BROOKHAVEN BULLETIN
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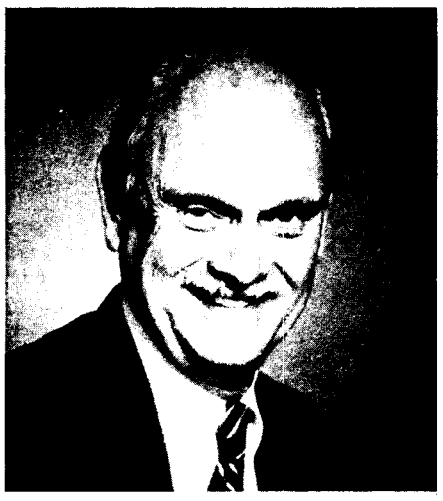
BROOKHAVEN NATIONAL LABORATORY

New Manager on Board at DOE's Brookhaven Area Office

Carson Nealy, a nuclear chemist and former Deputy Director of the New Brunswick Laboratory of the U.S. Department of Energy (DOE), arrived last Monday, August 24, to head DOE's on-site Brookhaven Area Office (BHO).

Within BHO, Nealy and his staff of 34 oversee the day-to-day management and operations of BNL on behalf of DOE. Including BHO, there are five area offices, which look after six different federal labs, that are all under the jurisdiction of DOE's Chicago Field Office (CH). Headed by Acting Manager David Goldman, CH is one of six DOE field offices outside of DOE headquarters in Washington, D.C., that administers contracts for the operation of DOE's national and other labs.

As BHO Manager, Nealy replaces Jerry Bellows, who had left BHO in February 1991 to manage the DOE Los Alamos Area Office. In the interim, BHO was headed by a series of acting managers. The Deputy Area Manager, Frank Crescenzo, was the last Acting Area Manager and had



Carson Nealy

served for the majority of the time that the position was vacant.

"While I've been in management for 20 years, my original interest was research, so I am enthused about coming to a world-class research facility like Brookhaven and working with the good group of people I've found within the area office," says Nealy. "They did an excellent job during the interim and are being very helpful during the transition as I take over the reins. I especially thank Frank Crescenzo, who has been doing the work of several people and doing an outstanding job."

Nealy became interested in the BHO Area Manager position while serving a temporary assignment in the Office of the Under Secretary of Energy, John Tuck. As Field Office Liaison, Nealy prepared and presented a daily operations briefing to the U.S. Secretary of Energy, James Watkins, to keep him up to date on the activities at all of DOE's facilities, including Brookhaven.

Explains Nealy, "As field liaison, I interacted daily with Admiral Watkins, reporting on what was happening in the field, both the good and the bad news, so he could be forewarned of any pending problems. My involvement in the activities out in the field was what interested me in the area office position."

A Background in Research

Carson Nealy received his M.S. and Ph.D. in nuclear-inorganic chemistry from Florida State University in 1963 and 1965, respectively.

After working from 1965 to 1970 as an analytical chemist for the exploration and production research center of the Shell Development Company, Nealy moved to Shell's MTM Research Laboratory. As a research chemist there, he developed methods for analyzing organic vapors found in the atmosphere and trace impurities in refinery gas streams.

In 1972, Nealy joined management by becoming the manager of analytical chemistry within the Energy Systems Group of Rockwell International. His staff performed chemical analyses for research, development and manufacturing quality control in such diverse fields as coal liquefaction and gasification, environmental monitoring and hazardous-waste disposal, and uranium and plutonium nuclear-fuel production.

Nealy transferred to the Rocketdyne Division of Rockwell in 1984. There, he served as a member of the

(continued on page 2)

BNL Lecture: Lyme Disease — A Macro Look at a Micro Cause

Aching joints, continual tiredness with or without a bull's-eye rash — these symptoms, nowadays, send Long Islanders hurrying to be tested for Lyme disease.

Yet about ten years ago, the disease was hardly known. And, as few as four years ago, no information was available on DNA sequences of *Borrelia burgdorferi*, the corkscrew-shaped bacterium called a spirochete that causes Lyme.

One of the scientists whose research has improved this situation is Senior Microbiologist John Dunn, Biology Department. He will discuss his findings when he delivers the 280th Brookhaven Lecture — the first for the 1992-93 season — at 4 p.m. on Wednesday, September 16, in Berkner Hall. His talk on "Lyme Disease — A Macro Look at a Micro Cause" will be introduced by Biology Chairman William Studier.

Lyme disease is transmitted to humans by the bite of *Ixodes dammini* — the deer tick, which itself becomes infected with the Lyme-disease bacterium by biting a white-footed mouse. Nervous system disorders and severe arthritis can result from the disease, which is usually treatable by antibiotics. However, it is hard to diagnose, making treatment extremely difficult.

Recent research shows that one reason for the difficulty in diagnosis is that the spirochete exists in a body in very small numbers. Blood tests can, therefore, show as false-negatives or false-positives. Also, certain harmful effects of the disease are not so much the result of the spirochete's presence, but more of the extraordinary number of white blood cells that cluster to attack it, hindering normal body functioning.

Such little-known facts about the disease, along with a review of the present state of diagnostics and approved therapies, will all be part of Dunn's general overview of this topic. He will also talk about why the disease is such an apparently recent discovery, although the DNA of the spirochete has now been found in 40-year-old ticks in a Long Island museum.

From the microbiologist's viewpoint, Dunn and his colleagues consider this bacterium of particular interest because it has a small (maxi) genome, making it a model of what could be the minimum components for making make a living cell. Dunn will outline certain of his research objectives, which include identifying and characterizing proteins that are important in the immunological response to *Borrelia*, as well as defining, in molecular terms, the structure, function and regulation of genes that may be involved in the pathogenesis of Lyme disease.

Some of the current studies with collaborators at the State University of New York at Stony Brook and elsewhere that focus on improving Lyme diagnostics will also be a feature of the talk, along with a review of ongoing work at BNL's National Synchrotron Light Source, probing the properties of *Borrelia* proteins. Dunn will conclude by discussing the status of research aimed at developing an effective vaccine against Lyme disease.

After receiving his Ph.D. in microbiology from Rutgers University in 1970 and doing two years of postdoctoral research at the University of Heidelberg, John Dunn joined BNL's Biology Department in 1972 as an assistant microbiologist. He was promoted to associate microbiologist in July 1974, received tenure and was named scientist in July 1977, and attained his present title in May 1988.

Dunn's accomplishments were recognized by the U.S. Department of Energy in 1984, with the Ernest Orlando Lawrence Memorial Award. In 1991, he was among the first recipients of BNL's Distinguished Research & Development Award, and this May, he received an honorary Doctor of Science degree from Long Island University's Southampton campus.

After the lecture, those attending are invited to join the speaker for discussion and refreshments. To join the lecturer for dinner at a restaurant off site, call Kathy Folkers, Ext. 3415.

John Dunn reviews slides for his lecture on Lyme disease.

Photos in this issue by Roger Stoutenburgh.

1992-93 Brookhaven Lectures

As a multiprogram national laboratory, BNL research covers many diverse areas — and staffers working in one area may have little opportunity to learn firsthand what is happening in another.

The Brookhaven Lecture Series provides such an opportunity. Founded in 1960, the series is currently overseen by the Brookhaven Lecture Committee, whose chairman is now Graham Smith, Instrumentation Division, with Martin Woodle, National Synchrotron Light Source (NSLS) Department, serving as secretary.

Brookhaven Lectures are usually held once a month, on a Wednesday at 4 p.m. The following talks are scheduled for the remainder of the 1992-93 series:

Date	Speaker	Subject
Oct. 22*	Leonard Hamilton, DAS	Realistic Risk Assessment
Nov. 18	Garman Harbottle, Chemistry	Pre-Columbian Turquoise Trail
Dec. 16	Per Bak, Physics	Self-Organized Criticality
Jan. 27	George Hendrey, DAS	Role of Terrestrial Vegetation in Regulating Atmospheric CO_2
Feb. 10	James Powell, DNE	Particle-Bed Nuclear Rocket
Mar. 10	Sam Krinsky, NSLS	Accelerator Development at the NSLS
Apr. 14	Howard Gordon, Physics	The D-Zero Experiment at Fermilab
May 12	Speaker to be announced.	
June 16	Speaker to be announced.	

**Please note Thursday date.*

All Brookhaven Lectures are recorded on audio and videotape, which employees may borrow from the Research Library, Bldg. 477.

Area Manager (cont'd)

technical staff, undertaking projects in nuclear and analytical chemistry. These included setting up a test coal burner that produced reduced levels of nitrous oxides and sulfur dioxide, and establishing a lab for the analysis of high-purity gases and rocket propellants for the L-SAT Olympus program in Italy.

In August 1987, Nealy came to DOE as a senior technical assistant to the Director of New Brunswick Laboratory (NBL), which is located on the site of Argonne National Laboratory but directly managed by CH. By June 1989, he had been promoted to Deputy Directory.

As the lab for DOE's Office of Safeguards & Security, NBL not only provides certified nuclear reference materials used for reference measurements throughout the country, but it also provides DOE and the Nuclear Regulatory Commission with technical assistance in assessing nuclear-material control and accountability practices. As NBL Deputy Director, Nealy served as a troubleshooter, going out into the field to work out any problems arising from nuclear-materials inspections.

Getting to Know BNL

"I manage more by wandering around and kicking the tires than by sitting behind a desk, so I try to not let the paperwork inundate me," comments Nealy. "I hope to get to know Brookhaven well that way."

While not part of DOE's negotiating team, Nealy will keep abreast of the progress of DOE's contract renewal with Associated Universities, Inc. (AUI). First effective on January 1, 1947, the prime contract authorizes AUI to manage BNL for DOE. In overseeing BNL's operations and management, the BHO effectively monitors AUI's adherence to that contract. The present contract is up on December 31.

An area of ongoing concern for Nealy will be BNL's adherence to all applicable environment, safety and health (ES&H) regulations. "Justifiably so, the Admiral has placed an increased emphasis on ES&H, but he understands that we cannot spend all of our time enamoured of procedures. He expects compliance to go hand in hand with the quality research that this country needs to move us forward in this technological world."

With a background in basic research, Nealy knows firsthand that transferring technology from Brookhaven to private industry is more labor-intensive than technology transfer from the national engineering labs and other facilities that do more applied research.

"Despite the difficulty, BNL does a good job in transferring the commercially viable technology developed on site," says Nealy. "One thing I will not lose sight of is that BNL's user facilities such as the National Synchrotron Light Source are the Lab's biggest resource in terms of moving its research out of the laboratory and into the marketplace."

As for RHIC, BNL's Relativistic Heavy Ion Collider now under construction and due to come on line in 1997, "I have an excellent project manager, James Yeck, assigned to RHIC, and I will work to make sure that it is completed on schedule and within budget," concludes Nealy.

While looking for a home in the neighborhood, Carson Nealy and his wife Sara are living on site in the Brookhaven House. At the BHO, Nealy can be reached at Ext. 3424.

— Marsha Belford

Learn to Swing and Cha-Cha in Brookhaven's Ballroom

To watch the instructor of the BNL Ballroom, Latin & Swing Dance Club perform, you would never believe that Giny James was ever a wallflower.

At last year's U.S. Ballroom Dance Championships, James and her partner Mark James became the reigning cabaret dance champions in the "rising star" new professional dancers category.

Choreographed with a mix of balletic grace and graceful athleticism complete with lifts, their stylistic interpretation of "Unchained Melody" has been seen nationwide, on the television program "An Evening of Championship Ballroom Dancing," first aired this February.

"Believe it or not, I too was a wallflower," admits Giny James, "so I really know what it is like to come to the first class with two left feet, no confidence and no background in dance whatsoever."

Instructor Giny James tangos with BNL Dance Club member Gene Kaplan.

She continues, "At first, you start out slowly and do not retain a step, but after four or five hours of classes, you look around and suddenly realize that you're dancing. Once you've made that breakthrough, there's a snowball effect, so you learn faster with each class."

James introduced club members to the first steps of the most popular ballroom, Latin and swing dances during their first series of lessons last spring. Beginning September 9, James will be back at the North Ballroom of the Brookhaven Center on Wednesdays from 5:15 to 6:30 p.m., teaching swing and cha-cha over six weeks for beginners.

Progressing through the club's favorite dances, James will then lead members through the steps of the fox-trot and mambo in November and December, waltz and merengue in January and February, tango and two-step in March and April, and hustle and rumba in May and June, before breaking for the summer.

"By starting this club last spring, not only did we get off on the right foot in dancing, but we also got to know 42 very nice people right here on site whom we might never have met otherwise," comments club president Walter Loss. "An added social benefit of joining the club is that you lose your inhibitions and gain self-confidence as you become a competent dancer — and that sense of confidence is carried with you off the dance floor."

Anything Goes — In Interpretive Dance

In 1981, a magazine article on the ballroom championships first got Giny James and Mark James on the dance floor to pursue the interpretive style of ballroom dancing known as theater arts or cabaret.

"We were looking for a hobby to do together — and it became our lives," explains Giny James.

In addition to cabaret dance, the partners dance the cha-cha, rumba, sambo, paso doble and jive in international Latin competition.

"In interpretative dance, anything goes, from ballet to ballroom, so each routine we create is unique. International Latin is much more structured, but much more showy," explains James, whose favorite dance is the rumba.

Teaching the Box Step

Affiliated with the Dance Elektra studio in Centereach, James has taught and performed professionally for the past five years. She is registered with the National Dance Council of America and a member of Dance Educators of America, the American-style syllabus of which she follows when teaching.

During club classes, James walks through first the men's, then the women's steps, with the respective club members marching, not necessarily in step at first, behind her. After everyone including James takes a partner, she drills the couples through each move before asking them to switch partners to attempt the dance to the music.

From lesson to lesson, James builds on the dance's basic step and simple moves to create a routine, which then can be varied.

James' favorite step to teach is the box, "because it gets everyone up on the dance floor the quickest for four dances, the waltz, fox-trot, mambo and rumba.

"My goal is to help everyone become a better dancer, no matter where they start," adds James. "Like any professional teacher, I don't compare my students to each other and I ask them not to compare themselves to anyone but themselves. And I enjoy witnessing the progress that everyone makes from the first class to the last."

— Marsha Belford

Those interested in joining the BNL Ballroom, Latin & Swing Dance Club for its six-week series of classes on swing and cha-cha beginning Wednesday, September 9, should call club president Walter Loss, Ext. 3086, or vice president Marsha Belford, Ext. 5053. The cost is $15 per person, in checks payable to the club.

Summary of FEW Conference By a Few From BWIS & PSI

Five BNL women were among about 3,000 participants at the 23rd National Training Program sponsored by the organization Federally Employed Women and held in Cincinnati this July. Shown here are: (from left) Victoria McLane, Department of Nuclear Energy (DNE); Jane Hodgkinson, DNE; Barbara Schmidt, Personnel Division; and Sandi Lane, DNE. Also representing BNL was Frances Ligon, Office of Equal Opportunity.

The annual program offers attendees the opportunity to learn about career planning and development techniques, and about issues that affect women. The conference offered many stimulating workshops, and, to share some of their new information with the Lab community, three of the participants will report on the conference at a joint meeting of Brookhaven Women in Science (BWIS) and of the Upton Chapter of Professional Secretaries International (PSI), on Monday, September 14, at 6 p.m., in the south room of the Brookhaven Center.

The panel will include Hodgkinson, representing PSI; Lane, who chairs the Affirmative Action Advisory Committee to the Director; and McLane, representing BWIS. Their presentation will be preceded by the election of BWIS officers and followed by a PSI program on fitness and walking, to be given by Joann Giambalvo, a training specialist in the Safeguards & Security Division. All are invited to attend.

New Hours & More At the Sales Office

Effective Tuesday, September 8, the BERA Sales Office in Berkner Hall will open weekdays at 9 a.m. and close at 1:30 p.m.

Even though the hours will be shortened by 30 minutes, there will still be plenty of time to stop by for the following items:

- **Metropolitan Opera tickets** for the 1992-93 season.
- **Discount tickets** for Great Adventure, at almost $8 off the gate price and now including an end-of-season free ticket offer; Disney World, Epcot Center, Disneyland, MGM and local Disney stores; United Artist movie theaters; and Sesame Place, Hershey Park, Busch Gardens, Cypress Gardens, Sea World and Universal Studios.
- **Other discounts** including twofers to some Broadway shows, Wholesale Club information and more.
- **Merchandise** such as photo-processing services, greeting cards, Long Island postcards, mylar balloons, and BNL T-shirts, sweatshirts, postcards, mugs and buttons.
- **BERA participation awards** — the office is the official redemption center.

For more information, call Carolann Zebrowski, Ext. 3347.

Att: Tennis Buffs Taking Tennis Bus

Anyone going on the Tennis Committee's bus trip to the U.S. Open Tennis Championship on Tuesday, September 8, must meet the bus at the BNL tennis courts. The bus will leave the Lab at 8:30 a.m. and make one stop at the park & ride at LIE Exit 63. Departure from the National Tennis Center will be at 7 p.m.

Cafeteria Menu

Luncheons

Monday, September 7 - Labor Day	
Snack bar service - 9 a.m. to 2 p.m.	
Tuesday, September 8	
Soup: Beef barley	.80/1.10
Entree: Shepherd's pie	3.20
Fitness: Vegetable lasagna	3.45
Carvery: Hot roast beef sandwich	2.95
Grill: Chicken breast on croissant	3.20
Wednesday, September 9	
Soup: French onion	.80/1.10
Entree: Chicken Parmesan	3.35
Fitness: Baked fish amandine	3.45
Carvery: Hot baked ham sandwich	2.95
Grill: Beef kabobs	3.35
Thursday, September 10	
Soup: Cream of potato	.80/1.10
Entree: Beef vegetable stew	3.35
Fitness: Sweet & sour pork	3.35
Carvery: Corned beef sandwich	2.95
Grill: Philly cheese steak	2.95
Special: Italian cold-cut sub by-the-inch	
Friday, September 11	
Soup: New England clam chowder	.80/1.10
Entree: Shrimp Creole w/rice	3.45
Fitness: Baked chicken	3.35
Carvery: Turkey sandwich	2.95
Grill: Tuna steak	3.35

Arrivals & Departures

Arrivals

John E. Carlson.....AGS
Russel P. Kauffman.....Physics
Stephen G. Peggs.....Accel. Dev.
Wade N. Sisk.....Chemistry

Departures

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

Lillian A. Schweikert.....Staff Serv.
Rudolph M. Sternheimer.....Physics
Janene L. VanDeroef.....S&EP

BROOKHAVEN BULLETIN

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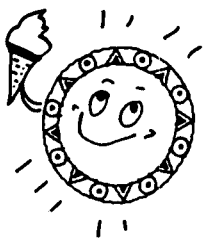
ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

35 Brookhaven Ave., Upton, N.Y. 11973
(516) 282-2345

Ticket Sales *E-x-t-e-n-d-e-d*

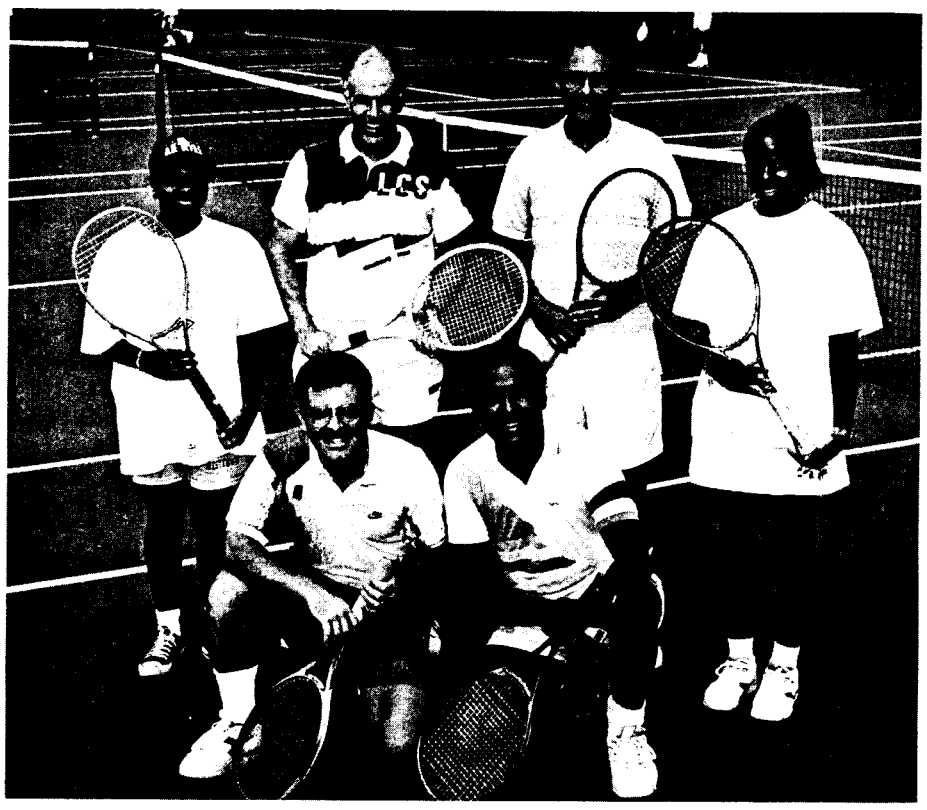


Since many employees still want to buy tickets for BNL's 45th Anniversary Family Picnic, to be held, rain or shine, on Saturday, September 19, the last day for ticket sales has been extended to Monday, September 14. Buy now, as positively NO tickets will be sold at the gate.

Tickets are $3, free for children under three, and include unlimited soda, beer, popcorn, ices, ice cream, a parade, face painting, magic, games, contests, D.J., dancing, cotton candy, as well as volleyball, softball — and a challenge to all comers to beat Derek's Devils, the champion team from the AGS that won the last BNL Picnic's Fun Olympics!

Bring your own food or buy hot dogs, hamburgers, etc. Tickets are on sale at the BERA Sales Office at Berkner Hall, Ext. 3347; and from Michelle Cummings, Ext. 2077; Renee Flack, Ext. 3316; Liz Mogavero, Ext. 3940; Betty Pergan, Ext. 2937; and Rosalie Piccione, Ext. 3160. Sign up for the Fun Olympics with Mogavero, Bldg. 510A, or Pergan, Bldg. 179A.

Tennis Champs



The U.S. Open is still in full swing, but BNL's tennis tournament season ended last month, with these 1992 champions: Diana Mathabane (back, left) successfully defended her women's singles title, taking that honor for the second year in a row. She also teamed with her sister Linah Mathabane (back, right) to win the women's doubles title, and with Joe Carbonaro (kneeling, left) to take the mixed doubles championship. Victor in the men's singles contest was Steve Shapiro (back, second from left) who claimed the title for the third time, after wins in 1990 and 1984. Peter Vanier (back, second from right) and Om Singh (kneeling, right) were the winners in men's doubles for the third consecutive year.

Volleyball

The first Volleyball League captains' meeting will be held on Wednesday, September 16, at noon, in the Biology conference room, Room 151, on the lower level of Bldg. 463.

Captains or a team representative must attend. Rosters will be sent to last year's captains. Rosters will not be accepted after this meeting.

Anyone interested in playing who is not already on a roster may contact either Terry Sullivan, Ext. 2840, or Nancy Sherlock, Ext. 4440.

Touch Football

The BERA Touch Football League will begin its six-week season on Monday, September 14, with games on Mondays and Thursdays at 5:20 p.m., at the softball fields. These refereed games of one-hand touch are spirited and a lot of fun.

The Football League is interested in new players or complete teams eager to participate. To get involved or for more information, call either Fran Loeb, Ext. 2092, or Wayne Rambo, Ext. 2284.

Generous Response

On August 19, 18-year-old Valerie Bridgett, a high school trainee clerk in the Fiscal Division, died after an automobile accident at the intersection of Longwood Road and William Floyd Parkway. The accident also claimed the lives of her aunt, Lucy Deweese, and cousin, Evangeline Chadwick.

Following this tragedy, Fiscal's April Donegain spearheaded a collection drive to help defray the family's funeral expenses. The Labwide response resulted in donations that totaled $2,500.

Donegain thanked the entire Lab community "for your generosity and kindness. Your cooperation and willingness to give freely generated a warm aura throughout the Fiscal Division where Valerie worked. It's good to know that BNL is full of caring souls. The family sends its sincere appreciation to all of you for your support and generosity."

Archery Club

The Archery Club will meet on Thursday, September 10, at noon, in the seminar room lounge of Physics, Bldg. 510. New members are welcome. For information, call Bill Schoenig, Ext. 2377.

Sign Up For Stretch Or Aerobic Dance

It's September — time to think about getting back to class — with the Aerobic Dance Club. Instructor Pat Flood will lead the classes on the fall program:

- **Stretch** — Classes involve a choreographed program of exercises that concentrate on stretching and strengthening muscle groups.
- **Aerobic Dance** — Classes emphasize cardiovascular improvement through vigorous, choreographed exercise.

Classes in aerobic dance will be held on Tuesdays and Thursdays, while stretch classes will be held on Mondays. All classes run from 5:15 to 6:15 p.m. Participants may take any or all of these classes. Mats are recommended for floor exercises. The fee for each ten-week session (M, T or Th) is $30, payable at registration, preceding the first classes:

- **Stretch** — Monday, September 14, at Physics, Bldg. 510.
- **Aerobic Dance** — Tuesday, September 15, and Thursday, September 17, at the Recreation Building in the apartment area.

For more information, call Pat Flood, Ext. 4853 a.m., or Ext. 5070, p.m.; or Janet Sillas, Ext. 2345.

Hospitality News

On Tuesday, September 8, the Hospitality Committee will hold a potluck luncheon at 11 a.m. in the playground in the apartment area, or, if it's raining, in the lounge of the Recreation Building.

Employees' spouses and guests are welcome, and those attending are asked to bring a covered dish, such as a casserole or a vegetable, to be shared by all. For newcomers to the area, this is a good chance to meet the neighbors, so come and bring the children.

Atlantic City Trip

The next BERA-sponsored, one-day trip will be to Trump Castle Hotel and Casino on the Marina in Atlantic City, on Saturday, October 10. The initial cost will be $20, but the hotel-casino will give a $10 coin return, choice of either $5 towards food or an additional $2.50 in coin, and a $5 deferred-return voucher.

Tickets are on sale now at the BERA Sales Office. The bus will leave the Brookhaven Center promptly at 9 a.m. with an extra pickup at LIE Exit 63, if necessary. Return will be about 11:45 p.m.

For information, call Carolann Zebrowski, Ext. 3347; Rosalie Piccione, Ext. 3160; or Kay Dellimore, Ext. 2873.

Renovations At the Library

The Research Library, Bldg. 477, is being remodeled to provide space for more journals and books, and for a quiet study area. Though the library will remain open on its regular schedule, access to some materials will be restricted in September, as the new shelving is installed. Until the periodical room is completed, current journals will be displayed on tables outside the Technical Information Division offices. Library users may ask at the front desk for assistance in locating materials.

Holiday Notes

The Lab will be closed on Monday, September 7, for the Labor Day holiday, and the following schedules will be in effect:

Food Services

- **Cafeteria** — The snack bar will be open from 9 a.m. to 2 p.m. on Saturday, Sunday and Monday, September 5-7.
- **Brookhaven Center** — The Tap Room will be closed Sunday and reopen from 5-9 p.m. on Monday.
- **Vended Food Service, Bldg. 912** — Will be in operation during the weekend.

Recreation Facilities

The gymnasium and the pool will be closed throughout the weekend and reopen on Tuesday, September 8.

- **Gym** — For general activities, weekday hours are 11 a.m. to 2 p.m. and 5 to 9 p.m. Saturday hours at the gym — from 9 a.m. to 6 p.m. — will resume on September 12.
- **Pool** — Weekdays, for employees only, 11 a.m. to 1:30 p.m.; reserved for speed swimming and training, 1:30 to 2 p.m.; and open to employees, families and guests, 5 to 9 p.m. Weekends, for employees, families and guests from 1 to 5 p.m.

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.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

NS 0174. SUPERVISORY POSITION, MECHANICAL DESIGN & CONSTRUCTION - Requires BSME and substantial experience in the facility-construction field as a mechanical design engineer. An advanced degree and PE license are highly desirable, as is previous field construction and/or supervisory experience. Will be responsible for all work generated in and assigned to the Mechanical Design Group and coordinating/interfacing with other design groups within Division as well as with outside A/E firms. Plant Engineering Division.

DD 2344. SECRETARIAL POSITION - Requires AAS in secretarial science, previous relevant experience and excellent communication skills. In addition, extensive knowledge of Laboratory policies and procedures, as well as word-processing experience required; WordPerfect 5.1 desired. Will perform highly skilled and complex secretarial functions, including preparing technical reports and handling administrative paperwork, correspondence and travel arrangements. Will provide administrative assistance to technical program manager in the area of waste management. Department of Nuclear Energy.

Motor Vehicles & Supplies

92 KAWASAKI ES 500 - 3.7k mi., excel. cond., $3,000. John, 588-0910.

91 TOYOTA TERCEL - 5-spd., ac, tape deck, blue, $7,599. W. Loss, Ext. 3086.

89 PONTIAC GRAN PRIX - 2-dr., gray, a/t, ac, 60k mi., $6,500 firm. Pat, Ext. 2539.

89 COLEMAN POP-UP CAMPER - tub & shower, hot water, refrig., heater, awning, queen bed, must see, $5,000. 474-3080.

89 CHEVY CAVALIER - 4-cyl., loaded, A-1 cond. body & mech., economy plus style & reliability, orig. owner, $4,950. P. Fish, Ext. 5320.

89 GEO METRO - 5-spd., 4-dr., red, ac, am/fm, 82k mi., $2,995. Joe, Ext. 2898 or Pager 0925.

89 HONDA ACCORD LXI - 45k mi., 5-spd., excel. cond, $9,950. Ext. 7009 or 689-7963.

88 DODGE COLT - 4-spd., ac, 40k mi., good cond., asking $2,400. Mark, 867-4744.

88 ISUZU 4x4 - 42k mi., 5-spd., white w/blue int., $7,500 or best offer. Bob, Ext. 7267.

88 KX 250 DIRT BIKE - runs well, looks great, must sell, $1,000. Ken, 473-7460.

88 HONDA ACCORD LXI - h/b, a/t, p/s, p/b, ac, stereo cass., cruise, sunroof, 55k mi., excel. cond. Kathy, Ext. 5312.

87 TOYOTA MR2 - T-top, a/t, ac, p/s, p/b, cruise, am/fm stereo cass., excel. cond., many extras, $6,800 neg. Ext. 5922 or 475-2870.

87 VW JETTA - a/t, 55k mi., needs work, must sell, $900 or best offer. Ext. 3983.

86 BUICK SKYHAWK - 2-dr., black, p/s, p/b, am/fm stereo cass., ac, new battery, good cond., asking $2,350. Mike, Ext. 3981.

86 PLYMOUTH VOYAGER - 2.6 liters, a/t, am/fm, ac, 80k mi., v.g. cond. Ext. 2420/1025.

86 JEEP WAGONEER LTD - loaded, p/everything, 100k mi., excel. cond., asking $5,675. Henry, Ext. 5214 or 727-7227.

86 PLYMOUTH VOYAGER - 83k mi., p/s, p/b, ac, am/fm cass., excel. cond., $5,200. Bob, Ext. 2309 or 821-3306 eves.

85 LTD COUNTRY SQUIRE - 9-pass., full power, excel cond., everything works, even the clock, 100k mi., $2,795. Bill, 874-8622.

85 FORD RANGER PICKUP - w/cap, 1 owner, 54k mi., good cond., moving, $3,900. 878-6637.

85 JEEP CJ7 - 6-cyl., p/s, 63k mi., new tires & summer & winter tops, excel. cond., $5,500 neg. 878-6729 after 4:30 p.m.

85 CAPRI - rare, 5.0, looks like Mustang GT, black, T-top, a/t, ac, all power, loaded, must see, $4,500. Sharon, Ext. 2517 or 698-2798.

84 FORD TRUCK - 4wd, ¾-ton, excel. cond. Ext. 4251 or 475-4199.

84 DODGE OMNI - needs clutch, good for parts, 5 Goodyear tires, extras. $150. Ext. 3983/1039.

84 MAZDA B2000 PICKUP - w/cap, 82.6k mi., new tires, battery, am/fm cass., 24 mpg, runs well, $2,000. Joann, Ext. 5671 or 472-6742.

84 HONDA CIVIC - 130k mi., some new parts, runs well, Chris, Ext. 4537 or 929-0847 after 8 p.m.

83 HONDA ACCORD - 5-spd., 4-dr., ac, p/s, p/b, am/fm cass., cruise, new brakes, $900 neg. Ching, Ext. 3663 or 474-3845.

81 TOYOTA COROLLA - h/b, 5-spd., high mi., very reliable, $1,000 neg. Siggy, Ext. 4360 or 751-5050.

80 CHEVETTE - h/b, 2-dr. sedan, 127k mi., a/t, ac, am/fm/stereo/tape, good brakes & m/s tires, new timing belt, $650. Ext. 3061 or 751-0894.

79 MONTE CARLO SS - V-8, rebuilt eng., $700. Ext. 2175 or 231-4613 after 5 p.m.

78 TOYOTA COROLLA - am/fm stereo cass., new brakes & tires, runs very well, $600. Ext. 4518.

74 MERCURY COMET - 1 owner, 40k orig. mi., $750. Bill, Ext. 3512 or 473-3171.

74 CHRYSLER - s/w, a/t, ac, p/w, make offer. Tony, 698-9274.

71 GMC VAN - heavy-duty, 35 series, 350 V-8, 8-lug axle, needs brake line repair, $200. Bill, 924-5505.

CHEVY 454 BIG BLOCK - disassembled, new cam, good project motor, $600. Edward, 661-9155.

CAP - A.R.E., alum. w/ladder rack, side opening door w/tool bins, rear opening glass door, black, Mazda, etc., excel. cond. Mike, Ext. 3981.

RADIATOR - '82-'87 Camaro, V-8, used, for a/t, excel. cond., $35. Tom, Ext. 4507 or 878-1060.

RUNNING BOARDS - Dee-Zee, aluminum, never used, 67" long, orig. $180, asking $90. Chris, Ext. 2022 or 395-6112.

TAILLIGHT - Ford Ranger pickup, new, $20. Ray, 727-3608.

Boats & Marine Supplies

26' PENN-YAN - tunnel drive, $2,500. Terry, 473-8426.

22' MARSHALL CATBOAT - freshwater-cooled Yanmar diesel, VHF radio, depth sounder, Danforth compass, head. Gordon, 477-2269.

21' RENKEN - 1980, cuddy cabin, port-a-potty, Volvo eng., fish finder, etc., best offer. 878-5825.

19' 4-WINNS - 1987, cuddy, 190-h.p. FWC Mercruiser, full canvas, $7,000. Michael, Ext. 2081 or 878-9384.

12' CATAMARAN SEA MOTH - floats OK, trailer needs some work, $50. Alastair, Ext. 5334.

MOTOR - 1989, 48-h.p. Evinrude Special, used 2 seasons, $1,200. Edward, 661-9155.

Furnishings & Appliances

COMFORTER SET - full/queen, w/bedruffle, 2 standard pillow shams, excel. cond., $35; 2 throw pillows, $5/both. Angela, Ext. 7321.

COUCH - convertible, queen-size bed, two-tone tan. Henck, 281-6263.

CRIB - solid oak, w/mattress, excel. cond., $150; stroller, $30; small bicycle w/training wheels, for toddler, $15. Sharon, 924-5505.

DISHES - porcelain china, service for 4 or 8, pastel flower design, brand-new, never used, $30/four, $60/eight. Ext. 5922 or 475-2870.

ELECTRIC RANGE - 30", excel. cond., 30-gallon electric hot water heater, good cond., $150/both. 654-0812.

FOOD PROCESSOR - Moulinex Regal La Machine, brand-new, never used. 475-0373.

MOVING SALE - many small items, small appliances; Oriental carpet, 10'x12', gray, $75; drapes; curtains, more. Antoinette, 874-2340.

OVEN - Farberware convection, 13¼"D x 20½L x 14"H, contin. cleaning, holds 18 lb. turkey, timer, auto, used twice, 2 racks, $75. 475-7257.

REFRIGERATOR - GE, 13.5 cu. ft., 64"x30"x26", brown, $100. 281-7844 eves.

SOFA BED - & matching sofa, asking $175. Don, Ext. 5439 or 366-3878.

SOFA & LOVESEAT - camelback, beige background w/floral design, excel. cond., $500/both. Mike, Ext. 7772 or 399-7907 after 6 p.m.

TABLES - 2 end & coffee table, solid oak, $100/ea.; chrome and glass etagere, $25. Tom, Ext. 7287.

VACUUM CLEANER - Dirt Devil, portable, w/attachments, like new, $35. 924-8558.

Tools, House & Garden

MAPLE TREES - Japanese red, $10-$45+; well pump, 1½ h.p., FW, 3 stage, $75; Deming shallow well pump, ¾ h.p., $75. 265-6542 after 6 p.m.

WHITE PINES - white spruces, up to 5' high, $2/foot. John, 744-5867.

Sports, Hobbies & Pets

BICYCLES - 10-spd., 26", Ross, girl's, blue, good cond., $40; 3-spd., 26", Schwinn, girl's, red, $25. Ext. 2679 or 472-6922.

BIKE - 18-spd., excel. cond., make offer. Henck, 281-6263.

BIRD CAGE - lg. bird bath, feeders, toys, removable tray, orig. $80, sell for $25. Gary, Ext. 5903.

CAMERA - child's camera, 35mm, Vivitar, never used, $15; computer zoom, auto electronic flash for all 35mm cameras, $20. Angela, Ext. 7321.

DRUMS - 5-piece set, Samson, hardware, Sabian high hat, 20"" ride cymbals, $175. Paul, 735-3290.

EXERCISE BIKE - Vitamaster 88C, w/electronic monitor, flywheel-type, hardly used, orig. $150, sell for $75. Latham, 289-1883.

FERRETS - w/cage, extras, great w/kids; Nikon FB camera w/70-200 telephoto zoom lens, also 28-70mm lens, $475 firm. 924-8558 after 5 p.m.

GOLF CART - $9; 5 wooden milk crates, $10/all; Surdiac coal stove, self-feeding, high Btu output, excel., $200; plow, $100. 878-6637.

GOLF CLUBS - Lynx radials, 3-PW, $100; metal woods, Imit Taylors, 1, 3, 5, $100; metal closed face, 1, 3, 5. $100. Hank, Ext. 3894.

ROWING EXERCISER - DP300 body tone. Bill, Ext. 3512 or 473-3171.

TRUMPET - excel. cond., used 2 yrs., w/case, cleaned, maintained, $160. 924-8558 after 6 p.m.

Audio, Video & Computer

CD PLAYER - Sony CDP-C705, 2-20 kHz, 5-disc carousel, 8x oversampling, 18 bit D/a, fade, peak search, $250. Hans, Ext. 4584 or 981-3365.

CD PLAYER - Technics, 6 disc, SL-P406C, hardly used, great cond., $125. Rick, Ext. 3932.

COMPUTER - Commodore 128, 1571 disc drive, Thomson monitor, Epson LX80 printer, software, $325. Bill, Ext. 3512 or 473-3171.

COMPUTER - Commodore 64, 2 1541 disc drives, 1702 color monitor, Okidata 120 printer, lots of software, $325. Jack, Ext. 7869.

COMPUTER - XT compatible, EGA color monitor, one 5¼" disc drive, mouse, 32 MB hard drive, Panasonic dot matrix printer. Steven, Ext. 5694.

COMPUTER - XT, 640k RAM, 10 MHz, 2 floppy disc drives, graphics card, dot matrix printer. 473-2473.

COMPUTER - Apple II GS, two 3½" disk drives, one 5¼" drive, RGB monitor, 1.2.5 MB ram, color printer, software, more, $850. Gary, Ext. 5903.

ELECTRONIC TYPEWRITER - Smith Corona, reasonable. 363-7032.

LP RECORDS - *Great Men of Music*, Franklin Mint collection, practically new. Janet, Ext. 2345 or 929-3910.

RECORDER - reel-to-reel, Concord, good cond., as is, $30. 924-8558 after 5 p.m.

STEREO - Sony 75W receiver, turntable, CD, cass., stereo beta VCR, full remote, $600. 472-4133.

VCR - Panasonic; hanging picture w/frame, $10; coffee table, $15. Angela, Ext. 7321.

VIDEO GAME - Sonic, for Game Gear, new, $20. Ext. 2679 or 472-6922.

Miscellaneous

BOOKS - a house full, Harlequin, Silhouette, mysteries, romances, 25¢/ea. Ext. 5142 or 281-8168.

BOOKCASES - $20; foot massager, $20; TV, $20; VCR storage box, $10; redwood table, $20; exercise bike, $20. Kathy, 744-2203.

OPERA TICKETS - 2, Met, *L'Elisir D'Amore*, Kathleen Battle, Sat. matinee, 12/5, rear orchestra, $60/ea. Joyce, 289-5770 after 6 p.m.

RAFTING TRIP TICKET - 9/11-13, Gauley river, W. Virginia, incl. hotel, bus, rafting, you drive, $138. Sue, Ext. 3492, or Ken, Ext. 4514.

TAP SHOES - girl's size 11, 12, 13½ and 2, $6/pair. Ken, Ext. 7915 or 744-0722.

Free

CAT - 12-yr.-old female, spayed, declawed, needs loving home w/o children or other pets. Henry, 727-7227.

DOUBLE OVEN - G.E., very good cond. 281-7935 eves.

KITTEN - red, approx. 8 weeks. Roger, Ext. 7518 or 878-8847.

DOG - 8 mo. old, neutered female, has all shots, needs loving home. Kelly, 563-6062.

SLEEPER SOFA - good cond., you pick up. 363-7032.

SOFA - green, needs minor repairs, you pick up. Ext. 2647.

Yard & Garage Sales

HOLBROOK - Saturday, 9/5, 9 a.m.-4 p.m., furn., books, records, toys, more, 269 Thunder Road. McGrath, 472-4087.

MASTIC - 9/5, 9 a.m.-5 p.m., stuff galore, furniture, sports equip., etc., 40 Mastic Blvd. Patti, Ext. 3145.

SHIRLEY - 9/5-6, 9 a.m.-4 p.m., rain/shine, handmade arts & crafts, 39 Presford Dr., cross street Margin East. John, 399-6325.

Car Pools

SOUTHAMPTON-BNL - need ride, Mon., Wed., Fri. J. Colledge, Ext. 2196 or 5459.

Wanted

BABY-SITTER - for 3 children, my home, 3 eves./wk., 3:30 p.m.-12:30 a.m., for approx. 4 wks., own trans., refs. Betty, 758-2653.

BOOKS - *Radio-Eng. Handbook* by Terman; *Ref. Data for Radio Engineers* by IT&T; *Handbook of Electrons*. Alex, Ext. 2967.

BULLHORN - reasonable, free would be nice. Pat, 727-0547.

GUITAR - classic, in good cond. Ext. 1020.

PEOPLE TO JOIN - Toastmasters Club on site, improve your public speaking ability. Darryl, Ext. 7892, or Mike, Ext. 3189.

PIGEONS - excess birds, nuisance birds, any birds, will pick up or trap if necessary. Scott, Ext. 5320 or 929-4563.

ROOMMATE - 2-bdrm. house, 15 min. to Lab, eik, l/r, full bath, yard, drive, sec., refs. 821-2875.

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**.*

ALARMS - custom, installed, basic to intense structure, tied into central, free est. James, 395-6055.

ALTERATIONS - men's & women's clothes, call for estimate. Theresa, 289-0898.

AUTOMATIC LAWN SPRINKLERS - free est., prof. layouts, repairs, additions, courteous service, winterizations, $25. Lou, 928-7042.

BABY-SITTING - my home, exp., refs. upon request. 472-3254.

BABY-SITTING - in my home in Wading River while caring for my infant son. Lorraine, 929-3910.

BABY-SITTER - age 15, for occasional or after-school sitting in Ridge/Middle Island area, refs. on request. Krissy Beckman, 924-3756.

BAND - "The Finishing Touch," music for all occasions. Bob Dee, 333-0789.

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

CAKES - bakery style, custom decorated, all occasions, pies, cookies, mini pastries, order early. Millie, 367-4147.

CATERING - good, Italian home cooking, home-made pastas & other dishes, prices fantastic, we cater any occasion. Luisa, 395-6055.

CARPENTRY - custom-built closet organizers, up to 6' closet, $160, ¾" furniture grade birch, prof. cabinetmaker, 10 yrs. exp. Gerry, 981-4518.

CARPENTRY - decking, extensions, dormers, fin. bsmts., garages, windows, Sheetrock, roofs, done w/excellence, free est. Dennis, 395-6055.

CARPET/UPHOLSTERY CLEANING - spot, pet stains, odor removal, auto int., fabric protector, free est., Lab discount. Jerry, 924-6019, days.

CARPETING - discount purchase, installation & repair, custom work, stripes, borders, printing in carpet. Mark, 399-2813.

CENTRAL AIR CONDITIONING - installed, must sell inventory, large discounts, quality workmanship. John, 467-5827.

CERAMIC TILE - marble installations, repairs, lic. & ins., refs. avail., reas. rates. 474-3080.

CHILD CARE - recreational therapist/mom will privide quality child care FT/PT for your toddler, fenced yard, nonsmoker, refs. avail. 878-8804.

COLLEGE FINANCIAL AID - fee refunded if no aid, computers match grants, scholarships w/ student's background, Lab disc. Tom, 736-6691.

DECKS - custom, cedar, CCA, 20 yrs. exp. Danny, 698-9274.

DOG GROOMING - all breeds, flea season's here, discount rates, pickup & delivery avail. 369-7704.

DJ/MC - the Music Connection, music from 40s-90s, quality sound/service at affordable prices, all occasions, insured, let's party. Lou, 698-8210.

FINANCIAL - pre-retirement planning to maximize retirement benefits. Rich, 744-4816.

HAIRDRESSING - cut, perm, color, etc., m/f, 20 yrs. exp., NY & MA licensed, Miller Place location. Nancy, 331-1372.

HOME IMPROVEMENTS - doors, windows, siding, complete kit. & baths, 30 yrs. exp., lic. & ins. Carl, 698-9274.,

HOUSECLEANING - reliable, reasonable, honest, hardworking, refs. Cathi, 281-0360.

KAYAK LESSONS - sea kayak, river playboats, $70/5 hrs. + 3 hrs. free time, equip. supplied, intro to kayaking, $25/2 hrs., Ernie, 281-7873.

LAND CLEARING - carefully removing stumps, trees, and brush w/rake on 450 Loader, $70/hr. Tom, 878-1060.

LANDSCAPING - cleanup, shrubs moved, driveways sealed, reas. Ernie, 698-9274.

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

MOVING - large, high cube truck will move anything anywhere. Bob, 281-7432.

ORGAN/KEYBOARD TEACHER - learn to read music, I make it fun, kids/adults, 5 & up ½ hr./hr. lessons avail. John, 732-2702.

PARTIES - make every party a special event, catering and every other detail covered, all size parties, any occasion. Rosalie, 289-5704.

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

PLUMBING & HEATING ALTERATIONS - repair work by Jim Morris, retired BNLer. 472-1205.

RIDING LESSONS - pony parties, trail rides, all ages, group rates, any day or time. 878-9260.

SHIN JITSU - martial arts, situational, rape awareness, mental, physical conditioning, self-defense, start 9/28. Richard, 289-2939.

SILK FLOWERS - arrangement & baskets, great gifts for family, friends, sunshine clubs, adds beauty to any home decor. Maureen, 360-3803.

SHEETROCK & SPACKLING - free est. Kevin, 563-9855.

SKYLIGHTS - complete, prof. service, cleaning, preventive maint., installations. Joseph, 924-6019.

TEDDY BEARS - custom-made, high-quality cuddly bears for any occasion or occupation, special orders welcome. Arlene, 473-6680.

TRANSMISSION REPAIR - autommatic specialists, reas. rates. John, 395-4848.

TUTOR - college professor and reading specialist will tutor reading and English composition classes, reas. rates. Maureen, 589-7157.

TUTOR - exp. certified teacher will come to your house, any subject, any grade, $15/hr. Danielle, 929-3262.

TUTOR - for all H.S. and college math & physics, flexible hours, at your home for a reas. rate. Dom, 423-2256.

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

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

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