BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

BNL Researchers Take NICEST Approach To Upgrading Nation's Infrastructure

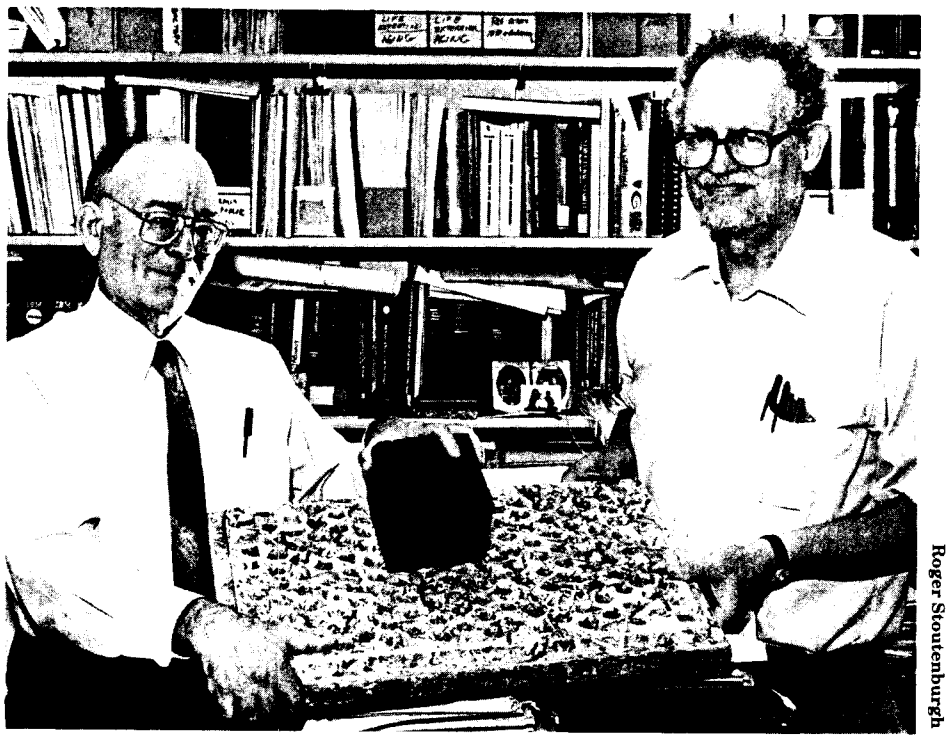
Much of the nation's infrastructure — its roads, bridges, water and sewer systems, dams, tunnels, railroads, airports, etc. — is seriously deteriorated and obsolete. And many of the current technologies used for construction, maintenance and repair date back to the 1950s or earlier.

With seed funding of $500,000 from the New York State Science and Technology Foundation, BNL has organized an initiative to help bring the U.S. infrastructure into the 21st century: Called the National Infrastructure Center for Engineering Systems and Technology Initiative (NICEST), it will develop, demonstrate and rapidly implement new infrastructure technologies.

James Powell and Morris Reich, both senior engineers in BNL's Department of Advanced Technology (DAT), initiated the multifaceted effort that will integrate research, manufacturing and construction organizations into a focused team to improve infrastructure technologies.

In addition to Brookhaven, NICEST includes Northrop-Grumman, Raytheon-Ebasco and 13 leading universities in the New York region. As NICEST grows, additional members are expected to join.

"Many of the new technologies developed by the national labs and the defense industry can be readily adapted to infrastructure needs," Powell said. "They can enable breakthroughs in rapid construction, lower cost, better maintenance and repair, quick diagnosis of deficiencies, and much longer operational life."



Roger Stoutenburgh

Morris Reich (left) and James Powell, both from the Department of Advanced Technology, display two new materials that have been developed at BNL for improving infrastructure. The large, flat sample, made from recycled waste materials, is much stronger than concrete and can be used for bridge decks, highway sections, buildings, etc. The smaller cube is a chunk of "ironable" asphalt that can be rapidly reworked in place to restore a road to its original state.

Repair & Rebuild for Less

Using traditional repair methods, the U.S. would have to spend $150 billion annually on infrastructure over the next 20 years to stop further deterioration and fix the worst deficiencies. Further funds would be needed for improvements and expansion to accommodate an ever-increasing population.

"We could cut the cost of repairing and rebuilding the infrastructure in half by using the expertise and resources of NICEST," Powell explained.

NICEST will use an integrated systems approach to develop new infrastructure technologies, carrying through each project from the basic research phase to field implementation. Reich explained, "It's not enough to just develop a new material or widget. To actually get to the marketplace, it must be integrated into a complete system that is tested and demonstrated at full-scale under realistic conditions with the participation of industry and the appropriate code committees."

Developing New Technologies

As part of the consortium, BNL is developing a number of new technologies that should yield major payoffs in the near future.

They include a rapid trench-opening robot, or RAPTOR, a high-speed concrete cutter that will be much faster than jackhammers or concrete saws; "ironable" asphalt that can be rapidly reworked in place to eliminate potholes, cracks and bumps; and magnetic imagining, or MAGI, a magnetic sensing device to locate and inspect underground pipes and internal steel reinforcement in concrete.

In addition, NICEST is studying the use of recycled waste materials for prefabricated, mass-produced, long-lasting bridge decks and highway sections. "We are working on low-cost construction materials that are very sturdy and long-lasting," said Reich. "A typical bridge built with conventional materials lasts about 30 years. Using NICEST materials and new repair and inspection methods, a bridge could last 70 to 80 years."

Other ideas involve ultra-durable protective coatings, robotic devices to repair and strengthen underground water mains and sewers without digging, and better methods to handle and dispose of toxic waste, sewage sludges, dredge spoils and other wastes.

NICEST will also develop comprehensive computer databases on new infrastructure technologies and projects for contractors. For workers in the field, NICEST experts would be available to help via high-definition, large-screen television, two-way communication links, using the planar optic flat-panel display developed by James Veligdan, another DAT staffer involved with NICEST (see Brookhaven Bulletin, September 26, 1995).

Test Facilities Planned at BNL

The consortium also plans to establish a full-scale user facility at BNL to test new technologies under realistic field conditions. Besides building new facilities on site for testing materials used in bridges, highways and pipes, the consortium will use the multidisciplinary expertise of the Laboratory to conduct infrastructure-related research. Talent will be tapped from various BNL departments.

"In addition to improving the nation's infrastructure, we expect that NICEST could bring thousands of new high-tech jobs to New York State and particularly to Long Island," Powell said. "It will also provide support for colleges in New York State. The national laboratories and the defense sectors could shift their focus to public infrastructure needs."

— Diane Greenberg

Coming Up

Nuclear Engineer William Horak, Department of Applied Science, will deliver the 311th Brookhaven Lecture on Wednesday, December 13. Entitled "Ten Years After Chernobyl: Soviet-Designed Reactor Safety Today," his talk will begin at 4 p.m. in Berkner Hall.

Focus on Women's Programs

Roger Stoutenburgh

Women's Program Coordinator Victoria McLane (seated, center) relies on the Women's Program Advisory Committee (WPAC) for advice and support of the Lab's programs for women. On the WPAC for the current fiscal year are: (seated, from left) Barbara Schmidt, Human Resources Division; McLane; ex officio member Lorraine Merdon, Diversity Office; Nina Leonhardt, Office of Educational Programs; (standing, from left) new members Sydell Lamb, Biology Department, and Dorry Tooker, Office of Technology Transfer; Patricia Durcan, Budget Office; Marilyn Pandorf, Human Resources; and new member Michiko Tanaka, Information Services Division.

Public Meeting at Lab Next Week On Environmental Remediation

A public meeting will be held at BNL on Wednesday, December 6, to present plans for dealing with a specific area of environmental contamination on the Lab site. Known as Operable Unit IV, this area includes the steam plant, as well as a facility used in the 1950s to clean radiologically contaminated clothing and equipment. The meeting will begin at 7:30 p.m. in Berkner Hall, and the public is invited to attend.

During the meeting, BNL staff will summarize the nature and extent of contamination within Operable Unit IV, risks to public health and the environment in the absence of cleanup, how cleanup options were developed and evaluated, and proposed cleanup measures.

Documents pertaining to Operable Unit IV are available at BNL's Research Library, Bldg. 477, as well as public libraries in Shirley and Middle Island. The 30-day public-comment period ends December 22, and oral and written comments are welcome at the December 6 meeting.

Environmental remediation at BNL is carried out under requirements of the federal Comprehensive Environmental Response, Compensation and Liability Act of 1980, commonly known as the Superfund Law.

BNL is on the Superfund list primarily due to past operations that have resulted in soil and groundwater contamination that potentially threaten Long Island's aquifer.

Remediation work is conducted under the framework of an interagency agreement among New York State, the federal Environmental Protection Agency and the U.S. Department of Energy, which has jurisdiction over the BNL property and pays for all cleanup costs.

For more information on the meeting, call BNL's Office of Environmental Restoration, Ext. 3129 or 5195.

Help Students by Remembering Greg Persson — Through the United Way

One terrible day in 1983, Ralph Persson and his wife Jane learned that their 14-year-old son, Greg, had been fatally injured in a car accident. Ralph Persson is familiar to many BNLers as one of the Upton Post Office staff since 1980, or from his work in the then Photography & Graphic Arts Division, 1958-75.

After their son's death, both the Perssons were determined not to let Greg's memory fade, and they wanted to help other young people to fulfill dreams that they had had for their own son.

So, with donations from friends and family, they started the Greg Persson Memorial Scholarship Fund at Shoreham-Wading River High School.

As a result, each year, a prize is given for the best senior writer, and two small cash awards are made to students within groups who need special assistance. The main part of the award, however, is a scholarship in computer science for a student chosen by the school faculty.

"The first year, the winner was Rachel Droisen, who was in Greg's class," said Persson. "She graduated from Columbia University, then studied medicine at [the State University of New York (SUNY) at] Stony Brook. We got a wonderful card from her this summer to say she had just qualified as a doctor and that she was starting her residency in emergency medicine in Chicago.

"We get many letters from the students and their teachers," said Persson. "If you only read a small sample of them, you can see why the scholarship fund is so important and worthwhile. We wish we could do more, but at least we know that our efforts make a difference."

In 1991, the winner was Dennis Gallagher, now a graduate student in systems technology at SUNY Stony Brook. Gallagher, who incidentally is the son of Edward Gallagher, Management Information Systems Division, used the scholarship for his B.S. in applied mathematics and statistics, which he also took at Stony Brook.

"But when the scholarship started, we were able to give the winner $3,000 a year for four years," said Persson. "Five years later, when Dennis won, there was only enough money to give $1,500 for two years. Then in 1993, we once again had to scale back to our present program, a scholarship for one year only. So we applied to the United Way for help."

Because the Perssons have a fully accredited trust, donations are tax-deductible. "One hundred percent of the money we receive goes to the fund," declared Persson. "Any expenses are paid for by Jane and me. Now, by applying for support through the United Way, we believe more people will learn about our goals and may want to help. We hope we'll be able to go back to the original $3,000 award and keep it going for each winning student for four years, as we would have liked for Greg."

Roger Stoutenburgh

Ralph Persson (center) and his wife Jane created the Greg Persson Memorial Scholarship Fund to honor their son's memory. Above, at the Upton Post Office where he works, Persson meets with BNL United Way Fund Drive Chair Michelle Cummings and Co-Chair Pete Esposito to discuss how the scholarship fund will be helped this year because it is now one of the United Way's causes.

Said BNL's United Way Fund Drive Chair Michelle Cummings, "This year, you can request that your donation go to a particular cause among the list of about 160 service agencies, institutions and trusts helped by the United Way. If you name the Greg Persson Fund, that's where your money will go."

Cummings urges that BNLers send in their pledge cards right away. As usual, prizes will be drawn from among pledges received by December 15, the end of the drive. The earlier the pledge, the easier it is for the United Way to know how much support each agency can count on.

Thanks to the generosity of Associated Universities, Inc.; the Long Island Guards Union No. 37; Local 8-431 Oil, Chemical and Atomic Workers International Union: and Local 2230 International Brotherhood of Electrical Workers, prizes include dinners for two and a grand prize of a dinner-and-theater weekend for two in New York City.

— Liz Seubert

Money Talks

Funding Options For College

The ever-escalating cost of high- education has left many parents wondering how they can possibly provide for the cost of a four-year college education for their children. Where will the money come from?

To answer this question, "What You Need to Know About College Funding Options" will be presented as the next lecture in the Money Talks series. Sponsored by the Human Resources Division, the talk will be given by a representative from American Express Financial Advisors Inc. on Thursday, December 7, from noon to 1 p.m. in Berkner Hall. All are invited.

As the speaker will discuss, it is projected that the future college costs for a child who is now five years old will be $80,000 for a state institution or over $200,000 for a private one. Investment planning for college will be outlined, as well as the use and availability of scholarships, financial aid and loans.

To register, return the completed bottom portion of the blue Money Talks flyer recently sent to all employees to Denise DiMeglio, Bldg. 185, by Friday, December 1.

Equipment Demos

At Berkner Hall on Tuesday, December 5, from 9 a.m. to 3 p.m., Exphil Calibration Labs, Inc., will feature products from Tektronix and Fluke. For instance, the new TDS380 digital real-time oscilloscope, which comes standard with 400 MHz bandwidth, 2GS/sec, floppy disk and FFT, will be displayed. In addition, the new Tektronix Tekscope and the popular Fluke scope meter will be demonstrated.

On Wednesday, December 6, from 11 a.m. to 2 p.m. in Berkner Hall, Alpha Wire Corporation and Broadline Electronics will display their new products, and new master catalogs will be available.

Outreach Workshop

How to Change, Part I

The universe is change; our life is what our thoughts make it.
— Marcus Aurelius Antonius, 121-180

Whether out of necessity or desire, changing oneself is one of the hardest tasks faced by human beings, though it is one of the most rewarding when done effectively. To examine how to change effectively, the Employee Assistance Program (EAP) of the Occupational Medicine Clinic will present a four-part Outreach workshop entitled "Removing Barriers to Effectiveness."

The first part, "A Roadmap to Assessing Barriers to Your Effectiveness," will be presented by clinical psychologist Carol Noble on Tuesday, December 5, from noon to 1 p.m. All are invited, and the talk will be available afterwards on cassette in the Research Library, Bldg. 477.

Noble will outline the kinds of roadblocks that people put before themselves that prevent their being effective and changing. She will present insightful tools that may be used to examine these barriers in a thorough self-assessment. As Noble will explain, this assessment will lay the foundation for establishing realistic goals, the second step in the change process.

The three subsequent sessions will be held next spring and will, respectively, acquaint participants with the stages and processes of change; help them overcome the resistances that people in the process of change commonly encounter; and introduce the means by which change may be sustained and self-assessment may become an ongoing life process. More information on these talks will be provided in future issues of the Bulletin.

Carol Noble

Carol Noble, Ph.D. is a licensed clinical psychologist with a private practice in Roslyn Heights, specializing in stress management, conflict resolution, relationship difficulties and life transitions. A former consultant to the Long Island Medical Department of NYNEX, she now works with a medical network and multi-specialty women's health center, developing mental health services to promote and maintain physical well-being.

To register for the first part of this workshop, return the bottom portion of the Outreach flyer recently mailed to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490, by Monday, December 4. For more information about EAPs, call Ext. 4567.

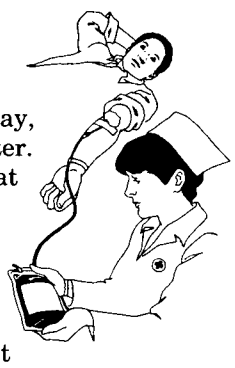
Atlantic City Trip

A few seats remain for the next BERA-sponsored, one-day trip to the Trump Castle Hotel and Casino on the marina in Atlantic City, on Saturday, December 9. The initial cost will be $22, but the hotel-casino will give a $15 coin return.

Buy tickets at the BERA Sales Office, weekdays, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

Circulate Your Blood!



A two-day blood drive will be held Thursday and Friday, December 7-8, from 10 a.m. to 3 p.m. in the Brookhaven Center.

Two pledge cards have been sent to each employee so that friends or relatives may also join the BNL campaign. Those who choose to give the gift of life this holiday season will also find a new box on the pledge card that they may check if they are interested in possibly donating bone marrow at a future date.

For more information about this new program or about any aspect of donating blood, call Blood Drive Chair Susan Foster, Ext. 2888, or contact the appropriate Blood Drive Captain listed below:

Dept.	Captain	Bldg.	Ext.
AGS	Elliot Auerbach	911A	3947
	Arthur Piper	911A	7934
AUI	Elliott Levitt	134A	2495
Bio.	Richard Sautkulis	463	3386
CCD	Ronald Yuhas	515	2000
Chem.	Jean Petterson	555A	4302
CSD	Richard Spellman	462U	3351
DAS	Betty Ivero	179A	2452
	Claire Lamberti	318	3051
	Corinne Messana	318	7398
	Rangasayi Halthore	426	7920
	Arlean Vanslyke	490D	2387
	Maryann Larese	480	3508
	Fran Donnelly	526	4835
	Eileen Morello	815	4519
	Barbara-Jean Carreres	815	2418
DAT	Cheryl Conrad	130	2272
	Kathleen Nasta	130	2267
	Theresa Legault	197C	3377
	Maryann Musso	197C	2352
	Kara DeCastro	475B	3643
	Marjorie Chaloupka	475C	2746
	Maria Beckman	703M	2301
	Paul Lageraaen	830	2777
DCP	Nancy Harris	355	3888
DO	Janet Sillas	134	2345
DOE	Clare Appleton	464	7812
Fiscal	Doreen Hallinan	134B	2457
Instr.	Raymond Dumont	535B	4243
ISD	Jack Laurie	197B	7640
	Catherine Green	477	3484
Med.	Marta Nawrocky	490	3592
MIS	Michael Seidman	459	2242
NSLS	Pat Powers	510E	4828
	Kathy Loverro	725C	7188
OMC	Maureen Sacker	490	3671
PE	Marilyn Johnson	134C	2546
	Marilyn Zane	134C	5075
	Ron Mulderig	326	3084
	Tirre Farmer	452	3288
Pers.	Marsha Kipperman	185	2871
Phys.	Liz Mogavero	510A	3940
	Sandy Asselta	901A	4550
Reac.	Randi Vogt	120	4043
	Nick Houvener	750	4436
RHIC	Suzanne Agnetti	817	7931
	Vera Mott	902A	710[illegible]
	Ray Shah	902A	323[illegible]
	Mary Campbell	1005	2719
SEP	Sheila Bubka	51	3144
	Donald Dains	535A	7494
	Michael Carroll	599	2351
SMD	Michael Guacci	211	2976
SSD	Sylvia Mouzakes	179B	2531
S&SD	Sharon Jones	30	2493
	Sharol Busby	50	2238
	Mindy Markstaller	50	2280
	Ted Heuer	703	5645

Healthfest '95 — Four Days of Health, Safety & Fitness

This year's *Healthfest*, BNL's third celebration of personal health, fitness and safety, drew more employees to more activities and exhibits than before — and, for the first time, attracted their families to special events held on Saturday.

Healthfest '95 began on Wednesday, October 11, with 52 employees stretching before the Employee Fitness Walk, in which 315 BNLers paced themselves over 2 miles.

Then, on Thursday, October 12, the pre-run stretch involved 25 BNLers, while 111 completed the 5-kilometer Employee Fitness Run (see results below).

The two-day Health, Fitness & Safety Fair in Berkner Hall drew 36 exhibitors and approximately 500 employees on Friday, October 13, while some 350 adults and 95 children came to the Lab for the *Healthfest*'s family day on Saturday, October 14,

During those days, some 40 took part in a stress management and relaxation techniques workshop, eight participated in family tennis, 16 played all-star basketball, 20 took ballroom and country/western dance lessons, 45 went on a family fitness bicycle ride, 40 took part in the family fitness swim, 75 children painted pumpkins, and 1,150 Nabisco low-fat snacks were consumed.

In addition, 288 participants had their cholesterol checked; 226 had their pulmonary function tested; 143 had their blood pressure measured, resulting in 24 referrals and one referred for immediate attention; and 59 employees or their children took part in the podiatry foot screening.

In two drawings at the fair, the following employees were the lucky winners of door prizes: Ray Atkins, Marsha Belford, David Burr, George Cafetan, Bill Christie, Alice Costantin, Minette Cummings, Giuliano DeGrassi, Don DiMassino, Denise DiMeglio, Pat Flood, Ralph Fullwood, Pat Kriss, Michelle Li, Michael Losquadro, Mike O'Brien, Philip Pizzo, Jack Russell, Camille Saville, Yannis Semertaidis, John Skaritka, Jing Wang and Chris Wong.

"We thank everyone who volunteered their time and put in the effort to make *Healthfest* '95 a success and of interest not only to employees, but also to their families," comments Health Promotion Specialist Mary Wood, Occupational Medicine Clinic (OMC), who chaired the *Healthfest* '95 planning committee and reported to an executive committee.

The former consisted of: Marsha Belford, Public Affairs Office; Frank Biele, Safety & Environmental Protection (SEP) Division; Sharol Busby, Safeguards & Security Division; M. Kay Dellimore, Human Resources (HR) Division; Denise DiMeglio, HR; Pat Flood, Information Services Division; William Fortunato, SEP; Marilyn Gibbons, Plant Engineering (PE) Division; Augie Hoffman, Physics Department; Diane Hatton, Chemistry Department; Ken Mohring, Staff Services Division (SSD); Christine Ronick, SSD; Jack Russell, Division of Contracts & Procurement; Mickey Sacker, OMC; Edward Sperry, Relativistic Heavy Ion Collider Project; and Patricia Williams, PE.

The executive committee included: Bryce Breitenstein, OMC Manager; Robert D'Angio, HR Manager; M. Sue Davis, Associate Director for Reactor, Safety & Security; and Richard Setlow, Associate Director for Life Sciences.

Roger Stoutenburgh

Members of the BNL Aerobic Dance Club lead participants in warming up before the Employee Fitness Walk.

Healthfest '95 — Results of 5K Employee Fitness Run

Name	Time	Name	Time	Name	Time	Name	Time	Name	Time
*Trevor Sears	16:01	Tim Powers	22:09	Robert Sikora	24:20	Al Borelli	26:43	*Inan Feng	31:33
*Curt Koehler	16:20	John Helser	22:34	Peter Kohut	24:30	Danny Padrazo	26:46	Robert Sullivan	32:05
David Phillips	17:35	Peter Cameron	22:36	Ben Ocko	24:39	Jing Wang	27:18	*Noreen Michaelsen	32:56
*Paul Geiger	18:01	Dan Weiss	22:40	Richard Wall	24:40	John Parise	27:22	Keith Radich	33:10
*Don Shea	18:09	John Millener	22:43	*Sharon Wang	24:44	Stephen Shapiro	27:22	John Guthy	33:15
*Jerry Hastings	19:26	John Pagano	22:47	John Young	24:48	Richard Conte	27:23	*Brenda Riddle	33:16
*Mike Mapes	19:32	*Wen-Shi Yu	22:47	Craig Diaz	25:02	Roger Davis	27:24	Richard Stoner	34:06
*Emmanuel Onillon	19:37	Barry Karlin	22:48	Lewis Lian	25:10	Michael Villaran	27:24	William McGahern	34:42
*Gavin Watson	19:44	Robert Todd	22:56	Bhayesh Patel	25:19	John Schill	27:25	Bonnie McGahern	34:43
Jeff Yablon	19:58	Phil Plunkett	22:58	Joseph Klemish	25:29	Joseph Brennan	27:25	*Y.Y. Chu	34:51
Wolfgang Caliebe	20:32	Peter deToll	23:07	Jay Adams	25:30	*Margareta Rehak	27:29	Gail Brown	36:14
*Wayne Rambo	20:35	Malry Tardd	23:07	Leon Goudikian	25:46	Joe Woicik	27:41	Laura Ayres	36:15
*Bill Thomlinson	20:56	Jacel Capala	23:22	Brian Erickson	25:49	David Pate	27:51	*David Alburger	36:58
Marc Puich	21:18	John Duggan	23:31	Pepin Carolan	25:52	*John Toner	28:27	John Axe	37:24
Don Litcher	21:24	John Flannigan	23:45	Pooran Singh	25:56	Samuel Velazquez	28:33	Swapna Mukherji	37:46
*Rebecca Studebaker	21:33	Michael Paquette	23:45	James Hainfeld	26:10	Ray Weber	29:05	Dond Bun	38:25
John Bohenek	21:37	Gary Nitzel	23:46	*Sheryl Carey	26:12	Chris Harly	29:10	Rita Kito	38:26
*Helmut Thiel	21:40	*Michiko Miura	23:50	Lisa Miller	26:21	Gerardo Martinez-Guridi	29:58	Mary Grace Meier	38:28
James Kos	21:40	Mow Lin	23:52	*Joyce Towell	26:22	Michael Losquadro	30:05	Martha Simon	38:36
Michael Fulkerson	21:42	Ray Duffield	23:53	Peter Palamidis	26:32	Kathleen Geiger	30:22	Jim Durnan	38:37
Michael Seidman	21:44	Tom Clifford	24:07	*Donna-Ree Rodriguez	26:35	Beth Yu Lin	31:13	Sharon Spark	41:40
*George Meinken	21:52	Richard Wagener	24:08			Tony Tanza	31:19		
Bom Soon Lee	21:57	Jeffrey Coderre	24:17	John Mollica	26:41				

*overall winners
*age-group winners

Do your holiday shopping at the Winter Holiday Sales at the Science Store . . .

Three Fridays — December 1, 8 & 15
10 a.m. to 3 p.m., Bldg. 701

Volleyball

Standings as of November 28

Open League		League I	
Pass, Set & Crush	19-5	Bikers 'n Spikers	13-5
Monday Maulers	20-7	Rude Dogs	12-6
Far Side	10-14	Scared Hitless	11-7
Spikers	10-14	No Names	8-10
Bud Hitters	4-23	Underdogs	1-17

League II		League III	
Safe Sets	17-4	Silver Bullets	12-3
Spiked Jello	16-5	Joy of Sets	9-3
Monday Nite Live!	14-7	Upton Ups	9-3
Fossils	12-9	Just 4 Fun	8-4
Nuts & Bolts	10-11	Harlem Knights	7-8
Jolly Vollies	7-14	DO-DAT	5-7
Volley Folly	6-15	High Volley'em	5-10
Night Court	2-19	New Comers	4-11
		OER	1-11

BROOKHAVEN BULLETIN

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

Wanted: Toys

BERA is again participating in the Brookhaven Town Toy Drive, so please bring in new toys or gifts for needy children, infants through teens, to make their winter holidays happy ones. Toys, preferably new, will be accepted at the BERA Sales Office, weekdays, 9 a.m.-1:30 p.m., until Wednesday, December 20. For more information, call Andrea Dehler, Ext. 3347.

Four Artworks Judged Winners

Over 200 art lovers attended the BERA Art Society's Fall Festival of Art last month, and all were invited to cast ballots for Best in Show and Best in Science among the artworks exhibited by employees, their family members, retirees and BNL guests.

"The quality of the work exhibited was just outstanding, and there were many close contenders," said Robert Chrien, president of the Art Society, which awarded a bottle of wine to each of the winners. "It was so close, in fact, that there was a three-way tie for Best in Show."

The three Best in Show winners were: Anne Meinhold, for her wood sculpture *Seashell*; Buzz Rundlett, for his wood sculpture *Calvary Cataclysm*; and Nick Weih, for his oil painting *Birch Creek*. Each of these winners had several entries in the festival and had garnered votes for those as well.

The Best in Science award for a work specifically inspired by BNL science or the BNL site went to Brian Karpin, for his mixed media piece entitled *Monument to Science*.

AA Meetings to Resume in January

During the holiday season, the on-site Alcoholics Anonymous (AA) group will not meet on its usual Mondays. Next year's meetings will commence on Monday, January 8, to continue every Monday thereafter. The Employee Assistance Program (EAP) welcomes calls on Ext. 4567 from those with alcohol or other problems that may arise during the stressful holiday season.

C/W Dance Tonight

Tickets are still available for the Country/Western (C/W) Dance dance being held tonight, Friday, December 1, from 7:30 to 11:30 p.m. So pull on your boots and ride on down to the North Room of the Brookhaven Center to join the BERA Country/Western Club for an evening of partner and line dancing, hor d'oeuvres, door prizes and a cash bar. Experienced hands and greenhorns alike are welcome, as instruction will be offered by Judy & Paul Cutler. Purchase tickets, at $10 per person, from Marilyn Johnson, Ext. 2546, Bldg. 134, or at the door.

Calling All Carolers

The BNL Choral Group will present its annual Christmas Concert in the Cafeteria, at the Christmas luncheon on Wednesday, December 20.

Though rehearsals have started, singers are still welcome for all parts: soprano, alto, tenor and bass. Future rehearsals will be held at noon sharp as follows: Monday, December 4; and Friday, December 8; Monday, December 11; Thursday, December 14; Monday, December 18. All rehearsals will be in Berkner Hall except on December 11, which will be in the North Room, Brookhaven Center. For more information, call John Weeks, Ext. 2617, or Janet Sillas, Ext. 2345.

Service Awards

The following employees celebrated BNL service anniversaries during the month of November 1995:

35 Years

William A. De Vito.....RHIC
Harald Hahn.....RHIC

30 Years

Franklin C. Densing.....Instrum.
Ruth K. Merker.....Mgmt.Info.Sys.
Raymond M. Zaharatos.....AGS

25 Years

Robert J. Beuhler.....Chemistry
John G. Schmidt.....Instrum.

20 Years

Jack Allentuck.....Adv. Tech.
Maria C. Beckman.....Adv. Tech.
Samuel Cortes.....Sup. & Mat'l.
Andrea L. Epple.....Saf. & Env. Prot.
Dennis J. Fuzie.....Staff Serv.
Frederick D. Kobasiuk.....AGS
Vincent Lettieri.....Reactor
Keith F. Lewin.....App. Science
Stephen E. Mercier.....Plant Eng.
Arthur N. Otis Jr......AGS
Beatrice E. Pyatt.....Medical
Henry J. Schnakenberg.....Medical

10 Years

Carol S. Archer.....Budget
David G. Bingham.....Reactor
Edwin P. Cancel.....Sup. & Mat'l.
Ruth A. Fernow.....Director's Off.
Michele M. Hale.....Info. Serv.
Alexsandra J. Lopez.....Adv. Tech.
Chris F. Masullo.....Comp. & Comm.
Jeffrey V. Mirando.....Sup. & Mat'l.
Sorin Pop.....NSLS
Mihai Radulescu.....NSLS
Marcelino Santiago Jr......Sup. & Mat'l.
Bonnie E. Sherwood.....RHIC

Arrivals & Departures

Arrivals

Brett A. Magee.....Cent. Shops

Departures

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

Michael P. Wooley.....Plant Eng.

Bowling

Red and Green League - 11/7

E. Larsen 247/627 scratch series, B. Geib 246/618 scratch, K. Asselta 245/615 scratch, R. Mulderig 235/201/605 scratch, A. Warkentien 222/207, K. Riker 222, H. Dawson 220, R. Eggert 214/212/605 scratch, J. Griffin 214/214, H. Arnesen 214, R. Larsen 211, W. Powell 206, T. Prach 205, J. Goode 201, E. Meier 200.

Purple & White League - 11/9

M. Guacci 255/232/214/701 scratch series, M. Meier 244/185, J. McCarthy 236/206/184/626 scratch, S. DiMaiuta 226/213/211/650 scratch, D. Riley 224, Doug Fisher 214/207, R. Raynis 211/190, Diana Fisher 202, A. Pinelli 198, Don King 192, C. Wood 190/172, R. Larsen 189/185, T. Mehl 189, A. Almasy, 187, J. Blydenburgh 185, J. Flanagan 185, J. Pinelli 185, P. Callegari 182, R. Wiseman 181, M. Musso 178, D. Botts 172, D. Klein converted the 5/7 split.

Cafeteria Menu

Monday, December 4	
Soup: Black bean w/cilantro	.90/1.20
A la Carte: Turkey à la king	3.85
Lite: Baked flounder julienne	3.95
Deli: Pork loin	3.20
Grill: Swordfish teriyaki	3.30
Tuesday, December 5	
Soup: Cream of broccoli	.90/1.20
A la Carte: Meatloaf w/mushroom sauce	3.85
Lite: Baked chicken w/cranberry glaze	3.95
Deli: Turkey w/stuffing	3.20
Grill: Western omelet	3.30
Wednesday, December 6	
Soup: Chicken gumbo	.90/1.20
Display Cooking: Cajun foods	4.75
Deli: Roast beef w/mashed potatoes	3.20
Grill: Spicy wings w/bleu cheese	3.30
Thursday, December 7	
Soup: Country vegetable	.90/1.20
A la Carte: Country ham w/redeye gravy	3.95
Lite: Baked cod w/peach-pepper sauce	3.95
Deli: Corned beef w/boiled potatoes	3.20
Grill: Tex-Mex taco bar	3.30
Friday, December 8	
Soup: Manhattan clam chowder	.90/1.20
A la Carte: Stir-fry beef	3.95
Lite: Stir-fry chicken	3.95
Deli: Baked ham & beans	3.20
Grill: Tuna melt	3.30

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action plan, selections are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Human Resources Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Human Resources Division, and second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then select "Scientific Personnel Office" for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

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

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in physics or medical physics, or related field, to join the medical program of the NSLS. Experience in synchrotron-radiation x-ray experiments with an emphasis on image processing is highly desirable. At present, active programs include, but are not limited to, human coronary angiography, mammography and radiation cell biology. Contact: William Thomlinson, National Synchrotron Light Source Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry or chemical engineering, with a strong background in the use of ultrahigh vacuum techniques for surface characterization and chemical reactors for catalytic studies under high-pressure conditions. The research program will involve studies of the structural, electronic and chemical properties of metal and metal-oxide surfaces. Contact: José Rodriguez, Chemistry Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in atomic, molecular and optical physics. Preference will be given to candidates with experience in ultrashort laser-pulse technology and coherent short-wavelength (UV/XUV) generation. Contact: Louis DiMauro, Chemistry Department.

Motor Vehicles & Supplies

95 HONDA CIVIC DX - coupe, 9k mi., 5-spd., m/t, ac, Sony am/fm cass., must sell, $13,500. Tom, 345-3843.

94 CHEVY S10 PICKUP - 4-cyl., 5-spd., 27k mi., mint, many extras. 727-3863.

93 CHEVY SUBURBAN 4x4 - 2500 series, 454 FI, black/silver, sun visor, side steps, tow pkg., loaded, 27k mi., dual ac, mint, $25,995. Ted, Ext. 4289.

92 DODGE RAM 250 - low mi., loaded, capt. seats, ext. cab, ext. warr., mint, $14,500. 732-1913.

91 CAMARO RS 305 - a/t, like new, white, 53k mi. 736-2575. Frank, Ext. 3499.

89 CHEVY CORSICA - a/t, cruise, tilt, $2,100. Gabriel, Ext. 2707.

89 FORD MUSTANG LX - 2-dr. h/b, 100k mi., p/s, ac, am/fm, runs well, asking $2,600. Stu, 499-2232.

89 HONDA CRX - 5-spd., silver, ac, 2-seater, excel., $3,500. John, Ext. 7671 or 765-1299.

89 VOLKSWAGEN FOX - blue, 4-dr., m/t, am/fm cass., ac, 68k mi., excel. cond., must sell, $3,500. Sonja, Ext. 1010.

89 JEEP CHEROKEE LAREDO - black, 2-dr., p/w, p/l, am/fm cass., 87k mi., $8,500. Hal, 447-3935.

88 FORD FESTIVA - silver, 35 mpg, m/t, good cond., one owner, good station car, no dents, $1,500 neg. 472-3254.

87 TOYOTA COROLLA LE - 4-dr., a/t, ac 103k mi., runs well, needs work, $2,000 firm. Joe Ext. 2212.

87 TOYOTA COROLLA SR5 - 100k mi., 5-spd., ac, am/fm cass., good cond., moving abroad, $2,400 neg. Ken, Ext. 4514, or Alison, Ext. 4410.

87 PLYMOUTH RELIANT LE - 4-dr., 2.5 eng., ac, a/t, p/b, p/s, 76k mi., clean, one owner, $3,000. Ed, Ext. 4437 or 581-1509.

87 BUICK CENTURY - 4-dr., a/t, ac, 6-cyl., 125k mi. $1,600. John, Ext. 4203.

86 PONTIAC FIERO GT - 4-spd., ac, cruise p/w, $2,100 neg. 928-2708.

86 TOYOTA SR5 - 2-dr., a/t, am/fm, 2-yr. old ac, 47k mi., sporty looking, excel., $3,500 neg. 765-1075.

86 FIREBIRD - T-top, a/t, V-6, ac, runs well, $1,600 neg. 878-1617.

85 SUBARU GL - 4-dr. sedan, 103k mi., 5-spd., p/s, $800 neg. Fulong, Ext. 2333.

85 NISSAN SENTRA - red, reliable but needs work, int. good cond., $600 or best offer. Minette, Ext. 4726.

85 MERCURY WAGON - 9/95 rebuilt eng., excel., $1,400; '81 Lincoln Town Car, 10/94 rebuilt eng., ask. $1,800. Ed, Ext. 4846 or 363-6940 after 5 p.m.

85 RENAULT ENCORE - low mi., 4-spd., runs well, $300 neg. Bill, Ext. 3937 or 286-8195 after 6 p.m.

84 VOLVO WAGON - 4-dr., diesel, m/t, 6-cyl., 68k mi., dependable, 30+ mpg, $1,600. Tony, 298-1932.

84 PONTIAC TRANS AM FIREBIRD - black w/gold trim, 5.0-liter eng., 5-spd., $1,900 neg. Rich, Ext. 5893 or 744-4816.

84 PONTIAC PHOENIX - 2-dr., a/t, ac, p/w, am/fm, 67k mi., good cond., asking $1,200. Juan, Ext. 4077 or 341-1084.

83 HONDA CIVIC WAGON - 5-spd., runs well, exhaust system needs work, $200. Ed., Ext. 3622 or 744-2905.

82 CADILLAC SEDAN DE VILLE - green, cruise, 150k mi., new tires, recently tuned up, runs well, $1,200 neg. Giuseppe, Ext. 5336, or Fleming house, room 39.

81 CORVETTE - side skirts, front spoiler, turbo hood, rear doubler spoiler & louver, new suspension, T-top, center lines, fully loaded. 399-7744.

78 CHEVY BLAZER 4x4 - V-8, mech. sound, body not bad, $1,250. 924-0705.

70 CHEVY JAVELIN 283 - Fuelie heads, Ford 9" rear, turbo 400 trans., good shape, fast. Anthony, 928-8010 after 7 p.m.

30 CADILLAC LASALLE - V-8, 4-dr., dual side mounts, restored, best offer. Ext. 2272 or 732-7634.

CAP - fits Toyota pickup, 6' short bed, red, fiberglass, v.g. cond., $400 neg. Mark, Ext. 7859.

PARTS - Ford, 302 alum. intake manifolds, headers, Mallory electronic distrib. '88 stock 5.0 roller motor, fuel-inj., low mi. Wayne, Ext. 3084.

PARTS - '86 Camaro 2.8, '84 & '86 Blazer S10. Rob, Ext. 7668.

SHOP SERVICE MANUAL - for '93 Chevy S-10 pickup, 3-vol. set, cost $50, selling for $25. Joe, Ext. 2898.

TRANSMISSION - Ford, C-4, fits 289 or 302, $50. John, Ext. 4028.

Furnishings & Appliances

BAR - wicker, $30; washer, Kenmore, $50 or best offer. Tom, 744-4535.

BED - Serta Supreme, full, bed frame, 1½ yr. old, $170; 6-drawer dresser, $15; computer desk, Sander, 1½ yr. old, $70; bookshelf, Sander, $20. Hong, Ext. 5881.

CHAIRS - Ethan Allen, 1 yr. old, Windsor-style, solid cherry, 4 side, orig. $199 ea., now $100 ea.; 2 arm, orig., $249 ea. now $150 ea. Eric, Ext. 5875.

COMPUTER TABLE - white, WorkBench, 40"x24"x31", roll-out shelf, monitor bridge, casters, $75. Doug, 744-1760.

DINETTE - oak, trestle table, 30"x42", 4 chairs, good cond., $75. Ray, 878-1947.

DISHWASHER - Westinghouse, Potscrubber H/D, under counter w/black reversible panels, full control, good cond., $75. Frank, Ext. 2012 or Vita, 277-0464.

DRYER - avocado green, old, good cond., $50. Sam, 399-5083.

ELECTRIC RANGE - Magic Chef, 30" w/range hood, $100; microwave, Whirlpool carousel, new, $50. Tony, 696-3519.

FILE CABINET - 6-drawer, metal, locking, legal, you pick up, $35; IBM Selectric II, needs minor repair, $25. Bill, 878-4356.

HUTCH - large, Colonial, lighted, dark pine, $100. Bruce, Ext. 2188.

KITCHEN SET - table, 4 chairs, excel. cond., $65. John, Ext. 4028.

LIVING ROOM - couch, love seat, chair, good cond., large, comfortable; walnut veneer end table. Sam, Ext. 5376.

LIVING ROOM - sofa, chair, tables, entertainment center, black & glass contemporary, mint cond., moving, must sell. Ext. 2877.

MICROWAVE - Sharp 600W, $20; heater plus fan, 1,500W, $15; ironing board, $5. Sonja, Ext. 1010.

REFRIGERATOR - cube, like new, $65; kerosene heater, Corona, 22k Btu $25. Bill, Ext. 2564.

REFRIGERATOR - G.E., 15 cu. ft., 2-dr., upright, almond, $125; rototiller, Craftsman, 5-h.p., $100; acs, Amana, 6500 Btu, $65 ea. Frank, 567-6419.

WASHER - & gas dryer, Maytag, heavy-duty, stackable, great for small spaces, $1,000 new, asking $400. Henry, Ext. 5725 or 727-7227.

Tools, House & Garden

BURNER - Beckett retention head w/cad. cell & new transformer, $80. 689-9234.

FENCING - cedar 6'x8', sections, new, $12 ea. Ron Ext. 2525 or 286-035 eves. or wknds.

HEATER - kerosene, $25; kitchen sink, s/s, $10. Al, Ext. 5128.

PATIO SET - table, 90"x42", 6 chairs w/cushions, matching umbrella, light fixture, forrest green, pvc, all covers, orig. $2,000, best offer. John, 395-5922.

PATIO chair cushions, 6 ea. $15; bug zapper, never used, $24; chain link fence, black vinyl w/gate, 5', $200. Joan, 751-7023.

POINSETTIA - florist-quality, various sizes, low prices. 727-6818 after 3:30 p.m.

POWER PLANER - & other hand tools. Lou, Ext. 3172.

SHOWER DOOR - $75. Ext. 3974 or 744-6962 eves.

STOVE - Chubby, coal-burning $150. 473-1658 after 5.

TABLE SAW - Craftsman, 10", older model, works well, many extras, $250; toboggan, 4-person, new, used 1 yr., $60. John, Ext. 7313 or 395-5922.

VANITY - bath, 35", Early American, maple w/louvered drs., 2 draws, rose/green, oval sink, brass/wood faucet, $75. Frank, Ext. 2012 or Vita, 277-0464.

Sports, Hobbies & Pets

BICYCLE - Dyno 20", BMX, hardly used, orig. $200, $90 or best offer. Ext. 5080.

BICYCLE - women's 26", 3-spd., Rollfast, excel. cond., $65. 281-6026.

BIKE - girl's, $20; girl's & boy's roller skates or blades $5/pr; girl's ice skates, size 5, $9. Joan, 751-7023.

BIRD CAGE - w/matching rolling stand, suitable for large pets, $25. Joe, Ext. 4567.

CAMERA - 1 yr. old, Nikon N6006 AF w/flash, 2 Sigma 28-70mm & 70-210mm zoom lenses w/hoods, Vivatar AF zoom flash extras, $550 all. Frank, Ext. 2012.

CAT - mature female for adoption, neutered all shots, loving companion for single adult or couple. Ext. 2525 or 286-0353 eves. & wknds.

CLARINET - Alpine, student's model, $175. Tom, 744-4535.

DRUM SET - 5-piece, black, brand-new, Zildjian hi-hat & cymbals, chrome snare, excel. cond., $650. Rich, 758-9875.

ELECTRIC TRAIN- H.O. scale, 5 trains, 1 building, side-tracks, roads, lights, etc. on 4'x8' custom table, excel. cond., $75. Tom, Ext. 4507 or 878-1060.

EXERCISE BIKE - Voit Ergometer, excel., $60; pinball machine, junior size, $20; bumper pool table/set, $60; oak easel, $10. 473-6546.

GOLF CLUBS- metal woods, irons 3-PW, First Flight, new $460, now $220; Schwinn bikes, men's 10-spd., women's 5-spd., $60 ea. Rau, Ext. 3864 or 286-4774.

HORSE - bay gelding, 6 yrs., 15.3 hands, started English, $900. Sherry, 727-6714.

PIANO - ebony spinet, recently tuned, asking $450 neg. 744-6962.

RECORDS - 45 rpm & 78 rpm LPs from '40s to '70s; dolls, Tiny Tear, Betsy Wetsy, Revlon, some doll furniture. Joan, 751-7023.

SKIS - Kastle, 185cm, Sx Slalom, women's, MR2 bindings, used 4xs, $175; ski rack, Barracrafter, holds 4 sets, $35. Randi, Ext. 4043 or 929-4798.

Audio, Video & Computer

AMPLIFIER - Hartke bass, model 3500, 350 watts, 10-band equalizer, excel.cond., $350. Dave, Ext. 5465.

COMPACT DISC - Yamaha, CDX-410U, $100; Code-A-Phone answering machine, $20. Tom, 744-4535.

COMPUTER TABLE - 40"Lx24"W, w/12"W monitor/printer shelf, slide-out keyboard, white, supports & guides for continuous paper feeding, $35. 765-1075.

PRINTERS - Panasonic KX-P1091i; Star NX10, $100/ea. or best offer. Ext. 2272 or 732-7634.

PRINTER - Epson Stylus 800 Ink Jet, asking $150. Rich, 736-1741.

PRINTER - dot-matrix, Star NX1000, hardly used, in box, $100. Ext. 5080.

STEREO - 60-watt Awia, 3-CD changer, $275. 758-3891.

STEREO - Panasonic, AM/FM, record player, repairable dual cassettes, $25, excel. speakers, $25, $45/both. Dina, 325-9231.

SPEAKERS - Infinity SM 122, 3-way, 200 watts, tweeter, mid-range controls, $300; word processor/typewriter, Brother WP1400D, $75. Bob, Ext. 2351.

TV - RCA, 25", cable-ready, remote, closed caption, v.g. cond., $180; loud speakers, 18"x11"x9", pair, $30; tuner & receiver, $30. Sonja, Ext. 1010.

VIDEO - Learning ViewMaster Interactive Vision, 5 VCR tapes & VCR interface, Sesame Street characters, ages 3-7, $50. Randi, Ext. 4043 or 929-4798.

VIDEO GAME - 8-bit, w/adapter, 2 controllers, zapper gun, 6 cartridges, instruction books, $75. A. Romano, Ext. 4024.

VIDEO GAME - deluxe joystick, super NAS controller, 18 games, like new. John, Ext. 7313 or 395-5922.

Miscellaneous

BABY'S WALKER - w/hanging mobile, excel. cond., $15. Ext. 2876 or 345-5365.

CAR RACK - $10; CB radio, $30; women's shearling jacket, med., $75; child's Elan skis, $6. 929-5742.

HIGH CHAIR - Fisher Price, wood, white, w/heart cut-out pads, mint cond., $25. 821-5266.

LUGGAGE - 3 pieces, Samsonite, $25; girl's dressy dresses, velvet & lace, sizes 10-14, $14/ea. Joan, 751-7023.

RING - diamond, 0.45 ct., H color, perfect clarity, appraised $2,800, sell for $1,500. Donna, Ext. 5384.

Free

BABY'S CARRIER - newborn or baby under age 1. Ext. 3702.

DOG - female, named K-9, spayed, shots, 1½ yr. old, shepherd mix, housebroken, good w/kids, good home only. Fred, Ext. 5319.

KITTENS - 4 wks. old, gray/white, black/white, good home please. Joel, Ext. 5988 or 744-1628.

Wanted

CELLO - full-size. JH, Ext. 3889.

COMPUTER HARD DRIVE - for Mac IICX, internal or external. Adele, Ext. 2437.

FLUTE - used or new, moderately priced. Mindy, Ext. 2280.

ICE CREAM MAKER - preferably electric, reasonable. Suzanne, Ext. 7931.

HOUSE TO RENT - North Shore, Eastern LI, about $800/mo., young, professional couple w/pet. Donna, 929-0351.

HOUSEMATE - share new house, private bed/bath, door to outside, use of whole house, dishwasher, cable, etc. 395-0584 eves.

MINI-BIKE - go-carts, motorcyles. 467-1343.

MOTORCYCLE LEATHERS - chaps, gloves, boots, saddlebags, etc., any age, size or cond. Kevin, Ext. 3082 or 281-8031.

PEOPLE TO JOIN - nondenominational Christian fellowship group, every Thurs. at AGS conf. room, Bldg. 911A, noon. Pete, Ext. 3297.

PICCOLO - for 12-yr. old, reasonable. Linda, Ext. 2466 or 981-2086.

SLIDE PROJECTOR - w/auto-focus. Ext. 4341 or 475-4005.

TENOR SAX - for student. 928-5684.

Car Pools

QUEENS - LIE exit 24. Yan, Ext. 3653 or (718) 460-5912.

EXIT 36 - fourth member needed. John, Ext. 5181.

Services

*Services are listed in the first **Bulletin** of every month as a courtesy to BNL employees. They are neither screened nor recommended by the **Bulletin.** Services forms are available in the **Bulletin** lobby, Bldg. 134.*

AUTO CUSTOMIZE - vinyl tops, headliners, convert. tops, sunroof installation, elec. sunroof repair, rugs, some mech. work, brakes. Rob, 395-4521.

BABY-SITTER - young grandma, impeccable references, TLC, infant or children, a.m. or p.m. Jane, 874-4049.

BICYCLE REPAIRS - also many parts & reconditioned bikes for sale. 689-1618.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. exp., Lab disc. Tony, 698-9274.

BUSINESS CARDS - raised lettering, many colors, BNL cards avail., flyers, letterheads & envelopes. Mike, 878-3480.

CAKES - custom-designed, cookies, pies, and much more, for any occasion. Johanna, 924-7922.

CHILD CARE - by licensed, loving mother, impeccable references provided by BNL employees, close to Lab. Robin, 345-0298.

CHILD CARE - CPR/FA certified, 12 yrs. experience. Dina, 325-9231.

CHILD CARE - mature mother of 2 & 5 yr. olds, in Wading River home, very clean, warm environment. Maria, 929-6925.

DJ - music of the 40s through the 90s, for any occasion, Lab discount. Bobby, 467-2790.

DRYWALL INSTALLATION - spackle, tape, renovations, kitchens, baths, doors, windows installed, interior/exterior painting, stain, etc. Scott, 325-0706.

FLOWER ARRANGEMENTS - silk, baskets, wreaths, brooms, ornaments, mistletoe, for Christmas or any occasion. Andrea, 399-4596.

GUTTERS CLEANED - gutter-protection system installed, keeps gutters clean and flowing, guaranteed, free estimates. Lab disc. Henry, 727-7227.

HOME IMPROVEMENTS - extensions, dormers, decks, kitchens, baths, roofing, siding, painted finishes, lic. & ins., refs. John, 286-1348.

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

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

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

LANDSCAPING - free est., grass cut, cleanups, lawn services, etc. Jesus, 286-5403.

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

PAINTING - int./ext., tape, spackle, wallpaper, power wash, stain, natural wood finishes, Sheetrock, ins., refs. James, 399-4912.

PHOTO EDITING - perfect Christmas gift, photographs transfered to coffee mugs, plus an inscription. Lenny, 878-6020.

PIANO TUNING - and repair, reasonable. 298-9560.

SANTA LETTERS - personalized for that special child this Christmas season. Joey, 758-2938.

SKIN CARE & BEAUTY CONSULTANT - nail care, facials, men's line, body care, free first-time facials. Barbara Jean, 929-3235.

TOURS - personalized tours of Washington, DC, and places nearby (Baltimore, Annapolis, etc.) by knowledgeable, licensed tour guide. Tom, (202) 686-6214.

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

In Appreciation

Many thanks to the gentleman who found my green beaded necklace at Berkner Hall. It has great sentimental value, so I am very happy to have gotten it back. — E. Gail de Planque

We thank all our friends for their support and friendship following the loss of our daughter Kim.
— Rolf, Fran & Shawn Rathjens

I thank the RHIC Magnet Division "A" team for their friendship and support during my last three years at the Lab. I wish you all continued success.
— Rodney di Girolamo

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