

## Emma Heads New Division

To recognize the increasing importance of protecting government property and to consolidate groups involved in these efforts, a new division is being created at BNL. Effective October 1, the Safeguards and Emergency Services Division will come into existence, and Leonard C. Emma, currently Assistant to the Director, will head the division. In this capacity, he will report to Associate Director Victor Bond.

Under Emma's jurisdiction will be the Police, Fire/Rescue Group, and the Hazardous Waste Management Group, all now under the Safety & Environmental Protection Division (S&EP); and the Isotopes & Special Materials Group, now under the Reactor Division. None of the groups will move from their present locations, but as of October 1, they will report to Emma.



Leonard Emma

The new division will be involved in cooperative efforts with both the Safety & Environmental Protection Division and the Technical Support Organization (TSO) of the Department of Nuclear Energy. Relations with S&EP will be close in regard to emergency planning and fire protection. And, concerning work with TSO, Emma says "safeguards research and security operations are mutually helpful."

In addition to the protection of special nuclear materials and other government property, the Safeguards and Emergency Services Division will be concerned with classified documents and security clearances.

Emma's new job seems a logical extension of his 21 years' experience at the Lab. A chemical engineer by training, he spent his first eight years here at the Department of Applied Science where he was actively involved, among other things, in the development of processes for radioactive waste disposal. In 1970 he moved to S&EP and, in his ten years there, advanced from special hazards engineer, to supervisor of Hazardous Waste Management Operations, to manager of the Lab's Environmental Impact Statement Project, and to Division Administrator.

Since February 1, 1980, as staff man to the directorate, Emma has worked on both the preparation and implementation of safety policy. He is familiar not only with security procedures in the various BNL departments, but has also interacted with government agencies at the Federal and state levels.

In the formation of his new division, Emma is the only one who will relocate his office. He plans to move to Police HQ at Bldg. 50.



Doug Humphrey

Discussing plans for a new NSLS beam line are (from left) Edward Rubenstein, Department of Medicine at Stanford University; E. Barrie Hughes, Department of Physics at Stanford U.; Albert Thompson, Lawrence Berkeley Laboratory; John Otis, Department of Physics, Stanford U.; Herbert Zeman, Department of Physics, Stanford U.; Roy Blumberg, NSLS; and Bill Thomlinson, NSLS. These scientists, who study angiography, attended the recent conference on synchrotron radiation instrumentation held at Berkner Hall this week.

## A Potential Use for the NSLS: X-Rays of the Heart

*It was billed as a national conference, but the gathering had an international look about it, as U.S. scientists huddled in discussions with their counterparts from England, France, Germany, China and Japan.*

*The third National Conference on Synchrotron Radiation Instrumentation, held at Brookhaven on September 12-14, drew well over 200 physicists, chemists, biologists and engineers. Such is the growing popularity of synchrotron radiation as a research tool, that conferences are held on single aspects of synchrotron radiation, in this case the instruments used in machines built to produce the radiation.*

*Among the conference participants was a group of researchers who think synchrotron radiation will play a vital role in future health care. They are studying it as a way to make x-rays of the heart, to do angiography.*

The leading health problem in this country is premature disease of the coronary arteries, noted Edward Rubenstein, a member of the angiography group and physician with the Stanford University School of Medicine. About one million heart attacks occur every year. Half of them are fatal, and of those, half are sudden deaths of persons thought to be in good health.

The disease is prevalent and dangerous. Yet if diagnosed early on, it can be surgically treated with a coronary bypass and also treated with drugs.

Rubenstein says the problem lies in testing people for the disease, since present tests are not good. Those tests not dangerous to the patient provide poor information. The one test that is sensitive is too risky. It involves putting a catheter in a coronary artery and injecting an iodinated contrast agent directly into the artery, thereby temporarily displacing the blood before taking an x-ray of the heart. Complications from this invasive procedure include bleeding, stroke, even heart attack. The test is also expensive, costing about \$3,000.

What's needed is an improved method of angiography of the heart. Among other problems, arteries are in constant motion as the heart beats, and conventional x-rays cannot stop that motion.

Recognizing this need, Rubenstein, together with E. Barrie Hughes and Robert Hofstadter of the Physics Department at Stanford University, four years ago proposed a technique that uses synchrotron radiation as an x-ray source. Says Hughes, the advantages are many. The finely tuned x-rays greatly increase the iodine sensitivity and simultaneously permit other body structures to be strongly suppressed in the image. This allows the arterial catheter to be eliminated and permits the contrast agent to be safely injected through a vein. Also, the high intensity of the x-ray beam permits stop action photography to

freeze the motion of the coronary arteries.

The Stanford team, also including medical physicist Herbert D. Zeman, cardiologist Donald C. Harrison and graduate student John N. Otis, has been using a synchrotron radiation source at the Stanford Synchrotron Radiation Laboratory (SSRL). They have experimented with phantoms (plastic bodies containing fluids to mimic the structure of a human heart), excised pig hearts (which are anatomically similar to the human heart) and anesthetized dogs. The next logical step is human subject studies.

(Continued on page 2)



Doug Humphrey

Their research is tops. From left, Roger Newman, Hugh Isaacs, Arthur Paskin, George Dienes and Karl Sieradzki.

## BNL Corrosion Studies Best in DOE Competition

Four Brookhaven scientists have been honored by DOE's Division of Materials Sciences for Outstanding Scientific Accomplishment in Metallurgy and Ceramics in the 1983 Materials Sciences Research Competition. The BNL winners are Karl Sieradzki, Roger Newman and Hugh Isaacs (all of the Material Technology Division, DNE), and George Dienes (Physics). Arthur Paskin, Queens College, CUNY, collaborated on the research and was a co-recipient of the award.

The group won for "Experimental and Theoretical Studies of Localized Brittle Behavior During Stress-Corrosion Cracking of Ductile Alloys."

The purpose of this annual competition is to identify individual scientists from the national laboratories who have achieved outstanding research results, and to provide them recognition by the DOE community. All entries are for research supported by the Division of Materials Sciences of

(Continued on page 2)

## Search Committees Appointed

Two search committees have been appointed to recommend candidates for openings in the directorate caused by the request of Victor Bond to increase his research activities, and by the death of Warren Winsche. Bond has let it be known for some time that he wants to relinquish his administrative tasks in order to spend full time on his biomedical research.

Jerome Hudis, Assistant Director, will head the search committee for an Associate Director for Applied Science. Currently, H.J.C. Kouts is acting in this capacity. Responsibility in the directorate for applied science was a large part of Dr. Winsche's job as deputy director, and it is a successor for these duties that is being sought. In this connection, applied science refers to the Departments of Applied Science and Nuclear Energy.

Other members of the committee are Walter Kato, Assoc. Chairman, DNE; Veljko Radeka, Head, Instrumentation; Stuart Harris, Dean of Engineering, SUNY, Stony Brook; and Ralph Schwarz, Vice-Dean, Engineering and Applied Science, Columbia University.

Richard Setlow, Chairman of the Biology Department, will chair a committee to look for a successor to Dr. Bond as Associate Director for Life Sciences. This position includes responsibility in the Director's Office for the Biology and Medical Departments and the Safety & Environmental Protection Division.

With Setlow on this committee are Arjun Chanana, Pathology Head, Medical Dept.; Marvin Kuschner, Dean, School of Medicine, SUNY, Stony Brook; and Franklin Hutchinson, Dept. of Molecular Biology and Biophysics, Yale University.

Suggestions may be referred to any member of the appropriate committee. Both committees plan on presenting their recommendations to the Director within two months.



Margaret Courain

## WIS Lecture

Margaret E. Courain will lecture on "Design and Development of National Environmental Data and Information Systems" at 3:30 p.m. on Monday, September 22, in the conference room of Building 318 at 1 S. Technology St. The lecture is sponsored by BNL Women in Science and all interested Laboratory staff are invited to attend.

Courain is Deputy Assistant Administrator for the National Environmental Satellite, Data and Information Service (NESDIS) at the National Oceanic and Atmospheric Administration (NOAA). NESDIS administers a program for the development and use of all operational civilian satellite-based environmental remote sensing systems. Ms. Courain shares with the Assistant Administrator for NESDIS the responsibility for planning and managing the diverse system of data and information centers, as well as providing scientific leadership in the operation of three NESDIS data centers. She also serves as consultant and official representative to national and international science councils concerning oceanic, meteorological and geophysical data.

Ms. Courain came to NOAA from Merck & Co., Inc., where she became senior program manager. Among other things, during her long career there, she developed the computer based scientific information systems into a network with centralized control and decentralized services for 3,000 scientists and managers.

A dinner in Ms. Courain's honor will be held at a Bellport restaurant on the evening of September 22. The cost will be \$16, and reservations can be made by calling Ext. 3336.

## Heart X-Rays (Cont'd)

Their work has been successful so far, and they have enough confidence in their technique to do pilot studies on human subjects. For that, they need to use an x-ray beam as wide as six inches, to match the human heart.

The new beam will be ready at SSRL in 1984. After a year of preparation, they expect to study the first human subjects in 1985. But further expansion is limited at that laboratory.

That's where Brookhaven's National Synchrotron Light Source comes in. Just at the required time, the NSLS will be ready to support a definitive clinical evaluation of non-invasive coronary angiography.

BNL's Bill Thomlinson was instrumental in paving the way for the program at the NSLS. He says a special magnet, already tested on site, will be installed a year from now to provide the high energy, 33 kilovolt x-rays needed for angiography. Already, the NSLS has made a major commitment of funds to the angiography program. (Research at Stanford was initially funded by the Kaiser Family Foundation and the Hearst Foundations. Recently, more support has come from the National Institutes of Health and the U.S. Department of Energy.)

Collaborators in this effort include Albert C. Thompson, at Lawrence Berkeley Laboratory, who fabricated special detectors used to measure x-rays. The detectors are made of lithium drifted silicon. The one planned for use at the NSLS will be six inches wide with 300 individual elements to cover the entire width of the heart.

Another collaborator is George S. Brown of SSRL, who developed the rapid tuning monochromator used in the present program.

The vision shared by all these researchers, including Bill Thomlinson and Roy Blumberg of the NSLS, is a time in the future when synchrotron radiation sources dedicated to angiography will be available nationwide. As Rubenstein points out, the expense of building facilities designed specifically for medical applications would be actually less than what is currently being spent on diagnostic methods that are not providing the information needed for proper preventive health care. —Mona S. Rowe

**Par (golf):** mathematical perfection, usually attained with a soft pencil and a softer conscience.



The Joyce Trisler Danscompany

## Danscompany Here Oct. 4

An evening of modern dance will be presented by the Joyce Trisler Danscompany on Tuesday, October 4. The performance will begin at 8:30 p.m. in Berkner Hall.

The Trisler Danscompany first performed in 1974. It was actually an outgrowth of a workshop production choreographed by noted modern dancer Joyce Trisler, to the music of Stravinsky's Rites of Spring. The production was enormously successful, and during that first year three different seasons were presented in New York City. From then on until her death in 1979, Miss Trisler only choreographed for the Danscompany.

The performance at Berkner Hall is scheduled between two prestigious engagements for the company. Dans-

company will be coming directly from performing at the Kennedy Center in Washington, D.C., and after appearing at Brookhaven, the company will go on to the International Dance Festival in Paris. Danscompany is one of only two companies from America selected to dance in the Festival, the other company being the New York City Ballet.

Tickets for the Brookhaven performance are \$9 each, one price only. They will be sold at the door as well as through the mail. To order tickets by mail, send a check, payable to BERA, to E. Gail Williams, BNL 460, Upton, NY 11973, or to Blanche Laskee, BNL 185, Upton NY 11973. Be sure to include your name, address and number of tickets requested.

## Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Dept. of Commerce, 5285 Port Royal Rd., Springfield, VA 22161. Staff members should call Ext. 5068.

### BNL 51488

Nitrogen Oxides: Health and Environmental Effects Document. R. Frank, K.M. Novak

### NUREG/CR-2475

#### BNL-NUREG-51492

Hydrogen Combustion Characteristics Related to Reactor Accidents. A.L. Berlad, M. Sibulkin, C.H. Yang

### BNL 51639

Demonstration of Integrated Gas-Fired Systems for Space Heating and Domestic Hot Water. Final Report. R.P. Wilson, R.N. Caron, E.P. Demetri

### NUREG/CR-3241

#### BNL-NUREG-51664

Probabilistic Methods for Identification of Significant Accident Sequences in Loop-Type LMFBRs. K.M.A. Jamali

### BNL-NCS-51665

Minutes of the Sixth Annual Meeting of Panel on Reference Nuclear Data. Held at BNL Oct. 15-16, 1981. T.W. Burrows, D.S. Brenner, Editors

### BNL-51666

Proceedings of the Workshop on Coastal Atmospheric Transport Processes. Held at BNL July 13-15, 1982. S. SethuRaman, Editor

### NUREG/CR-3282

#### BNL-NUREG-51671

Internal Hydrogen Embrittlement of Titanium Alloy TiCode-12 at Room Temperature. Topical Report. T.M. Ahn, P. Soo

## Corrosion Studies (Cont'd)

the Office of Basic Energy Sciences.

Judges are drawn from the DOE laboratories as well as from the Materials Sciences staff. Other categories judged, in addition to Metallurgy and Ceramics, were Solid State Physics won by Y.R. Shen, LBL, and Materials Chemistry, won by A. Pines, LBL. Allen Goland, DAS Associate chairman, was coordinator of the BNL awards nominations.

The BNL team's winning research explored one of nature's paradoxes. Many structural metals are ductile alloys which will stretch, rather than break, under stress. However, in certain chemical environments, these same metals become brittle and exhibit stress-corrosion cracking. In their studies of brass and stainless steel, the team showed that some chemical environments — generally aqueous solutions containing various salts — can act on these alloys to make them brittle in a "start and stop" fashion, where a crack that begins in the chemical film surrounding the metal can invade the alloy and grow, intermittently, to distances of approximately one micron. Up until now, Newman said, "Many people didn't believe that this kind of behavior was possible in a copper alloy. This research enables us to understand a lot better the metallurgical side of these particular phenomena."

## Tokyo Quartet at BNL Sept. 28

The popular Tokyo String Quartet will return to Berkner Hall on Wednesday, September 28. This will be their fourth concert at Brookhaven in the last seven years. On the program is Haydn's "Horseman," Op. 74, No. 3; Beethoven's "Harp," Op. 74; and the third Brahms Quartet, Op. 67. Once again, the artists will perform on four instruments crafted over 300 years ago by the Italian luthier Nicolo Amati. Tickets for the performance will be sold at the door the night of the concert. General admission is \$7; students and senior citizens are \$4; and those under 18, \$3. The Tokyo Quartet will present the first concert in the 1983-84 Concert Series. If you are planning to attend most of the six concerts in the series, you can purchase general admission block tickets at \$5 a ticket for a minimum of five tickets. They are good at any concert, with one exception — only one out of every four block tickets can be used for the Tokyo performance.



## Micom Meeting

The next meeting of the MICOM Users' Group will be Wednesday, September 21 at 3 p.m. in Conference room 2-160, Bldg. 510A (Physics). Ruth Stannish, MICOM representative, will explain setting up "FORMS" (mode citrole). For further details, call Ellen Citrolo, Ext. 4486, or Nancy White, Ext. 3793.

## IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on September 22, at 6 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the president's report.

# BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

BERNICE PETERSEN, Editor  
MONA S. ROWE, Assistant Editor  
ANITA COHEN, Reporter

35 BROOKHAVEN AVE., UPTON, N.Y. 11973  
Telephone (516)282-2345

## Football

The BNL Touch Football League Committee announces that play will begin on September 22 and extend to the end of October. Games will be played at the BERA Recreation Park on Monday and Thursday evenings at 5:20.

Contact Ed Taylor, League chairman, on extension 7589, for entry blanks and further information. New teams are welcome and a players' pool will accommodate those individuals who would like to play but are not included on an organized team's roster.

Since no blocking and limited body contact are part of game rules, players of all ages can take part with little fear of being injured.

## PSI News

The Upton Chapter of Professional Secretaries International will hold its first meeting of the season on Monday, September 19 in Room 101 at 6 p.m. in the Chemistry Building. Speaker for the evening will be Jean Tuthill, Suffolk County Treasurer. Ms. Tuthill is a past member of PSI and will talk about women in government, with emphasis on her present duties. The meeting is open to all interested employees.

## Eat, Drink and Be Entertained

Dinner-Theater — if that phrase conjures up pleasant memories of a BERA-sponsored evening five years ago, or if you missed the last affair and have been hoping for another chance ever since — here's some good news! The BERA Special Events Committee, chaired by Rosalie Piccione, has planned another Dinner-Theater, to take place in Berkner Hall on Friday, October 14, and again on Saturday, October 14.

At only \$17 a person, the 1983 Dinner-Theater will actually be a four part extravaganza, with the evening's excitement and entertainment distributed as follows:

6:30-7:30 — Cash bar

7:30-9:00 — Dinner — a five-course meal, including choice of Prime Rib or Chicken Cordon Bleu, and wine.

9:00-11:00 — Theater — "Murder at the Howard Johnson's," a hilarious stage play written by Ron Clark and Sam Bobrick, and presented by the Broadhollow Theatrical Production Corporation.

11:00-1:30 — Dancing — to the music of the "We the People" Dance Band, led by BNL'er Frank Kito.

Tickets to this Special Event will be on sale beginning Monday, September 19, in the Cafeteria from 11:30 a.m. to 1 p.m., and from the following ticket sellers:

Blanche Laskee, Ext. 2873, Bldg. 185

Betty Pergan, Ext. 2937, Bldg. 179A

Rosalie Piccione, Ext. 3160, Bldg. 355

Marge Stoeckel, Ext. 2459, Bldg. 134A

The last day for ticket sales will be October 5. Dinner choices must be specified when tickets are purchased.

## Arrivals & Departures

### Arrivals

Norma R. Cicale ..... Chemistry

### Departures

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

Karl J. Smith ..... Chemistry

## Quilting Club

The Quilting Club will meet on Tuesday, September 20, from 9:30 - 11:30 a.m. in the lobby of the Brookhaven Center. Please bring your sewing tools and fabric scraps. Also, an evening meeting will be held on September 22. For time and location, call Bernie Benz, 928-1068. New members are welcome.

## Diners Note

The cafeteria will be closed on Saturday, September 17. On that day, snack bar service will be available from 9 a.m. to 2 p.m. at the Brookhaven Center.

## Astronomy Club

A meeting will be held at sundown on Friday, September 30 (rain date, October 7) at the club's observatory site. All those interested are invited to attend.

## 1983 Softball Champs



Mort Rosen

League I softball champs for 1983 were the Blue Jays: (front, from left) Juan Alvarez, Hank Arnesen, Nick Pisco, Larry Musso, Frank Palmeri, Jim Amandola; (rear, from left) George Oldham (captain), Luis Nieves, Dave Hansen, Walt Chornoma (manager), Jeff Droskoski, Bob Meier, Dennis Hall; (missing) John Blydenburgh, John Caime. The Blue Jays finished the regular season with a record of 11-3, but lost to the Phoubars in the first playoff game. Later, however, the Phoubars were defeated by the playoff champions, the Six Pax.



Roger R. Stoutenburgh

Roga led League II this summer, winning 12 softball games and losing only two, then holding on to emerge victorious in the playoffs also: (front, from left) Ken Vitkun, Ken Rogers (captain), Lou Cannizzo (co-captain), Harold Marshall; (rear, from left) Dave Dougherty, Bill Lenz, Pete Ratzki, Biays Bowerman, Bill Schoenig; (missing) Jay Adams, Ted Erickson, Tom Holmquist, Mike McKenna, Joel Scott, Lou Snead, Masaki Suenaga.



Roger R. Stoutenburgh

The Survivors lived up to their name handsomely this year, winning the League III playoffs as well as 12 of their 15 softball games: (front, from left) Sydell Lamb, Henrietta James, Jim Garrison, Rosemary Taylor, Linda Woodson; (rear, from left) George Greene, Leroy James (co-captain), Bob Brown (captain), Ken Sutter, Allen Woodsen; (missing) Cynthia Church, Randy Church, Kay Hunt, Jackie Larrie, Wayne Parham, Ed Taylor, Mac Thomas.



Roger R. Stoutenburgh

The numbers tell the story of The Source's regular softball season, but they ended the year with 17 wins and no losses by also capturing the League IV playoff title. Shown here with the team's mascots are (front, from left) Ed Meier, Anita Cohen, Kathy Barkigia, Louise Chinn (co-captain), Mary-Grace Meier, Sharon Moore, Norene Lucas, Ruth Sheehan; (rear, from left) Dan Mullaly, Mike Iarocci, Bob Jones, Adrienne Usher, Marty Van Lith, Dennis Klein, Joe Sheehan (captain), John Usher; (missing) Tom Emge.

# Classified Advertisements

## Placement Notices

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

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

**LABORATORY RECRUITMENT:** Opportunities for present Laboratory employees.

1939. OILER — MECHANIC - Central Shops Division.

1940. CLERICAL POSITION (part-time) - Requires excellent typing and communication skills. Will be responsible for report preparation on a word processor and computer data entry. Prior word processing experience and shorthand desirable. Director's Office.

1941. TECHNICAL POSITION - Requires AAS in a physical science or equivalent and significant mechanical skills for the assembly, maintenance and use of chemical instrumentation. Will also be responsible for maintenance of 2 MeV Van de Graaff. Knowledge of chemical procedures very desirable. Chemistry Department.

**OPEN RECRUITMENT:** Opportunities for present Laboratory employees and outside applicants.

1942. SENIOR STATIONARY ENGINEER - Requires demonstrated experience in the maintenance, repair and operation of high pressure boilers firing #6 fuel oil. Current stationary or marine engineer license is highly desirable. Plant Engineering Division.

## Autos & Auto Supplies

TIRES - (6) for \$250, separate \$50 ea., (4) P235/75R15, (2) 10x15LT, 1 car tire F70x15, \$50. Ext. 2238.

81 HONDA DIRT BIKE - XR80, mint cond., \$500. 286-0372.

FUSE EMERGENCY KIT - British autos, i.e., Austin Healey, Triumph, M.G., Jaguar, Susan, Ext. 4267.

76 VOLARE - 4 dr. sedan, a/c, radio, \$1,000. Ext. 3844 or 286-0549.

73 PLYMOUTH SATELLITE WAGON - \$500. Ext. 3963 or 928-0516 after 6 p.m.

TIRE - Firestone, J78-15, Super-R-Belt, new, \$30. Ext. 2967 or 924-0565 after 6 p.m.

MECHANIC'S SCREW JACK - 5' high, closed like new, \$40; state insp. equipment. Dan, Ext. 4987.

82 CITATION - 4 dr., 4 cyl., a/t, a/c, p/s, p/b, 36,000 mi., \$5,895. 981-3401.

USED CARS - \$1,000 and up. Steve, 929-6877 after 5:30 p.m.

82 TOYOTA TERCEL LIFTBACK - std. trans., a/c, am/fm cassette, extras, excel., \$6,800. 473-0963 or 751-8598.

SLIDE ON CAMPER - for 8' bed pickup, stove, sink, lights, dinette, cabinets, \$500. 928-8709.

79 HONDA CIVIC - 4 spd., silver & black, am/fm cassette, 30-40 mpg, excel. cond., \$2,750. Mike, 698-5649.

77 AMC HORNET - am/fm stereo, vinyl top, roof rack, \$1,800. Olav, Ext. 3927.

69 CHRYSLER ENGINE - 440 cu. in., \$75; intake & exhaust manifold for Chrysler slant 6 engine, \$20. 924-8213 after 5:30 p.m.

76 CHEVETTE - new tires & brakes, am/fm, 55,000 mi., good condition, \$2,500. 447-0047 days.

73 FORD MAVERICK - 6 cyl., auto, \$1,000. Ext. 4846 or 363-6940 after 5 p.m.

75 HONDA - Motorcycle 125CB, \$325. Warren, 472-1473

67 CHEVY - parts or whole. Steve, 981-4681.

82 HONDA ACCORD - 4-dr., a/c, am/fm stereo cassette, cruise control, 5-sp. \$8,500. Linda, Ext. 2816.

73 VW - Super Beetle, green, needs some work, \$500. Nick, Ext. 2490 or 286-1816 after 6 p.m.

70 NOVA - 307 V8 Hooker headers, side pipes, chrom slotted all sides, cassette stereo, \$1500. Jeff, 588-1421.

71 VW BUG - Good cond., \$1,050. Ken, Ext. 4028 or 286-1060.

76 CHEVY CAMARO - 6 cyl, \$1500. or best offer; Canvas Top for 79 Jeep, beige, never used, includes doors, \$200. Jody, 286-8041.

79 PLYM VOLARE - 318 cu., \$1200. Mike, 589-0578.

81 PLY HORIZON - excell. cond., 4 sp., 40 mpg, 4 cyl. Sohn, 698-7428.

2 SNOWPLOW BLADES - one/tractor, one/western 7 1/2' pickup, \$150. each. Dick, Ext. 3499 or 589-9103.

66 CHEV SUBURBAN CARRYALL - \$300. John, Ext. 2509.

78 HONDA - 400cc Hondamatic. \$600., John, Ext. 2172 or 744-4386.

82 DATSUN - 280ZX. dk brown leather interior, T-top, 5 spd. 12,000 mi., rustproof, super mint, \$13,200. Robin, Ext. 3872 or 475-0889.

67 DODGE DART - \$495. Robert, 878-1731.

71 OLDS - 98 4 drs., a/c, all power, good transp. \$500. Nicholas, 732-2778.

66 VW VAN - sunroof, dependable, rebuilt eng., 22 mpg. \$450. Phil, 369-2237.

71 VW SUPERBEETLE - \$550. Kathleen 878-9592.

66 MUSTANG - 6 cyl. 363-6845.

79 PLYM VOLARE - 6 cyl., stand, 55,000 mi, excel. cond., avail. after Oct 7, \$2,750. Tsuchiya, Ext. 3531.

65 MUSTANG - \$350. Ken, 281-5565.

61 VW BUG - No rust, good cond., plus spare car for parts, \$375. Erik, 281-5565.

72 MAVERICK - runs well, rusty body, many new parts, \$300. Yves, Ext. 2735.

69 PLYM - Station Wagon, good transp., \$400. Soler, 475-4596.

75 PLYM VALIANT - custom. Horwitz, Ext. 4134.

75 VW BUG - 4 new radials, \$1,200. Dotti, Ext. 2323.

69 DODGE CORONET - runs good, poor interior, some body damage, \$150. After 7 p.m. 281-5563.

68 TRAVEL TRAILER - Trotwood, 21 ft. 363-6845.

73 CHEVY VEGA - runs well, \$300 or best offer. Metz, Ext. 3596 or 821-1039.

73 CHEVY MALIBU - Classic 2 dr, a/t, 8 cyl, \$2100; 77 AMC Matador, 4 dr., a/t, a/c, all power, \$2200. John, Ext. 4898.

SNOW PLOW - and plow frame from 73 GMC elec. hyd. \$350. Tom, 744-5910.

73 RANCHARO - New brakes, new a/t, new muffler system, am/fm cassette, \$1400. Tirre, 281-4392.

78 400CC KAWASAKI - New tires, sprockets & chain; roll bars & luggage rack, saddle seat, 12 K, dealer maintained, \$1000. 281-0360.

73 LINCOLN CONT - low mi., v.g. cond., new tires. Rick, Ext. 2593 or 665-6189.

75 BUICK STATION WAGON - 85,000 mi, good cond. \$950. Ext. 3978 or 282-3186 or Kim 3004.

72 FORD PINTO - \$400. Mike, Ext. 4293 or 567-9362.

69 VW BEATLE - 300. Ext. 4587 or 929-8443.

74 TOYOTA - 2 dr., 4 spd., \$1250. Fred, Ext. 2057 or 261-5735.

74 GREMLIN - \$300. Tung, Ext. 7707.

70 VW BUG - Make an offer to take away for parts, etc. Kevin, Ext. 2377, or 473-0961.

TRAILER - 23', sleeps 8, rollup awning, scissor jacks, antenna, excel. cond., \$5500. Jim, 654-0043.

73 PLYM S.W. - \$500. good cond. Franck, Ext. 3963.

RADIAL TIRES - (2) used H-78-15, \$20 ea.; (2) P185R13, \$25 ea.; (2) new P185-R13, \$35 ea. J. Soler, 475-4596.

**Boats & Marine Supplies**

MOORING - 100 lbs. w/ buoy & chain. 751-6418.

BOAT TRAILER - up to 17' and 1000 lbs., 1982, winch and lights, excel., \$320. 744-7406.

15' SILERLINE - Glass runabout - w/steering, controls, windshield; 33-h.p. Johnson, recently rebuilt; Little dude tilt trailer, all \$900. Tirre, 281-0360.

16' EVINRUDE - 115-h.p. Johnson, new navy top, 82 dilly galu trailer, good cond. \$2000; 81 Evinrude, 6-h.p., \$500. Arthur, Ext. 2705 or 298-9581.

33' HOUSE BOAT - Fiberglass, self contained, complete rebuilt outdrive, price to sell. Pat, Ext. 2939 or 732-1243.

18' THOMPSON LAPSTRAKE - 1964 w/60-h.p. Evinrude motor, trailer, vinyl top, extras, \$1500. Ann, Ext. 7611.

11' SUPER SNARK SAILBOAT - Excel. cond., like new, w/sail, rudder, centerboard, \$275. Janice Ext. 3332 or 589-4153.

**Miscellaneous**

IBM ELECTRIC TYPEWRITER - excel. cond., reasonable. Ext. 3688.

KEROSIN "RADIANT 8" HEATER - 7,600 BTU, 1982, excel., \$80. Fred, Ext. 4988.

WATER BED - king size, includes frame, heater & access. Tom, Ext. 5350 or 929-3298.

DRYER - electric, runs well, 18 yrs. old, new bearing & belt, \$25. Roy, Ext. 4664 or 744-8779.

DRAPES - triple width, avocado, lined, winter weight, gold, spring/fall weight, avocado, summer, \$25. 289-0526.

COCKTAIL TABLE - solid birdseye maple, 24x42, \$50. 289-0526.

RADIO/PHONO - Olympia console, low time turn table, woodwork, excel. cond., \$75. 473-9223.

STEREO CONSOLE - am/fm radio, beautiful Mediterranean style cabinet, \$50. 289-0526.

HEADBOARDS - (2), singl maple, double wrought iron, excel. cond.; Austrian wine faunt, \$15. Ext. 3652.

DECORATIVE DRAPERY ROD - \$50, excel., like new, extends 144'+. 289-0526.

FREEZER - Admiral, 18 cu. ft., upright, excel. cond., \$200. Ext. 7978.

TRUMPET - excel. cond. for H.S. student, \$95. 351-1017 after 7 p.m.

AQUARIUM - 20 gal., \$40; Folk guitar, \$50; Murray 10-speed men's bike, \$55. Ext. 2898 or 363-7620.

SOFA - modern Danish, blue & green striped, 2-bolster pillow backs, good for sleeping, \$30. 281-8943.

MATTRESS - & boxspring, Simmons Beautirest, kingsize, like new, \$250. 732-3951 after 4:00 p.m.

PORTABLE TV - b/w, 13", good cond., \$20. Ext. 4250 or 286-0295.

STEREO STAND - 1 yr. old, \$12. 289-0687.

GOLDEN RETRIEVERS - A.K.C., Champion, 17 pups avail., male & female. 281-2571.

STUDIO COUCHES - corner, 8-track/radio table covers wedges, \$250. Pat, Ext. 3376.

70 BULTACO DIRT BIKE - 250cc, needs work, \$125. John, 744-0049 eves.

FILE CABINET - four drawers, good cond. \$50. Bill, Ext. 4633.

SKI "BIB" PANTS - Women's sz med., worn once, excel. cond. \$20. Fred, Ext. 4988

AIR CONDITIONER - 5000 BTU, Sears, \$45. Sam, Ext. 2018 or 928-3568 eves.

AIR CONDITIONER - 85000 BTU, Sears Coldspot, good cond. \$75. Lola, Ext. 2265 or 289-0567 after 6 p.m.

IBM P.C. - 10 meg hard disc., 512K, memory, color & monochrome video output, extras. Deneuve, 472-9772.

CAR ROOF CARRIER - 37"x37", used once, \$20. John, 744-9677.

TRUMPET - Excel. cond., \$100. Ken, 281-5565.

TWO BIKES - 16 in. boy's, Ross, 20 in. girl's. Peter Ext. 7190 a.m. or 282-3130 p.m.

MET OPERA TICKETS - Balcony, row 5, \$20 ea. Boheme (2), Jan. 6; M. Lescaut (4), March 23. Dave, Ext. 2694 or 941-9022.

MEN'S SPORT JACKETS - sz. 42 long (4), \$5. ea., McGregor corduroy car coat \$5. Alfred, 744-3792.

WROUGHT IRON RAILINGS (2) - Heavy duty, fancy twisted balustrade 3 step 4' stoop. Alfred, 744-3792.

ALUMINUM SIDING - 200 sq. ft., new in box, cream wood grain, foam backed, \$50. Jim, Ext. 2957 or 281-4541.

DISHWASHER - portable, avocado green; GE potscrubber w/butcher block top. \$100. John, 744-9677.

DATA PROCESSING BOOK - First course, \$10. Edward, Ext. 4846.

CLOTHES DRYER - elec., 1980 Maytag, heavy duty, white, excel., \$175. Alcide, Ext. 2075.

MOVING SALE - Dining rm. furn. & l/r set, all like new, Hsing, Ext. 4501 or 924-3792.

BOOK CASE - Mahogany finish, needs paint job. Malay, Ext. 4612.

ANTIQUES - Ann, 924-5107.

LUGGAGE - off white, American Tur. train case, 21", 28" pullman, \$50. Fran, Ext. 2461.

MATTRESS & BOX SPRING - w/frame, queen sz., Simmons Beautyrest super firm, good cond. \$90. Elliot, Ext. 3947 or 475-3431.

CONSOLE AM/FM RADIO - record player, oak, excel. cond. \$50. Frances, 288-2997.

LAWN MOWER - Sears self propelled, 21", 4-hp, rear bagger, 4 yrs. old. \$125. John, 744-9677.

BRASS LOCOMOTIVES - HO gauge; tent, 10'x12'. Ivan, 751-8158.

JUMPING HORSE - lg. excel. but needs dowel, \$10. Rita, 399-0537.

WINDSOR SOUND TV - receives like new, \$15; Grays Hockey Stick, \$15. Sandy, Ext. 4933.

HEATER TEMCO - \$100.; Rims 3 aluminum slots to fit jeep Cherokee or wagoner, 6 lug, \$30.; Skis, Vogel Zebra, \$50. Ed, Ext. 7160.

## Yard Sales

MANORVILLE - 9/17/83, 9-4, North Street & Wading River Rd. Rain date 9/18.

## Lost & Found

LOST - key ring & key holder. lost 9/7/83 in area of Bldg 902 & 197. Michele, Ext. 2927

## Real Estate

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

## For Rent

FLORIDA - West Coast, Springhill, furnished house, golf, tennis, lake, Weeki-Wachi, avail. Oct 15. Ext. 4530 or 261-2719.

WADING RIVER - 1 bdrm. w/house privileges, male, non-smoker, \$225/mo. 929-6078 or 929-4688.

CENTER MORICHES - 3 lrg. rms., kitchen, bath, carpet, priv. ent., no children, 1 mo. security, Oct. occupancy, \$500/mo. 878-0480 eves or weekends.

BROOKHAVEN - studio apt., priv. ent., heat, h/w, a/c, elec., cable TV, utilities incl., \$450/mo. now avail. 286-2588 eve., 654-3877 days.

ROCKY POINT - 1 bdrm apt w/priv. ent. \$360 + util. 744-8901 after 6 p.m.

## Car Pool

BOHEMIA/SAYVILLE - driver to join 2 person pool. Frank, Ext. 2314.

CENTERPORT - would like to start an on time car pool or join existing one. Bob, Ext. 4044.

BELLPORT - Car pool needs more drivers, 8:30 - 5:00. Liz, Ext. 2082 or 286-8563.

## Wanted

RUGS - for Church group, free if possible. Claire, 281-2002.

EXPERIENCED BACKPACKERS - to join trip to Maine for about 1 week in early October. Rick, Ext., 2275.

ROOMMATE - to share house in Medford, 10 min. from Lab. 758-6879 after 5 p.m.

SOMEONE TO TAKE DOWN TREES - for fire wood. Whitey, Ext. 2913.

GUITAR LESSONS - On site would be nice. How about lunch time? Bill, Ext. 2378.

SHELVES - steel storage shelves, 4 or 5 tier, reasonable. Merrill, Ext. 3565.

EXPERIENCED YACHTSMAN - seeks opportunity to sail south this fall/winter. Ken, Ext. 7959 or eves. 581-1169.

AC MOTOR - 5-10 hp, constant duty for air comp., reasonable. John, 744-1650.

ASPHALT ROOFING SHINGLES - any quantity up to 15 bundles. Al, Ext. 2043.

APARTMENT/HOUSE - 2 bdrm, within 10 mi. of Lab., \$500 or less, Raul, Ext. 4331 or 282-3025.

CAR ROOF LUGGAGE CARRIER - 6'; step ladder. Liz Ext. 2082 or 286-8563.

MEN'S BIKE - 3,5 or 10 speed. Paul, Ext. 4045 or 289-5770 after 6 p.m.

3/4 TOP PICKUP - Chevy or Ford, 4x4, must be auto. Dick, Ext. 3499 or 589-9103.

PIANO - Upright or console, excel. cond. G. Price, Ext. 3336 or 472-1419.

ROOMMATE - female, to share 2 bdrm. house in Bellport, 15 min. from Lab. 286-3865 after 2 p.m.

ROCKY POINT - Looking for car pool from Soundview Dr., 8:30 to 5:00 starting Oct. 3. Ext. 3084.

BABYSITTER - for girl 4 yrs., 2 days, 8:15-5:15; boy, 6 yrs. 3:15-5:15, my home. Marie, Ext. 4207 or 744-4047.

MANDARIN - Speaking tutor for three year old. Mona, Ext. 2347, eves. 878-9384.

## Ads for Services may be posted at the BERA Sales office.

## Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of the following week.

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Ads for the sale or trade of firearms will not be accepted.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
- Property for sale or rent cannot be accepted on this form. Special Real Estate Ad Forms are available at the office of the Brookhaven Bulletin, Building 134.

- For Sale: Autos & Auto Supplies       For Sale: Miscellaneous       Wanted  
 For Sale: Boats & Marine Supplies       Car Pools       Free

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |