BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Hurricane Bob Breezes By Brookhaven

The Lab site, its facilities and employees were left relatively untouched as Hurricane Bob breezed by on Monday, August 19.

Though its eye passed 50 miles due east of Montauk Point around noon, the hurricane dumped 5.77 inches of rain on BNL over 12 hours, which is a record for this day.

With the exception of a few leaky roofs and windows, and some minor flooding, no significant structural damage was reported. During the storm, however, the BNL plumbers of the Plant Engineering (PE) Division worked to remove debris clogging the drains of Bldg. 510, to get the heavy rain off the roof.

No storm-related injuries or illnesses were reported to the Occupational Medicine Clinic, and the Fire/Rescue Group responded along with the Police Group only to false alarms, which had resulted from the rain and power surges.

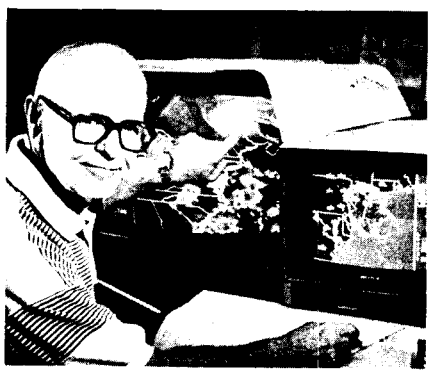
As a precaution, three families living on site in mobile homes were evacuated to Berkner Hall. There, the Staff Services Division had set up a temporary shelter, of which 20 on-site residents took advantage.

The Lab's big machines came through the storm just fine, having either been shut down earlier for routine maintenance or that morning as a preventive measure.

As a result of the wind and rain, however, the start-up of the High Flux Beam Reactor following routine maintenance did have to be postponed until yesterday, because an insulator in a power transformer near the cooling tower failed. The PE tower line crew began working on the repair after the hurricane, when the sun came out around 2 p.m.

The computers within the Computing & Communications Division and the Management Information Systems Division weathered the storm-related power dips with no shutdowns or losses. Some of the computer-controlled equipment within the Central Shops Division, however, did have to be restarted about a dozen times as a result of power surges.

Despite the power surges and some difficulty calling off site, Brookhaven never lost electricity or telephone service. While absolutely essential deliveries were made during the storm by the Supply & Materiel Division, its regular deliveries and Red Ball deliveries from the Quick Copy Service of the Photography & Graphic Arts Division resumed with the good weather.



Roger Stoutenburgh

BNL meteorologist Bob Brown tracks Hurricane Bob using radar and satellite information.

Bob vs. Gloria

As the storm approached, the winds were easterly; they turned first northeast, then north and finally northwest — indicating that the storm's center was passing east of BNL. With the eye of the hurricane closest to the Lab around noon, winds gusted to 70 miles per hour (mph) at the top of BNL's 290-foot-high meteorology tower, and to 50 miles per hour at the tower's base.

In addition, the atmospheric pressure dropped from around 30 to 29.10 inches of mercury as the low-pressure center of Hurricane Bob hurried by at 45 mph.

"So, if anyone was depressed that day, there was a good reason," jokes BNL meteorologist Bob Brown, Department of Applied Science, who tracked the storm from Bldg. 51. While Brown's radar worked throughout, Brown's namesake did blow his satellite dish out of alignment, thereby preventing him from receiving cloud-movement information for about 12 hours.

According to Brown, Hurricane Bob was created out of a small depression off the east coast of Florida last Saturday. With a lack of general air circulation, this low air pressure system drew on the ocean's warm, moist air for the energy necessary to make its spiraling winds grow. As this air rose, it cooled, releasing rain and the energy that continued the storm's growing cycle. Having gained enough energy, Bob turned northward and headed up the east coast, as most hurricanes originating in the Caribbean do.

"The most damage done by a hurricane is in its northeast quadrant," explains Brown, "so we were lucky Bob passed to our east and we were in his northwest quadrant."

As a result of this hurricane, however, Bob Brown was not so lucky — he lost all bets with his wife Gloria because Hurricane Gloria, which came through the Lab in September 1985 with wind gusts up to 76 mph, was stronger than Bob's hurricane.

— Marsha Belford

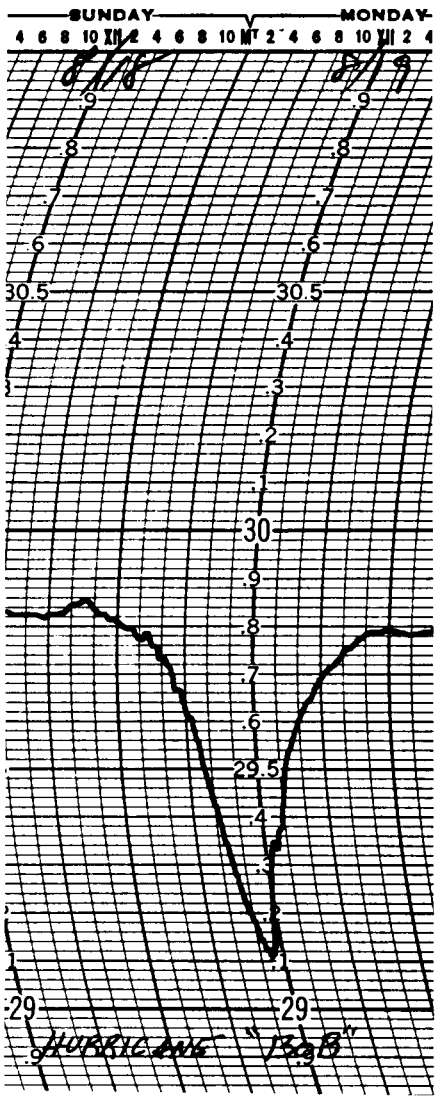


Chart recorded at BNL shows the air-pressure depression caused as the eye of Hurricane Bob passed due east of the Lab.

Salutes for Two Who Served

Roger Stoutenburgh

As BNL employees who served in Operation Desert Shield/Desert Storm, Jack Perez (second from left) and David Haines (second from right) received a tribute from the Secretary of Energy, presented by BNL Director Nicholas Samios (center), and additional congratulations from Plant Engineering Division Manager Bruce Medaris (left) and Biology Department Chairman William Studier (right).

"For service in support of Operation Desert Shield/Desert Storm," Jack Perez and David Haines were among those whom "We at the Department of Energy, gratefully salute," when they received "The Secretary's Desert Shield/Desert Storm Service Tribute."

The tributes were presented to Perez, a custodian in the Plant Engineering (PE) Division, and Haines, formerly a technician with the Biology Department, on August 14, by BNL Director Nicholas Samios.

A helicopter technician with the U.S. Air National Guard, Perez was called up in February and sent to Shepherd Air Force Base in Texas until June. Haines spent one month in training in New Jersey and five months in the Persian Gulf after being called up to the U.S. Army Reserves last November.

Signed by Secretary of Energy James D. Watkins, as well as W. Henson Moore, Deputy Secretary of Energy, and John C. Tuck, Under Secretary of Energy, the tribute asserts: "Your service, as a member of the Nation's Total Force, whether in the Persian Gulf or elsewhere

(continued on page 2)

Smithtown Woman Wins Chasman Scholarship

The sixth Renate W. Chasman Scholarship for Women was presented to Mary Robinson (center), of Smithtown, in a ceremony held in Berkner Hall on Tuesday afternoon.

Named in honor of the late BNL physicist Renate W. Chasman, the $1,000 annual scholarship was established by Brookhaven Women in Science (BWIS) in 1986 to encourage Long Island women to resume their formal education in scientific and technical fields. Shown here with Robinson are BWIS Scholarship Committee members: (from left) Alyce Daly, Mildred Laster, Harriet Martin, Gail Williams, Eva Emmerich and Eva Bozoki.

Robinson resumed her education in 1990, when she enrolled at the State University of New York (SUNY) at Stony Brook to pursue a master's degree in mathematics. She expects to graduate in 1992 and hopes to start a teaching career.

Robinson's bachelor's degree, earned in 1975 from SUNY at Binghamton, was also in mathematics. But, said Robinson, "As an undergraduate, I didn't know what type of job I wanted. Now I have a specific career goal. I hope to be an effective educator and promote excellence in mathematics skills. I think mathematics is a beautiful and powerful area of study, and I would like to share that perception."

During her fifteen-year hiatus from the academic world, Robinson married, raised three children and worked part-time as a math tutor.

Roger Stoutenburgh

Medeiros and the *Mayflower II* Sail Back in Time

The *Mayflower II*'s aged, oak timbers worked and creaked as they sailed BNL Oceanographic Associate Skip Medeiros back through time on the misty morning of June 16.

Handling the lines of the foremast, Medeiros joyously watched the six sails of the newly refurbished vessel power her across Cape Cod Bay for the first time in more than 34 years. As the vessel crashed through the waves, he knew that this experience was well worth his long drives and many hours of preparation.

"Being on the *Mayflower II*'s crew was one of the thrills of my sailing life," Medeiros said of his role in recreating history. "It was gorgeous to see the sails draw for the first time."

In order to be on board for this moment, Medeiros, a BNL employee in the Department of Applied Science since 1979, had driven the six-hour trip to Plymouth, Massachusetts, two times a week for seven weeks. He was one of about 70 sailing enthusiasts who were chosen last spring to refurbish and learn how to sail the historic vessel, which was built from 1955 to 1957 as a full-scale replica of her famous namesake.

"The type of refurbishing we did — chipping, sanding and painting — would normally be a chore," Medeiros said, "but because of what she represented, it seemed to be a privilege."

The original *Mayflower* landed at Provincetown in 1620 and then sailed across Cape Cod Bay to Plymouth a month later. On board were 26 crew members and 102 Pilgrims, who had crossed the Atlantic in search of a more tolerant land.

Her replica, the *Mayflower II*, was given to the U.S. in 1957 by a group of English promoters to commemorate both countries' cooperation in World War II. Ninety feet at the waterline, with a 104-foot mainmast, she was built following 17th century specifications. After construction, she was sailed across the Atlantic by sailing master Alan Villiers. The vessel then made a grand tour of the East Coast and was finally docked at the Plimoth Plantation, a living museum near Plymouth Rock, where she spent the next three decades as a living exhibit.

After becoming director of the plantation's period exhibits in 1990, sailing master and shipwright John Burke decided that, in addition to being a dockside exhibit, the *Mayflower II* should again be made seaworthy. This would not be an easy task: The vessel's sails had not been raised since the early 1960s, and her many years next to the dock had been very hard on her hull and fittings.

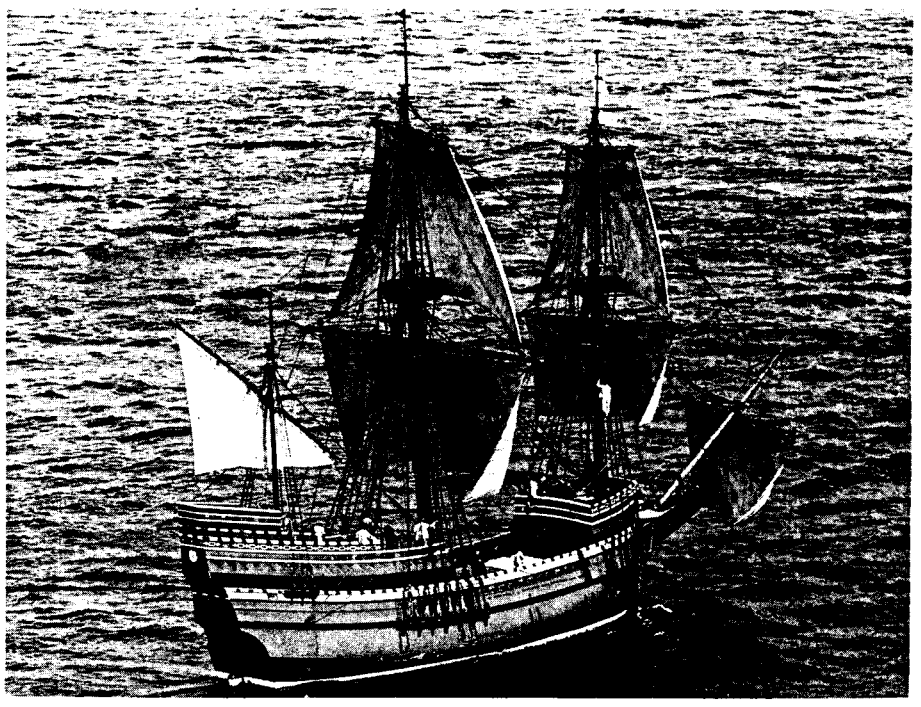
After a corp of talented and dedicated volunteers refurbished the *Mayflower II*, Burke sounded the call for a crew to help get her shipshape and also learn the subtleties of sailing a 17th-century, square-rigged vessel. Living on Cape Cod, Medeiros's parents saw the recruiting ad in early spring and passed it on to their son, who has loved the sea since he was 12 years old.

Medeiros answered immediately, and, after an involved selection process, was chosen to become part of the *Mayflower II*'s crew of sailors and historical interpreters. Corporate sponsors were also recruited to help pay the vessel's many repair bills.

After another two months of intensive restoration and training, two sailing crews were selected — one to take the ship across the bay to Provincetown and one to bring her back. Medeiros was selected for the return voyage, manipulating the sails 60 feet above the sea on the foreyard. As fate would have it, he drew the better sailing voyage.

At midnight on Thursday, June 13, the *Mayflower II* left Plymouth with a tight schedule of riding the tides of both the sea and the press. But high winds and seas prevented the first crew from ever raising sail. For safety reasons, the vessel was towed by tug the entire way to Provincetown and the celebration that awaited.

Riding high in the foreyard of the *Mayflower II* is Skip Medeiros, Department of Applied Science, who was one of 36 crew members selected for the ship's voyage in June across Cape Cod Bay, from Provincetown to Plymouth, Massachusetts.



The *Mayflower II*, given to the U.S. by a British group in 1957, in full sail on Cape Cod Bay after her recent refurbishing.

Medeiros met the *Mayflower II* in Provincetown on Saturday, June 15, for the voyage back across the bay to Plymouth. Everyone on board that night was hoping for good weather, as the tug pulled them through a thunderstorm. Dawn found them under tow on calmer waters, but shrouded in fog. In spite of the low visibility, the crew felt certain that the go ahead would be given, so that they could put all their long hours of practice to use.

"A ripple of excitement went through the crew because we knew we were going to be under sail soon," Medeiros said. "It was an emotional feeling when those sails went up. It brought tears to your eyes and put a lump in your throat."

Sails flying free, the *Mayflower II* continued toward Cape Cod Canal and Buzzards Bay. An armada of almost 100 boats gathered around her while thousands of people watched from land, as the historic ship once again sailed the waters that her sister ship had navigated more than 370 years before.

Later that day, under tow again, the *Mayflower II* and her crew made it back to the familiar dock at the Plimoth Plantation.

For the time being, the *Mayflower II* will continue to be brought to life at dockside. But she won't be banished there this time: She will make occasional sails, and the rejuvenated vessel is to play a major part in the planned 500-year anniversary gala commemorating Christopher Columbus's landing in 1492.

As for Medeiros, he said he will never forget his part in recreating sailing history. He continues his connection with the sea by sailing his 25-foot Catalina and refurbishing a 58-year-old wooden sloop. Medeiros said he likes the serenity of free movement and personal challenge that sailing provides him.

Sailing on the *Mayflower II* has given him new respect for the challenge faced by the 128 souls who sailed her namesake to the mysterious land those many years ago.

"She moved through the water like a bathtub," Medeiros said, "and it was crowded below decks with just 36 people for the short two-day trip. Imagine being one of the 128 who lived aboard her with the cows and pigs for the entire trans-Atlantic voyage." — Erik Larson

Salutes (cont'd)

around the world, advanced the cause of freedom. Your sacrifice and the sacrifice of your family are fine examples of the courage and commitment that guides this Nation and lights the way for all freedom loving people of the world."

Though he did his military duty in Texas, Jack Perez said, "If it would have lasted any longer, I probably would have gone over." At Shepherd, Perez's efforts supported those in the Persian Gulf. "The biggest thing with helicopter maintenance over there was sand in the engines," he explained. "Considering the conditions, I feel they did a very good job."

Before he left BNL, Jack Perez was a custodian assigned to Bldg. 902, the Magnet Division of the Accelerator Development Department. When he returned in June, "I was put right back where I was," he said.

Perez was thankful for the support the Lab gave him while he was gone. As a participant in Desert Shield/Desert Storm, he was given leave of absence and his dependents continued to receive medical benefits. With a wife and two young children at home, this was important to Perez, who said, "I was always worried about them. I worked up an incredible phone bill."

Many of his concerns were related to his wife's having to handle everything, including what used to be his home duties. "But everybody was supportive," Perez said. "My next-door neighbor helped my wife. Now she drives a stick shift and pays the bills, and I found out she's better with money than I am! She did a good job, and I am very proud of her.

"The Lab's support made this experience easier," Perez continued, "and by working hard and continuing my education, I hope I can give back something to the Lab." Perez is studying computer programming at Suffolk Community College.

David Haines was a technician in the Biology Department laboratory of Senior Geneticist Jane Setlow last November, "when I was pulled out of my reserve unit and put in another bound for the Persian Gulf as a chemical warfare specialist," he said.

After one month of nuclear, biological and chemical weapons training at Fort Dix, Haines was sent to Saudi Arabia for three months, then to Kuwait for two months. "Fortunately," he said, "we never had to use a lot of what we were trained for."

Though Haines returned to the States in June, he did not return to BNL. "I resigned while I was gone," Haines explained, "because I didn't want my absence to hinder Jane's project aimed at understanding the fundamentals of bacterial mutation."

Now, Haines will return to Kuwait for a year, to teach laboratory techniques. After that, he plans to pursue a Ph.D. in molecular biology.

Equipment Demo

Tektronix, Inc., will host a product show on Tuesday, August 27, from 8:30 a.m. to 3 p.m., in Berkner Hall. On display will be such Tektronix products as digitizers, scopes, VXI, logic spectrum analyzers and cable testers.

DAS Celebrates Service

Department of Applied Science staff who celebrated major BNL service anniversaries so far in 1991 were guests at a reception hosted by DAS Chairman Leon Petrakis (second from right) last month. The honorees were: (from left) Pat Taylor, 30 years; Lenore Dudzick, 10; Frank Thomsen, 35; and Bob Goodrich, 25. Not present were Joyce Tichler, 20; Arleen Lancsarics, 10; Larry Kukacka, 35; Meyer Garber, 25; and Jim Reilly, 35.

Roger Stoutenburgh

$wim, $wam, $wum

Every record from last year except one was broken during the second annual Swimarathon sponsored by the Brookhaven Employee Recreation Association (BERA), to benefit the American Cancer Society.

During Swimarathon '91, a total of 101.21 miles was completed by 45 swimmers who raised $4,600 over 12 hours on Saturday, August 10. That effort was up 19.3 miles, nine swimmers and $1,000 over last year.

The Team Award went this year to the Physics GEMs from the Physics Department, the team that earned the most money — $1,480 vs. $920 brought in by the second-place Natant Nukes of the Department of Nuclear Energy (DNE). The GEMs were awarded a Sony Watchman TV, which they gave to Sharon Smith, Physics, who singlehandedly did most of their fund-raising.

At the BNL pool, Swimarathon '91 organizers Peter Heotis (left) and Greg Van Tuyle are pictured with Kathleen Kent of the American Cancer Society, which received $4,600 as a result of the event.

Robert Retundi, Management Information Systems (MIS) Division, was the individual who raised the most money, $149 vs. the $105 pledged to Liz Seubert, Public Affairs Office. So Retundi won the Individual Award, a cordless telephone.

For swimming 60 lengths or 1.14 miles, which was her personal best, the Good-Spirit Award was presented to Karen Freeman, wife of Timothy Freeman, MIS. Individuals who put in the most miles were: Greg Van Tuyle, DNE, 10.2 miles; Kathy Tuohy, Physics, 8 miles; and Katie Heotis, daughter of Peter Heotis, Medical Department, 5 miles.

The team that went the greatest distance was Adit's Team: It was made up of ten BNL Toastmasters who dedicated their 26.1 miles to fellow toastmaster Adit Sambamurti, Physics, who is currently engaged in his own personal fight against cancer.

Adit's Team was followed by the Natant Nukes, 19.3 miles, five swimmers; and Physics GEMs, 19.2 miles, seven swimmers.

In addition to the BNL lifeguards who donated their time, Swimarathon '91 organizers M. Kay Dellimore, Peter Heotis and Greg Van Tuyle gave their thanks to BERA for purchasing beverages; My Hero Deli in East Patchogue, which supplied party platters; and Service America Corporation, the Cafeteria's operator, which donated cookies.

Roger Stoutenburgh

During Swimarathon '91, members of the award-winning Physics GEMs — the team that raised the most money for the American Cancer Society — included: (from left) swimmers Doris Rueger, Wlodek Guryn, Kathy Tuohy and Dave Kirby, and fund-raiser Sharon Smith. Absent from the picture: swimmers Dave Alburger, Mary Alburger and Dominique Paffrath.

Swimarathon '91 Individual Distances

Swimmer	Lengths	Miles	Swimmer	Lengths	Miles
Dave Alburger	54	1.02	Inn Kim	212	4.02
Mary Alburger	30	0.57	Dave Kirby	120	2.27
Hari Anezivis	80	1.52	Beth Lin	26	0.49
Barbara Austen	106	2.01	Loren Klaffky	30	0.57
Jessica Abolafin	30	0.57	Roger Klaffky	54	1.02
Ken Baumister	54	1.02	Judy Mills	168	3.18
Jack Brennan	216	4.09	Karen Mills	44	0.83
Clinton Cameron	32	0.61	Dominique Paffrath	106	2.01
Peter Cameron	160	3.03	Bruce Perelman	54	1.02
Wei Chen	42	0.80	Robert Retundi	212	4.02
Jennifer Cobb	178	3.37	Doris Rueger	54	1.02
Dee Casper	20	0.38	Eddie Sierra	26	0.49
Jon Fagan	11	0.21	Liz Seubert	20	0.38
Shira Fagan	106	2.01	Martha Simon	54	1.02
Karen Freeman	60	1.14	Michael Starks	106	2.01
David Guryn	122	2.31	Betsy Schwartz	56	1.06
Rachel Guryn	226	4.28	Richard Thorp	106	2.01
Wlodek Guryn	224	4.24	Kathleen Tuohy	424	8.03
Ed Gill	56	1.06	Greg Van Tuyle	538	10.19
Katie Heotis	266	5.04	Jenny Chen Weng	112	2.12
Laura Heotis	212	4.02	Ji Wu Yang	54	1.02
Peter Heotis	212	4.02	Mike Zhao	110	2.08
Bill Horak	160	3.03	**Total**	**5,343**	**101.21**

Cafeteria Menu

Luncheons

Monday, August 26

Soup: Potato & leek	.75/.95
Entree: Beef & broccoli stir-fry	3.10
Entree: Chef's choice	3.10
Fitness: Baked herb chicken w/1 veg.	3.10
Carvery: Hot pastrami sandwich	2.85
Grill: Sloppy Joe on a bun	2.85

Tuesday, August 27

Soup: Cream of mushroom	.75/.95
Entree: Pasta with white clam sauce	3.10
Entree: Pork-fried rice w/Chinese noodles	3.10
Fitness: Chef's choice	3.10
Carvery: Hot roast beef sandwich	2.85
Grill: Grilled Reuben	2.85

Wednesday, August 28

Soup: Pasta gumbo	.75/.95
Entree: Taco	(each) .90
Entree: Chef's choice	3.10
Fitness: Vegetarian plate	2.25
Carvery: Hot ham sandwich	2.85
Grill: 3-D burger	2.85

Thursday, August 29

Soup: Potato chowder	.75/.95
Entree: Chicken & vegetable stir-fry	3.10
Entree: Chef's choice	3.10
Fitness: Beef fajitas	3.10
Carvery: Hot corned beef sandwich	2.85
Grill: Pizza burger	2.85

Friday, August 30

Soup: Shrimp bisque	.75/.95
Entree: Sausage & pepper hero	3.10
Entree: Chef's choice	3.10
Fitness: Baked fish w/herbs & 1 veg.	3.10
Carvery: Hot turkey sandwich	2.85
Grill: Seafood salad melt	2.85

Breakfast Specials Served w/coffee & small juice, 7:30 - 10:30 a.m. 2.65

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

BROOKHAVEN BULLETIN

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BWIS Meeting

Attorney Lisa Parels will speak on domestic violence at the next luncheon meeting of Brookhaven Women in Science (BWIS). It will take place on Tuesday, August 27, at noon, in Room B, Berkner Hall. All are invited; bring your lunch.

Practicing with the law firm of Siegel, Sommers and Schwartz in Commack, Parels specializes in civil litigation, with emphasis on civil rights and family law. She was recognized by Brookhaven Town with an award for her volunteer work with women in crisis.

For more information about the talk or BWIS, contact Dorry Tooker, Ext. 2078.

Amateur Radio Club

The next regular meeting of the Amateur Radio Club will take place on Thursday, August 29, at noon, in Berkner Hall, Room D. All Lab employees, whether licensed amateurs or not, are invited to attend. For more information, please contact Gary Utz, Ext. 3580, or Andy Feldman, Ext. 3264.

Softball

Standings as of August 16

League I		League II	
Ravens	12-1	Up & Atom	12-2
Blue Jays	10-3	Six Pax	11-2
Phoubars	9-4	Dirty Sox	7-7
Cool 'n Gang	7-4	Titans	6-7
Light Source	5-6	CCD	6-8
Cutting Edge	3-10	Scram	5-9
Magnuts	2-11	Lights Out	4-10
Scrambled Legs	2-11	Cocoon	4-10

League III		League IV	
Surefire	11-2	Sting Rays	14-0
Phase Out	9-4	Snakebites	10-4
Big Sticks	7-7	Brewers	8-6
Medical	6-8	Fielder's Choice	7-7
BDA	5-9	Simply Awesome	3-11
Quantum	3-11	Park Ave	0-14

League V			
Roustabouts	11-2	What's on 2nd	6-8
Just 4 Fun	11-3	Ha Has	5-9
Personnelities	11-3	Snafu	5-9
Source	9-5	Lead Bottoms	4-10
Molson Express	6-7	Thirty Something	1-13

Camera Club

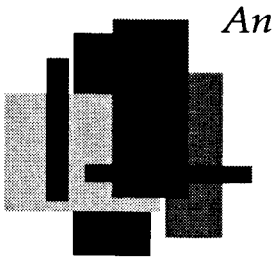
The Camera Club will change the pictures in its photo exhibit in Berkner Hall at 5:15 p.m., on Thursday, August 29. Photos to be displayed must be mounted and ready to hang. Photographers may submit prints for the exhibit even if they are not able to attend the August 29 meeting.

Contributors may be Camera Club members or nonmembers who have photos that meet the exhibit's display criteria. For information, call Lew Jacobson, Bldg. 134C, Ext. 5193; Ripp Bowman, Bldg. 911B, Ext. 4672; or Anne Baittinger, Bldg. 134, Ext. 5055.

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, August 26, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. On the agenda will be regular business, committee reports and the president's report.

The Mediterranean
Meets New York



An Exhibition of Paintings
by Valerio Cugia

Sponsored by the BERA
Art Society

Berkner Hall, Room B
SEPTEMBER 3, 1991 ..... 5 - 8 P.M.
SEPTEMBER 4 - 6 ..... 11:45 A.M. - 1:30 P.M.
Refreshments will be offered.

Trip Cancelled

The BERA bus trip to Philadelphia and Washington, D.C., planned for September 21-22, has been cancelled, due to lack of interest.

Classified Advertisements

Placement Notices

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

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

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

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

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

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

MK 108. TELEPHONE OPERATOR (substitute) - Will function on an on-call basis to assist in placing calls and other related telephone duties. Computing and Communications Division.

MK 0129. DEPUTY MANAGER, PLANT ENGINEERING - Requires a BS in engineering (advanced degree preferred) and ten years' experience in facilities engineering, project management and plant operations. Will assist the Manager in all aspects of responsibility for the physical plant of the Laboratory, with emphasis on the management of complex construction programs. Familiarity with construction funding and DOE Order 6430.1A, and experience with ES&H compliance issues are highly desirable. Plant Engineering Division.

DD 0836. ADMINISTRATIVE POSITION (part-time) - Requires a BS in business or significant administrative experience at the Laboratory. A solid understanding of Laboratory policies and practices is required as well as excellent communication skills. Will assist Department Administrative Manager in a wide range of activities. Must be experienced and able to assume independent responsibilities in areas of budgeting, property management, procurement, systems development and ad hoc reporting. Must be familiar with IPAP and JCARS systems and proficient in the use of personal computers, with an advanced knowledge of Lotus 1-2-3. Chemistry Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

LF 5075. TECHNICAL POSITION - Requires a BSET or equivalent, familiarity with microprocessor bus interfacing and data conversion devices, and a full knowledge of digital logical concepts and analog circuitry. Position requires construction of prototypes through final testing. Must be able to use various types of test equipment and work from schematics, rough sketches and verbal instructions. Will be involved in beam-diagnostics instrumentation efforts. National Synchrotron Light Source Department.

Motor Vehicles & Supplies

90 T-BIRD - loaded, dark blue, lt. blue interior, 25k miles, ask. $10,500. 874-8757.

89 TOYOTA TERCEL - white, am/fm cass., 5-spd., sunroof, a/c, excel. mileage, $6,000. 286-3231.

88 HONDA ACCORD DX - 4-dr., 5-spd., 5/75k mile warr., excel. cond., a/c, $7,950. Ext. 3428 or 878-6007.

87 YAMAHA DIRT BIKE - YZ125, new rear tire, chain, & sprockets, great shape, $1,200. Danny, Ext. 4988 or 286-8541.

87 JEEP WRANGLER, - 6 cyl., 5-spd., am/fm cass., hardtop & bikini top, $6,500. Steve, Ext. 2957 or 744-6390.

87 MITSUBISHI CORDIA - 5-spd., a/c, new exhaust, clutch, $3,000. Mike, Ext. 4293.

86 - CHRYSLER NEW YORKER - turbo, 4-cyl., 4-dr., leather int., digital dash, voice alarms, all avail. options, $5,400. Jim, Ext. 4040 or 289-0876.

86 FORD F150 - am/fm cass., a/c, 51k, mint cond., orig. owner, ask. $6,000. John, Ext. 3277 or 473-9114.

86 VOLKSWAGEN JETTA - 5-spd., sunroof, a/c, excel. cond., $4,300. Phil, 722-3010.

85 KAWASAKI 110 TRIKE - all terrain, brand-new cond., rides adults nicely, $500. Ext. 4100 or 653-8966.

84 OLDS CUTLASS SUPREME - 2-dr., all power, V6 eng., very good cond., 86k miles, $2,700. Forsyth, Ext. 4676.

84 FORD F150 300 - 6-cyl., overdrive, cap/bed liner, new clutch, pull-out stereo/cass., $2,900. Hugh, Ext. 4516.

83 MERCURY ZEPHYR - 6-cyl., 4-dr., a/c, p/b, p/s, am/fm, good cond., $950. Bob, 732-6774.

83 YAMAHA VIRAGO - 750cc, black, mint cond., garaged, extras, $2,000, neg. Charles, Ext. 5211.

83 CHRYSLER LEBARON - 4-dr., a/t, p/b, p/s, p/w, a/c, excel. cond., 68k miles, $2,100. Jane, 473-5092 after 6 p.m..

82 YAMAHA YZ250 - excel. cond., $550. Ext. 5249 or 331-5874.

82 FORD MUSTANG - V-6, p/w,. p/b, p/w, a/c, stereo w/cass., mint cond., $1,700. 661-5695 eves.

82 VW RABBIT - body excel., engine needs work, $200, neg. Craig, 395-1084, leave message.

81 FORD E-150 VAN - 81 rebuilt eng., 6-cyl., new clutch, radiator, starter, ask. $500. Pete, 399-2813.

80 GMC JIMMY - 4x4, loaded, a/c, tilt, 33" tires, $3,000. Dan, Ext. 4988 or 286-8541.

80 CHEVY VAN - V6, ask. $600. Brett, 929-4753.

79 DODGE VAN - 40k mi., roof rack, new tires, alternator & exhaust system, some rust, runs well, $1,800. Jim, 878-2425 days.

78 BUICK REGAL - turbo, sports coupe, needs head gasket, $350, firm. John, 395-3485.

78 CUTLASS - needs engine work, a/c, a/t, Cragar rims, $400 or best offer. Wayne, 698-2798.

75 GMC T60 CAB TRUCK - tilt, 23,300 MGW, 427 eng., 5-spd./2-spd. axle, air brakes, 18' box. Mike, Ext. 4034.

75 YAMAHA RD 350 MOTORCYCLE - 857 orig. mi., excel., $1,000; 69 Ford window van, reliable, extras, $300. Paula, Ext. 4619 or 928-7769.

74 VW SUPERBEETLE - green, new tires, s/t, good cond., solid, ask. $1,200. Dave, 586-8399 or Teri, Ext. 5800.

69 CAMARO - classic car, $3,200. Jim, Ext. 3372 or 821-0250.

66 PONTIAC CATALINA - convertible, excel. cond., 50k orig. miles, $7,500; 60 VW bug, orig. 36 h.p. eng., $1,800. Roger, Ext. 7518 or 878-8847.

31 CHRYSLER MODEL B - 2-seater, rumble seat, all orig., excel. cond., ask. $7,500. Ext. 3160 or 289-5704 after 5 p.m.

CAP - 85 Mazda pickup B2000, sell/trade for cap for 85 Nissan pickup 720D. Ernie, 588-4987.

DATSUN Z PARTS - turbos, computers, 5-spd. trans., motor, heads, more. George, Ext. 4584

SOFT TOP - Jeep Wrangler, fits full doors, used only 2 summers, gray, $300. Slawko, Ext. 4453 or 369-2338.

RIMS - 15" for LeSabre, 14" for Monte Carlo, $10 ea. Pat, Ext. 4647.

FORD PARTS - 351W, high mileage, runs well, needs rebuild, $75; C6 trans., works, need rebuilding, $70. Mark, Ext. 2599.

MOTORCYCLE - 175 Yamaha needs a lot of work, $20. Nick, Ext. 3884.

WIND DEFLECTOR - for mid 80s Toyotas, fits front of sunroof w/no drilling, $30. Roy, Ext. 7357.

Boats & Marine Supplies

21' VENTURE SAILBOAT - on trailer, includes new 4 h.p. motor, swing keel, 3 sails, ready to go, $2,500. Richard, Ext. 4902.

17' CHRIS CRAFT - 60 h.p. Evinrude, gator tilt trailer, power winch, CB radio, v.g. cond., ask. $1,700. Bill, Ext. 3859.

17' O'DAY SAILBOAT - $250. Kathy, 744-2203.

16' BOWRIDER - fiberglass, 65 h.p. Evin., tilt trailer, power winch, $1,700. Jim, Ext. 3372 or 821-0250.

14' HOBIE CATAMARAN - roller reefing jib, trailer, v.g. cond., $1,400 or best offer; kayak, Klepper double, fg, $500. Ext. 7657 or 298-9560.

DUCK BOAT - for broadbill, gray pumpkin seed w/two tanks for partial submersion, good cond. Tom, Ext. 5275.

BOAT TRAILER - for small boat, heavy-duty frame, best offer. Pete, Ext. 4581 or 399-2813 after 5 p.m.

Furnishings & Appliances

DINING ROOM - contemp., glass table, 4 brass/gray chairs, brand-new, must sell, $500. Vincent, 493-7906.

PEDESTAL TABLE - oak, $100. Ext. 2888 or 286-0422 after 6 p.m.

OFFICE DESK - wood, new cond., orig. $339, sell for $95. 689-9234.

DINING ROOM - country, oak, 48" round pedestal table w/leaf, 6 carved back chairs, hutch w/etched glass, mint, 3 yrs. old, $2,000. Bonnie, Ext. 2875.

SOFA BED - 1 yr. old, multicolored, tweed-like, no-stain material, must sell. Maryellen, Ext. 2979.

MATTRESS - queen-size, $50; elec. room heater, $40; coffee maker, $10; elec. mixer, $10; Tina, Ext. 3126.

COUCH - Ethan Allen, 7', excel. cond. 325-0447.

REFRIGERATOR/STOVE/SINK UNIT - 3 in 1, excel. for apt., great cond., $450. Marie, 589-3020.

REFRIGERATOR - dorm-size, $75. Penny, Ext. 2625.

REFRIGERATOR - dorm-size, Emerson, 2½ cu. ft., $70. 331-4525, leave message.

DISHWASHER - Sears, 18", almond, portable, butcher-block top, needs new hoses, $100 firm. Pat, Ext. 4647.

Tools, House & Garden

INSULATION - fiberglass, foil-faced, 4 rolls, 3½'x15"x70½', R-11, $25. Jerry, 363-6908.

DOORS - solid oak, 3 over 3, 34"x83½", $25; alum. storm door, white, 28"x78", $5. 281-7844.

OCTAGONAL WINDOW - insul., glass, stationary, never used, $75. Rawa, Ext. 4727.

WINDOW - vinyl, double hung, full screen, 32"x37½". Tony, 698-9274.

HEDGE TRIMMER - Craftsman, 18", v.g. cond., $15. Joe, Ext. 2575.

LAWN MOWERS - Jacobsen, self-propelled, $25; Sears, 20", 3½ h.p., engine needs work, v.g. cond., $25. Tom, Ext. 7707.

GENERATOR - Niagara, 4kW, used about 4 hours, $325. Bill, Ext. 2047 or 472-4684 after 6 p.m.

PLUMBING TOOLS - pipe threader, bender, assorted others; gardening tools. 473-6432.

FLOOR BUFFERS - 2, Clark, washes & strips, $300/ea., or $400/both. 653-8966.

Sports, Hobbies & Pets

EXERCISE EQUIPMENT - rower, walker, stationary bike, $100/all. Jack, Ext. 2907.

BIKES - his & hers, 12-spd., good cond., $60/both. Ken Davis, Ext. 5363 or 286-1060.

BICYCLE FRAME - Dawes Atlantis, 23½", 531 Reynolds tubing, $50. Mark, Ext. 2599.

SWIMMING POOL COVERS - solar & winter, for 18' round pool, good cond., $30/both. Joe, Ext. 4786 or 281-7683.

FLUTE - for beginner, excel. cond., $200. Penny, Ext. 2625 or 467-8297.

FLUTE - Artly 18-0, needs tune-up, $75; Minolta Easy Flash camera, ranger finder, F-1.7 lens, 500/sec. speed, $50. Janet, Ext. 2345 or 929-3910.

PIANO - Hardman spinet, approx. 13 yrs. old, $500. Ext. 3866 or 286-0641 after 5:30 p.m.

ORGAN - Lowry, double keyboard, chords, special effects, 10 bass, 12 upper voices, bench, books, needs tuning, maker offer. Vicki, Ext. 5205.

ORGAN - Yamaha E-30, excel. cond., $800. 929-8922 after 6 p.m.

CAMERA - Minolta SRI-s, 35mm, w/flash, case, strap, excel. cond., $50. Nancy, Ext. 4177.

FISHTANK - 50-gallon, stand, tank, full glass cover, fluorescent light, filter, gravel, decorations, heater, $175. Roy, Ext. 7357 or 878-5886.

Audio, Video & Computer

CONSOLE TV - Zenith System 3, 25", color, remote, stereo sound, excel. cond., $250. 369-2716 after 6 p.m.

Miscellaneous

PROM GOWNS - white, size 3; pink, size 5. Ext. 5922.

STROLLER/CARRIAGE - Graco/Brougham, excel. cond., $60. Ext. 4985.

MAGAZINES - infant & child care, incl. *American Baby & Parents*, new, 50¢/issue. Eugene, Ext. 7113.

ENCYCLOPEDIA - Colliers, 1960, 20-volume full set, excel. cond., $350. Eugene, Ext. 7113.

SUITCASES - 1 large, 1 medium, w/rollers & locks, $38/both. Paul, Ext. 4309.

TYPEWRITER - Smith Corona, $50. Ext. 3146 or 369-4286.

VICTROLA SPEAKER - 1910, $75; end table, $20; wicker doll's chair, $18; men's pinup w/faces, $20; sleeping bag, $10. Kathy, 744-2203.

Free

KITTENS - for loving home. Carolyn, 399-3446.

PAPERBACK BOOKS - boxes to take or trade, pick up in Bldg. 211. Mary Ellen, Ext. 2979.

SWING & SLIDE ASSEMBLY - for children. Joe, Ext. 2215.

DITTO MACHINE - purple, Bell & Howell, works. Ext. 3812.

Yard & Garage Sales

BELLPORT - Aug. 24-25, 9 a.m.-3 p.m., 92 Circuit Road, multi-family, toys, tools, furn., golf equip.

RONKONKOMA - Aug. 24-25, 10 a.m.-4 p.m., 265 Southport St., furn., gas dryer, etc. Carl, Ext. 5270.

SMITHTOWN - Aug. 24-25, moving, everything for sale. Sue, 361-6057 after 7 p.m.

Lost & Found

FOUND - watch in the lobby on the 1st floor at CCD, Bldg. 515. Christine, Ext. 4159.

Car Pools

RIVERHEAD-AQUEBOGUE - join or establish carpool. Pat, Ext. 2452.

Real Estate

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

For Rent

BROOKHAVEN HAMLET - room in house in quiet neighborhood, large l/r, TV rm., kit. w/dw, d/r, w/d, $350/mo., grad. student or professionals pref. Sidney, 286-4028.

CENTER MORICHES - large sunny bdrm., kit., priv. use of entire house, quiet neighborhood, walk to RR, library, stores, bay, 10 min. to Lab., no pets, $350 incl. util. Marilyn, Ext. 2259.

CORAM - studio, kitchenette, full bath, priv. ent., cable, $475/mo. pays all. 696-3782.

EAST PATCHOGUE - S. of S. Country Rd., 3 bdrms., gar., full bsmt., w/d, no pets, nonsmokers, walk to Bellport Village, $900/mo. + util., sec. & refs. Ext. 3291 or 589-3020.

MANORVILLE - Rock Hill, 2 bdrm., 2 baths, gar., f/p, a/c, pool, tennis, all appl., verticals, golf course, $945/mo. 864-6556.

MATTITUCK - 2-bdrm. ranch, l/r, d/r, fam. rm., full bsmt., gar., $800/mo. + util. & sec. Dave, Ext. 5460.

MIDDLE ISLAND - co-op, cac, pool, tennis, new kitchen, & bath, w/w, 4 mi. to Lab, $675/mo. Larry, Ext. 2021.

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

NORTH PATCHOGUE - 1-bdrm. apt., bright, pool, patio, single, $625/mo. + sec. Sept. 1 avail. 654-5607.

PATCHOGUE - 2 bdrm., l/r, full bath, near everything, $675/mo. + elec., 1 mo. sec. 758-9835.

RIDGE - furnished studio apt., private, fenced-in yard, 5 min. from Lab., avail. end of Oct. $500/mo. 744-8632.

ROCKY POINT - 2-bdrm. house w/downstairs 1-bdrm. apt., w/d, dw, fenced yard, private, avail. 9/1, $800/up, $550/down, $1,250 all. 821-4174.

RONKONKOMA - large studio apt. for one, cable, priv. ent., near LIE, $525/all. Nick, 471-4735.

RONKONKOMA - 1-bdrm. apt., l/r-kitchen combo, w/w, 1st floor, priv. ent., single non-smoker, no pets, $600/mo. incl. all. 467-8297.

RONKONKOMA - 2-bdrm. condo, Nob Hill, tennis, pool, clubhouse, w/w, patio, all appl., ac, $900/mo., incl. heat. Bill, 878-6016.

SHOREHAM - large, furn. studio apt., priv. ent., bath/kitchen, $400/mo. includes all, security & refs. needed. 852-3679 or 744-6648 after 6 p.m.

STONY BROOK - room in quiet area close to SUNY, $325/mo. includes all, carpool to BNL possible. Rick, Ext. 5886 or 751-7218.

MANHATTAN - sunny studio upper East side, sep. renov. kit., a/c, $750/mo. incl. heat, 331-3785.

NEW PORT RICHEY, FL - 2-bdrm., waterfront condo w/boat dock, priv. beach, 2 clubhouses w/sauna, whirlpool, pools & golf, fully funished, $750/mo. fall rate. Roy, Ext. 7357 or 878-5886.

PALM HARBOR, FL - 3-bdrm. townhouse, 2½ baths, carpeted, 5 appl., cac, screened patio, lake view, gar., pool use, no pets, lease. Ext. 3558.

VERO BEACH, FL - furn. condo, adult community, golf course & lake views, near pool & recreation facilities, close to ocean beaches, avail. Nov., Dec., Jan., 2 mo. min. 473-1578.

For Sale

BELLPORT - 3-bdrm. ranch, l/r, d/r, bath, full bsmt., 20'x20' deck, det. 3-car gar., shy ½ acre, SC SD, city water & garbage pickup, close to village, $175,000. 286-3377.

BELLPORT VILLAGE - 3-bdrm. 5-yr.-old Col. l/r, fp, 2½ baths, oak floors, fin. bsmt., ig sprinklers, assum. mort., 1st owner. 286-5579 eves.

CENTRAL ISLIP - 2-bdrm. Cape, new bath, l/r w/bay window, eik w/greenhouse windows, extension w/lg. windows, shed, bsmt., near all, needs work, $85,000. Brian, Ext. 7519 or 234-9487.

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

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

MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 baths, kit., l/r, d/r, cac, 5 appl., patio, pool, tennis, clubhouse, carpet, ask. $102,000. Rosalie, Ext. 3160 or 289-5704 after 5 p.m.

N. BAYSHORE - mint, newly decorated 2 bdrm., l/r, d/r, eik, den, 1½ baths, w/w, gar., patio, igp, more. 698-0576 or 231-6017.

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

PORT JEFFERSON STATION -- ½ acre, fenced backyard, ig sprinklers, prof. landscaped, alarm system, all appl., 1-car gar., attic fan, quiet neighborhood, $131,900. 473-5012.

RIDGE - Strathmore condo, 2-bdrm., 1½ baths, new appl., w/w carpet, 5 min. from Lab. Rob, 924-2832.

RIDGE - 3-bdrm. townhouse, 1½ baths, cac, w/w, all appl., patio, storage rm., attic, low monthly maint., 5 min. to BNL, $80's. Mary, 924-4328.

SHIRLEY - 3-bdrm. split ranch, Tangiers section, eik, l/r, large fam. rm., 2 baths, utility rm., gar., ½ bsmt., ½ acre, treed, possible M/D, city water, $125,000. 473-6432.

SHOREHAM - 3-bdrm. brick Cape, eik, den, playroom, gar., full bsmt., 1½ baths, remodeled, conven. loc., SWR SD, $135,000. Carol, Ext. 3315 or 744-7493; or Janet, Ext. 2345 or 929-3910.

SHOREHAM - 4-bdrm. Cape, attach. 2-car gar., 2 fp, 1½ baths, d/r, 1-acre treed lot, new appliances, extras, estate sale. Vi, Ext. 5169 or 744-6043.

SHOREHAM - N25A, SWR SD, low taxes, 4-bdrm. Col., 2½ baths, 2-car gar., bsmt., energy eff., encl. porch, fenced yard, large rooms, lots of storage, 10 min. to Lab. Rich, Ext. 744-0960.

SPEONK/WESTHAMPTON - 2-bdrm. 1987 mobile home, w/d, shed, 14"x60" bay window in l/r, eik, $38,500. Dave, Ext. 5460.

STONY BROOK - 4-bdrm. Gladstone Colonial, l/r, d/r, 2½ baths, 2-car gar., ⅓ acre, 3VSD, $152,000. 424-6487.

YAPHANK - Whispering Pines, 3-bdrm. townhouse, a/c, bsmt., gar., fp, $120,000, neg. 924-2726.

STUART, FL - waterfront condo, 2/2, screend porch, pool, clubhouse, sauna, boat dockage, furn., $81,500. Beth, Ext. 3555 or 572-0706 eves.

WESLEY HILLS/SPRING VALLEY, NY - 11-rm. Colonial, cac, 4 bdrm., fin. bsmt., new 12'x24' deck, cedar shingles, fenced yard, low tax, 2-car gar., alarm system, Eugene, Ext. 7113.

HUBBARDTON, VT - 38 deeded acres situated on town-maintained road w/power & telephone, largely wooded w/view of Lake Bomoseen, ask. $34,000, neg., terms avail. Tom, Ext. 2823.

Wanted

BOXSPRING - for full-size bed, reasonable. 288-0889.

CAREGIVER - for 7-mo.-old child, 3 half days a week, starting in fall. Steve/Alison, Ext. 4723 or 369-4922.

ESTIMATES - for hard floor finishing & sheetrocking & spackling. 288-0889.

FLOTATION TANK - reasonably priced. 298-9560.

GAY WOMEN & MEN - join us for our next on-site meeting, Fri., 8/30, dinner to follow. 929-0847 after 8 p.m.

HOUSEMATE - to share waterfront house in Center Moriches, priv. bed/bath, rent $350/mo. + ⅓ utilities. Gail, Ext. 3429 or 878-4130.

HOUSE TO SIT - free, reliable, exp., avail. Aug. 25 to Sept. 15. J. Allentuck, Ext. 2412.

HOUSESITTING - mature couple would like to housesit this winter while their house is being refurbished. 878-6154.

OUTBOARD MOTOR PARTS - for Mercury V-6. Ext. 5249 or 331-5874.

POTENTIAL GRADUATE STUDENTS - in health physics interested in taking graduate courses at BNL in health physics,, John Aloi, Ext. 5565.

ROOM TO RENT - near Lab, house or apt. Joe, Ext. 2310 or 281-2714 eves.

WET SAW - for cutting bricks, rent or buy. Tony, 698-9274.

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