

Westinghouse Winner Researched Top Project at NSLS

The research for this year's first-place Westinghouse Science Talent Search project was performed at BNL's National Synchrotron Light Source (NSLS) — by Kurt Thorn, a Shoreham-Wading River High School senior who is an NSLS guest.

Thorn won the prestigious national competition and a \$40,000 scholarship on Monday, March 9.

The son of BNL Physicist Craig Thorn of the Physics Department, Kurt Thorn has worked with long-time NSLS user Mark Rivers, a geochemist from the University of Chicago, since January 1990. At the NSLS x-ray ring beam line X26A, Thorn did the research for his Westinghouse project on "Elemental Distributions in Marine Bivalves as Measured by Synchrotron X-Ray Fluorescence." Another of Thorn's mentors was Bob Cerrato, an assistant professor at the State University of New York at Stony Brook.

The first milestone in the Westinghouse competition came in January, when 300 students across the country were selected to the Honors Group of semifinalists. In addition to Thorn, this group included two children of BNL employees, both seniors at Ward Melville High School: Matthew Mausner, son of Leonard Mausner, Medical Department, did a project on "Cheating in High School: Definition, Extent and Causes," and Virginia Youngblood, daughter of Robert Youngblood, Department of Nuclear Energy, researched "Using



At NSLS beam line X26A, Westinghouse winner Kurt Thorn (seated) shows some of his research to (from left) his mentor Mark Rivers and his parents Craig and Toni Thorn.

a Diode Laser to Test Antireflection Coatings on Optics."

In February, Thorn was named one of 40 Westinghouse finalists. As such, he traveled to Washington, D.C. on March 5 to compete for \$205,000 in scholarships by presenting his latest findings. When the winners were

announced last Monday, Thorn became the third Long Island student to win the 51-year-old competition, and the first since 1947.

"I was very surprised — really shocked. It's been a very exciting day," said Thorn at an interview at beam line X26A on Tuesday after-

noon — the last of many press encounters in a day that began with Thorn being whisked to New York City in a Westinghouse private jet for an appearance on the *Today* show.

Thorn emphasized, however, that he did not enter the Westinghouse competition with an eye on winning. "I really did it because I liked the science," he said. "And the Light Source is one of the few facilities where this science could have been done. The Light Source — Mark in particular and everyone in general — has been very supportive and good to me."

The focal point of beam line X26A is the trace element microprobe, which can detect minute amounts of elements in tiny samples. Thorn used this instrument to examine clam shells, to see what their elemental content could reveal about pollution in local waters.

As Thorn explained, "Clams lay down a new line of shell each day, and this beam line is perfect for doing this kind of small-scale analysis." Thorn's efforts have provided the scientific community with a baseline for measuring pollution in marine bivalves.

"I am very proud of what Kurt has accomplished," said Rivers. "He has been a great person to work with. In addition to the project, he has also been doing software development on the beam line and a lot of mechanical development on our new monochrom-

(continued on page 2)

BNL Lecture: From Reactor Cooling to Global Warming

Twenty years ago, scientists sought to understand the flow of water down fuel elements in nuclear reactors, to answer critical questions about cooling reactors.

Today, scientists seek to understand the rate at which the ocean takes up carbon dioxide, for answers to critical questions about global warming, which may be caused by increased atmospheric levels of gases such as carbon dioxide.

One scientist who sees both problems as related links in the same chain is Romney Duffey, Chairman of the Department of Nuclear Energy (DNE). A physicist, Duffey will discuss his continuing research in the 276th Brookhaven Lecture: "From Thin Films to Deep Oceans — Reactor Cooling to Global Warming."

Duffey's lecture, which will begin at 4 p.m., on Wednesday, March 18, in Berkner Hall, will be introduced by Sy Baron, Associate Director for Applied Programs.



Romney Duffey

The link between reactor cooling and global warming, Duffey will explain, is momentum transfer processes going on at surfaces. In cal-

culations and computer models, Duffey and his collaborator have developed relationships between heat mass and momentum transfer at the liquid-gas interface where either a thin film of water flows on reactor fuel elements, or blowing winds contain carbon dioxide that can be absorbed in the deep ocean.

As Duffey will relate, the intellectual leap from reactor cooling to global warming has actually been a long research journey, spanning almost 20 years and taking him into and out of multiple blind alleys. In his lecture, Duffey will share this continuing adventure and the theories that have evolved for predicting the rates of these related phenomena.

After obtaining a B.Sc. in physics in 1963 and Ph.D. in physics and geophysics in 1967, both from Exeter University in England, Romney Duffey joined the Berkeley Nuclear Laboratories of Central Electricity Generating Board, Great Britain's

national utility. Ten years later, he came to the U.S., to join the Electric Power Research Institute (EPRI).

Duffey left EPRI in 1987, to spend three years at the U.S. Department of Energy's Idaho National Engineering Laboratory (INEL), where he was employed by EG&G, the largest of seven primary contractors operating INEL. In 1990, he went to the management consultant firm Sciencetech, and, in September 1991, he came to Brookhaven as DNE Chairman.

Duffey is the author of numerous publications, and his memberships include the American Physical Society, American Society of Mechanical Engineers, American Nuclear Society, and New York Academy of Sciences.

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 Carmen Falkenbach, Ext. 2663.

Brookhaven Exhibits Enthusiasm for National Technology Initiative

In the belief that greater cooperation between U.S. companies and federal laboratories will help improve U.S. competitiveness in the global market, four federal agencies — the Departments of Commerce, Energy, and Transportation, and the National Aeronautics and Space Administration — are hosting a series of "town meetings" to be held across the country. Known as the National Technology Initiative (NTI), the program kicked off on February 11-12, at the Massachusetts Institute of Technology.

Heads of the four agencies, including DOE Secretary James Watkins, were joined by Massachusetts Governor William Weld in launching the NTI. Some 500 executives from New England companies participated in the town meeting, which highlighted the federal government's investment in advanced technologies and recent changes in federal policies that are designed to foster private-sector cooperation in commercializing technology.

To introduce the executives to BNL's technology transfer opportunities in biotechnology and environmental sciences, the Lab presented an exhibit. Representing Brookhaven and responding to numerous inquiries were:



Michael Furey (left) and Dorry Tooker (second from right), both of the Office of Technology Transfer; and researchers (from left) Sanford Lacks, Biology Department; Leonard Newman, Department of Applied Science; and David Schlyer, Chemistry Department.

Michelangelo Stumped at BNL

Only one confirmed case of infection from the Michelangelo computer virus was reported by the Computing and Communications Division (CCD) following Friday, March 6, the artist's birthday and the day the virus was supposed to become active on any computer in which it resided. Since the lone BNL victim was a stand-alone personal computer, the virus had to have been introduced into the machine by a floppy disk.

One reason the Laboratory fared so well is because each department's computer security person was given a virus check-and-destroy program to pass around. Employees were also advised not to power up their machines that day.

Still, if you're just getting back to your computer and find a problem, call your computer security representative; the Lab's computer security manager, Peter Pohlig, Ext. 7955; or Bob Barone at CCD's Computer Help Desk, Ext. 4159. More important, check your machine using the Data Physician software available through your computer security representative.

In Memoriam

Mary C. Rustad, who was an editor in the Technical Information Division when she retired in July 1986, died on December 21 at age 72. She had been associated with BNL for 34 years, having started on November 17, 1952. Most recently, she resided in Gray, Maine. She is survived by her son Eric, her daughter Lindsay and her grandchildren.

Frank J. Pachinger, a tool and instrument maker who retired in February 1983 after 13 years in the Central Shops Division, died on February 16. He joined the Lab on June 16, 1969. Pachinger had lived in Port Jefferson Station, and he was 75 years old. He is survived by his wife Josephine, daughters Joyce Tolnay and Gloria Ford, son Frank, and nine grandchildren.

Frank D. Craven, a plumber who retired from what was then the Plant Engineering & Planning Division in 1970, died on February 18. Craven had started at BNL on February 9, 1959. He was 86 years old and resided in Brookhaven Hamlet. Craven's survivors include his wife Margaret; daughters Margaret Wnenta, Elizabeth Van de Zalm, Patricia Kalinowski and Frances Darrow; five grandchildren; four great-grandchildren; and brother James Craven.

Meet the Candidates for the BERA Board

During the week of March 23-27, employees may cast their votes in the 1992 BERA Board election. Two of the four candidates whose pictures accompany this story will be elected to serve on the Executive Board of the Brookhaven Employees Recreation Association (BERA) for four years, starting May 1.

Eligible voters include employees of BNL, AUI and DOE, as well as all other permanent on-site employers. Absentee votes for those who will not be on site during voting week

will be accepted in person at the Recreation Office, Bldg. 185, prior to Monday, March 23, when elections begin.

Ballots may be cast as follows:

Date	Time	Place
Mon., Mar. 23	11:30 a.m.-1:30 p.m.	Berkner Hall
Tue., Mar. 24	11:30 a.m.-1:30 p.m.	Berkner Hall
Wed., Mar. 25	11:30 a.m.-1:30 p.m.	Berkner Hall
Thu., Mar. 26	10 a.m.-2 p.m.	Credit Union
Fri., Mar. 27	10 a.m.-2 p.m.	Credit Union

April Donegain

April Donegain, an administrative assistant in the Fiscal Division, has participated in both BERA's athletic and cultural offerings during her 18 years at BNL. Donegain has played volleyball for two years, mixed softball for one, and bowled for two. She was a member of the 1987 BERA Nominating Committee.

In 1981, Donegain became a founding member of the Afro-American Culture Club (AACC), and she has served the club as secretary, vice president and president. Now the AACC activity chair, Donegain recently organized the AACC Gospel Choir.

As Donegain points out, "If elected, I would bring my experience with BERA's sports and cultural clubs to the Board for the benefit of all BERA activities. For instance, the AACC is one of the few BERA activities that returns money to the organization for the support of other clubs. I'd like to help other clubs hold events so they too can expand and become more self-supporting. I think my background proves that I have the initiative and follow-through to undertake new projects, as well as the experience to serve on the Board."



Ray Lo Presti

Assigned to the Reactor Division, Raymond Lo Presti is a Tool & Instrument Maker in the Central Shops Division, which he joined in January 1978.

As a certified range instructor, Lo Presti is a member of the Rifle and Pistol Club, where he is happy to give occasional help to less experienced members.

Lo Presti is also experienced in Labwide BERA activities. In 1986, shortly after hurricane Gloria, a group purchase of about 2,000 generators was made available to BNLees who wanted to be ready for any future power failure. Taking orders, collecting payments and distributing the generators was a massive task run largely by BERA volunteers — among them, Lo Presti. A bonus was that the short-term interest on the money collected paid all expenses, and provided one free power plug per generator and a \$5,000 surplus used by BERA to benefit all employees.

"If we could do this again, with a much less expensive item, it might help BERA funding," said Lo Presti. "It was fun, and it really pulled people together, as BERA is meant to do."



— Photos by Roger Stoutenburgh

Skelly Frei

Haskell (Skelly) Frei is a Reactor Shift Supervisor in the Reactor Division. During his 35 years at BNL, Frei has played on softball, basketball, bowling, golf, football and volleyball teams. He has served on the BERA Special Events Committee and on the BERA board in 1987, managed a softball team, and been vice president of the Bowling League and the Golf League.

In addition to singing a once-heard, never-forgotten version of "The Twelve Days of Christmas" as a performer in a BERA dinner-dance variety theater event, Frei has played on a winning BNL doubles entry in an Industrial League Tennis Tournament and was one of four BNLees who represented the Lab in an Industrial League East Coast Bridge Championship in Washington, DC.

"By joining so many BERA clubs, I've met a lot of people," said Frei. "At any BERA activity, Bingo! There's a 50-50 chance we'll know each other! It's given me a reasonable feel for what most people want, and now, while I have the time and energy, I'd like to put their ideas into practice at BERA Board and budget meetings."



Denise Miesell

In 12 years at BNL, Executive Secretary Denise Miesell of the Plant Engineering Division has participated in many BERA activities. She now belongs to mixed and open volleyball teams, bowls in the mixed league, and was a member of the 1990-91 mixed league Softball champs, the Brewers. She also has served on the BERA Nominating Committee.

As Softball League secretary for the past two years, Miesell has demonstrated not only her playing skills, but also her organizational and people skills. Among other duties, she is in charge of organizing the captains' meetings, arranging for umpires, scheduling make-up games, calculating team standings, and setting up the awards dinner.

"With over 500 members, more employees play in the Softball League than participate in any other BERA activity," explains Miesell. "So I feel that my Softball experience will benefit the Board. Basically, I am enthusiastic about BERA activities, dedicated to helping them operate smoothly, open to new ideas and willing to carry them out."



Healthline Lecture

What to Expect From a Physical

"Expectations of a Physical Examination" is the next topic to be addressed in the Healthline lecture series. Sponsored by the Health Promotion Program of the Occupational Medicine Clinic, the talk will be presented by physician John Folan on Tuesday, March 17, from noon to 1 p.m. in Berkner Hall.

Based on the information provided through blood tests, physical palpation, x-rays and other routine screening tests, physicians can prescribe lifestyle changes to help otherwise healthy patients avoid disease. In addition to reviewing the different tests that rightfully should be per-



John Folan

formed during a physical exam, Folan will review patients' responsibilities to maintain and improve their health by taking their physicians' preventive medicine.

He will also answer questions on heart-disease and cancer risks, cholesterol and other blood test results, and nutrition and exercise.

A partner in Northside Medical Associates of Smithtown, John Folan, M.D., is board-certified in internal medicine and specializes in preventive, adolescent and sports medicine.

To register for this lecture, complete the bottom portion of the Healthline flyer recently sent to all employees and return it by Monday, March 16, to Health Promotion Specialist Mary Wood, Bldg. 490. For more information about the Health Promotion program and its Healthline lecture series, call Ext. 5923.

Westinghouse (cont'd)

ator. Now he's helping us commission a high-resolution spectrometer. He's like having a postdoc."

Before becoming a postdoc, Thorn must be an undergraduate, a career he plans to begin next year at either Harvard or Princeton, majoring in molecular biology.

Kurt Thorn's parents, Toni Thorn, a fourth-grade teacher in Shoreham-Wading River, and Craig Thorn, a physicist with LEGS, the Laser Electron Gamma Source at NSLS beam line X5, are understandably proud of their son's many accomplishments.

In addition to this latest honor, Kurt Thorn took the top prize of \$10,000 last year in the Duracell invention competition. He was also a member of the BNL-sponsored team that placed second in last year's National Science Bowl, run by the U.S. Department of Energy, and he is aiming for the top in this year's contest in April.

As proud as he is of his son's latest scientific achievement, Craig Thorn

said, "I had nothing to do with it. The credit for starting Kurt off really goes to Bob Cerrato and Mark Rivers. There's something magical about their interaction and the idea that Brookhaven can really play a role in educating even young students."

At the end of their days at the NSLS, Craig and Kurt Thorn carpool home, and on those rides, Craig Thorn said, "It was fascinating to see him develop. It is like when a child starts to talk and you realize that you can communicate with him. It started all over again — we were able to communicate in science on the same level."

— Anita Cohen

Arrivals & Departures

Arrivals

Joseph P. D'Aquisto..... Plant Eng.
John W. Powers..... AGS
Matthew M. Recchia..... Accel Dev.

Departures

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

Irvin A. Meyer..... Chemistry
Muhammad R. Saeed..... Chemistry

C Programming Course

The Computing & Communications Division (CCD) has scheduled a course in C programming, for people with prior programming knowledge.

CCD's Morris Strongson will be the lecturer for the course, which will be given in eight 1½-hour sessions, from 10 to 11:30 a.m., on Tuesdays and Thursdays, from March 17 through April 9, in the CCD seminar room, Bldg. 515.

The C programming language is a general-purpose language that features economy of expression, modern flow control, data structures and a rich set of operators. Its lack of restrictions and its generality make C more convenient and effective for many tasks than are more powerful languages.

Supervisory approval is required for this course. To register, send E-mail to wittlock@bnl.gov or call Ext. 4112.

ANS Meeting

William Thomlinson, Associate Chairman of BNL's National Synchrotron Light Source (NSLS), will speak on "Coronary Angiography at the NSLS," at the next meeting of the Long Island Section of the American Nuclear Society (ANS), on Wednesday, March 18, at the Three Village Inn in Stony Brook, at 8 p.m.

To make reservations, call Kathy Ratto, Ext. 7250.

Microcomputer Club

The next meeting of the Microcomputer Club will be on Thursday, March 19, at noon, in the conference room of Bldg. 515. Peter Pohlig of the Safeguards & Security Division will discuss the problem of computer viruses, outline the help available from DOE, and demonstrate software for fending off computer viruses.

All are welcome to attend; bring your lunch. For further details, call Irv Montanez, Ext. 2540.

Weight Watchers

By popular demand, the next on-site series of Weight Watchers classes will last 12 weeks instead of eight.

Registration and the first class of the new series will take place on Wednesday, March 18, from noon to 1 p.m. in the dining room of the Brookhaven Center. Since the Lab is paying \$10 of the \$100 registration fee for each participant, the cost per person is \$90, payable at registration.

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

Great Adventure Tickets on Sale

Tickets for the 1992 season at the Six Flags Great Adventure amusement park in New Jersey are now on sale at the BERA Sales Office. Opening day this year will be Saturday, March 28.

BERA sells tickets at a \$5 discount — \$20 each for regular park tickets, and \$22 each for the park-safari combo. If you have any questions, call Carolann Zebrowski, Ext. 3347.

'Perfect' Group Earns \$200 Bonds



In 1991, each of 15 full-time weekly employees on the Technical and Clerical schedules did not use even one sick day — resulting in perfect attendance. For being "perfect," each of the 15 has received a \$200 U.S. Savings Bond — courtesy of BNL's new Recognition Awards Program.

These employees join winners of Distinguished Research & Development Awards, Brookhaven Awards and Spotlight Awards as Recognition Award recipients since the program started last May.

Congratulations to perfect attendees: (front, from left) William Jew, National Synchrotron Light Source (NSLS) Department; Alfonso Borrelli, NSLS; Robin Gianopoulos, Reactor Division; Leonard Pharr, NSLS; (back, from left) Julie Teuber, Reactor; John Schill, Instrumentation Division; James Calcanes, Computing & Communications Division; Paula Jean Pozzoli, Staff Services Division; and Maryann Kershaw, Medical Department.

Present at work if scheduled, but not available for the photo: Celeste Antapli, Technical Information Division; Marian Clare Geib, Fiscal Division; Eric Klug, Safety & Environmental Protection Division; William McKeon, Accelerator Development Department; Peter Ratzke, NSLS; and Edward Zeitler, NSLS.

Basketball

Runaways	97	Deep Six	61
J. Desmond	18	S. Anderson	20
W. Cummings	16	R. Hart	18
P. Ratzke	13	S. Olsewski	14
M. Fulkerson	12	P. Brown	6
J. Belz	11	D. Eleazer	3
J. Gaeta	10		
M. McAlary	8		
G. Shepherd	5		
B. Wells	4		

3-point shots: S. Anderson (3), J. Desmond, D. Eleazer, R. Hart (2), P. Ratzke.

Trailblazers	81	Scram	50
T. Buck	27	T. Powers	16
D. Branch	13	J. Skonieczny	12
R. Garappolo	9	S. Coleman	10
T. Mayo	9	E. Gregory	8
D. Martin	8	K. Laube	2
R. Domenech	7	J. Rank	2
S. Cramer	4		
S. Springston	2		
A. Ratti	2		

3-point shots: D. Branch, R. Domenech, R. Garappolo (3), E. Gregory, T. Mayo, T. Powers (4)

Bowling

Red/Green League

J. DiNicola has a 266, M. Palumbo 248/202/644 scratch series, K. Asselta 246/618 scratch, E. Sperry IV 226/204, H. Dawson 226, P. Ouvrard 223, R. Raynis 217, R. Wiseman 215/601 scratch, A. Warkentien 212, G. Meinken 210/200, R. Sick 208, R. Larsen 205, R. Mulderig 205, R. Eggert 204, R. Jansson 204, N. Thomas 203, H. Arnesen 200, K. Koebel 200.

White League

Joe Ferrante had a 232/200, Ed Sperry IV 228/210/620 scratch, John McCarthy 223, Denise Monteleone 219, Dick Adams 214/201, Kay Conkling 204, Ken Riker 202, Ken Batchelor 200, Marilyn Picinich 184, Lorraine Petro converted the 6/7/10, Joe Ferrante the 4/10. The Terminators had a 1013 gross game and a 2634 gross series.

Purple League

Jim Goode had a 235/201/606 scratch, Jeanne Penoyar 220, Sam Logan 205, Pete Stelmaschuk 202, Andy Warkentien 200, Maryellen Hubner 191, Pat Manzella 190, Diane Lombardi 185, Nancy Erickson 184, Ray Raynis converted the 6/7/10.

L.I. Industrial Tournament

February 29: A. Warkentien bowled a 226/215, K. Asselta 212.
March 7: R. Larsen had a 211/208/201.

Indo-American Club Celebrates Holi

The newly formed BERA Indo-American Association will celebrate Holi, the festival of colors, as its first gala event on Saturday, March 21, in Berkner Hall, from 5 to 9 p.m.

The evening's program will include Indian music, dances and other cultural activities. Authentic Indian food will be served after the cultural program. All are invited. Admission is \$10 for adults and \$5 for children. RSVP by March 17, to Jan Naidu, Ext. 4263, Achyut Tope, Ext. 5672, or Anand Saxena, Ext. 4844.

The Indo-American Association was formed to provide a forum for promoting the culture of the Indian subcontinent through celebration of festivals, music, dance and sports.

Holi, the harbinger of spring and a harvest festival, is celebrated with a lot of gaiety, accompanied by the cooking of delicacies in all the homes. It is a carnival during which people visit friends, neighbors and relatives.

Coming Up

Renée Diehl, associate professor of physics at Pennsylvania State University, will present the next joint Brookhaven Women in Science-Solid State Physics Seminar. Her discussion of "Some Surprises in Alkali Metal Adsorption" will be held on Thursday, March 26, at 1:30 p.m., in the small seminar room of Physics, Bldg. 510.

C. Thomas Caskey, Henry and Emma Meyer Professor in Molecular Genetics at the Baylor College of Medicine, will deliver an AUI Distinguished Lecture on Thursday, March 26. His talk on "Simple DNA Repeats: Cause of Disease and a Criminal Investigative Tool," will begin at 4:30 p.m., in Berkner Hall.

Cafeteria Menu

Luncheons

Monday, March 16

Soup: Navy bean	.80/1.10
Entree: Spaghetti w/meatballs	3.20
Entree: Quiche w/1 veg.	3.20
Fitness: Chef's choice	3.20
Carvery: Hot pastrami sandwich	2.95
Grill: Grilled turkey, roast beef & provolone w/Russian dressing	2.95

Tuesday, March 17 - St. Patrick's Day*

Soup: Cream of spinach	.80/1.10
Entree: Corned beef & cabbage	3.20
Entree: Irish lamb stew	3.45
Entree: Baked sole of Ireland	3.65
Carvery: Brisket of beef	2.95
*Entrees include a slice of Irish soda bread	

Wednesday, March 18

Soup: Turkey noodle	.80/1.10
Entree: Chicken & biscuit w/1 veg.	3.20
Entree: Sausage jambalaya & 1 veg.	3.20
Fitness: Chef's choice	3.20
Carvery: Baked Virginia ham sandwich	2.95
Grill: Tuna melt w/French fries	2.95
Grill Special: Chicken pita w/fries	2.95

Thursday, March 19

Soup: Hot & sour soup	.80/1.10
Entree: Beef fajitas over rice	3.45
Entree: Pasta Alfredo	3.20
Fitness: Baked fish w/mushroom-wine sauce	3.65
Carvery: Hot corned beef sandwich	2.95
Grill: Marinated boneless chicken breast & bacon on bun	2.95

Friday, March 20

Soup: New England clam chowder	.80/1.10
Entree: Fried fish w/1 veg.	3.45
Entree: Baked chicken teriyaki w/1 veg.	3.20
Entree: Chef's choice	3.20
Carvery: Hot turkey sandwich	2.95
Grill: Bronco bacon dogs w/cheese	2.95

Please note: The Live D.J. Night at the Brookhaven Center on Friday, March 27, will begin at 5:30 p.m.

Note to Employees:

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

BROOKHAVEN BULLETIN

Published weekly by the Public Affairs Office for the employees of BROOKHAVEN NATIONAL LABORATORY

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BNL FOOD DRIVE!

March Pickup: 16th - 23rd

Personal checks and receipts from King Kullen and Finast, which give discounts, are also very welcome. Send them to Carole Kerr, Bldg. 460.

BNL-BERA to Walk For Healthy Babies

Celebrate the 22nd March of Dimes WalkAmerica for Healthier Babies by joining the BNL-BERA team on Sunday, April 26. Funds raised by WalkAmerica will help support efforts to reduce infant mortality and the incidence of low birth weight. Every walker makes a difference!

To join the BNL-BERA team, pick up a WalkAmerica sponsor sheet at the BERA Sales Office in Berkner Hall, weekdays from 9 a.m. to 2 p.m., or at the Recreation Office in Personnel, Bldg. 185. If you have questions, call Carolann Zebrowski, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Trip to U.S. Open

Tickets are still available for the bus trip that the BERA Tennis Committee is sponsoring to the U.S. Open Tennis Championships at the National Tennis Center in Flushing, Queens, on Tuesday, September 8.

The trip cost of \$40 per person includes a \$27 ticket for the day session and the round-trip bus fare. Paid reservations are being accepted in the BERA Sales Office.

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 experimental nuclear or high energy physics, to conduct research in experimental relativistic heavy-ion physics at the AGS and plan for experiments at RHIC. Contact: Peter Bond, Physics Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

NS 0710. RESIDENCE CUSTODIANS (temporary 5/4/92-10/2/92) - Staff Services Division.

DD 8127. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent and a thorough knowledge of Laboratory policies and procedures. Demonstrated organizational skills, excellent communication skills and WordPerfect experience also required. Familiarity with spreadsheets and graphics software desired. Will provide varied secretarial support to Office of Environmental Restoration, including preparing correspondence and reports, and arranging travel, meetings and conferences. Office of Environmental Restoration.

DD 8383. SECRETARIAL POSITION (term appointment) - Requires AAS in secretarial science or equivalent experience, excellent communication skills and a working knowledge of Laboratory policies and procedures. Duties will include arranging travel, preparing technical reports, correspondence and BNL forms, and maintaining office files. IBM PC experience required; WordPerfect 5.1 desired. Department of Nuclear Energy.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LF 5085. TECHNICAL POSITION (term appointment) - Requires a BSMT or AAS and 2 years' equivalent experience in vacuum/mechanical technology to support x-ray and VUV beam line PRT operations at NSLS. Must have knowledge of UHV procedures and have been extensively involved in leak checking, clean assembly and vacuum equipment maintenance. Ability to assemble precision mechanical components is highly desirable. (reposting) National Synchrotron Light Source Department.

NS 8126. ENGINEERING POSITION - Requires BS (MS preferred) in geology, hydrogeology, or related field and 3 years' experience in RCRA/CERCLA groundwater field investigations. Familiarity with groundwater data acquisition and computerized data management is essential. Groundwater modeling experience or strong computer skills highly desirable. Office of Environmental Restoration.

NS 3333. OCEANOGRAPHY ASSOCIATE - Requires bachelor's degree in science with a major in biochemistry, molecular biology or cell biology and 1-2 years' laboratory experience to work on the molecular biology and biochemistry of unicellular algae. Duties include assisting in experimental work on algae and applying standard molecular biological techniques such as DNA library screening, DNA cloning and sequencing, and protein isolation and purification. Department of Applied Science.

Motor Vehicles & Supplies

89 SUBARU JUSTY GL - a/t, ac, am/fm cass., 38k mi., excel. cond., \$3,850. 475-3507.

88 CHEVY C30 - flatbed w/racks, toolboxes, hitch, 350, 4-spd., dual wheels, excel. cond., \$9,500 neg. Fred, 878-4254.

88 VIKING 170 POP-UP CAMPER - sleeps 6, stove, sink, potty, icebox, excel. cond., \$1,500. Tony, Ext. 3194.

88 FORD CLUBWAGON XL - 35k mi., new tires, battery, recent tune-up, runs well, v.g. cond., \$7,500. Victor, Ext. 2395.

88 BUICK SKYHAWK - s/w, 4-dr., a/t, ac, stereo, cruise, 35k mi., \$4,800. 273-3853.

87 NISSAN 4x2 PICKUP - 35k mi., a/t, excel. cond., good on gas, \$4,500 neg. Dan, 360-3803.

86 CHEVY SPRINT - 3-cyl., 50+ mpg, front-end damage, \$475. Joe, Ext. 2898 or Pager 0925.

86 TOYOTA COROLLA SR-5 - h/b, am/fm stereo cass., ac, excel. cond. in & out, \$3,200. Marie, 661-8110.

86 TOYOTA CELICA GT - 65k mi., all power, fully loaded, red/gray int., mech. well maint., clean in & out, new tires, elec. moon roof. 736-2230.

86 PONTIAC FIERO - black, a/t, ac, p/w, sunroof, mag wheels, 76k mi., one owner, good cond., \$2,950. Bill, Ext. 3531 or 473-3171.

86 DODGE D-50 PICKUP - w/cap, seat in rear w/belts, new tires, exhaust, etc., 60k mi., excel. cond., \$2,500. Jim, Ext. 4696.

85 HONDA ACCORD LX - a/t, 4-spd., w/o.d., ac, p/w, p/l, cruise, stereo cass., 83k mi., clean, \$3,950. Ext. 2679 or 472-6922.

84 DODGE ARIES - 4-dr. sedan, a/t, p/s, ac, am/fm, new brakes, 76k mi., \$900. Hiromi, Ext. 2256 or 3249.

84 FORD ESCORT - s/w, new \$360 clutch, battery & tires, 79k mi., runs well, little rust, \$750 or best offer. Ext. 7897 or 331-0807.

84 MERCURY COUGAR - loaded, needs fuel pump, some work, \$2,500, make an offer. Ken, Ext. 5927.

84 OLDS DELTA 88 - am/fm cass., ac, 97k mi., excel. cond., \$1,875. Toner, Ext. 2769.

83 HONDA PRELUDE - sunroof, new tires & exhaust, needs clutch, minor body work, \$2,000. 744-7265.

82 MAZDA B2000 PICKUP - w/cap, 5-spd., long-bed, new clutch & tires, good cond., \$1,000 neg. John, 399-5498.

82 DATSUN MAXIMA - s/w, 72k mi., p/s, p/w, p/b, a/t, ac, runs very well, \$1,400 or best offer. Yujie, Ext. 3983.

80 PONTIAC TRANS AM - charcoal gray, p/s, p/b, T-top, low mileage, runs well, looks good, asking \$1,800. Jeff, 286-1348 after 6 p.m.

78 OLDS 98 - 2-dr., runs well, asking \$500. Phil, 286-1348.

75 CHEVY MALIBU - all parts for sale, 305 eng. 585-1421.

70 YELLOWSTONE TRAVEL TRAILER - 18', v.g. cond., many extras. Frank, Ext. 7684 or 584-5933 after 6 p.m.

PARTS - '72 Torino, 429 big block, 850 Holly carb., Craigers, more, \$650. Ext. 7121 or 399-2179.

PARTS - '81 Honda Civic s/w, 2 brown bucket seats, fenders, doors, priced to go. Gary, Ext. 3751.

LADDER RACK - heavy-duty, Dodge Ram 50-size pickup bed, tool locker, ladders, alum. Wen 20', 28'. Roger, Ext. 2382.

CHEVY BIG BLOCK - 454, disassembled, new oversized cam, rings, bearings, gaskets, block cleaned & honed, \$950. Edward, 661-9155.

RIMS - 2, 8" Centerlines for Ford 5-lug pickup, F.E. headers, heads for Laredo 31x10.50. Wayne, Ext. 3084.

Furnishings & Appliances

BEDROOM SET - country French, queen, headboard, 2 nightstands, armoire, triple dresser, 2 mirrors, excel. cond., \$900. 331-7899.

CHAIR - oak, needs work, \$25. Susan, Ext. 7647.

CHINA CLOSET - buffet, table, 4 chairs, light wood, good cond., must see, \$100. 744-7265.

COFFEE TABLE - brass/glass, excel. cond., \$20; wardrobe, dark wood, excel. cond., \$20. Ext. 5249.

ENTERTAINMENT CENTER - oak, light chestnut, shelves, doors, fits 31" TV, orig. \$595, sell for \$175. 474-3799 after noon.

KITCHEN SET - Formica, 6 matching brown swivel chairs, leaf, \$100. Frank, 928-9834.

LIVING ROOM - 8-piece, sofa, loveseat, chair, 3 tables, 2 lamps, \$450/all, will part. 588-3999.

LIVING ROOM - Col., couch, rocker, chair, 2 end tables, coffee table, \$200 or best offer. Phil, 924-6790.

LIVING ROOM SET - couch, 2 chairs, end tables, lamps, good cond., \$500. Steve, 369-4922.

REFRIGERATOR - Kenmore, 19 cu. ft., brown; GE dishwasher, white; kitchen cabinets, birch white, best offer. Ext. 5058 or 689-9869.

TABLE - glass top, 72"x42", marble base, excel. cond., orig. \$600, sell for \$300 neg. Don or Jackie, 744-2921.

TABLE - pine trestle, 48"x23", w/two 9" drop leaves, 2 benches, \$150; cabinet, Col., maple, record player, radio, \$400. S. Saxon, 929-4701.

VACUUM - Panasonic, upright, w/attachments, \$25. Rick, Ext. 3741.

WATER BED - super single, baffled, frame, heater, headboard, best offer. 744-4611.

YOUTH CHAIR - like highchair, w/o tray, \$5. Jim, Ext. 2432.

Tools, House & Garden

FIREWOOD - split, oak. J. Scesny, 732-2849.

FIREWOOD - split, seasoned, delivered, stacked, \$100/cord. Ken, Ext. 4220, leave message.

GARDEN TRACTOR - 11 h.p., 36" cut, snow blade, tire chains, needs tune-up. Ext. 2095.

KEROSENE HEATER - \$30; electric heater, \$30. Julie, 732-8263.

JIG SAW - 24", throat, \$30; direct drive blower, 4-spd., \$30; bedroom set, large dresser, 2 mirrors, 2 nightstands, headboard, \$95. 878-6637.

KEROSENE HEATERS - 2, Kerosun, \$25/ea., or \$40/both. Carl, Ext. 4420.

Sports, Hobbies & Pets

BICYCLE - 20", boy's, freestyle, caliper brakes, rotor, new tires, \$35. Ext. 5080 or 751-1884.

DOG TRANSPORTER - Airporter, extra large, 40"L x 27"W x 30"H. 286-3675.

PIANO - Gulbransen, upright, very old, needs work. 588-6853.

PORTABLE ORGAN - Yamaha, Leslie speaker amp, Wurliizer elec. piano, super strings keyboard, \$1,000/all. Ext. 7340 or 732-2702 eves.

R/C BOAT - Fast Cat, elec., 2 motors, needs electrics, \$30; r/c car, Frog, controller, battery charger, battery, extras, \$75. Matt, 744-7406.

SLIDE PROJECTOR - 2x2 Argus, 3.5 lens, 4", \$20; enlarging lens, El Nikkor, 50mm, 2.8, \$75; yarn spools, \$8. Susan, Ext. 7647.

ULTRALIGHT AIRPLANES - Pioneer Flightstar, \$6,000; Quicksilver MX, \$2,500; bike for 4-7 yr. old, tr. wheels, helmet, \$40. Ext. 7657 or 298-9560.

UNDERWATER CAMERA - Nikon II, w/access., asking \$325. Carl, 722-3338.

Audio, Video & Computers

CAMCORDER - Sears/Hitachi, full-size, 2 hr. battery, telephoto lens, carrying case, excel. cond., \$240. Ext. 2095.

CAMCORDER - Chinon, VHS, auto-focus, 6:1 zoom, new battery, charger, carry bag, \$350. Carter, Ext. 2075 or 654-1471 after 5 p.m.

CASSETTE DECK - Aiwa, 3 heads, hardly used, in box, \$150. 474-3799 after noon.

CASSETTE STEREO - Realistic, play/record; clarinette 96, \$50; 8-track tape player, Stereomatic 9900, \$20. Pete, Ext. 4581 or 399-2813 after 5 p.m.

RADIO - am/fm, \$10; brass clothes rack, \$10; rocking chair, \$25; wicker trunk, \$20; antique candle lamp, \$55. Kathy, 744-2203.

MOVIE PROJECTOR - Revere, 8mm, antique, w/wheel, works very well; tape recorder, reel-to-reel, v.g. cond., \$25. Ext. 2384 or 924-8558.

TERMINAL - Data Point 8200, monitor, keyboard, works, \$10; Lear Siegler monitor, mono, working, \$10. Victor, Ext. 2395.

TV - 13", color, works OK, \$20. Ext. 5249.

TV - Sylvania, 25", console, color, good cond., \$125; 19" Sylvania TV, color portable, needs tuner rebuilt, \$40. Ext. 7039 or 289-8428.

Miscellaneous

ALBUMS - jazz, disco, rock, popular, excel. cond., \$4/ea. 474-3799 after noon.

BROWNIE UNIFORM - size 7/8, blouse, jumper, beanie, brown sweater, like new, \$15. Steve, Ext. 4475.

COPY MACHINE - Pitney Bowes, v.g. cond., ink & paper, reverse side, reduce/enlarge. Ext. 2384.

DISHWARE - Pfaltzgraff, simply white shapes, service for 12, w/3 serving pieces, new, still in box, \$125. Jack, Ext. 2907.

FOX COAT - silver fox, long, list \$3,300, asking \$1,200. 924-6893.

OPERA TICKETS - Met Opera, Sat. matinee, March 14, Don Carlo, Levine conductor, row K, center orchestra. Ext. 3922.

Free

CAR - 72 Volkswagen square-back station wagon, just take it away and it's yours. 722-3938.

DOG - Lab mix, 9-mo.-old, very friendly, house-broken, all shots, good w/children, needs good home. Victor, Ext. 2395.

DOG - Beagle, female, 4 yr. old, spayed, warm & affectionate, great w/children. 331-6473.

HIGH RISER - old, but usable, only one mattress. 929-4701.

KITCHEN TABLE - glass & wood, 4 chairs; dresser & 2 night tables, you pick up before March 20. Vicki, Ext. 2907 or 345-3305 after 5:30 p.m.

SEWING MACHINE - Montgomery Ward signature, old but works, incl. cabinet & attachments. Schoenborn, 727-8631.

TIRES - 2, snow, radial, BR78-13, 5k mi.. Ext. 2095.

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

ASTORIA, TRIBEENS - studio, new luxury bldg., overlooks Triborough Bridge, 24-hr. doorman, parking, health club, pool, shuttle bus to subway, avail. April 1, \$900/mo. Ken Hammer, Ext. 7311.

BLUE POINT - new, large 1-bdrm. apt., dbl. walk-in closet, cable TV, own thermostat, 20 min. to Lab, carpeted, \$575/mo. incl. all. Gene, 363-9527.

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, 289-4798.

E. PATCHOGUE - 3-bdrm. house, 10 min. from Lab, \$975/mo. 331-3190.

E. PATCHOGUE - 1 bdrm., kit., l/r, bath, sep. ent., mature, single nonsmoker, no children, 1 mo. sec., refs., \$500/mo. incl. util. Marilyn, 286-3508 after 6 p.m.

EASTPORT - townhouse, 3 bdrm., 2 1/2 baths, gar., fp, skylights, tennis courts, wooded, no pets, \$1,200/mo. (301)903-7684 days or (301)540-8507 eves.

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

FARMINGVILLE - apt., l/r-bdrm. combo, full kit., bath, priv. ent. & drive, furn., cable, 10 min. to Lab, \$550/all. Ext. 3160 or 289-5704 after 5 p.m.

HAUPPAUGE - 2-bdrm. condo, l/r, d/r, kit., new bath, priv. ent. w/fenced patio, appliances, pool priv., walk to stores, bus & train, \$900/mo. Frank, Ext. 7519, or Adrienne, 277-0464.

MASTIC PARK - 1-bdrm. apt., kit.-l/r combo, full bath, city water, priv. ent., 10 min. to Lab, \$600/mo. all + sec. & refs. Joe or Denise, 395-4956.

MASTIC PARK - 1-bdrm. apt., full kit., l/r, den, working couple, \$600/mo. 281-7844 eves.

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

MIDDLE ISLAND - share condo, master bdrm., walk-in closet, furn., pool, tennis, cable, \$450/all. Ext. 3160 or 289-5704 after 5 p.m.

MIDDLE ISLAND - 1-bdrm. co-op apt., l/r, d/r, bath, 2 walk-in closets, cac, 7 min. to Lab, immed. occup., \$600/mo. + elec. & 1 mo. sec. Vicki, Ext. 2907 or 345-3306 after 5:30 p.m.

MIDDLE ISLAND - 2-bdrm. furnished condo, 1 1/2 baths, all appl., clubhouse, pool, tennis, 5 min. to Lab, \$875/mo. + util. 751-8351.

MILLER PLACE - 2-bdrm. apt., bath, l/r, kit., priv. ent., avail. 2/15, 473-1658 after 6 p.m.

MT. SINAI - waterfront home to share, large bdrm., laundry use. 474-3820.

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

NORTH SHIRLEY - share 3-bdrm. ranch, 5 min. to Lab, quiet area, yard, deck, \$400/mo. + 1/2 util. immed.; also rooms in 3-bdrm. ranch, \$80/wk./+ sec. Bob, 281-7432.

OLD MASTIC - small 2-bdrm. house, 1 1/2 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.

RIDGE - furn. studio apt., private, fenced-in yard, kitchen, bath, 5 min. to Lab., \$490/mo. 744-8632.

RIDGE - immaculate, 2-bdrm. condo, w/d, dw, w/w, \$750/mo. 878-6016 eves.

SMITHTOWN - immac., lg. bdrm. in new house, share kit., bath, l/r, 1/2 acre, w/w, nonsmoker, private, near to LIE. Jim, 979-0632 after 6 p.m.

WADING RIVER - furn. 1-bdrm. basement apt. on beach, priv. ent., 15 min. to Lab, cable, \$400/mo. incl. util. 929-8443.

YAPHANK - 2-bdrm. house, l/r, d/r, large kit., cable, \$750/mo., 7 min. to Lab. John, Ext. 3302 or 927-0651.

CLAREMONT, NH - 2-bdrm. condo, furn., kitchenware, VCR, phone, skiing, \$300/wk., \$225/4-day wknd. Frank, Ext. 7749.

SALEM, NY - 3-bdrm. ski house, 2 baths, sleeps 6, \$250/Fri-Sun. Wally, 924-6724.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, tennis, beach, golf nearby, March, \$300/wk. Guy, Ext. 3147 or 689-5378.

For Sale

BELLPART VILLAGE - 3-bdrm. Cape, 2 baths, large fam. rm., large fenced yard, quiet street, near tennis, golf & town, 15 min. to Lab. 286-8554.

LAKE GROVE - 3-bdrm. hi-ranch, l/r, d/r, new eik, den, 1 1/2 baths, 2-car gar., new carpets, remodeled bath, Andersen windows, vinyl siding, covered patio, igs, appl., \$162,500. 588-6417.

MANOR PARK - 3-bdrm. Col., 1 1/2 baths, eik, fd/r, l/r, den, bsmt., new oil burner & carpets, att. gar., shed on 1/2 acre, fenced, all appl., \$118,500. Marie, 399-3401.

MANORVILLE - older home, remodeled, 2 1/2 acres, 2 gar., patio, other bldg., shrubs, 3 bdrm., large kit., l/r, d/r, laundry rm., bath, new roof, 3 rm. with w/w carpet, \$175,000, terms. 878-6637.

MANORVILLE - 5-bdrm. ranch, eik, l/r, pantry, foyer, laundry, igs, vinyl siding, bsmt., 1 1/2 baths, low taxes, 1 acre, screened patio, wood or coal stove, conv. loc. \$127,900. 472-2414.

MEDFORD - 3-bdrm. center-hall Col., 1 1/2 baths, eik, den, l/r, d/r, gar., 0.4 acre, fenced, \$127,900. 286-1571.

MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 baths, kit., l/r d/r, cac, 5 appl., pool, tennis, clubhouse, new carpet, more, ask. \$95,000. Rosalie, Ext. 3160 or 289-5704 after 5 p.m.

MIDDLE ISLAND - 3-bdrm. ranch, eik, den, d/r, l/r w/bay window, 1 1/2 baths, screened porch, patio, full bsmt., wooded 1/2 acre, cul-de-sac, \$122,900. 924-6051.

MIDDLE ISLAND - mint cond., 2-bdrm. condo, 1 1/2 baths, cac, gas heat, French doors, all G.E. appl., low common charges, pool, clubhouse, spa, 5 min. from Lab, \$89,000. Mark, 924-1561.

N. SHIRLEY - 2-story, 3-4 bdrm., l/r, d/r, 2 baths, 1/2 bsmt., new appl., laundry rm., 2 decks + pool w/deck, 1/2 acre, near LIE, Lab, Longwood SD, \$124,000. Kathy, 345-3778.

N. SHOREHAM - 3-bdrm. L-shaped ranch, d/r, sunken l/r, eik, oak floors, fin. bsmt., workroom, 2-car gar., 1/2 acre, igs, deeded beach rights, \$179,900. Mike, Ext. 5972 or 744-4579.

PORT JEFFERSON/HARBOR HILLS - 4-bdrm. ranch, 3 baths, l/r, d/r, eik, fam. rm., fp, 2-car gar., country club avail., \$170,000. 477-7379.

RIDGE - 2-bdrm. condo, 1 1/2 baths, new appl., move-in cond., 5 min. to Lab, new eff. htg. syst., storage shed; low maint. \$75,900. Rob, 924-2832.

ROCKY POINT - 2 bdrm. home, l/r, eik, bath, bsmt., attic, all appl., OHWH, new floors, low taxes, \$102,000. Mark, Ext. 2760 or 744-5851.