - 3, 175/70SR13, $15 ea. Bill, Ext. 4000.

Boats & Marine Supplies

40' FORMULA MODEL 4025C1 - loaded, ac, full headroom, heat, micro gen., excel. cond.; 24' Piper racing sailboat, fully equip. Ralph, 567-4036.

22' CRUISER - 228 mec, swim platform, DF, Loran, TV, fore & aft cabins, stand-up head, ac/dc gen., extras, $7,000. Bob, 796-4322.

22' PRIVATEER - cabin, 150-h.p. Merc., many extras, $9,000. Larry, 758-9144 after 5 p.m.

21' TAHITI - Chevy small block, float-on trailer, turn key, needs some int. work, $2,800. Walt, Ext. 5016.

20' CHRIS CRAFT 205 LTD - 1988, bow rider, 6-cyl., i/o, 8' beam, am/fm radio, shore trailer, many extras. Bill, 732-8793.

17' CHRIS CRAFT - 1967, 60-h.p. Evinrude, Gator tilt trailer, CB radio, v.g. cond., $1,900. Ext. 3859.

17 SPORTCRAFT - 1978, 115-h.p. Merc., trailer, power winch, equipped, runs well, $2,200. Jim, Ext. 2765.

14' HOBIE CATAMARAN - roller reefing jib, trailer, v.g. cond., $1,600 or best offer. Ext. 7657 or 298-9560.

13' BOMBARD - 1987, inflatable, 30-h.p. Mariner, w/1987 trailer, all access., great scuba diving, must sell, asking $2,800. 474-5715.

Furnishings & Appliances

AIR CONDITIONER - Sears Kenmore, window unit, 8,000 Btu, 9.7 EER, never used, $300. Eugene, Ext. 7113.

BABY'S LAMP - mobile, diaper bag, wall hangings, $45/all; ceiling fan w/light, $20; 2 lamps, $25; Fisher Price baby's monitor, $15. Kim, 585-2885.

CHAIR - Queen Ann, blue. Bob, 878-1731.

COUCH - 6½', grey velour-like material, armless, good for den/playroom, very soft & comfortable, asking $65. Jean or Janice, 929-4522.

DINING ROOM - ash table, opens to seat 12, 6 high-back spindle chairs, large china closet, mint cond., $700. 331-1754.

DOUBLE BED - w/headboard; dresser. Ext. 2487 or 928-6930.

HEADBOARD - brass, full size, w/frame, good cond., $125. Ext. 7686 or 878-0897.

LIVING ROOM - 2 chairs, couch, excel. cond., reasonable. Joe Mead, Ext. 2143 or 289-1831.

PORCH FURNITURE - rattan, $75; shower doors, $25; stove/sink/refrigerator, $500. Marie, 589-3020.

SOFA - Colonial, print, 2 red chairs, Fireside, $350; Bennington tables, pine, lamps, good cond. Brehm, 744-8567.

WATER BED - platform, 6 drawers, dark pine, headboard w/mirror & lights, $300. Ext. 7686 or 874-2789.

Tools, House & Garden

ALUMINUM LADDER - 24' extension. 325-0447 after 6 p.m.

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

ANNUALS - large variety, $11/flat; hanging basket, $11. Ken, 744-0722.

BARBEQUE GRILL - w/stand & gas bottle, $50. Ext. 5320.

BATHROOM SINK - yellow, brown cabinet, toilet, $39/all. Bill, Ext. 2378 or 758-3284.

DEEP-WELL PUMP - Sta-rite, 1 h.p., Sta-rite Con-Air bladder type water tank, 2 yrs. old, $200/both. Ext. 2957.

LAWN MOWERS - Rickel, 22" cut, $60; Snapper, 21", $175; more. Dan, Ext. 4987 nights or 698-7322.

IRRIGATION PIPE - 530', 3", 5 end plugs, 2 forty fives, 4 elbows, 3 tees, 1 start fitting, 10 sprinklers, $750. 325-0193.

PRECISION BENCH - Miller auto., fully equip.; swimming pool, 12'x24', oval, deck, filter, winter solar covers, reasonable offers. Charlie, 363-2941.

PRUNER - Dorcy, tree-top, never used, still in box, $20. Eugene, Ext. 7113.

SCREEN HOUSES - 12'x12', $275; 8' round, $175., both like new. Frank, Ext. 3372.

STORM DOOR - new, bronze, 30", crossbuck, w/screen, at cost, $120. Janet, Ext. 4049.

STORM/SCREEN DOOR - white, 32", excel., $50; exterior, 9-light door, 32", $15. 473-6546.

SWIMMING POOL - ag, 24' dia., 4' deep, all attach., excel., best offer. 472-0690 after 5 p.m.

TOPSOIL - fine screened, 3 yard min. delivered; Honda generator, elect. start, brand-new, $1,800. 696-6011.

TUNE-UP CENTER - Snap-On, 3 meters, $250; power brake bleeder, $75; 20-ton air-assisted hydraulic jack, asking $175, must sell. 474-5715.

WELDER - Lincoln, 200A, powered by Continental 4-cyl. eng., asking $1,500. 744-3204 after 6 p.m.

Sports, Hobbies & Pets

CAMPING GEAR - backpack w/ext. frame, $28; full-length sleeping pad, eggshell foam, w/ground cover, $11. Jack, Ext. 4447 or 744-2919 eves.

DRYSUIT - Poseidon, man's large, like new, must sell, moving, orig. $1,500, asking $500. 474-5715.

GOLF CLUBS - 1 iron through SW, 3 metal wood & bag, best offer; tailor-made driver w/graphite shaft. Ernie, Ext. 2677.

GUITAR - steel string, acoustic, case, $50. Marie, 589-3020.

WINDSURFER - Vinta, 340cm, 150-liter, transition board, mast, boom, 4.5, 5.5 & 6.5 raf sails, $600. Ext. 7657 after 298-9560.

Audio, Video & Computer

AM/FM RECEIVER - Panasonic stereo, w/2 speakers, $50. Bill, Ext. 2047 or 472-4684 after 6 p.m.

AUTO RADIOS - 4, Jensen, Panasonic, Audiovox & Bionics, all cass. players work, $25/all. Bill, Ext. 4312 or 281-6498.

COMPUTER - AT Clone, 12 MHz, 3 meg ram, co-processor, 30 meg hard drive, 2 5¼ floppy, EGA card, over $5,000 software, $750 neg. 298-3855.

COLOR TV - Sony, works, $40. Nelson, Ext. 3861.

Miscellaneous

AIRLINE TICKETS - 2, LA to NY, April 30, noon, $232.20/both. Jeannette, 289-0967.

AIRLINE TICKET - from Ft. Meyers, FL, to Islip, May 1, return May 7, $50/ea. Roy, 286-8582.

CONCERT TICKETS - 2, Itzak Perlman, Avery Fisher Hall, June 3, 8 p.m., 3rd tier, $20/ea. Eugene, Ext. 7113.

CHALK BOARD - $20; wicker lamp, $10; Hess truck, $20; giant umbrella, $25; typewriter, $20; infant seat, $20. Kathy, 744-2203.

GIFT BASKETS - for Mother's day, high-tech skin care products, starting at $16.50. Kathy, 286-8582.

GOWNS - prom/bridesmaid, worn once, fuschia, size 5, red, royal blue, mauve, all size 12, $50/ea. Lois, Ext. 4904 or 929-4753 eves.

PROM DRESS - peach, satin, off-shoulder, size 7-8, $35; boy's suit, 20H, $35, both excel. cond. 473-6546.

SILVER FOX COAT - size 10, full length, imported, orig. $7,500, asking $2,500, must sell. Ruth Anne, Ext. 7794 or 929-6235.

SUITCASE - large, $20. Ext. 2534.

Free

CAP - for small pick-up. Dan, Ext. 4798.

CAT - 8-yr.-old neutered male, beautiful face & loving disposition. Ext. 4049 or 744-8087.

CATS & FERRETS - moving, must find homes for 7 cats, all types & colors, all spayed, & 2 ferrets, 1 male & 1 female. Barbara, Ext. 2456.

MAHOGANY DESK CHAIR - needs reconstruction, circa 1920. 744-3919.

VCR - Panasonic #PV1220, needs work; cassette deck, Sharp #RT10, works OK. 821-0865.

'81 FORD ESCORT - w/purchase of Vogue Motorhome, 32', all rebuilt, $22,000. Tallon, Ext. 5454 or 821-5801.

Yard & Garage Sales

MANORVILLE - Halsey Manor Rd., group yard sale, Apr. 26-28, tools, household, cameras, shells, misc., depression glass, furn., rain or shine.

Lost & Found

FOUND - eyeglasses in black case that also holds pens & pencils, outside Light Source. Donna, Ext. 5136.

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 - 4-bdrm. house, 2 baths, large l/r, new kit., d/r, 2-car gar., OHWH, fp, all appl., furn., nonsmoker, no pets, Sept.-Jan., $1,000/mo. Ext. 4332 or 286-2114.

EAST PATCHOGUE - 3-bdrm. house, mint, no pets, couple preferred, $1,000/mo. + util., 1 mo. sec. & refs. Ext. 3291.

HOLBROOK - 1-bdrm. apt., furn./unfurn., kit., bath, l/r-d/r, clo./storage, priv. ent., 20 min. to Lab., nonsmoker, no pets, $500/mo. single or $550/dbl., util incl. Fred, Ext. 7947 or 588-2268.

MASTIC - 2-bdrm. apt., priv. ent., yard, near water, 15 min. to Lab., $650/mo. pays all, avail. May 1. 399-2825.

MASTIC - 2-3 bdrm. apt., eik, d/r, huge l/r, 15 min. to Lab., near water, city water, avail. immed., $700/mo. all. Jim, 281-2849.

MILLER PLACE - 1-bdrm. apt., paneled kit., l/r, full bath, w/w, priv. ent., quiet neighborhood, $560/mo. all. Barbara, Ext. 7117, 928-0093.

SHIRLEY - 2½-rm. apt., priv. driveway & ent., employed person, nonsmoker preferred, 7 mi. from Lab., $450/mo. 281-6263.

SOUND BEACH - 1-bdrm. apt., full bath, kitchen-l/r combo, cable, priv. ent., $600/mo. incl. all; also, 2-bdrm. apt., bath, l/r, eik, near all, $650/mo. + elec. Ext. 2671 or 744-3284 after 4 p.m.

WADING RIVER - large 1-bdrm. apt., fp, cedar sunroom, eik, oak floor, $775/mo. all, May 15 occup. 929-8846.

LAKE GEORGE - lakefront, 2 bdrm., l/r-kit., screened porch, priv. deck, walk to playground & tennis, avail. June 15-July 13, $2,000. 286-3546 or 747-7821.

HOLDEN BEACH, NC - 3 bdrms., 2 baths, a/c, d/w, w/d, TV, extras, ocean view/access, Oct.-May, $425/wk., June-Sept., $525/wk. 399-4897 after 6 p.m.

For Sale

BELLE TERRE - res. one-acre bldg. lot, English Tudor sec., 24-hr. police, beach, children's program, golf, tennis, $245,000, terms. 928-1020.

BELLPORT VILLAGE - secluded, charming home, excel. location, steps to golf, tennis; ⅔ acre, lots of French doors, decks, outdoor hot tub, $260,000. Susan, Ext. 2888.

CENTEREACH - 3-bdrm. Cape, fully fenced, recessed lighting, Andersens, w/w, eik, bsmt., 1.5 car gar., low taxes, walk to all, Middle Country Schools, ask. $119,500. Rich, 588-9452.

CENTER MORICHES - 4-bdrm. Colonial, l/r, d/r, eik, fp, bsmt., laundry rm., gar., 10 mi. to Lab., near shops, schools, 1 mi. to Bay & public dock, $175,000. Marilyn, Ext. 2259.

CORAM - Strathmore East, 4-bdrm. ranch, 2 baths, cathedral l/r, 2-car gar., gas heat, fenced corner lot, $120,000. Ext. 3791 or 928-7154.

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

HAMPTON BAYS - 3 bdrm., 2 baths, ½ acre, full bsmt., 2-car gar., 30 min. from BNL, minutes from ocean & bays, wooded, conv. location, cac, OHWH, pool. Bill, 728-1304.

N. SHIRLEY - 3-bdrm. ranch, full bsmt., ⅓ + acre, across from Southaven Park, 5 min. to Lab, new eik, new boiler & HW heater, all new windows, deck, extras, $123,900. Jim, Ext. 2957 or 281-4541.

SHOREHAM - 3-bdrm. brick Cape, eik, den, playroom, gar., full bsmt., 1½ baths, conven. loc., SWR SD, $140,000. Carol, Ext. 3315 or 744-7493; or Janet, Ext. 2345 or 929-3910.

SOUND BEACH - 3-bdrm. ranch, 2 baths, l/r, d/r, eik, gar., fin. bsmt., pool, fenced yard, $140,000. Ext. 7918 or 744-3068.

YAPHANK - Colonial Woods, 2-bdrm. condo, 1½ baths, fin. bsmt., wet bar, pool, tennis, rec., facil., $106,000. Monica, 924-3846.

Wanted

HOUSE TO SIT - free, reliable, exp., any period after May 10. J. Allentuck, Ext. 2412.

HOUSEMATE - l/r, d/r, eik, furn./unfurn., bdrm., kit., . deck, 10 min. to Lab, female, nonsmoker, no pets, $300/mo. ½ util. Marilyn, Ext. 2259.

LAWN MOWERS - old, complete, any cond. Dan, 698-7322 days or Ext. 4987 eves.

REFRIGERATOR - w/freezer. Bill, Ext. 4175.

VACUUM TUBES - all kinds, and vacuum tube audio equipment by Macintosh, Marantz, REL, Acro, Fisher, Eico, Leak & Radford. Jim, Ext. 4584.

In Appreciation

I want to thank my friends at BNL who offered their sympathy following the death of my wife Pete. A memorial service is scheduled for Saturday, May 11, at 3 p.m., at the Old South Haven Church, South Country Road, Brookhaven Hamlet. Again, thank you for your support and friendship. — R.C. Anderson

A note of thanks to those in the Reactor Division, Bldg. 703, who donated $50 from soda-can deposits to the April BNL Food Drive.

— Carole Kerr

No words can express how thankful we feel about the outpouring of love, kindness and support shown to us following the loss of our dear son, Kerry P. Hein.

We have a long road ahead, but the memory of your love and caring will always be a part of us. We feel blessed to have been touched by so many beautiful friends — those of you we know and some of you that we never met. Please continue to keep us in your prayers, and remember that, as we mourned, you comforted and consoled us.

In Kerry's name, let us love one another. I've asked our dear Lord to shower all of you with some special blessings.

—Patricia & Peter Hein and family

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