

A Week-Long Celebration of the Earth and of Science

"Earth Day" — a day dedicated to highlighting the importance of keeping our planet environmentally safe — was first observed 20 years ago. Next Sunday, April 22, Earth Day will again be celebrated worldwide. "National Science and Technology Week" will also be observed beginning on April 23.

In recognition of these activities, the Tour Program in the Public Affairs Office has planned three special events: a trip to Washington, D.C. with a Suffolk County teacher honoree to tell members of Congress about our Exhibit Center/Science Museum activities and other outreach efforts; a U.S. Department of Energy-sponsored (DOE) poster contest for local elementary school children; and the grand opening of a new magnet exhibit in the Lab's Exhibit Center/Science Museum.

Winning Posters Pose Solutions

"How can science be used to improve our planet Earth?" That's the theme elementary school students at four local school districts illustrated in the DOE-sponsored Earth Day poster contest. BNL's Tour Group administered the contest locally.

The five winning posters shown here and on page 2 were judged by participating school districts. In addition, Karl Swyler, Office of Educational Programs, helped to judge entries at the Nathaniel Wood

hull School, William Floyd School District, and Janet Tempel, Tour Program, assisted in judging posters created by students at the Miller Avenue School, Shoreham-Wading River School District.

Each winner will receive a certificate of congratulations from Secretary of Energy James Watkins, a \$50 U.S. savings bond and a world atlas. In addition, the winning posters will be exhibited in Washington, D.C.

Tour Program Honors Teacher

Richard Thomas, an elementary school teacher in the Connetquot School District, has taken his sixth graders for a tour of the Lab every year since 1982. He has been a judge at BNL's annual Elementary School Science Fair for the last two years and will be at his post again at this year's fair on May 19.

In appreciation of Thomas' enthusiastic participation in these Lab-sponsored events, BNL's Tour Program has chosen him to be a Teacher Honoree at the Lab's Exhibit Center/Science Museum, and has placed his name on the Association of Science-Technology Centers (ASTC) Honor Roll.

Janet Tempel, who runs the Tour Program, said, "Earth Day and Science and Technology Week seemed an appropriate time to honor Thomas because of his years of involvement with our science fairs, and because of his effective use of



Richard Thomas outside resources, such as our Science Museum, to bring science alive for his students."

On April 26, accompanied by Tempel, Thomas will attend a special Capitol Hill breakfast in Washington, D.C., sponsored by the ASTC. Tempel and Thomas will have a chance to meet congressmen and federal grant officers face-to-face, to tell them about BNL's science museum and other outreach activities, including the tour program, the annual model bridge contest and science fair, and the museum programs.

After the breakfast and presentation, the ASTC teacher honorees and their sponsors will tour the National Museum of Natural History. Tempel will be among the science museum managers previewing the exhibit "Return to the Sea," two weeks before its official opening.

In addition, DOE and the ASTC will co-host an environmental education forum where attendees will be able to try out new, hands-on environmental education programs.

Thomas thinks the emphasis on experimentation and creativity in BNL's science fairs and the hands-on exhibits at the Lab's Science Museum/Exhibit Center encourage an interest in science in elementary school children. He said the annual BNL tour is "a grand finale for the sixth grade. It's the big trip of the year for the students." And Thomas is looking forward to his trip this week. It will be the first time the Mount Sinai resident will visit the nation's capitol.



Mary Hutson, sixth grade, Nathaniel Woodhull School, William Floyd School District. (More posters on page 3.)

Bogosian Tapped to Lead Office of Technology Transfer

Until last month, the various aspects of BNL's interaction with industry were handled by two different Lab offices: the Patent Office, and the Office of Research and Technology Applications (ORTA). On March 16, however, these offices were reorganized and consolidated into the Office of Technology Transfer (OTT), headed by Margaret Bogosian as Deputy Manager.

OTT reports to Sy Baron, Associate Director for Applied Programs, who is also the Acting Manager of OTT. In announcing the reorganization, Baron said, "Technology transfer is an increasingly important mission of the Laboratory. The office has been reorganized to integrate its various functions in a more effective manner . . . so that BNL not only implements its mission, but also demonstrates a leadership role in helping the U.S. improve its industrial competitiveness."

The creation of OTT was recommended by a committee, organized by Associated Universities, Inc. (AUI), in 1988. Made up of representatives from outside groups, including industry, universities and law firms, the committee reviewed AUI's patent licensing program and BNL's technology transfer program. The committee concluded that the Lab's efforts in the technology transfer area should be consolidated into one office, which would be responsible for all of the Laboratory's interaction with industry, the university community and government.

Thus, the expertise and experience of ORTA has been combined with the legal and business know-how from the Patent Office. All together, there are eight people working in OTT, and, said Bogosian, "They represent a diversity of professional training and background."

From the Patent Office have come

two patent attorneys — Bogosian, whose training was in the fields of biochemistry and law and who spent many years in the patent, then corporate law departments of Hoffmann-La Roche Inc.; and Vale Myles, who was trained in law and spent many years in the law department of



Margaret Bogosian

General Electric. In addition, Arlene Wolochuk and Maria Yanez have brought their training as legal secretaries to OTT.

From ORTA, William Marcuse brings his expertise as an economist with experience in organization research and management; Frank Salzano is trained in chemical engineering, with research and program management experience; John Aybar's background is marketing and market research, and Dorry Tooker's expertise is in communications.

The group is now combining their former offices into a single new location in Bldg. 902C.

(continued on page 2)

Magnet Marvels

A new magnet exhibit, featuring hands-on experimentation suitable for children, has been installed in the Lab's Exhibit Center/Science Museum in Bldg. 701, just in time for Earth Day and Science and Technology Week. Purchased with funds from Associated Universities, Inc., the "Magnet Marvels" exhibit will be

(continued on page 2)



Fifth graders in the Gifted and Talented Program at the Middle Country School District participate in "Magnet Marvels," using different types of magnets to make designs in metal filings.

Tech Transfer (cont'd)

Next month, Bogosian said, OTT will begin a series of seminars with each department. "I'll discuss the Laboratory's patent program and AUI's licensing program and how an inventor participates in the program," she explained, "stressing the fact that an effective licensing program is predicated on the research staff's disclosing new inventions to OTT." The seminars will also provide an opportunity for research staff to discuss issues relating to industry-sponsored research and technology transfer in general.

OTT's responsibilities are varied. AUI has the option of taking title to new technology developed at BNL with government funding. If AUI declines, title remains with the U.S. Department of Energy (DOE). In either case, OTT handles the preparation of the original patent application and its prosecution through the U.S. Patent and Trademark Office. When AUI takes title, OTT also tries to identify a company or companies to commercialize the technology and negotiates the necessary license agreements.

"If we are successful," explained Bogosian, "Lab technology can be commercialized and made available to the American public. And if the licensee is successful in commercializing, royalties will flow back to AUI — and the inventors will share in such royalty income."

Other OTT duties with a legal slant include negotiating research agreements between the Lab and non-federal government sponsors; advising the Lab's Division of Contracts & Procurement on intellectual property issues that arise in dealings with outside vendors; and drafting the necessary agreements that cover industry utilization of the Lab's user facilities.

"This is a research staff-driven function," Bogosian emphasized. "We are eager to work with staff to find industries that are interested in sponsoring research at the Lab in areas where we have unique capabilities and continuing research interest. Interaction between staff and OTT is essential in investigating such sponsored-research opportunities. The more OTT is informed of work being done — especially new materials, analytical techniques or processes — that could be valuable to industry, the greater the chance that OTT can match our research capability with industrial interest or need."

It's not enough for Lab staff to inform OTT of transferable technologies — industry must be aware of the Lab's capabilities. Thus, OTT works with groups like the Federal Laboratory Consortium, the New York State Science & Technology Foundation and the Long Island Chamber of Commerce to publicize what BNL has to offer. It also hosts seminars and workshops to introduce industry representatives to Lab technologies and encourage them to bring about commercial utilization of these technologies.

OTT also monitors legislation affecting technology transfer and actively promotes technology transfer at BNL.

Bogosian would like to see initiatives like BNL's Utility Research & Development Center directed at other industries. Established under ORTA in 1988, the utility center presents applicable technology to the electric-power industry through day-long tutorials, and it is the origin of utility-sponsored research at the Lab. "Right now," Bogosian said, "we have just one industrial focus, but my hope is that we will soon have other focused programs."

Note to Employees:

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

Future PSI President Slated To Speak on Secretaries' Day

Cecilia Walker, a certified professional secretary and president-elect of Professional Secretaries International (PSI), will speak about "Managers and Support Staff — Partnership of the 1990s," on Secretaries' Day, Wednesday, April 25, in Berkner Hall. Cosponsored by the Upton Chapter of PSI and the Personnel Division, the program will be repeated in morning and afternoon sessions — 9 to 11 a.m. and 1 to 3 p.m.

Walker, who has been employed at Utah Power & Light Company for the past 18 years, has worked in the secretarial profession for more than 20 years. During that time, she has worked extensively to promote the secretarial profession and PSI.

When Walker is installed as international president in July 1990, it will culminate many years of involvement in PSI. She began on the local

level, as the first vice president and president of the Sal-Ute Chapter. Later, she became secretary, president-elect and president of the Utah-Idaho Division. She has previously served on the International Board of Directors as Northwest District director, and as treasurer, and second and first vice presidents.

A cum laude graduate of Stevens Henager College, Walker has received that institution's Outstanding Alumni Service Award. PSI's Sal-Ute chapter presented her with the Scroll of Honor Award, and she was named an Outstanding Young Woman of America, in 1983.

Secretaries and administrative personnel may attend one of the sessions, provided they have approval well in advance from their supervisors, to assure appropriate department and division scheduling. Exhibits and vendor displays will be



Cecilia Walker

available for viewing between sessions. For a copy of the program agenda, contact Mary White, Ext. 7994.

Magnet Marvels (cont'd)

shown to students from kindergarten through high school when they tour the Lab.

"We've painted the balcony of the old reactor building, and installed new carpeting to make an attractive setting for the new exhibit," said Janet Tempel, head of the Lab's Tour Program. "Because this exhibit is geared to children of all ages, we will

now open our Tour Program to kindergarten through second graders for the first time."

The "Magnet Marvels" exhibit was first used at the Lab earlier this month when the BNL tour guides and a group of fifth graders in the Gifted and Talented Program in the Middle Country School District attended a training session provided by the magnet manufacturer (see photos on page 2). Next week, second graders

from the Kremer Street School in the South Country School District will be the first class to view the magnet exhibit while on a Lab tour, during Science and Technology Week.

Future plans call for the development of an outreach program to bring the "Magnet Marvels" exhibit to Long Island schools. Upon request from school districts, BNL tour guides will demonstrate the magnets right in the students' classrooms.



Some fifth graders in the Middle Country School District's Gifted and Talented Program enjoy the "Magnet Marvels" exhibit at BNL's Exhibit Center/Science Museum. In the photo above left, BNL tour guide Joy Bertwell-Cotton (center) shows partici-



pants how to place various metal disks in a device that generates a magnetic field, to determine how they respond. In the picture at right, by moving a magnet through a conductive coil, students learn how an electromagnet creates current.

Earth Day/Science and Technology Week stories by Diane Greenberg, photos by Roger Stoutenburgh.

Reports Available

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

BNL-NCS-51771
First Edition, Supplement Five
Contact: V. Crump, Ext. 2903
Integral Charged Particle Nuclear Data Bibliography. N.E. Holden, S. Ramavataram

NUREG/CR-4659
BNL-NUREG-52007
Vol. 3
Contact: B. Apuzzo, Ext. 2746
Seismic Fragility of Nuclear Power Plant Components (Phase II) Switchgear, I&C Panels (NSSS) and Relays. Prepared by: K.K. Bandyopadhyay, C.H. Hofmayer, M.K. Kassir, S.E. Pepper

BNL-52216
Contact: D. Mosoff, Ext. 4503
Educational Programs at Brookhaven National Laboratory. R. Thomas, A. Samios, D.J. Metz

BNL-52231
Contact: A. Lopez, Ext. 5768
¹⁴C Release From Failed Spent Fuel Containers. Progress Report May-September, 1989. C. Pescatore

NUREG/CP-0110
BNL-NUREG-52226

Contact: M. Beckman, Ext. 3228
Proceedings of the International Workshop on New Developments in Occupational Dose Control and ALARA Implementation at Nuclear Power Plants and Similar Facilities. Held at BNL September 18-21, 1989. Compiled by J.W. Baum, B.J. Dionne, T.A. Kahn

BNL-52227
Contact: F. O'Brien, Ext. 4135
Source Attribution for Tropospheric Ozone in the U.S. C.M. Benkovitz, L.I. Kleinman

Equipment Demo

DOAR Communications will have a tabletop exhibit in Berkner Hall, on Tuesday, April 24, from 10 a.m. to 2 p.m. Sam Solomon, President of DOAR, will demonstrate the following graphics products: Merlin electronic lettering systems for producing high-quality lettering on adhesive-backed tape for equipment labels, chart annotation, engineering drawings, etc; PosterPrinter for instantly enlarging 8½" x 11" originals to 2' x 3' for seminars, signs and engineering drawings; portable CopyCam for rapidly copying large displays or exhibits, from a wall, flipchart, black or white board, to letter size.

Inside Info

Charles Meinhold, Head of the Radiological Sciences Division of the Department of Nuclear Energy, became president-elect of the National Council on Radiation Protection (NCRP) at its annual meeting on April 5. He is scheduled to become president in April 1991.

The NCRP is a nonprofit organization created by Congress to collect, analyze, develop and disseminate information and recommendations about radiation protection and measurement.

Meinhold is also a member of the International Commission on Radiological Protection, vice president of the International Radiation Protection Association, and a past president of the Health Physics Society.

Arrivals & Departures

Arrivals

Barbara Bennett..... Plant Eng.
Stuart H. Kern..... Accel. Dev.
Geraldine Lamble..... NSLS
Philip J. Pizzo..... Plant Eng.
Nicole Trent..... Staff Services
Robert Zane..... Plant Eng.

Departures

This list includes all employees who have terminated from the Lab, including retirees:
Roger J. Bonati..... AGS

WalkAmerica Film Showing Today

A BNL-BERA team will participate in WalkAmerica for Healthier Babies on Sunday, April 29. A representative from the March of Dimes is on site today to show a film about WalkAmerica and answer your questions. So come to Room B, Berkner Hall, at noon or at 12:30 p.m. Then take a few minutes to sign up as a member of the BNL-BERA team. If you miss today's presentation, you can sign up weekdays at the BERA Sales Office, 9 a.m. to 2 p.m., or at the Recreation Office in Personnel, or call Ext. 3347 or 2873.

A Family Show: Magic Ventriloquist

Children's magician and ventriloquist John Carlson will perform at BNL on Sunday, April 29, at 1 p.m., in the Recreation Building. Sponsored by the Upton Nursery School, the show is open to the public. A donation of \$5 per family is requested.

The Upton Nursery School is a cooperative nursery school open to children of BNL employees, relatives of employees, and BNL visitors. At the show, applications will be distributed for September 1990 enrollment in the school's classes for three- and four-year-old children.

For more information, call Kathy Hershcovitch, 331-3785.

A Day at the Races

Brookhaven Women in Science (BWIS) will sponsor a trip to Belmont Park on Saturday, May 19, rain or shine, to see the "Day at the Races" program. Proceeds from the trip will go to BWIS's Renate W. Chasman scholarship.

The \$40 cost of the trip includes bus fare, admission to the Belmont Park clubhouse, lunch, a program and an informational talk about horseracing and betting.

The bus will leave the BNL Cafeteria at 9:30 a.m., and make a stop at the commuter parking lot Exit 63, LIE, at 9:45 a.m.

Tickets may be purchased by May 1, either from Harriet Martin at the Research Library, or at the Cafeteria at lunchtime on April 20 and 23.

For more information, call Pat Giacalone, Ext. 4628; Susan Hobbie, Ext. 7511; Ruth Kempf, Ext. 7226; or Harriet Martin, Ext. 3487.

Amateur Radio Club

The BERA Amateur Radio Club will meet in Berkner Hall, Room A, on Thursday, April 26, at noon.

The agenda includes the progress of the UHF repeater, the new spring session of amateur radio licensing classes, field day and other upcoming club activities.

All licensed radio amateurs who work at BNL, those wishing to obtain amateur radio licenses, and Lab guests are invited to attend.

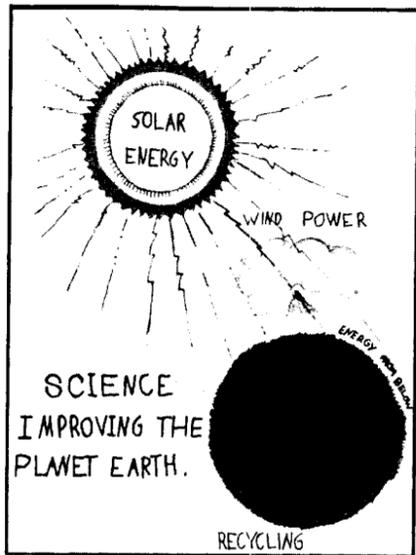
For more information, contact Andy Feldman, Ext. 3264, or Bob Bacharach, Ext. 7790.

BROOKHAVEN BULLETIN

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

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



Earth Day Posters

Posters by (clockwise from right):

Julie Malesko, sixth grade, Longwood Middle School, Longwood School District.

Gregory Fries, sixth grade, Longwood Middle School, Longwood School District.

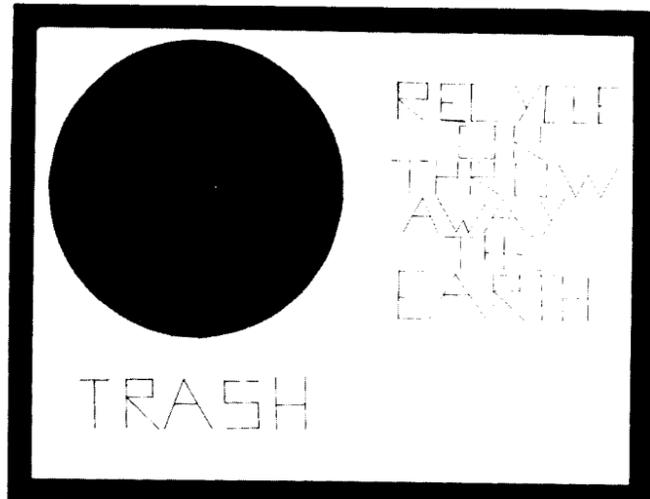
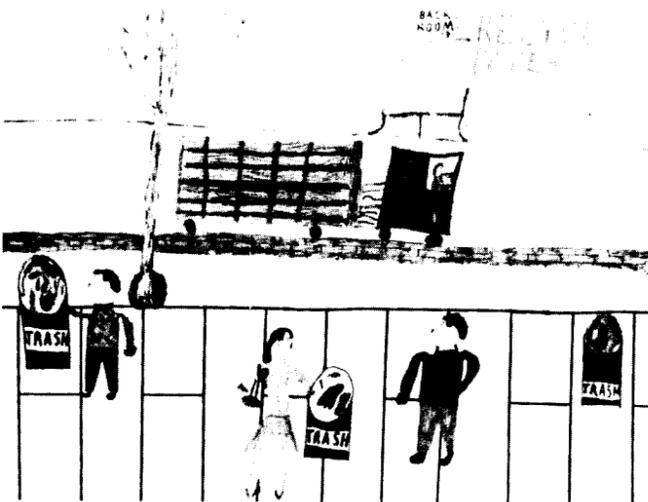
Ryan Verbar, third grade, Miller Avenue School, Shoreham-Wading River School District.

Justin Halpin, second grade, Brookhaven Elementary School, South Country School District.

SPACE TELESCOPE



helping mankind study the stars to help learn more about our Earth.



IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, April 23, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. On the agenda will be regular business, committee reports and the president's report.

Astronomical Society

View Jupiter and deep-space objects tonight at 7:30 — the Astronomical Society's open observatory night if the weather is suitable. Admission is \$1 for nonmembers. Call Keith Power, Ext. 5355, or Rick Jackimowicz, Ext. 3803, for directions.

Soccer Club

The Soccer Club has expanded its pickup game schedule as follows:

Day	Time	Place
Mon.	5 p.m.	BERA Soccer Field
Tue.	noon	BERA Soccer Field
Thu.	noon	BERA Soccer Field
Fri.	5 p.m.	gymnasium

Everyone is welcome to join the club for play. For more information, call E.E. Abola, Ext. 4383.

Basketball

Week of April 9

Knicks 60		Bulls 52	
L. Walcott	21	P. Johnson	21
R. Domenech	12	B. O'Brien	15
J. Belz	8	S. Gilbert	8
E. Hopson	7	F. Lars	4
T. McGill	6	H. Goldsborough	2
F. Thompson	4	C. Victoria	2
D. Martin	2		

Three-point shots: R. Domenech (4), P. Johnson (3), L. Walcott (4)

Warriors 51		Celtics 50	
W. Cummings	15	D. Hoggard	25
C. Edwards	12	B. Turner	9
T. Mayo	10	P. Brubwier	5
G. Mack	10	J. Wells	5
A. Ratti	2	R. Wells	4
S. Springston	2	A. Jones	2

Three-point shots: D. Hoggard (2)

Scram 55		Runaways 47	
E. Gregory	19	J. Desmond	19
J. Barkwill	12	P. Brown	9
T. Powers	10	M. Wani	7
S. Nappi	10	G. Shepherd	6
P. Lang	2	C. Norton	4
D. Bingham	2	R. Meese	2

Three point shots: J. Desmond, T. Powers

Bowling

Pink League

Pat Jencius had a 183, Debbie Keating 181, Maryann Reynolds 174, Tracy Ryan 173, Fern Simes 171.

Red/Green League

A. Warkentien had a 243/213/616 scratch series, R. Mulderig 227, R. Larsen 221, K. Asselta 214, R. Eggert 213/204/611 scratch, S. Dimaiuta 212, L. Schairer 211, R. Sick 210, E. Meier 208, E. Sperry IV 206, H. Arnesen 202, R. Jones 201, K. Riker 201, E. Carter 200.

White League

Gene Hassell had a 213, Bob Jones 212, Joe Mayeski 207, Joyce Pinelli 180.

Purple League

Ed Sperry IV had a 232, Ted Erickson 207, Ben Belligan 201, Sharon Smith 194/183, Nancy Mayeski 193/182, Nancy Erickson converted the 6/7/8 split.

On the Menu

At the Cafeteria

Monday, April 23

Soup: Chicken noodle	.75/.95
Entree: Macaroni, beef & tomato w/ veg.	3.10
Entree: Chicken curry over rice	3.10
Fitness: Baked fish creole w/1 veg.	3.10
Carvery: Hot pastrami sandwich	2.85
Grill: Grilled spicy Cajun sausage plate	2.85

Tuesday, April 24

Soup: Maryland corn chowder	.75/.95
Entree: Beef stroganoff over baked potato	3.10
Entree: Spinach & cheese quiche w/veg.	3.10
Fitness: Sliced turkey breast w/dressing & veg.	3.10
Carvery: Hot roast beef sandwich	2.85
Grill: California burger w/fries	2.45

Wednesday, April 25

"Havin' a Picnic Special"	
Soup: Three bean soup	.75/.95
Entree: Spiced chicken w/1 veg.	3.10
Entree: BBQ pork sandwich w/1 veg.	3.10
Carvery: Hero by the inch	(inch) .75
Grill: Foot-long frank	1.25
SPICE Drawing: Hibachi	
Free medium lemonade w/each entree	

Thursday, April 26

Soup: Navy bean w/ham	.75/.95
Entree: Roast fresh ham w/gravy & veg.	3.10
Entree: Chicken fajitas w/1 veg.	3.10
Fitness: Baked sesame chicken w/1 veg.	3.10
Carvery: Baked Virginia ham sandwich	2.85
Grill: Reuben	2.85

Friday, April 27

Soup: Boston fish chowder	.75/.95
Entree: Spicy BBQ wings of fire w/veg.	3.10
Entree: Fried titi shrimp w/fries	3.10
Fitness: Broiled sole amandine w/1 veg.	3.10
Carvery: "Greek Special" gyro sandwich	3.00
Grill: Seafood nuggets w/fries	2.85

Breakfast served w/coffee, 7:30 - 10:30 a.m.

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

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 and/or appropriate bargaining unit, 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 Employment Manager, Ext. 2882.

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

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

4212. INFORMATION SYSTEMS POSITION - Requires minimum of BS in biology, chemistry or environmental/health science; computer skills and familiarity with data bases and information systems. Responsibilities include maintaining chemical hazard information systems, maintaining Hazardous Materials Control Program and preparation of annual chemical inventory reports, etc. (Reposting of Job #4197.) Safety & Environmental Protection Division.

4213. BIOLOGY ASSOCIATE - Requires BS in biology or a related field or its equivalent, and training in thin sectioning, immunogold labeling and other electron microscopy skills, including the various operations of a transmission electron microscope. Will participate in research using new organometallic immunolabels and their application to cellular studies and chromosome mapping. Biology Division.

Motor Vehicles & Supplies

88 NISSAN SENTRA - 2-dr., gray, 4-spd., am/fm cass., new tires, good cond., \$4,900 neg. Ext. 5475 or 369-4099 after 6 p.m.

88 JEEP EAGLE ES - 17k mi., p/s, p/b, ac, am/fm cass., Dolby, 8-speaker, 7-70 warranty, transferable, \$10,500. Pete, Ext. 4414.

88 MAZDA 323 SE - 3-dr., 5-spd., ac, fuel inj., am/fm cass., tinted glass, p/b, \$4,500. Andrew, Ext. 2251.

87 CONQUEST - red, excel. cond., must sell. 924-0961.

87 JAYCO MOTOR HOME - designer series, Ford 460, 15', generator, awning, cruise, trailer pkg., best offer. Bob, Ext. 4672 or 929-4753 eves.

87 KAWASAKI MOJAVE 250 ATV - low mi., v.g. cond., \$1,400. 727-0364.

87 MAZDA PICKUP - 4x4, low mi., 31" high cap, light bar, clean, \$7,000 neg. 929-3071 after 6 p.m.

87 DODGE COLT DL - 3-dr., a/t, p/s, p/b, ac, am/fm cass., warranty, alarm, \$4,500. Andrew, Ext. 2251.

86 KAWASAKI VULCAN - 750cc, new fairing, candy apple red, 1,200 mi., like new, \$2,500. Bob, Ext. 2957 or 878-4556 after 5 p.m.

86 FORD ESCORT - p/s, p/b, ac, a/t, 42k mi., excel. cond.. Warner, Ext. 2343 or 563-2889 after 6 p.m.

86 HONDA REBEL MOTORCYCLE - 305cc, 3k mi., showroom cond., \$700 neg. Andrew, Ext. 7638 or 878-8880.

86 SUZUKI INTRUDER - V-twin, 700cc, 7.5k mi., orig. owner, w/2 full-face Bell helmets. 588-9355.

86 OLDS CUTLASS CIERA - 4-dr., maroon, 46k mi., p/b, p/s, ac, am/fm cass., excel. cond., \$5,000. Lynn, Ext. 2780.

86 MAZDA B2000 PICKUP - 74k mi., short-bed, orig. owner, good cond. 588-9355.

85 SENTRA - m/t, v.g. in/out, \$2,000. Chris, 286-0001.

84 FORD BRONCO - 58k mi., a/t, p/s, p/b, 302 V-8, 4wd, am/fm cass., BFG radial truck tires, alum. rims, \$6,250. Jim, Ext. 4908.

84 FORD ESCORT - 50k mi., good body, interior & tires, new exhaust system, motor needs work. Frank, Ext. 2314 or 567-5131.

84 LINCOLN TOWN CAR - p/b, p/s, am/fm cass., alarm, ac, excel. cond., asking \$7,000. 727-4041.

84 MAZDA B2000 PICKUP - 60k mi., full cap, 5-spd., clean, gray, \$2,200. Mike, Ext. 7594.

83 CHEVY S-10 PICKUP - long-bed, 67k mi., v.g. cond. 325-0447.

73 OPEN ROAD MOTOR HOME - 20', fully self-contained, sleeps 3 adults, cruise, Dodge chassis, \$7,500. O. Booker, Ext. 3082 or 727-5912.

73 TRAVEL TRAILER - 21', sleeps 6, tandem axle, bunks, w/'79 Ford tow vehicle, will separate, \$4,000. Ron, Ext. 4428.

70 TAG-A-LONG - 18', self-contained, sleeps 6, shower, stove, heater, fridge, electric brakes, screen room, more, \$1,500 neg. Tony, 727-6515.

65 DODGE DART - slant 6 motor, good for parts, best offer. Frank, Ext. 2314 or 567-5131.

55 CHEVY - rear complete w/brakes & drums, put it in and go. Frank, Ext. 2343 or 732-5950.

SKI ATTACHMENT - for Subaru roof rack or similar type, w/lock, brand-new in box, \$89. John, Ext. 2710.

TIRES - 6 pieces, P125/75R15 in good cond., \$25 ea. Aron, Ext. 2434.

TRAILER HITCH - class 2 for midsize GM cars, 1978-1988, no drilling required, \$50. Ext. 2799.

TIRE - new, Firestone 721-235/75R15, Eldo rim, make offer. Ernie, 588-4987.

SLIDE-ON CAMPER - Del-Ray Skylounge, sleeps 6, heater, stove, sink, toilet, good cond., best offer. Bob, Ext. 4428.

CAR STEREO - Panasonic radio/cassette, \$75. Pete, Ext. 5320.

TIRES - P195/75R14 on 5-hole rims, v.g. cond., \$20 ea., 5 available. Ed, Ext. 4188 or 363-5170.

SLIDE-ON CAMPER - 11 1/2', fully self-cont., sleeps 4, \$1,200. Ext. 4100 or 929-5872 after 6 p.m.

TRANSMISSION - 4-spd., complete, posi. rear end, all Chrysler, all for \$250. 924-0960.

89 HONDA DX - white, 13k mi., p/s, p/b, ac, am/fm cass. radio, mint cond., assume lease. 862-7648 or 588-0302.

88 FORD BRONCO II - 5-spd., ac, dark blue, 42k mi., carefully maintained, excel. cond., \$9,600. 324-5445, leave message.

87 PONTIAC FIREBIRD - V-6, fuel inj., a/t, ac, tilt, c/c, fm cass., 25k mi., \$7,800. Barry, Ext. 5624.

86 SUZUKI DR200 MOTORCYCLE - off road, 4-cyl., 200cc, 385 mi., Enduro lights, excel. cond., \$1,175. John, Ext. 4405.

86 TOYOTA PICKUP - 59k mi., 5-spd., alarm, 31" tires, am/fm stereo w/amp, tinted windows, more, \$6,300. Danny, Ext. 4988.

86 OLDS CALAIS - blue, 4-cyl., 4-dr., 26k mi., super clean cond., \$5,800. 727-1074.

86 HYUNDAI - 33k mi., 4-dr., gold, 5-spd., am/fm, ac, \$2,800. Ext. 3702 or 751-1042 after 7 p.m.

84 CHEVY C30 SILVERADO PICKUP - 454 V-8, a/t, ac, tow pkg., 411 posi rear, dual tanks, cap, asking \$6,200. Walter, Ext. 3848 or 281-9299.

84 RENAULT ALLIANCE - 4-dr., 5-spd., ac, p/s, am/fm, excel. cond., \$1,000 neg. Chris, Ext. 3723 or 3200.

83 BUICK REGAL - s/w, 67k mi., good cond., \$2,700. Ext. 3136.

82 RELIANT - s/w, m/t, new clutch, brakes, battery, engine & body v.g. cond., excel. mpg, \$1,175. Bill, Ext. 5565 or 751-1881.

82 T-BIRD HERITAGE - loaded, gray velour int., high mi., good cond., \$1,900. Mike, 878-0487.

81 DATSUN 310GX - h/b, 5-spd., am/fm, runs well, good commuter or kid's car, \$800 or best offer. Jeff, 727-5194.

80 DATSUN - 4-spd., am/fm cass., new exhaust syst., runs well, ask. \$650. Ext. 3537 or 399-4399.

80 CORVETTE - white/tan leather int., 25k orig. mi., absolutely mint, \$14,000, serious inquiries only. Ray, Ext. 2760 or 924-2430.

79 PONTIAC SUNBIRD - runs well, very reliable, body good, \$500. 281-1953.

79 PLYMOUTH HORIZON - 4-spd., ac, high mileage, good cond. \$475. Mike, 821-0945.

78 FORD XLT SUPER CAB PICKUP - 4wd, 4-spd., 50k mi., slide-on camper deluxe, mint cond., 289-3589.

78 OLDS OMEGA - 2-dr., V-8, p/s, ac. George, Ext. 4679 or beeper 0740.

78 SHASTA TRAILER - 21', sleeps 8, 2 batt., roll-out awning, extras, good cond, \$3,500. 475-2657.

77 PONTIAC FIREBIRD 400 - cid engine, first class, black int. & paint, good running cond., TransAm accessories, \$3,000. Ernie, Ext. 3357.

77 OLDS DELTA 88 - red, many new parts, excel. body, \$500. '70 Ford LTD, in running cond. \$250. Pat, Ext. 4561 or 345-0483.

76 CHEVY CAPRICE - 2-dr., rusty, reliable, offers. Ext. 3053.

74 HONDA CB 360 - rebuilt engine, good running cond., garaged, \$450. Pete, Ext. 4100.

73 PLYMOUTH SATELLITE - s/w, 318 V-8, a/t, p/s, p/b, 110k mi., new battery, runs well, \$500. Joe, Ext. 4786 or 281-7683.

72 CHEVY MALIBU 350 - 2-dr., a/t, p/s, high mi., runs well, must see, \$700. Joe, Ext. 4212.

72 PORSCHE 914 - body rusted out, engine probably OK, best offer. 929-3759 eves.

66 THUNDERBIRD 428 CIE - all power, many new parts, no rust or dents, v.g. cond. 475-2657.

SEATS - fit 1979 & up Mustang or Capri, red, low back, vinyl, mint cond., \$50 all. Bart, Ext. 3457 or 924-6761.

ENGINE - 1970 Ford Cleveland. Conrad, Ext. 5385 or 727-0082 after 7 p.m.

AIR FLOW BOX - for Datsun fuel-injected systems. Janet, Ext. 2345.

TIRES - 4, radials, almost new for VW Beetle, on rims. 751-2655 eves.

TIRE - Goodyear, L78-15, Power Streak II, like new, mounted on Ford rim, \$25. Mike, Ext. 4988.

HONDA AERO 125 MOTOR SCOOTER - 12k mi., new battery, extras, reliable, good cond., \$400 firm. Frank, Ext. 7519 or Vita, 277-0464.

TRAILER - 25', awning, ac, sleeps 6, excel. cond., available mid-July, \$2,500 neg. Ext. 2543.

MAG WHEELS - alum., Western, 5-lug w/tires, BF Goodrich radials, 31x10.50R15LT or best offer. Al, Ext. 2795 or 734-7099.

Boats & Marine Supplies

31' C&C SLOOP - shoal draft, fiberglass, Atomic 4, 7 sails, wheel, Barient winches, VHF, v.g. cond., \$16,000 or best offer. McGeary, Ext. 5329.

28' DORY CAPE SAILBOAT - 1975, includes cradle, Volvo diesel, fully equipped, great shape, \$23,500. Roger, Ext. 2382.

25' MORGAN SAILBOAT - keel/cb, draws 2'9", new sails & outboard, VHF, cb, spinnaker, \$6,000. Steve, Ext. 4008.

23' CHRIS CRAFT - new engine, & canvas, mooring, cradle, lots of extras. \$4,200. 928-7734.

22' GLASTRON AVENTURA 225 - 1981, 185-h.p. Mercruiser I/O, FWC, low hrs., VHF, DF, swim platform, fully equipped, \$8,800. Ed, Ext. 7943.

22' SPARKMAN & STEVENS KESTREL SLOOP - shoal draft cruiser, fiberglass, 9.9 Evinrude electric, more, \$5,000. Ext. 4266 or 286-0854.

21' BONANZA CRUISER - 1978, cuddly cabin, w/1986 225-h.p. Evinrude, prop., VHF, DF, porta-potty, excel. cond., \$5,900. Al, Ext. 2173.

21' INVADER - 1984, cuddly, 120-h.p. Volvo I/O, FWC, low hrs., excel. cond. John, 331-3724.

19' REINELL - 1972, I/O, excel. hull, needs work, \$400. Bart, Ext. 3457 or 924-6761.

19' PEN-TEN - 1969, w/1976 115-h.p. Johnson, Coast Guard pkg., rebuilt trailer w/elec. winch, many extras, excel. cond., \$3,000. Vito, 243-2743.

18 1/2' FIBERFORM RUNABOUT - 120-h.p. O.M.C. I/O, low hrs., new manifold, alternator, tilt motor, fully equipped, incl. trailer, \$4,195. 567-1358.

18' GLASSPORT BOWRIDER - 1983, w/90-h.p. Evinrude, trailer, mooring cover, approx. 110 hrs., ask. \$2,800. Chris, Ext. 2022 or 395-6112.

17' O'DAY SLOOP - all fiberglass c/b, 4-h.p. Evinrude, fully equipped, \$1,650. Joel, 751-0610.

15' BAYLINER BOWRIDER - 50-h.p. Force, Escort trailer, 1986, low hrs. Mike, Ext. 4789.

12' ALUMINUM BOAT - 9 1/2-h.p. Evinrude, trailer, oars, anchor & lifejackets, v.g. cond., \$650. Bennett, Ext. 5490.

YAMAHA WAVE RUNNER - 1989, very low hrs., w/trailer & 2 vests, excel. cond., \$3,800 or best offer. 744-1610.

POWER WINCH - for trailer, \$50.; prop for Merc, 13x15, new, \$60. Bart, Ext. 3457 or 924-6761.

Furnishings & Appliances

WATER BED - king-size, 5 mo. old, doesn't fit in new house, w/3 sets of sheets, \$225. Nancy, 744-1610.

FURNITURE - living room, dinette, bedroom, wall accessories, moving, good cond. Linda, 736-5049, after 6 p.m.

HANGING LAMP - \$20; white silk/lace fan, \$18; framed picture, \$12; desk & chair, \$20; brass whale tape holder, \$10. Kathy, 744-2203.

DRYER - Westinghouse, new motor, good cond., \$100; 3 pairs of drapes, formal, 8"l x 32"w, ivory fabric w/floral pattern, make offer. Ext. 2527.

DESK - wood & metal, professional, good cond., \$125. 281-9150 after 6 p.m.

BEDROOM SET - 5 piece, mahogany, circa 1930, chest, dresser, double bed, 2 night tables, \$350. 265-6238.

WASHER-DRYER - GE, white, large capacity, heavy duty, good cond., \$200. baby's play pen, full size, good cond., \$25. Geri Ann, 345-5713.

BEDROOM FURNITURE - triple dresser, mirror, dresser, \$125. 924-1346.

FREEZER - Amana, 16 cu. ft., upright, good cond., \$75. 581-4436.

BEDROOM FURNITURE - full-size mattress, boxspring, headboard w/frame, 2 triple dressers w/mirrors, 2 night stands, \$200. Tirre, 281-0360.

CANOPY BED - new, hangs over any bed from ceiling, sheer rose, Spiegel catalog, \$85. 924-3004 after 4 p.m.

LIVING ROOM SET - sofa, loveseat, armchair, lamp, stands, coffee table, like new, \$600. Ext. 3702 or 751-1042 after 7 p.m.

BEDROOM SET - girl's, five piece, white, \$125; baby's dresser, best offer; light brown stoneware dishes, serves 12, \$125. Harris, 281-5752.

RUG - w/padding, light brown, 11'10" x 14'10", \$75; mattress & boxspring, twin, w/frame, \$35. Paul, Ext. 4309.

Tools, House & Garden

TOPSOIL - screened, can be delivered, 15 yards minimum for delivery. Bob, 654-4800.

LAWN MOWER - Briggs & Stratton, 3 1/2 h.p., hard rear bag, excel. cond., \$85. Dan, 698-7322 or Ext. 4987 eves.

LAWN MOWER - 1986 Simplicity, riding, 8 h.p., 30" cut, good cond., electric start, \$375. Tom, Ext. 4507 or 878-1060.

WATER TANK - new, 30 gallon, glass lined, \$100; Ross lawn mower, \$50. Kathy, 744-2203.

WATER PUMP - Starite, 1/2 h.p., new cond., \$100. Ext. 2527.

ANNUALS - \$11/flat; hanging fuschia & geranium baskets, \$11; geraniums, \$2.25; shrubs also available. Ken, 744-0722.

WINDOWS - 36", w/storms & screens, \$45/each. 744-8632.

ANNUAL FLOWERS - \$10/flat; \$5.50/1/2 flat; vegetables, \$1/pack; hanging baskets, large selection. Ray, 727-6818.

WOOD LATHE - Craftsman, \$225; Black & Decker sawzall, \$75; 2000W gen., belt drive to any gas motor, \$100. Burt, Ext. 3457 or 924-6761.

TOPSOIL - fine screened, delivered. 696-6011, leave message.

Sports, Hobbies & Pets

SWIM FINS - \$10. Kathy, 744-2203.

POOL - above ground, filter, cleaner, pump, deck, you haul, \$100. Pam, 331-3419.

CAMPER - Coleman, pop-up, Sun Valley, sleeps 6, lightweight, heater, stove, perfect shape, \$1,600. Joel, 751-0610.

COMPOUND HUNTING BOW - Golden Eagle Hawk, w/arrows, \$50. Ext. 5409.

HAMSTER CAGE - deluxe 3-story, all assembled, orig. \$60 not assembled, asking \$25. Harold, Ext. 2582.

BOWS - PSE Nova R.H., 30" draw, 60 lbs., \$75; Golden Eagle Cam Hunter R.H., 30" draw, 60 lbs., \$150. Bill, Ext. 2377 or 698-1971.

PHOTO EQUIP. - for studio, auto pale backdrop, Norman power P800D w/4 outlets, 3 strobes, umbrellas, more, price neg. Janet, Ext. 2345.

WESTERN SADDLE - good cond. Steve Kochis, Ext. 4498.

ROWING MACHINE - excel. cond., \$40; piano bench, black, \$50; 2 stereo speakers, \$30. Ext. 3699.

Audio, Video & Computers

STEREO - Panasonic, w/turner, double cass., turntable, amplifier & speakers, asking \$180. Wendy, 399-4399.

DIGITAL RADIO - am/fm, from '88 Ford, \$40. Jim, Ext. 4669.

KENWOOD KAG100 AMP - KD2100 turntable, Sassui reverb amp., CTF900 cass., SG9800 equal., DT400 timer, Pioneer, \$275/all. Steve, 696-3051.

COMPUTER - Tandy 1000TX, 20 meg, hard disk, 640k ram, color monitor, dot matrix printer, more, IBM-PC/AT compat., \$1,600. Doug, Ext. 5857.

WALKMAN - Sharp, with am/fm & graphic equalizer, w/o head set, 1 yr. old, good cond., \$40 neg. Manami, Ext. 3190.

COMPUTER - Apple IIE, dual disk, printer, extras, Atari 300XE disk, color printer, \$200. Frank, Ext. 2022 or 399-4480.

TV - 19", Sony Trinitron, good cond., works well, \$250. 736-7603.

Miscellaneous

BRASS SEAGULL - \$10; lamp, \$10; 2 mini speakers, \$10; new camera case, \$18. Kathy, 744-2203.

TICKETS - *Aspects of Love*, May 16, matinee, front mezzanine, \$50/each. 724-5131.

CLOTHES - man's new sports jacket, size 40, \$20; wool pullover sweaters, \$10/each; brown jeans, size 36, \$10. Susan, Ext. 7716.

Free

PICNIC TABLE - and four benches, you pick up. Paul, Ext. 3308.

WOODBURNING STOVE - make offer, logs need some cutting, free. Ext. 3662 or 3675.

CAT - male, 3-yr.-old, neutered, declawed, black, very affectionate, needs loving home. 588-9012 eves., or Fran, Ext. 4215.

SHEPHERD/COLLIE MIX - female, spayed, needs good home, affectionate, 1 1/2 yrs. old, great w/kids. 751-8873.

OIL TANK - 275 gallon, good cond., you pick up. Paul, Ext. 3848.

MICA - assorted sizes and colors, lumber assorted sizes, you pick. Ext. 3662 or 3675.

PUPPIES - mother golden retriever, father unknown, all black, 1 male, 3 female, 8 wks. old. Tirre, 281-0360 after 6.

Yard & Garage Sales

CENTER MORICHES - Sat. & Sun., April 20 & 21, 8 Howell Place, 9-4 p.m.

Lost & Found

FOUND - earring, BNL cafeteria, 4/12/90. Ext. 2348.

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

BELLPORT VILLAGE - 1-bdrm. apt., l/r, bath, eik, gar., 2nd floor in a cape, \$600/mo. incl. util. Webster, 874-8622.

CENTER MORICHES - 3-bdrm. waterfront ranch, bulkhead, 2 baths, fence, fp, dw, w/d, dock avail., \$1,000/mo. 586-3636 days or 667-4845 after 6 p.m.

MASTIC BEACH - 3-bdrm. house to share w/2 other professionals, \$400/mo. incl. heat, elec. & cable, 15 min. to Lab. Jonathan, 395-5221.

MEDFORD - 1-bdrm. apt., priv. bath, priv. ent., microwave, small refrig., no children, no pets, nonsmoker, \$100/wk. + sec. 475-7250.

MIDDLE ISLAND - 1-bdrm. apt., l/r, d/r, heat incl., \$650/mo. + elec. and 1 mo. sec. John, 665-2884.

NORTH SHIRLEY - 3-bdrm. apt., upstairs, priv. ent. & driveway, \$750/mo. + util., use of backyard; also apt. to share w/female, avail. May 1, 1990. 399-0569 or 924-4909.

RIDGE - 1-bdrm. apt., full bath, l/r, w/w, cable, priv. ent., 5 min. to Lab, mature working person, \$600/mo. incl. all, + 1 mo. sec. Mike, Ext. 7625 or 924-0341.

NORTH MYRTLE BEACH, SC - 1-bdrm. condo, sleeps 4, tennis, fitness, indoor/outdoor pool near golf, beach rights, golf pkgs. avail., April-May, \$250/wk. Joann, 472-6742.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, 2 baths, tennis, golf, beach, pool, Apr.-Sept. \$425/wk. 689-5373.

For Sale

AQUEBOGUE - 3/4 acre by beach, private subdivision. 874-2614.

CENTERPORT - 220' waterfront on Northport Harbor, 4-5 bdrms., 4 baths, 0.6 acre, dock, \$625,000. Bob, Ext. 4044 or 261-3890.

CENTEREACH - 4-bdrm. hi-ranch, l/r, d/r, eik, 2 full baths, large fam. rm. w/fp, deck, pool, large fenced yard. \$145,900. 698-8514.

MATTITUCK - 2-bdrm. ranch, garage, full bsmt., l/r, d/r, deck, near water. Dave, Ext. 2076.

N. BAYSHORE - 6-bdrm. contemp., 2 baths, cedar ext., sep. ent., decks, 1/2 acre, city water/sewers, close to all trans., LIE/Pkwy., red. to \$167,500. Frank, Ext. 3499 or 345-5713 after 6 p.m.

RIDGE - 3-bdrm. townhouse, 1 1/2 baths, cac, w/w, all appl., encl. redwood patio, storage room, low monthly maint., 5 min. to Lab, priced to sell. Mary, 924-4328.

RIDGE - 3-bdrm. hi-ranch, l/r w/cathedral ceiling, large eik, full bath; down, l/r, bdrm., kitchen, full bath, oversized 2-car gar., gas heat, all appl., min. to Lab, \$135,000. 744-0345.