

Richards To Receive Award From Society of Nuclear Medicine

Powell Richards, Associate Head of the Radionuclide Research Division of DAS, will receive the 1977 Paul C. Aebersold Award of the Society of Nuclear Medicine.

The award is for outstanding achievement in basic science applied to nuclear medicine and will be presented to Richards at the Society's 24th annual meeting in Chicago on June 22.

Richards, who has been at Brookhaven for almost 30 years, has received international attention for his instrumental role in the introduction of technetium-99m to nuclear medicine and his involvement in the development of generator technology, including technetium-99m, iodine-132, strontium-87m, gallium-68 and other radionuclides of medical interest, such as thallium-201 and xenon-127. He has many "firsts" to his credit: the development of the first technetium-99m labeled sulfur colloid, the first labeled chelate (Fe-DTPA), the first instant kit (Sn-DTPA), and the first simple kit for labeling red blood cells with technetium. Richards suggested the potential of technetium-99m in a paper and the proceedings of a conference in Rome in 1960.

For his work in developing and promoting the application of technetium-99m, he was the recipient of the 1972 Radiation Industry Award of the American Nuclear Society.

Richards was a major contributor to the design, construction and operation of the



Powell Richards

Brookhaven Linear Isotope Producer which prepares large quantities of radionuclides for practical medical applications. This facility is used in the Laboratory's interdepartmental nuclear medicine program, and has produced isotopes for research conducted at other institutions since the fall of 1973.



A lot of people were involved in the breakthrough at the Power Transmission Project. Above are some of the happy crew responsible for this achievement. In front, from left, are Warren Robertson (CTI), John McCaffrey, Geoffrey Follenius, Jack Jensen, Eric Forsyth. Second row, John Valek, Dick Osburn (CTI), Fred Kuhn, Bill Kristiansen, Armin Senn (Sulzer), Bob Gibbs, John Wilcenski, Hans Quock (Sulzer), Frank Kudirka (CTI). Back row, Edward Malcolm, Bill Harrison, Conrad Dabrowski, John Slavik.

Super Cold Heats Up Project

The refrigeration system for the Superconducting Power Transmission Project got very cold one evening last week - 7° K, to be exact. Did anyone complain? No sirree. Because that's what the whole group had been waiting for.

The successful cool-down of the 500-watt experimental helium refrigerator represents the first milestone in the power transmission project. Without reliable refrigeration, the project could go nowhere. "Superconductivity is a wonderful thing, as long as you keep it cold," says Jack Jensen, who is in charge of the cryogenics, "and we now believe we have the machine to do it.

It is the general consensus that a lot of credit for the success of this operation on its first run goes to engineer Bob Gibbs and the crew headed by John Wilcenski at the project's 5th Avenue site. "The painstaking design, testing and quality control measures they took made everything run like a Swiss watch," Jensen said. Gibbs is in charge of construction, design, testing and assembly of the equipment and systems at the site. The design and layout of the complex piping system was done by Art Blumert.

Right from the start, the goal of the group, under the leadership of project director Eric Forsyth, was to have the system work on its first run. That it did so is a tribute to the extraordinary care taken every step of the way by the dedicated staff.

There are a number of other "firsts" connected with this operation. It is the first super critical refrigerator designed and built for a specific purpose. It makes use of three gas bearing turbine expanders, and the No. 3 turbine expander is the first turbine known to operate below 10° K in a large refrigerator.

It is the first integrated screw compressor

system designed in the U.S. to operate with high reliability on a refrigerator of this type. Back in 1972, Jensen and John Dean, a former BNL staff member who has now moved to Los Alamos, decided to go with an oil injected screw compressor instead of a reciprocating compressor, then generally in use. They also wanted gas bearing turbine expanders, rather than reciprocating expanders. Because they were not made in this country, Jensen investigated in Europe and chose turbo expanders made by Sulzer Bros. Ltd., Switzerland.

The compressor could not be purchased directly from the manufacturer, so specifications based on the BNL design and on specific equipment were sent out, and Cryogenic Technology Inc., (CTI) Waltham, Massachusetts, was the successful bidder. They supplied a 350 hp semi-hermetic compressor, built by Dunham-Bush, Inc., Hartford, Connecticut. Jensen designed the cycle, and with the help of Sulzer and CTI engineers, developed the cold box.

Representatives from both Sulzer and CTI were present the night of May 19 when the 7° K temperature was reached.

The work done at BNL has been influential in the present-day design of helium refrigerators, which are now used principally in research and may later be important in energy production systems. "I don't know of one now being made in this country," says Jensen, "that doesn't have screw compressors."

The oil removal from the helium was a problem, but now the group thinks they have it licked with a series of filters and adsorption. Last week a laser particle detector was tested which measures particulate matter in the helium flow down to a few

(Continued on page 2)

Lipscomb Lecture

William N. Lipscomb of Harvard University, 1976 Nobel laureate in Chemistry, will address a special joint BNL/SUNY colloquium at Berkner Hall on Thursday, June 9 at 10:30 a.m. Professor Lipscomb will deliver his Nobel lecture on the boranes and their relatives.

In addition to his pioneering work on boron hydrides cited by the Nobel committee, in recent years Professor Lipscomb has worked in the area of protein crystallography. His group has studied the relationship between the structure and function of the enzymes aspartate transcarbamylase and carboxypeptidase A.

A graduate of the University of Kentucky and Caltech, Lipscomb spent 13 years on the faculty at the University of Minnesota, before moving to Harvard in 1959, where he is now Abbott and James Lawrence Professor of Chemistry. He is a member of the National Academy of Sciences and recipient of numerous honors, including the ACS Peter Debye Award in Physical Chemistry (1973), in addition to the Nobel Prize.



William N. Lipscomb

Smoke Detectors

The long-awaited smoke detectors have arrived, and can be picked up at the Cafeteria, Tuesday through Thursday, June 7-9, between 11:30 a.m. and 1:30 p.m.

Selected Reading

Bull. At. Sci. 33, May 1977

Genetic research: A new Faustian bargain?

A legal officer's dilemma. L.J. Lefkowitz. 11

An imaginary monster. J.D. Watson. 12-13

Guidelines that do the job. W.P. Rowe. 14-15

Present controls are just a start. R.P. Novick. 16+

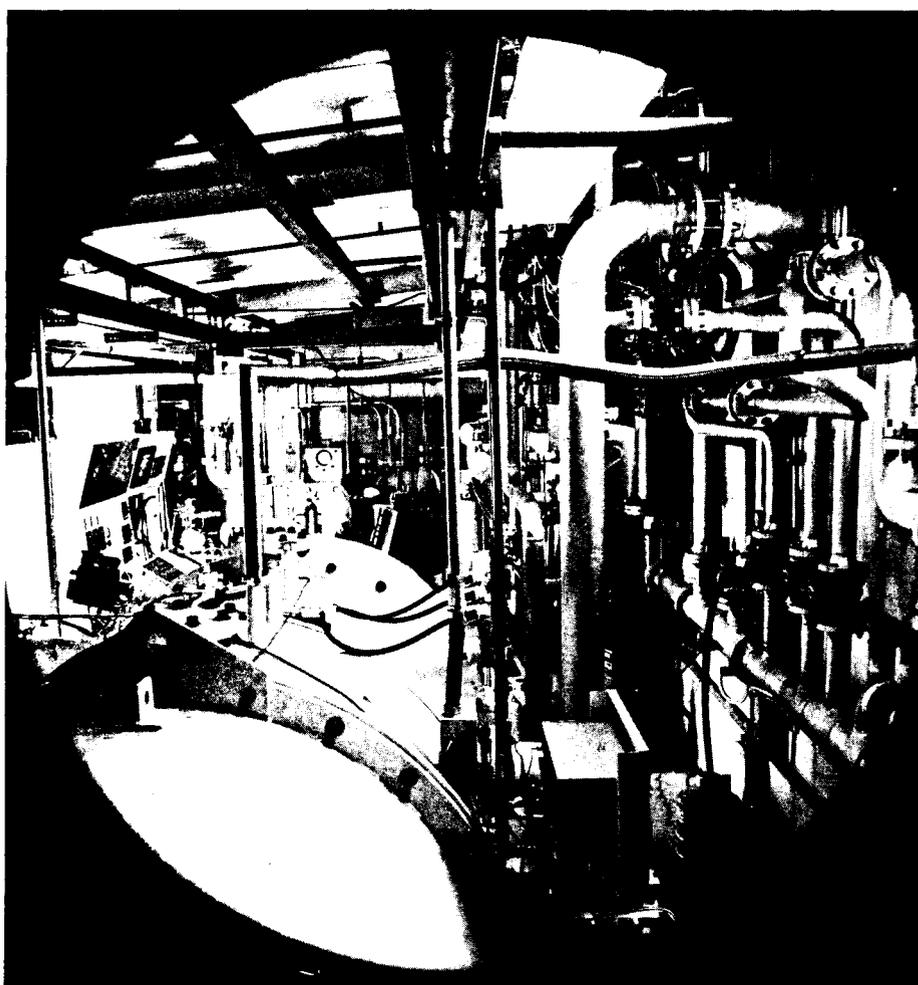
The Cambridge Experimentation Review Board. 22-7

The goals of science. S.E. Luria. 28-33

Beyond SALT II - a missile test quota. S.D. Drell. 34-42

Science 196, May 20, 1977

Science in the White House: A new start. L.M. Branscomb. 848-52



Bob Gibbs checks a helium mass spectrometer leak detector in the Refrigeration Equipment Building. The Cold Box is the left foreground. Helium filters and vacuum piping are on the right, the 350 hp screw compressor can be seen in the background.

Refrigeration System (Cont'd)

parts per billion. This is particularly gratifying because other instrumentation was not sensitive at this level, and pure helium is vital to the refrigeration. The technique was developed by Bill Harrison on the power project staff, and by Fred Schofner of the University of Tennessee.

The BNL power transmission project is one of two such programs in the U.S. The other is at Los Alamos. The purpose of the project is to develop the equipment and demonstrate the feasibility of an underground transmission system using superconducting cables that would deliver large blocks of power, for instance, all the power from the proposed Jamesport and Shoreham plants, to a metropolitan area, in this case, New York City. At present, they are

only concerned with transmitting power a distance of about 50 miles.

Now that the first refrigerator has been successfully pioneered, plans are already under way to modify and improve it. More efficient methods, which require an additional turbo expander, have been developed by Gerry Morgan and Jensen.

The next step is to install 100 meters of the cryogenic envelope which will enclose the cables. Late this year, they expect to connect the refrigerator to the envelope, to test the helium flow. Kurt Minati has been principally involved in the design of the envelope.

The program is funded by ERDA's Office of Conservation through its Advanced Power Delivery Systems, Electrical Energy Systems Division.

Arrivals & Departures

Arrivals

James M. Chen.....	Appl. Science
Honor T. Ho.....	Medical
Andrew W. Jackson.....	Appl. Science
Hsi-Nan Lee.....	Appl. Science
Edward T. Lessard.....	Safety & Env. Prot.
Stuart Z. Levine.....	Appl. Science
Edward A. MacDougall.....	Appl. Science
James McBreen.....	Appl. Science
Robert G. Malone.....	Appl. Science
Geerd-Jurgen Meyer.....	Chemistry
Svein Nordensen.....	Chemistry
Roy R. Risch.....	Plant Engrg.
Jonathan B. Sanborn.....	Appl. Science

Departures

Frank A. Bugala.....	Safety & Env. Prot.
Charles L. Frank.....	Accelerator
Frank J. Garafola.....	Central Shops
Vivian L. Jones.....	Medical
John R. Lehner.....	Appl. Science
Sergio Moehlecke.....	Appl. Science
Young L. Nam.....	Appl. Science
Douglas G. Olson.....	Appl. Science
Charlotte M. Schuette.....	Personnel
David Y. Tang.....	Chemistry

Cafeteria Menu

Week Ending June 10, 1977

Monday, June 6

Tomato bouillon	
Franks & beans	1.10
Barbecued fresh ham & 1 veg.	1.35
Hot deli - pastrami	

Tuesday, June 7

Cream of chicken soup	
Chopped steak & 1 veg.	1.15
Chinese pepper steak on rice	1.30
Hot deli - knockwurst	

Wednesday, June 8

Puree of mongol soup	
Shrimp chow mein on rice	1.15
Corned beef & cabbage	1.35
Hot deli - Italian sausage & peppers	

Thursday, June 9

Split pea soup	
Broiled chicken livers & 1 veg.	1.05
Short ribs of beef & 1 veg.	1.35
Hot deli - roast beef	

Friday, June 10

Clam & celery soup	
Seafood cakes & spaghetti	1.10
Pot roast & 1 veg.	1.35
Hot deli - smoked tongue	

Service Awards

June

Thirty Years

John P. Binnington.....	Technical Information
Andrew Cendrowski.....	Applied Science
James J. Connell.....	Supply & Materiel
Angelo A. Didio.....	Plant Engineering
Richard W. Dodson.....	Chemistry
August P. Francois.....	Supply & Materiel
Henry P. Kurz.....	Plant Engineering
John G. Markott.....	Accelerator
Casimir Z. Nawrocki.....	Instrumentation
Joseph A. Perry, Jr.....	Supply & Materiel
Jay C. Rowland, Jr.....	Plant Engineering
John Scandizzo.....	Plant Engineering
John P. Schneider.....	Supply & Materiel

Twenty-Five Years

Althea F. Glines.....	Applied Science
Virginia R. Sayre.....	Director's Office
Charles H. Waide.....	Applied Science

Twenty Years

Jean C. Byrne.....	Staff Services
Robert E. Chrien.....	Physics
David W. Potter.....	Instrumentation

Ten Years

John E. Barry.....	Applied Science
Grace E. Kyhl.....	Applied Mathematics
Phillip Thomason.....	Plant Engineering

Oriental Graphics

Contemporary Japanese Posters will decorate Berkner Hall from June 7 through June 26. These imaginative posters demonstrate the influence of Western culture on post-war Japan combined with a distinctive Nipponese approach to poster graphics.

The exhibition will include 47 examples of current poster art in the areas of theater, food, cosmetic, books, clothing and other product advertising.

The poster show was originally organized by the Japan Cultural Society and was seen at Japan House in New York and at a number of other museums across the country. It is now a presentation of the Gallery Association of New York State.



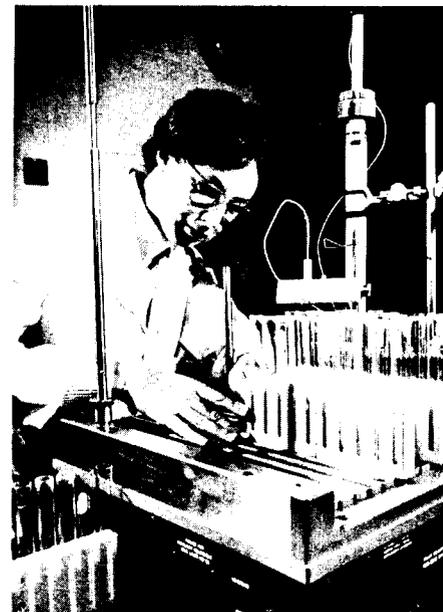
"In fact, we will have to give up taking things for granted, even the apparently simple things. We have to learn to understand nature and not merely to observe it and endure what it imposes on us. Stupidity, from being an amiable individual defect, has become a social crime."

— John Desmond Bernal (1901-1971)

"One of the greatest pains to human nature is the pain of a new idea."

— Walter Bagehot (1826-1877)

Medical Mini Tour



Several different aspects of medical research will be featured in this week's mini tours. Today, high school students will visit the whole body counter and nuclear medicine areas. Tomorrow, June 4, the public will be invited to a biochemical laboratory where pollutant-DNA interactions are studied by a chromatography technique. Above is Cathleen Tuohy loading test tubes into a fraction collector. Visitors will also be taken to a laboratory where the effect of Tritium (³H) toxicity is being examined and will walk through a radioactive isotope counting laboratory.

—photo by Rosen

In Vino Veritas

A wine-testing will be held by *Le Cercle Francais du BNL* at 8 p.m. on Friday, June 17, in the Recreation Hall. We plan to serve generous samples of three red and three white wines, with the traditional accompaniments of bread and cheese. For those who are not counting calories, pastries and coffee will be served later in the evening. Members of the BNL community and their friends are cordially invited to attend; those who are not members of the French Club will be asked for a \$3 donation.

It is appropriate that the French Group pay homage to wine, as it is a major industry as well as the principal beverage of France. About one out of seven workers is involved in some aspect of this industry, and the variety of wines produced in France is overwhelming.

Because these events have been very popular in the past, advance reservations are requested, in order that an appropriate amount of wine be on hand. If you wish to attend, please phone Paulette Goodman (744-8449) or Ralph Weston (Ext. 4373 or 286-1353) by Friday, June 10, at the latest.

Golf

A record turnout of 53 golfers battled the wind at the Bellport Country Club last week in the first tournament of the year.

Low gross was won by Dick Hanney with an 82 followed by John Millener and Les Lawrence with 83's. Three golfers tied at 69 for low net - Mike Iarocci, Jack Scharpeger and Alfred Teixeira. In the high handicap category, low net was won by Jon Scott with Tom Holmquist, Bill Taylor and Ted Dahne only one shot behind. Longest drive was won by Bob Casey and closest to the pin was won by Jack Megee with a shot only 18" from the hole.

68 T-BIRD - 4 dr, gold w/black landau top, excel mech cond, body good. 363-7620 eves.

75 TOYOTA MARK II - Am/fm stereo, ac, auto, 18,000 mi, 6 cyl, mint cond. \$4200. 281-7950.

68 PONTIAC TEMPEST - Station wagon, 350 cu in, rebilt eng, 65,000 mi, new tires. \$550. 587-5001 after 5:30.

62 FORD VAN - Econoline, \$2000. Bob, Ext. 3386, 878-1471 after 5:30.

70 GMC - 4 wheel dr, El Dorado 10½' camper, beach equipped, excel cond. 472-1833.

TIRES - 700x13 or C78-13, free installation, \$10 & \$15. Fred Usack, Ext. 4597 lunch time only or 475-4935 eves.

68 SQUAREBACK - Many new parts, excel trans. Don, Ext. 4551, 281-3093.

VW TIRES & RIMS - Installed & leak tested. \$10 & \$15. Fred Usack, Ext. 4597 lunch time, 475-4935 eves.

69 FORD LTD WAGON - 10 pass, auto, ps/pb. \$375. W. Lundgren, Ext. 3800, 585-3794.

76 CHEVY - Nova Concours, 4 dr sedan, red, turbo-hyd trans, ps/pb, am radio, posi-traction, belted steel radials, V8, 305 cu in. Ext. 4526, 473-1816 after 6.

73½ MG MIDGET - Maroon w/8-track, am/fm. Brian, 399-1679 after 5.

73 SQUIRE - Sta wagon, auto, ac, r&h, roof rack, low mi, perf cond. Lyzak, 473-8783.

CUSTOM HONDA - Yosemite Sam, completely chromed, custom paint, 2 racing eng, many extras, best offer. Lyzak, 928-0158 after 6.

69 HONDA MOTORCYCLE - 70 cc, 1500 mi, show rm cond. \$250. Joe, Ext. 3284, 281-8943.

RIMS - Fit Dodge, Plymouth, Chrysler w/2½" diameter hub. \$6 ea. Joe Ash, Ext. 2983.

77 HONDA CIVIC - Sedan, 400 mi, under warranty, am/fm radio, tinted glass. \$3000. Excel cond. 765-5373 after 6.

73 VEGA - Hatchback, auto trans, radio, green, 57,000 mi, 7 wheels, good running. \$550. Saxon, 929-4701.

76 PONTIAC - Trans am, 4000 mi, 455, 4 spd, loaded, excel cond. \$5800. 477-2269 after 5.

69 FORD WAGON - 302, ps/pb/ac, running good. \$575. Steve, 929-4561.

66 CHEVY SS IMPALA - 283 eng, ps/pb, buckets, automatic on floor, excel cond in & out. \$525. 929-4661.

66 MUSTANG - Low mi, new tires, battery, carb, needs body work. \$350. 363-6786.

68 PONTIAC LEMANS - Good trans. \$150. Ext. 3280, 273-7931 after 6.

71 FORD MAVERICK - 6 standard, good for transportation. \$300. Ext. 3280, 273-7931 after 6.

68 AMBASSADOR - 4 dr sedan, ps/pb/ac, many extras, excel cond. Ext. 3120, 924-3831.

74 PLYMOUTH - Gold Duster, 318 V8, auto trans, pb/ps, 4 new tires, excel cond. \$2350. Gene, Ext. 4670, 744-3945.

70 COUPE DE VILLE - Excel cond. \$1400. 281-0268 before 4.

66 OPEL KADET - Good mech cond, new tires & battery, good transportation. \$200. 281-2012.

74 JEEP - ¾ ton pickup, V8, auto, ps/pb, am/fm, white spokes, snows, cap, extras, clean. Asking \$3900. 286-3356.

72 CHEVROLET - Nomad wagon, very good cond, 73,000 mi, auto, ps/pb, am/fm, 8 track stereo. \$1300. Ext. 3979, 345-3076 after 6.

MOTORCYCLE - 72 Honda 350CB, 14,000 mi, excel cond, ideal bike for touring LI, extras. \$500. M. Stelts, 289-0342, Ext. 3744.

73 PLY STATION WAGON - Sport Suburban, ac, towing pkg, excel cond. \$2000. 289-8385, 289-8296.

SEATS - Front for Saab model 96. \$8 ea. Ext. 4240, 286-0295.

Boats & Marine Supplies

AUXILIARY KETCH - Beautiful family boat for bay sailing, easy handling, gaff rigged, dacron sails, 25 hp fresh water cooled motor, center board, 31'. \$3900. 286-0932.

40 HP ELEC START MOTOR - Evinrude w/controls, 2 props, excel cond. \$275. 732-2134.

ANCHOR - 15 lb, Danforth. \$40. Gail, Ext. 3653, 878-4664.

18' ISLANDER SKIFF - 4 cyl, in board, many extras, excel for bay fishing, seats 8. \$695. Tom, 325-1033.

36' EGG HARBOR - 1962 sport fisherman, 2 new '75 engs, sleeps 7, s/s depth, CB, mint. Steve, Ext. 3469, 281-4371.

16'4" ALUM RUNABOUT - Lone Star, 82" beam, trailer, walk through windshield, 2 spare tires for trailer, many extras. \$400. Bob Doering, Ext. 4033, 265-0391, after 6.

MOORING - 50 lb mushroom w/¼" chain & float. \$30. Joe, Ext. 4069.

17' SAILBOAT - Fiberglass sloop, Mobjack class, excel cond, main, jib, spinnaker, trapeze w/trailer. Asking \$1150. Joe, Ext. 4069.

16' GARVEY - Clam boat, needs work. \$75. Chuck, 286-9385.

17' THOMPSON - \$25. For information, call Ext. 2935 or 473-8995.

35 HP CHRYSLER - Excel cond, elec start, 14' MFG boat. Asking \$700. Ext. 2633, 286-1056.

50 HP MERC - 1971 long shaft, controls, trailered only, excel cond. \$400. 286-2616.

26' NORWALK - 110 hp Chrysler eng, sleeps 4, in water, best offer. Ext. 2902, 567-2185.

15' GARVEY - Fiberglassed wood, rebilt Evinrude, trailer, extras. \$750. Ext. 2345, 472-1735 after 6.

Miscellaneous

DEN FURNITURE - Newly reupholstered, tables, lamps, must sell. Steve, Ext. 3469, 281-4371.

ELECTROPHONIC STEREO PHONE - Am/fm phono stereo, in puts for tape, guitar & microphone. \$75. 286-0932, 283-3333.

71 WINNEBAGO - Ac, Dodge, 41,000 mi, generator, sleeps 6. \$7500. 796-1317.

CONCOLOR FIR TREES - 2' \$5 ea. Walt K., 286-0246.

70 WHEEL CAMPER - Sleeps 8, double dinette, stove, gas, elec refrig, excel cond. \$1100. Ron, Ext. 4597. 924-8644.

TRUCK CAMPER - 1973 fun & sun, sleeps 8, excel cond. 727-1324 after 5.

B&W TV - Like new, \$40; steam iron, \$5. Ext. 3979, 345-3076.

STRAWBERRIES - Picked or pick your own, by appt only. 878-0621.

BICYCLES - 20" spyder, \$10; 26" single speed, \$25; sled, used 1 season, \$15; bookcases, bricks & boards, \$20. Ext. 3129.

B&W TV - Portable, \$7. 727-5912.

FLY ROD - Diawa 8' pflugel reel balanced combination, used 1 season, excel cond. \$25. 751-1660.

STEREO - Receiver & speakers, 10 watts, Standard. \$35. Ext. 4240, 286-0295.

HEATHKIT - Model 10-104, 15 MHz, triggered scope, calibrator, 10 MV/Cm sensitivity, factory aligned. Bill K, Ext. 4636.

CAMERA - Mimiya mini-dash press, 6x9, professional 2¼x3¼ negatives, like new, make offer. Mac, 744-0296.

COX CAMPER - 1972, heater, ice box, sink, stove, table, extras. \$700. W. Lundgren, Ext. 3800, 585-3794.

MACRAME HANGERS - All different styles, colors, lengths or custom made to order. Noreen, 281-7873.

TAPE RECORDER - Concertone reverseomatic, 6 heads, sound on sound, top cond. \$190. Ext. 4701, 271-2877.

STRAWBERRIES - Pick-em yourself, baskets extra or bring your own. Jim, 286-0024.

HEATER - Hot water, cast iron, coal burning. C. Davis, 473-1816 after 6.

GLASS DOORS - Sliding, 6' wide, 8' wide, plus extra pane, alum frames, screens, great for cold frame. Jean, Ext. 2902.

CAR RADIO - New deluxe push button Audiobox am. \$20. Jake, Ext. 4532.

MOVING TO FLORIDA - Huge garage sale, June 10, 11, 12. 276 Jamaica Ave, Medford.

HOUSEHOLD ITEMS - Children's typewriter, \$3; tennis racket, \$5; children's boots sizes 10, 12, 3, \$2 ea; baby carrier, \$4; sled, \$3; ladies rain/overcoat, size 8, \$4; children's rain shoes, size 10, 12, \$2 ea; crab traps, \$1 ea; Chinese painting Christmas card, 25¢ ea. Mrs. Mark, Ext. 3177.

SHASTA DAISY - Giant hybrid, you order, I dig & deliver. 50¢ ea. Fred, Ext. 4095.

POOL - 4' x 21' in wall skimmer, s/s filter, all new parts, excel cond. \$300. 588-3792 after 5.

TRAILER - 1971 Tradewinds, sleeps 8, spare tire, sink & stove, awning, 20 lb ice box, hassock pot, jacks extra. 588-5688.

Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue.

10½' PICK UP CAMPER - Maine, sleeps 4, ice box, sink, gas heater. Best offer over \$800. 363-6119.

LILY OF VALLEY PLANTS - 20 for \$1; evergreen fir trees, approx 20" tall, 2 for \$5. 727-1617.

MICROMETER - Starrett, 1", new, \$5; Buick service manual, all models, \$2. 281-9504.

75 COX CAMPER - Cadet, hardly used, sleeps 4. \$875. 727-1617.

AIR CONDITIONER - Chrysler air temp. \$150. 744-3784.

SINK W/FIXTURES - 20" wall mounted, white porcelain, \$10. Pete, Ext. 3350.

PAINT - Sears best exterior acrylic, 5 gals haze blue, 1 gal white. \$20. Pete, Ext. 3350.

WATER SKIS - Thompson bananas, \$25; flat pair, \$10; fishing equip, Carcia 5-star 10' med action rod & Mitchell 402 salt & fresh water reel, \$40; swim fins (8½-10), mask & snorkel, \$10; alum beach chair, \$2. Ext. 4011.

WEDDING GOWN - ¾ length sleeves, size 12, \$75 firm. Sharon, Ext. 3312.

WOODEN DESK - Old, large, 5 drawers. \$50. Sharon, Ext. 3312.

B&W TV - Panasonic, perfect, \$40; portable stereo w/speakers, \$10; steam iron, \$5. Ext. 4076.

GOLF BALLS - Bruised, 20 for \$1, good cond, 4 for \$1. Eve, Bldg 318, Room 42.

MISC - Cot, \$5; kerosene space heater, \$25; baby's changing table. \$10. 744-6362.

20" GIRL'S BIKE - Columbia, banana seat, high rise handle bars, excel cond. \$15. Charlie, Ext. 4691.

21" RCA COLOR TV - Console, good cond. \$85. Bob, Ext. 4636, 289-0357.

COFFEE & TEA SERVICE - Magnificent 7-piece, silver-plate on copper, used once, cost \$350, sell \$100. Alice Perez, 588-9317.

CONCOLOR FIR TREES - 24", \$5 each. Walt K., 286-0246.

ELEC ADDING MACHINES - Surplus, all mfgs, good cond. \$25. Bob, Ext. 4636, 289-0357.

STEREO HEADPHONES - Koss Pro 4AA, brand new, full warranty. \$30. Ext. 4701, 271-2877.

DEN FURNITURE - Love seat, sofa, tables, lamps, rocking chairs. 799-6478.

UPRIGHT PIANO - Old, plays well, good for beginners. Tony, Ext. 3658.

COLONIAL KITCHEN SET - 2 chairs, bench table, 2 leaves, good cond. \$150. 289-3283.

CUSTOM MADE FURN - White velvet sectional w/plastic covers; bedrm set, queen, all wood, Span Med, 6 months old. 473-7655.

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 Sale

TOWNHOUSE - 2 bedrm, 1½ baths, w/w carpet, ac, appl. \$27,500 or \$300/mo rent. Ext. 3541, 924-4070.

STONY BROOK - S-section, 5 bedrm, fp, 3 baths, 2½-car garage, pool, covered patio. Ext. 3319, 751-7140.

CLEARWATER BEACH - 100x140 bldg plot, East Hampton Town, priv beach, marina rights. Asking \$13,000. Ext. 3469, 281-4371.

SHOREHAM - Charming older cape, 4 bedrm, landscaped ½ acre, 2 fp, finished bsmt, 2-car garage w/loft. \$55,000. Ext. 4228, 744-6043.

WADING RIVER - 3-4 bedrm cape, ¾ treed acre, fp, w/w carpet, full bsmt. \$51,900. 929-8313 after 5:30.

STONY BROOK - S-section, 3 bedrm, study, w/w carpet, 2½ baths, appl, mid 40's. Ext. 4663, 751-5479.

MEDFORD PINES - Mother/daughter, 7 appl, 2 baths, 4 bedrms. \$5000 over mortgage. David, 924-7516.

SHOREHAM NORTH - 4 bedrm colonial, 2½ baths, den, w/fp. \$55,000. 744-3660.

ROCKY POINT - Custom blt ranch, L-shaped, 3 bedrm, fp, sunken den, appl, thermo windows. \$46,000. Ext. 3284.

SHOREHAM - 4 bedrm ranch, 2½ baths, fp, w/w carpet, cathedral ceilings, full bsmt, patio, 1 wooded acre, priv beach, mid 80's. Ext. 2439, 744-1428.

MEDFORD - Birchwood Blue Ridge, 1 bedrm, w/w carpet, appl, thermopane windows, ac, clubhouse, pool, golf, tennis, etc. \$29,500. 732-5252, 286-0838 eves.

ROCKY POINT - 4 bedrm colonial, 2½ baths, fp, finished bsmt, ac, wooded setting. \$46,500. Ext. 4362, 744-7667.

BELLPORT - 3 bedrm ranch, 2 yrs, ½ acre, landscaped, part wooded, full bsmt, 5 appl, low down, assumable mort. \$32,500. 286-1440 eves.

N MASSAPEQUA - 3-4 bedrm, split level, ac, fp, huge den, appl, w/w carpet. \$45,000. 796-1317.

E PATCHOGUE - Durkee area, 4 bedrm, fp, 2 baths, garage, glassed porch, ac, part wooded lot. Asking \$70,000. 475-6916.

For Rent

POCONO VACATION - New chalet, sleeps 5, tennis, swim, boat, etc. \$175/wk \$650/mo. Fran, 289-2159.

JULY IN SHOREHAM - 3 bedrm ranch, wooded, priv beach. \$500 + util. Snyder, 744-6648 after 6.

VT CHALET - Furn, fp, recreational area, week, mo & season rates. 757-5599 after 4.

YAPHANK - Rustic cottage, furn, on Carmens River. July and August. \$800 negotiable, suitable 1 person, no pets. 924-4840 eves.

Wanted

GM TODDLER CAR SEAT - Mark, Ext. 4599, 473-6859 eves.

CANOE - 15' or 17' floatable cond or 2-man kyak under \$100. Ed, Ext. 4447, 231-7529.

UNFURN RM - To rent, must be near Lab & inexpensive. Dennis, Ext. 2614.

TYPING - Light, sewing, babysitting, Medford area. 475-0144 after 6.

TIRE - 165-15 Michelin steel belted radial, fair to good cond. 475-0144 after 6.

SUMMER RENTAL - Help pay for your vacation, visiting univ prof w/wife & 3 children (13, 11, 8) wishes to rent house 7/18 - 8/21, local refs on request. Call collect J. Dorning (217)333-3139 or 344-6927.

UTIL TRAILER - Good cond. Nancy, Ext. 2497, 281-2767 eves.

HOME - For young male dog, black lab-setter cross, good w/children. Gil Raynor, Ext. 2268, 727-5194.

1 14" RIM - 4-hole rim to fit Comet (Ford). Ext. 4489.

STAMPS - Foreign & domestic, as well as covers for handicapped person who earns his living from them, send to Claire Hull, Bldg. 490.

DONATIONS - Old & used "unwanted" costume jewelry needed for church fair. Cheryl, Ext. 4231.

REFRIGERATOR - 17 cu ft, 2-dr, top freezer, frostless, white, less than 5 yrs old. 744-8011 after 6:30.

Carpools

NORTHPORT - Existing carpool interested in new member(s). Brian, Ext. 4121.

STONY BROOK - Strathmore, existing carpool interested in new members. Bob, Ext. 3430.

SMITHTOWN/COMMACK - Want to join or start carpool. Ext. 3268.

HAUPPAUGE/SMITHTOWN - Existing carpool interested in new member. Bob M., Ext. 2501.

Services

CHAIR CRAFTING - Pressed or woven by experienced expert craftsman. 727-7796.

CAR WAXING - Steve, 929-4561.

CERAMIC TILE WORK - Cement & terrazzo. John, Ext. 3292.

ROTOTILLING - Gardens & yards, 1000 sq ft/\$16. Tom, 325-1033.

PAINTING - Interior/exterior, high quality, reasonable, estimates. 289-4273 after 4.

MOTHER'S HELPER - Summer job, high school girl, experienced, references, late June - early Sept. Carol, 727-5194.

QUALITY PAINTING - Int/ext, free estimates, refs avail. 878-2357.

TYPING - Term papers, tech, reasonable. Pat, 289-2107.

USED TIRES - Rims, repairs, free installation & leak testing. Fred Usack, Ext. 4597, lunchtime only, 475-4935 eves.

BABYSITTING - Very reliable, will sit weekends, week nights & all summer. Mastic/Shirley. Noreen, 281-7873.

TRIMMING - Grass & hedges, reasonable. Mastic/Shirley. Tim, 281-7873.

MOVING? - Will move your entire home locally. Ext. 3217/3155, 732-3145 after 5:30.

CHILD CARE - My home, 5 min from Lab, highly experienced, love, lunch, fenced play yard. 924-8644.

EXPERT PAINTING - Interior/exterior, free estimates, reasonable rates, refs avail. 473-5079.