BROOKHAVEN BULLETIN
Vol. 46 - No. 45 November 13, 1992
BROOKHAVEN NATIONAL LABORATORY

BNL Lecture: The Turquoise Trail Before Columbus

There are almost no turquoise mines in Mexico.

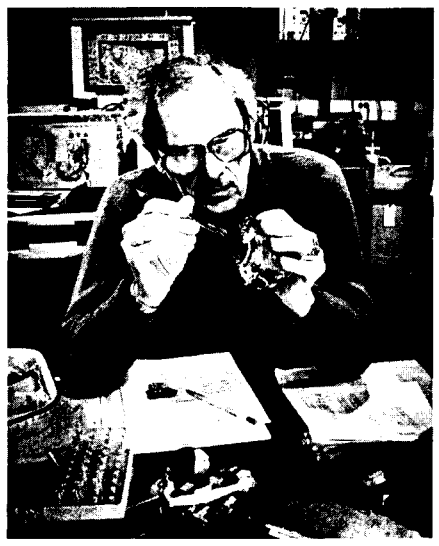
Yet, for nearly a thousand years before the arrival of Columbus, the Mesoamericans who lived in middle and southern Mexico used enormous quantities of this stone for their most precious religious artifacts and best jewelry. These include such magnificent pieces as the human skull inlaid with turquoise representing the god Tezcatlipoca, the gift of Aztec emperor Montezuma II to Spanish explorer Hernando Cortés when he landed in Mexico in 1519.

Where did all this turquoise come from? Was it from the nearest source — the many ancient turquoise mines found in the American Southwest?

In 20 years of research that proved this to be the case, Garman Harbottle of BNL's Chemistry Department and Philip Weigand, of the Coegio de Michoacan, Mexico, and the Museum of Northern Arizona in Flagstaff, developed a theory, which they proposed in the February 1992 issue of *Scientific American*.

To describe this theory and the crucial evidence for it, Senior Chemist Garman Harbottle will present "The Turquoise Trail Before Columbus," as the 282nd Brookhaven Lecture, on Wednesday, November 18, at 4 p.m. in Berkner Hall. Harbottle will be introduced by Associate Chemist Diane Cabelli, the Chemistry Department repesentative on the BNL Lecture Committee.

According to Harbottle and Weigand's controversial theory, so much turquoise came to Mesoamerica from the American Southwest that highly developed trade based mainly on turquoise must have existed between these two regions about 1,200 years ago.


Roger Stoutenburgh

Garman Harbottle

In his talk, which will be copiously illustrated with maps and photographs, Harbottle will briefly survey the history of turquoise and detail its use in Mesoamerica.

Harbottle will then explain neutron activation, the chemical analysis technique that he conducts at BNL, which enables the unique "fingerprints" of elements in known mines to be matched to samples of turquoise. By this method, after analyzing over 2,000 pieces of turquoise from different mines and about 100 artifacts from several major archaeological sites, Harbottle traced dozens of pieces found in Mexico to specific mines over 1,000 miles away in Southwestern America.

With this evidence, and other pivotal supporting facts such as the sophisticated Mesoamerican beveled-edge technique of working turquoise being suddenly used in 1100 in Arizona, Harbottle will summarize how he and Weigand concluded that a formal system of trading between these areas existed from about 700 A.D. until at least the mid-1500s.

After receiving his B.S. from the California Institute of Technology in 1944, Garman Harbottle earned his Ph.D. from Columbia University in 1949 and joined the BNL Chemistry Department that same year.

From 1957-58 he was a Guggenheim Fellow at Cambridge University in England, and, in 1959, he spent a year teaching radioisotope procedures at the American University in Beirut. Later, from 1965-67, he directed the Division of Research and Laboratories at the International Atomic Energy Agency in Vienna. Harbottle is also an adjunct professor in anthropological sciences at the State University of New York at Stony Brook.

In 1983, with Edward Sayre, Harbottle received the George Hevesy Medal for outstanding accomplishment in radioanalytical chemistry.

After the lecture, which will begin at 4 p.m., not at 4:30 p.m. as announced in the Bulletin last week, all are invited to join the speaker for discussion and refreshments. To join the lecturer for dinner at a restaurant off site, call Jean Petterson, Ext. 4302.

Keeping an Eye on Negative Ions

Roger Stoutenburgh

About 100 scientists from 14 countries have been spending this week at the Brookhaven Center, attending the Sixth International Symposium on the Production and Neutralization of Negative Ions and Beams, which started Monday and concludes today.

Held at BNL every three years since 1977, the symposium brings together physicists from many diverse fields to review progress in the development of negative-ion sources, and in the understanding of fundamental processes of these sources and the production of neutral beams. They also reviewed the status of experimental programs in both fusion and accelerator applications. And six scientists who have attended all six symposia at BNL were presented with "16 Years of Perfect Attendance" awards.

This year's meeting was dedicated to the memory of the late Theo Sluyters, who was a founder of the Advanced Source Development Group in the Alternating Gradient Synchrotron Department, which organizes the meeting. Organizers this year included: (from left) Marion Heimerle, Ron Clipperton, Krsto Prelec, Walter Hensel, Lisa Chimento, Ahovi Kponou, and co-chairmen Ady Herschcovitch and James Alessi.

Changes in Pavement Marks Coming at Lab's Main Gate

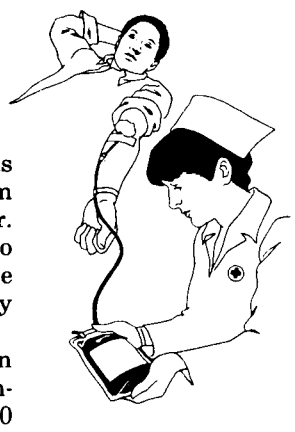
As a result of a number of discussions between BNL and Suffolk County, the county will be making several modifications at the Lab's exits on to William Floyd Parkway.

More information on these modifications will appear in a future Bulletin, but work on two of them is expected to begin very shortly, so they can be completed before the weather gets too cold.

The first change will eliminate the dual left-turn exit from the Laboratory's main entrance, at the intersection of William Floyd Parkway, Longwood Road and BNL's Princeton Avenue. The left-turn pavement arrow will be removed from the westbound right-hand lane, signs will be installed indicating that the right lane is for through traffic only, and the signal time will be increased to accommodate this change.

Also, at the North Gate, the County plans to increase the length of the acceleration lane heading north from BNL onto William Floyd Parkway, by revising the pavement markings to make it easier for Lab drivers to merge with existing traffic.

Make a Commitment, Win a $50 Certificate



BNL's annual winter blood drive will be held this year on Thursday and Friday, December 10 & 11, from 10 a.m. to 3 p.m. each day in the Brookhaven Center. Pledge cards are being sent to all employees, and, to avoid long waits on the days of the drive, prospective donors are asked to return their cards so they may be scheduled for appointments.

To encourage donors to get their pledge cards in early, those who return them by Wednesday, November 25, will be entered in a drawing of five $50 certificates for dinner at a fine Long Island restaurant.

For more information, contact Susan Foster, Blood Drive Chair, Ext. 2888.

Career Days Next Week

Over 300 minority and female students, selected from high schools from Manhattan to East Hampton, will be on site on Tuesday and Wednesday, November 17-18, for the 1992 Career Awareness Event. BNL is sponsoring the event to encourage young people to pursue careers in scientific and technical fields. The students will learn about these career options from Lab staff, at various exhibits and in a panel discussion. For more information, contact Frances Ligon, Office of Equal Opportunity, Ext. 3709.

Volunteers Needed

Male volunteers, ages 25 to 45 and in good health, are needed to participate in brain and heart-imaging studies being conducted by BNL. A fee will be paid. For more information, call Naomi Pappas, Ext. 2694.

Hospitality News

The next meeting of the Women's Forum, which is conducted by Marion Davis-Parzen, will be on Tuesday, November 17, at 10 a.m., in the lounge of the Recreation Building in the apartment area.

The group meets every third Tuesday of the month to discuss women's issues, and to share experiences and concerns. Wives of Lab employees and guests are welcome. Come and bring the children.

Nursery School Holds Bake Sale

The Upton Nursery School will hold a fund-raising bake sale on Thursday and Friday, November 19 and 20, from 11:30 a.m. to 1 p.m., in the Berkner Hall lobby. Information about the school and enrollment materials will also be available. The school, which is not affiliated with the Child Development Center, is a parent cooperative that meets three mornings a week in the Recreation Building on site. For more information, contact Susie Joyce, 929-5914.

Equipment Demo

On Thursday, November 19, from 11 a.m. to 3 p.m., in the lobby of Berkner Hall, Active Electronics will dispay data and technology equipment.

Equipment on display will come from: Allegro Microsystems, Alpha Wire and Cable, American Reliance, Augat, AVX, Beckman Industrial, Cooper Tools, Graseby Plastic Systems, Hitachi-Denshi, I.D.T., Liteon, Logical Devices, O.K. Industries, Quality Technologies, Robinson Nugent, Siliconix, Tripp Lite, Weller, Ungar, Vector and more.

Technical Seminar

Analogic, a manufacturer of precision data-acquisition boards, components and software, will hold a technical seminar and demonstration on Tuesday, November 17, in the Snyder seminar room of Bldg. 911A, beginning at 9 a.m.

Microcomputer Club

The next meeting of the Microcomputer Club will be on Thursday, November 19, at noon, in the Snyder Seminar Room, Bldg. 911. Club president Irving Montanez will talk about accessing the colossal amount of free public domain and shareware software available worldwide from computing facilities that permit anonymous File Transfer Protocol (FTP).

FTP is a procedure for moving files among machines on the Defense Data Network (DDN) and other connected networks. A list of FTP sites and other relevant information will be provided on BNLMCC Disk #11, to be distributed at the meeting.

All are welcome; bring your lunch. For more details, call Irving Montanez, Ext. 2540.

Bowling

Red/Green League

K. Asselta had a 241/200, A. Pinelli 234, R. Eggert, 228, R. Mulderig 221/206, K. Riker 219, M. Guacci 202, G. Meinken 202, R. Wiseman 202, R. Larsen 201, F. Griswold 200.

Purple League

Jim Goode had a 243/605 scratch series, Ed Sperry IV 217, Pat Manzella 205/196/172/573 scratch, Ed Beadle 202, Bob Geib 202, Caryl MacDougall 200/188/182/570 scratch, Kay Conkling 199, Debbie Keating 196/179/536 scratch, John McCarthy 194, Sharon Smith 189/183/533, Denise Monteleone 179, Marilyn Picinich 172.

White League

Ray Raynis had a 212/197/579 scratch series, Ed Meier 211/202/574 scratch, Ken Riker 210/193/580 scratch, Jim Petro 201/540 scratch, Joe Mayeski 199, Norman Fewell 196/553 scratch, Ben Belligan 196, Mike Meier 193/541 scratch, Gerrie Riker 187, Barbara McCarrick 185, Pat Bounauito 182, Diane Lombardi 181, Ginny Waterman 177, Fran Brown 173, Kim Moylan converted the 6-7-10 split.

Note to Employees:

Attendance at lectures, meetings and other special progams held during normal working hours is subject to supervisory concurrence.

Cafeteria Menu

Monday, November 16	
Soup: Navy bean	.80/1.10
Entree: Baked stuffed shells	3.20
Lite choice: Beef & broccoli over rice	3.45
Carvery: Hot pastrami sandwich	2.95
Grill: Chicken breast w/rice	3.95
Special: Purchase a whole cake to go	
Tuesday, November 17	
Soup: Minestrone	.80/1.10
Entree: Beef stew over noodles	3.65
Lite choice: Vegetable quiche	3.20
Carvery: Hot roast beef sandwich	2.95
Grill: N.Y. shell steak	4.25
Special: Greek salad	
Wednesday, November 18	
Soup: Chicken rice	.80/1.10
Entree: Chicken fajitas	3.20
Lite choice: Vegetable lasagna	3.35
Carvery: Hot ham sandwich	2.95
Grill: Reuben w/French fries	2.95
Thursday, November 19	
Thanksgiving Special (look for handout)	
Friday, November 20	
Soup: Manhattan clam chowder	.80/1.10
Entree: Pizza bagels	1.50
Lite choice: Catch of the day	3.45
Carvery: Hot corned beef sandwich	2.95
Grill: Tuna melt w/French fries	2.75

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Call for Voices

All types of voices are needed for the nondenominational, multicultural BNL Gospel Choir, which will sing on February 6, at the 12th annual Gospel Extravaganza, which the Afro-American Culture Club sponsors each year as part of its Black History Month celebration.

No experience with this musical form is required. For information or to join, call Fran Ligon, Ext. 3709.

Classified Advertisements

Placement Notices

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

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

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

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

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

MK 2901. MANAGER, SAFEGUARDS AND SECURITY DIVISION - Requires a bachelor's degree (an advanced degree preferred) or equivalent in a related discipline, extensive background and experience in security at DOE facilities and emergency management, and substantial experience in the management of a large security force. Will be responsible for planning, organizing, and directing all activities of the Division, will act as liaison with federal, state, and local law enforcement agencies, and act as Laboratory Emergency Supervisor in all security emergencies. Will develop division policy, and ensure compliance with DOE and Laboratory policies and practices for protecting and securing nuclear resources, classified information, and other Laboratory facilities, equipment and personnel. Must be able to obtain and maintain a security clearance. Director's Office.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LS 8558. ENGINEERING POSITION - Requires a BSME or equivalent; a PE license and/or master's degree is highly desirable. Must be familiar with underground environmental systems, and safety and operational requirements with sensitivity to radiation considerations and energy efficiency. Must have sufficient engineering and project management experience to demonstrate responsible project leadership. Responsibilities include the management of major construction projects undertaken by the Laboratory, as well as the selection and overall direction of contract engineers and BNL project teams for the design of facilities. Plant Engineering Division.

Motor Vehicles & Supplies

90 BONNEVILLE - 27k mi, silver gray, 4-dr. sedan, asking $10,800. 286-5962.

89 PLYMOUTH SUNDANCE RS - 18k mi., black cherry, 2-dr., a/t, all luxury goodies, $5,990. Eric, Ext. 5875.

87 CHRYSLER LEBARON - 75k mi., a/t, cruise, p/s, ac, am/fm cass., $3,000. Masaki, Ext. 2609/5627 or 341-1082 after 6 p.m.

86 CHEVY CHEVETTE - new brakes, tires, starter, good cond., moving, $1,200. Tony, 286-9426.

86 BUICK SKYHAWK - 4-dr., brown, ac, p/b, cruise, p/l, p/w, runs well, $1,800. Sydell, Ext. 3389 or 727-6385.

85 CHEVETTE - 2-dr. h/b, 51.5k mi., 1.6L, m/t, excel. cond., $2,000. Vincent, Ext. 3772.

84 MERCURY TOPAZ - 5-spd., 110k mi., 33 mpg, mech. excel., body good, $850 or best offer. 929-8443.

83 CHEVY WAGON - p/s, p/b, ac, stereo, AMF, new tires, 140k mi., excel. cond., must sell. Uwe, Ext. 5640 or 286-3701.

83 OLDS DELTA 88 - 94k mi., am/fm cass., ac, p/s, p/b, cruise, v.g. cond., moving, must sell, $1,600 neg. Panu, Ext. 5220 or 341-1076.

82 RELIANT WAGON - body excel., tires good, $1,000. 744-7852 after 5 p.m.

82 NISSAN STANZA - 5-spd., 4-dr., 85k mi., good cond., $1,200. Wei, Ext. 4454.

81 VW RABBIT - 4-spd., stereo, runs well, $650 or best offer. Dennis, Ext. 4218 or 929-5914.

80 MUSTANG PARTS - 4-spd., rear, hood, trunk, fender door, cheap. Rich, Ext. 4986 or 589-9103.

74 CHRYSLER WAGON - Town & Country, a/t, ac, p/s, p/b, p/w, $300. Tony, 698-9274.

70 GMC PICKUP - 1-ton, V-8, tough work truck, $500 or best offer. K. Conkling, Ext. 4501 or 689-5860.

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

TIRES - 4, General, P215/75R15, excel. cond., $175; 2, Summit, 195/50VR15, low profile, good cond., $50. Roger, 924-8213.

TIRES - 2, Dunlop, steel radials, 185/70SR14, $10 ea. or $15/2. 751-2149.

TIRES - 4, on Nissan Stanza rims, 185/70R13, used one mo., also 3 fair cond., unmounted, $100/all. 924-6918.

UTILITY TRAILER - heavy-duty, 14" wheels, 6' box, extendable tongue for boat, $125. Ext. 2177 or 298-4985.

TIRES - 2, one 155x80x13, one 155R13 on Mitsubishi rims, $25/ea. 447-0983 after 5 p.m.

TIRES - BF Goodrich for 4x4 Ford Bronco, a/t, radials, 33x12.5x15, deep-dish rims, center caps, nuts, locks, $700/4 neg. Joann, 472-6742.

STEREO - Pioneer, am/fm cass., 80 watt speakers w/40 watt exploder, $130. Jim, Ext. 7625.

Boats & Marine Supplies

23' FRIENDSHIP SLOOP - freshwater-cooled Volvo diesel, DS, knotmeter, compass, autopilot, launched '83, excel. cond. Ext. 2177 or 298-4985.

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

17' ISLANDER SAILBOAT - 4-h.p. ob., white w/blue deck, anchor, life vests, sails beautifully, excel. cond., $1,000. Alex, Ext. 4392

Miscellaneous

AIRLINE TICKET - American Airlines, JFK to LA, 1-way, $100, $25 to change date. 744-2404.

METROPOLITAN OPERA TICKETS - 2, Mon., 12/7, 8 p.m., Tchaikovsky's *Eugene Onegin*, first row balcony, $30/ea. Carmen, Ext. 4135.

Yard & Garage Sales

MILLER PLACE - 316 Radio Ave., Sat. & Sun., 11/14-15, 10 a.m.-4 p.m., multifamily, everything from A-Z.

Car Pools

BOHEMIA-E.ISLIP-OAKDALE-SAYVILLE - need 1 more driver. Frank, Ext. 2314.

BETHPAGE-FARMINGDALE-HUNTINGTON-MELVILLE - Exit 49 on LIE. Ext. 4635.

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 - 1738 restored 2-bdrm. Eng. cottage, hand-hewn beams, planked floors, 2 baths, fp in d/r, greenhouse off kit., $1,200/mo., sec. & util. Sue, Ext. 2888 or 286-0422.

CTR. MORICHES - studio apt. in house by the sea, carpeted, brick fp, paneling, cable, parking, priv. ent., $500/mo. + util., working adult, no pets, 15 min. BNL. A. Levy, Ext. 4392 or 878-8593.

E. PATCHOGUE - 3-bdrm. house, south of S. Country Rd., mint, quiet, gar., bsmt., appl., no pets, no smokers, $900/mo. + util., sec. & refs. Ext. 3291 or 589-3020.

HAUPPAUGE - entire top of hi-ranch, 3 bdrm., l/r, eik, d/r, w/w, deck, d/w, gar., fenced yard, $1,000/mo. Linda or Bob, 360-0145.

HUNTINGTON - 1 bdrm., l/r, eik, bath, 2nd floor, priv., suitable couple, no pets, avail. 11/1, $500/mo. + util. Walt, Ext. 2241 or 698-0576.

ISLIP - 1 bdrm., large sunny rooms, new kit., pvt. ent., walk to shops & RR, S. of Montauk, $800/mo. all + cable. Evelyn, 277-7224.

MASTIC - 2-3 bdrm. apt., private, end of ranch, full bath, l/r, dinette, fenced yard, $720/mo. incl. all. Jim, 281-2849.

MEDFORD - 1-bdrm. bsmt. apt., kit., l/r, priv. ent., all util., $550/mo. + sec. 447-6528.

MILLER PLACE - new, semi-finished studio, full bath, kit., single, priv. ent., deck, wooded, near beach, no pets, nonsmoker, quiet, mature, $475/mo. + sec. & refs., 1/3 elec. 473-6950.

MILLER PLACE - 4-bdrm. house on 1½ wooded acres, cath. ceil., l/r, d/r, full kit., 1-car gar. w/d room, $900/mo. + util. Phil, 821-2940 after 6 p.m.

MILLER PLACER - furn. 1 bdrm., l/r, kit., spare rm., cable, priv. ent., garage. 473-1658 after 6 p.m.

N. PATCHOGUE - 1-bdrm. house, new stove, refrig., furnace, $650/mo. + $1,000 sec., avail. 12/1. Keith, 821-6877 eves.

PORT JEFFERSON - large, sunny, studio apt., priv. bath, ent., all util., cable, no pets, nonsmokers. 331-4768.

PORT JEFF. STATION - 3 large rooms, bsmt., modern kit. & bath, priv. ent., nonsmokers only, bsmt., $600/mo. pays all, immed. occup. 473-1456.

RIDGE - like new, studio apt. w/private deck, ent., full bath, l/r-kit., cable, no pets, 5 min. from Lab, $575/mo. incl. all, avail. immed. Tony, 744-2118.

SHIRLEY - 2-bdrm. house, d/r, l/r, eik, 1½-car gar., 100'x100' fenced property on quiet street, 6 mi. to Lab, $775/mo. + util. Doug, 736-3155.

SOUND BEACH - 2-bdrm. apt., full bath, bsmt., winter view of Sound, excel., move-in cond., $600/mo. + util. 473-6432.

SOUND BEACH - 2-bdrm. contemp., great room, Euro kit., d/r, full bath, loft, skylights, deck, Andersen windows, energy eff., lg. wooded lot, avail. now, $775/mo.+. Erik, Ext. 4603.

SOUTHAVEN - room, complete use of house, kit., w/d, etc., $350/mo. includes all. 286-4028.

WADING RIVER - 2 bdrm., eik, l/r, bath, furn. or unfurn., $600/mo. + util. June, 929-3655.

WADING RIVER - 1-bdrm. bsmt. apt. on the beach, furn., all util. & cable incl., single working person only. 929-8443.

WADING RIVER - 1-bdrm. apt., lg. l/r, full bath, eik, priv. ent., $600/mo. + sec., includes all. 929-5872 after 6 p.m.

WESTHAMPTON - 2-bdrm. apt., $750/mo. incl. all util. 288-2482.

KEY WEST, FL - condo, April 17-24, sleeps 2-6, on water, priv. beach, pool, gym, walk to town, boat rentals, kit., hot tub, w/d, tiki bar. Sheryl, Ext. 7716.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, tennis, beach, golf nearby, Nov.-Dec. $350/wk. for BNL employees & family members. Guy, Ext. 3157 or 689-5378.

MT. HOLLY, VT - 2½-bdrm. A-frame, furn., kit., bath, wood stove, deck, 10 min. to Okemo Mt., near lakes, boating, fall foliage, more, $225/wknds., $325/wk. Tom, Ext. 2823.

For Sale

BELLPORT VILLAGE - home near golf & tennis, French doors & decks, outdoor Jacuzzi, 2 bdrm. 1 w/sleeping loft, 2 full baths, 2/3 acre, S. of S. Country Rd., $248,000. Sue, 286-0422 after 6 p.m.

CENTER MORICHES - 4-bdrm. Col., l/r w/fp, lg. d/r, eik, TV & laundry, 2½ baths, att. gar., town water, full bsmt., walk everywhere, $166,000, 10 mi. to Lab. Marilyn, Ext. 2259 or 878-0939.

CENTER MORICHES - Main St., 3100 sq. ft. bldg., 3 rentals, good cash flow, will hold paper. 878-1178.

CUTCHOGUE - 3-bdrm. ranch, OHW, corner lot, 10-yr. old, att. gar., full bsmt., new well, appl., Mattituck SD, 35. min. to Lab, $135,000 neg. 298-4117.

EAST MARION - 1 acre bldg. lot, adjacent to greenbelt, walk to sound. 325-0447.

HAUPPAUGE S. - 2-bdrm. ranch-style condo, cac, w/d, shed, attic, pool, night sec., mint cond., 20 min. to work, $86,000. Claire, 224-7480 or 242-4471 weekdays.

LAUREL - 2-bdrm. ranch, 1 bath, l/r, eik, 1-car gar., full bsmt., new heat sys., near beach, Mattituck SD, $124,500. Al, Ext. 5128 or 727-4417.

MASTIC - 3-bdrm. split-level, 1½ baths, l/r, d/r, kit., fam. rm., Florida rm., bsmt., gar. w/elec. opener, 2 ac, shed, fenced, extras, Joan, Ext. 2549 or 281-3797 eves.

MIDDLE ISLAND - lakefront 2-bdrm. co-op, upper unit, clean, bright, newly painted, l/r, d/r, kit., all appl., cac, gas heat, w/w, pool, tennis, clubhouse, 10 min. to Lab, $56,000 neg. 924-5282.

MIDDLE ISLAND - 2-bdrm. condo, 1½ baths, cac, GE appl., Fr. doors, clubhouse, pool, mint, 5 min. to Lab & shops, ask. $78,000. Mark, 924-1561.

MT. SINAI - 2-bdrm. ranch, ¾ acre +, excel. school dist., l/r, eik, full bath, bsmt., new heating unit, 2 acs, det. oversized gar., 20 min from BNL, $118,000. 473-6432.

N. SHIRLEY - 3-bdrm. ranch, 1/3+ acre, fenced yard, new boiler, HW heater, windows, renovated contemp. kit., bsmt., igs, by Southaven Park, mint, $112,000. Jim, Ext. 2957 or 924-7374.

N. SHIRLEY - 5-bdrm. ranch, 1½ baths, furn. bsmt., gar., $100,000. 399-6166.

PORT JEFFERSON STATION - large 3-bdrm. ranch, 1½ baths, dbl. gar., fp, residental area, walk to shopping, RR, $139,900. 473-0178.

RIDGE - Leisure Knoll Adult Community, 1-bdrm. duplex, cac, all appl., close to pool, clubhouse, etc., $55,000, immed. occup. Ted, Ext. 4589 or 475-8581 eves.

ROCKY POINT - custom 4-bdrm. Col., 2½ baths, den w/fp, l/r, d/r, eik, 2-car gar., full bsmt., 1/3 landscaped acre, must sell, best offer over $150,000. Gregg, 874-8631.

ROCKY POINT - 4-bdrm. Col. 2½ baths, gas heat, cac, l/r, d/r, eik, den, fin. bsmt., gar., low taxes, ask. $138,990. Don, Ext. 7237 or 744-2921 after 5 p.m.

SELDEN/CORAM - 1-bdrm. co-op, 15 min. to Lab, l/r, d/r, eik, new paint & carpet, new cac, gas heat, pool, tax advantages, no down payment, $42,000. Frank, Ext. 3144 or 698-5046 eves.

SHOREHAM - N25A, 4-bdrm., kit., l/r, fp, 2 baths, encl. porch, deck, 2-car gar., full bsmt., deeded beach rights, $185,000. Jack, Ext. 4947.

WADING RIVER - private beach community, 3-bdrm. ranch, 1½ baths, eik, all appl., fd/r, a/c, treed ½ acre, bsmt., lg. shed, deck, county water, $128,000. Saxon, 744-3842.

WADING RIVER - on beach, 10 rm. year-round house, 5 bdrm., 2 baths, d/r, l/r w/fp, upper/lower decks, full bsmt. w/apt., w/sep. ent., incl. adj. lot, SWRSD, $259,000. Kathy, 929-8443.

WEST ISLIP - 3-bdrm. ranch, water view, l/r, fam. rm., f/r, eik, docking across from house, $259,950. Bill, 669-0549.

YAPHANK - Whispering Pines, largest 3-bdrm. condo, maintained to perfection, 2½ baths, kit., l/r w/fp, d/r, new beige w/w, 5 appl., fin. bsmt., gar., 5 min. to Lab, $108,000. J. Bennett, Ext. 5406.

PRINCE EDWARD ISLAND, CANADA - waterfront 2.2 acres, $15,000. 874-3275.

NORTH CAROLINA - 1.13 wooded acres, waterfront community, pool, clubhouse, 35-boat slip on Pamlico River, $38,000. Ken, 281-5565.

Wanted

88-89 CHEVY - or GMC extended cab pickup, must be clean, ¾-ton, and loaded, any leads appreciated. Kim, Ext. 4026 or 821-9814.

BOWHUNTER - wants to hunt East End land, needs landowner's permission, safe & respectful. Scott, Ext. 5319, 10 a.m./noon/3 p.m.

CHILD CARE - Center Moriches area, after school, 2:30-5:30, nonsmoker, $6/hr. 2 boys, ages 6 & 8. Sue, Ext. 5601.

EFFICIENCY APT. - to rent, furn. w/bath, nonsmoker, quiet, Brookhaven Hamlet, Bellport, E. Patchogue. 286-0999.

IBM PC - or clone. Al, 744-0354.

PEOPLE INTERESTED IN JO DO - "martial art of the stick," demo 11/18, 5:30 p.m., Rec. Hall in apt. area, starting new club. Rolf, Ext. 4810.

PIANO - full-size, studio, slide projector, washing machine. Mike, Ext. 5030 or 821-4083.

RIDER - to share driving expenses, round-trip from BNL to Pittsburgh on weekends & holidays. Bill, Ext. 3698 or Ext. 2569 eves.

TEACHER - w/2 yrs. exp. for on-site Upton Nursery School, M, Tu, Th, 8 a.m.-noon. Anna Martin, 878-6760, or Cindy Salwen, 874-3652.

TV - 13" color, good cond. Elaine, Ext. 3876.

WATERCOLORS - brushes, paints, etc., from someone no longer interested. John, Ext. 7671.

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.