BROOKHAVEN BULLETIN

Vol. 36 - No. 19 May 14, 1982

BROOKHAVEN NATIONAL LABORATORY

Patent Awarded

David Edwards, Jr. and **Christopher P. Lanni,** both in the Accelerator Department, were awarded U.S. Patent #4,302,679 for inventing a method of determining the x-ray limit of an ion gauge. In both previous methods and their invention, the x-ray limit is measured by varying the electric field within the volume defined by the grid so as to vary the positive ion current at the collector.

Previously, a modulator wire was added to the structure of the ion gauge to provide means to vary the electric field. Such modulator wires were believed necessary since, in a typical ion gauge having a long collector wire, essentially all the positive ions would be trapped by the collector even though the collector to grid voltage was substantially reduced. The present invention is based on the realization that the strong dependence of the positive ion current on the collector to grid voltage in ion gauges having a short collector wire may be used to obtain the necessary variation in positive ion current.

Hence, the BNL invention provides a simple and inexpensive ion gauge having a low x-ray limit and a means to measure that limit.

Light From The Light Source

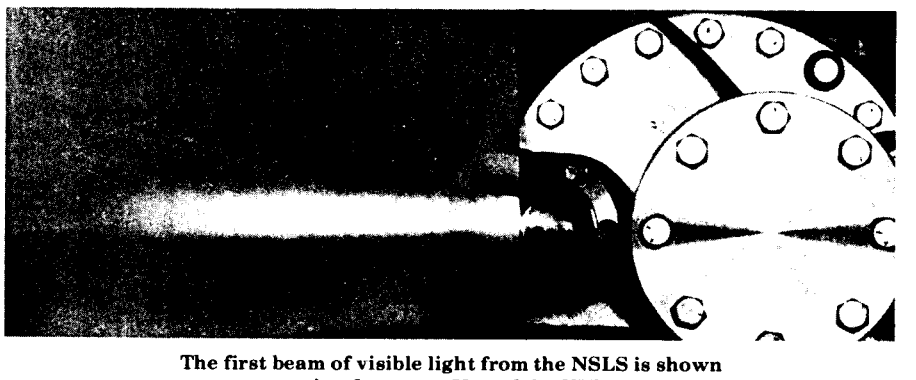
Another significant step was taken at the National Synchrotron Light Source last Thursday, May 6, when port U14 in the VUV electron storage ring was opened for the first time.

The bluish light that came through a pyrex window was used to set up the first beam line on the VUV ring. Several more ports are expected to be opened within the next few weeks. Led by physicists Gwyn Williams and Malcolm Howells, NSLS personnel have been using the opportunity that having an actual beam line affords to study the beam's size, position and stability; to align optical components; and to install radiation shielding.

By passing this milestone, said Williams, "We are now in a new commissioning phase where we will be checking out the monochromators in the beam line." From the white light that comes out of the VUV ring, these instruments isolate the one color, or wave length, required for experiments.

Williams said that this whole commissioning process will take several months, but that the first experiment should be under way by summer.

Leaning against the controls for port U14, Gwyn Williams (left) discusses the first VUV beam line with John McTague, head of the NSLS, and Malcolm Howells.



The first beam of visible light from the NSLS is shown emanating from port U14 of the VUV ring. —photos by Rosen

Site-Seeing At BNL

Within the past few weeks, Brookhaven has played host to several distinguished visitors, all of whom were here to become acquainted firsthand with the Lab's research facilities and, in particular, to review the ISABELLE project.

Representative Tom Bevill (D-Ala.) paid the Laboratory an official visit in his capacity as chairman of the Subcommittee on Energy and Water Development of the House Appropriations Committee. He was accompanied by Long Island Congressmen **William Carney** (R-Hauppauge) and **Tom Downey** (D-Amityville), both active BNL supporters.

Ed Hayes is both a part time examiner in the Office of Management and Budget and a chemist with the National Science Foundation.

Jan Mares was visiting all the national laboratories in connection with his new duties as Acting Deputy Undersecretary of Energy. He is also Assistant Secretary for Fossil Energy.

Professor Edward Teller, Lawrence Livermore Laboratory, is a member of a panel of scientists who serve as an advisory group to George Keyworth, the President's Science Advisor.

Doug Humphrey

Representatives Bevill (left), Downey and Carney answered questions from reporters at the ISABELLE site.

Doug Humphrey

Physics Department chairman Arthur Schwarzschild points out features of the Tandem Van de Graaff to the Congresssmen.

Doug Humphrey

Associate Director Martin Blume explains the workings of the National Synchrotron Light Source to Jan Mares.

Roger Stoutenburgh

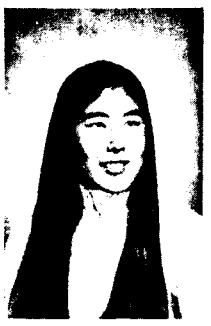
Before their tour, Director Nicholas Samios presents some background on ISABELLE to Professor Edward Teller.

Doug Humphrey

(From left) Senior Biophysicist Benno Schoenborn, Associate Director Martin Blume and Ed Hayes watch the screen of Biology's molecular graphics system as Raghavan Narasimhachari changes the display.

1982 AUI Scholarship Winners

Twelve sons and daughters of BNL employees have been announced as winners of the 1982 AUI Trustee Scholarships. The scholarship is in the amount of $1700 per year, for up to four years, and is to be used to help defray college expenses. The winners were selected from a field of 62 applicants by an independent committee reporting to the College Scholarship Service. The scholarship program was initiated by AUI in 1965.



James Hsu Barbara Kato

James Hsu - son Chia-Jung Hsu (DNE)...student at Earl L. Vandermeulen H.S....resident of Port Jefferson...plans to attend Carnegie-Mellon Univ.

Barbara Kato - daughter of Walter Kato (DNE)...student at Earl L. Vandermeulen H.S....resident of Port Jefferson...plans to attend Haverford College.

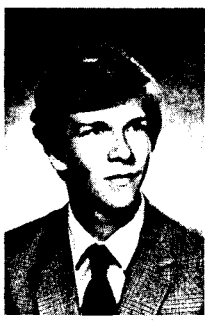
Nancy Kukacka Erika Newton

Nancy Kukacka - daughter of Lawrence Kukacka (DEE)...student at Earl L. Vandermeulen H.S....resident of Port Jefferson... plans to attend Bucknell Univ.

Erika Newton - daughter of Marshall Newton (Chemistry)... student at Ward Melville H.S....resident of Setauket...plans to attend Wellesley College.

Benjamin Peierls - son of Ronald Peierls (Applied Mathematics)...student at Bellport Sr. H.S....resident of Brookhaven... plans to attend Cornell Univ.

Jeffrey Shaw - son of Elliott Shaw (Biology)...student at Shoreham-Wading River H.S....resident of Shoreham...plans to attend M.I.T.

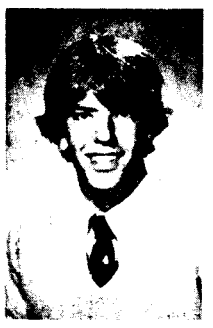


Benjamin Peierls Jeffrey Shaw

Eduardo Thieberger - son of Peter Thieberger (Physics)... student at Bellport Sr. H.S....resident of Brookhaven...plans to attend Cornell Univ.

Seth Thompson - son of Keith and Margaret Thompson (both in Biology)...student at Bellport Sr. H.S....resident of Bellport...plans to attend Bowdoin College.

Eduardo Thieberger Seth Thompson



Karen Warkentien James Watson

Karen Warkentien - daughter of Robert J. Warkentien (Accelerator) ...student at Miller Place H.S....resident of Miller Place...plans to attend George Washington Univ.

James Watson - son of Richard Watson (Physics)...student at Bellport Sr. H.S....resident of Brookhaven...plans to attend Amherst.

Douglas Willen Miriam Zucker

J. Douglas Willen - son of Erich Willen (Accelerator)...student at Shoreham-Wading River H.S....resident of Shoreham...plans to attend Princeton.

Miriam Zucker - daughter of Martin Zucker (DNE)...student at Westhampton Beach H.S....resident of East Moriches...plans to attend CalTech.

Inside Info

Joseph Hendrie, a Sr. Scientist, and former chairman of the U.S. Nuclear Regulatory Commission, was made a Commander of the Order of Leopold II by King Baudouin, King of the Belgians.

The decoration was presented by the Belgian Ambassador, the Honorable Raoul Schoumaker, at a ceremony held at the Belgian Embassy in Washington, D.C. on April 29. The award was made in recognition of Hendrie's contributions to the furtherance of friendship between Belgium and the United States.

A. Bertrand Brill, Medical, has been named to the Administrative Committee of the Nuclear and Plasma Sciences Society of IEEE. He will serve a three-year term.

Martin Plotkin, Accelerator, is chairman of a steering committee set up to oversee the publication of a new IEEE journal, Transactions on Medical Imaging. Authoritative studies will be published on generation, processing and/or display of medical images.

Gypsy Moth Update

For a little bug, the gypsy moth commands a lot of attention. According to the Cooperative Extension Association of Suffolk County, researchers from the New York State Department of Environmental Conservation, Long Island State Park Commission and Long Island Horticultural Research Laboratory were all involved in gypsy moth egg surveys during the winter. Here are some of their findings:

Suffolk County - Populations seem to be on the upswing in the Indian Island and Sears-Bellows County Parks. Blydenburg, Cathedral Pine and Cedar Point Parks show reduced numbers of viable egg masses but may still witness considerable infestation, especially where oak and white pine predominate.

Nassau County - Healthy egg masses found in parks in Bethpage, East Meadow, Hempstead, Plainview and Rockville Centre areas indicate a damaging population in the southwest sector. The immediately surrounding, privately-owned lands and home sites may also harbor similar levels of viable egg masses.

How can the homeowner cope with gypsy moths? The Cooperative Extension makes these suggestions:

- Scrap off egg masses whenever they are discovered, then burn them or drop them in kerosene. Act now; gypsy moth larvae will begin to emerge as oak buds break open.
- For effective spraying, conditions and timing to prevent defoliation must be nearly perfect. Spray no later than the last week of May. On small trees, use Sevin, Orthene, Methoxychlor or *Bachillus thuringiensis* (Bt), a bacterial spray utilizing a natural enemy of the moth. For effective control, large trees must be sprayed by a professional applicator. Read labels carefully before purchasing any spray materials.
- As larvae become larger, they seek cover during the day on the undersides of branches, in bark crevices or on the ground. A piece of burlap may be hung around the tree trunk as a place for the caterpillars to hide. There, they may be picked off and destroyed daily. Painting tree trunks with creosote is not recommended as it may kill the cambrium layer of the tree. In fact, any sticky substance applied directly to the bark is ineffective and harmful.

Reports Available

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

BNL-NCS-50640
4th Ed., Suppl. 1
The Bibliography of Integral Charged Particle Nuclear Data. T.W. Burrows

50956
Energy Conservation Policies: Possibilities, Mechanisms, and Impacts. E.A. Hudson and D.J. Behling, Jr.

50989
A Comprehensive Long-Range Energy-Economy Projection. R.J. Goettle, IV, et al

NUREG/CR-1687
BNL-NUREG-51204
Analytical Multiobjective Decision Methods for Power Plant Siting: A Review of Theory and Applications. B.F. Hobbs

51312
A Method for Estimating Technological Penetration Rates in Commercial Automobile Fleets. J.R. Wagner

51343
A Methodology for Energy Solid Waste Impact Assessment. P.M. Meier, D. Guenther

51358
Expert Judgments for Policy Analysis. G.M. Morgan, M. Henrion, S.C. Morris

51373
Strategic Analysis of Conservation and Solar Energy Policies. R.J. Goettle, IV, P.J. Groncki, E.A. Hudson

51381
Energy Future: A Primer for Secondary School Teachers. P.D. Metz

51391
The Fast-Mixed Spectrum Reactor Progress Report for 1980. G.J. Fischer, et al

NUREG/CR-2125
BNL-NUREG-51384
Properties of Radioactive Wastes and Waste Containers. Quarterly Progress Report Oct. — Dec. 1980. B. Morcos and A.J. Weiss

51395
Coal Use and Fuel Utilization in the Industrial, Commercial, and Residential Sectors. R. Isler, et al

NUREG/CR-2159
BNL-NUREG-51399
A Comparative Analysis of the International Standard Problem 8 Calculations. P. Saha, et al

NUREG/CR-2160
BNL-NUREG-51401
Water Reactor Safety Research Division. Quarterly Progress Report Jan. 1 — Mar. 31, 1981. A.J. Romano

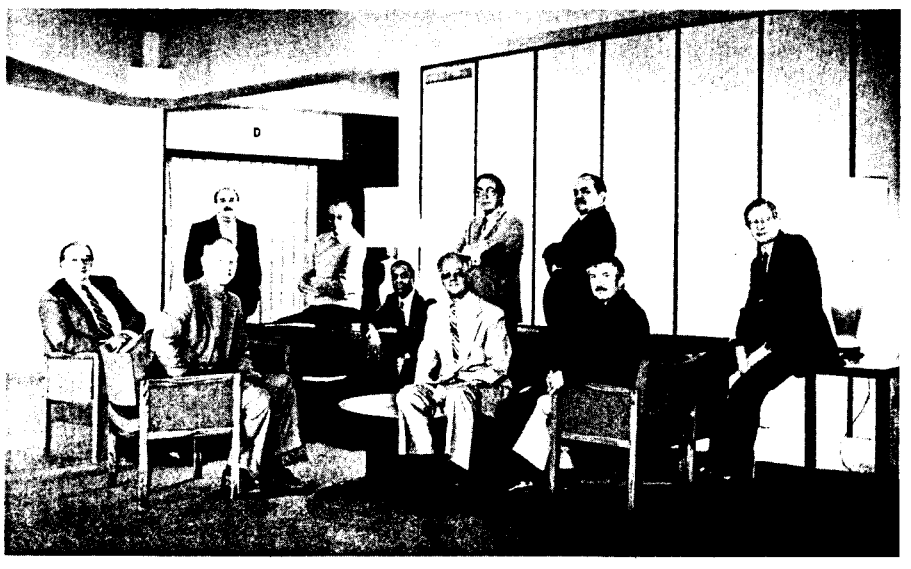
51404
Review of Plant Taxa for Listing as Endangered or Threatened Species: Compilation by State. J. Nagy, C.E. Calef

51406
Proc. of Dept. of Energy/Office of the Environment Workshop on Enhanced Oil Recovery: Problems, Scenaries, Risks. E. Kaplan, et al

51408
Low Cost Solar Energy Collection for Solar Applications. W.G. Wilhelm

NUREG/CR-2192
BNL-NUREG-51409
Evaluation of Isotope Migration-Land Burial. Water Chemistry at Commercially Operated Low-Level Radioactive Waste Disposal Sites. Quarterly Progress Report Jan. — Mar. 1981. K.S. Czycinski, et al

A Manager's Meeting



Al Mahlmann, BNL's manager of Plant Engineering (seated center), and his counterparts from the other national laboratories gathered here recently for their annual meeting. The two-day session focused on topics of mutual interest concerning plant maintenance and operations.

Hold July 17th for BNL's 35th Anniversary Picnic

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Published weekly
for the employees of
BROOKHAVEN NATIONAL LABORATORY

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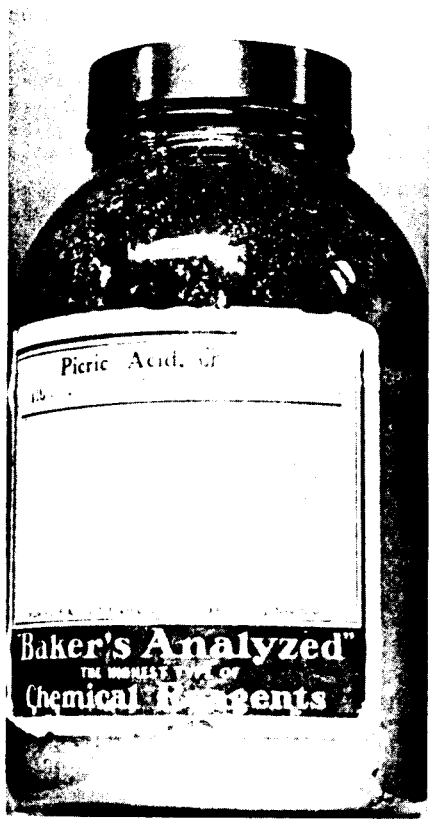
Layoff Notice

Seventy-four employees received notice of layoff on Monday and will leave the Lab on May 21. The layoff comes as a result of a reduced FY 1983 budget. Even though some items in the budget may be restored, including construction money for ISABELLE, Lab Director Nicholas Samios said the current reduction in force would still be necessary. Those most affected are in high energy physics programs, and it is hoped that some of this number can be placed in other groups not subject to significant budget constraints.

Dry Picric Is No Picnic



If you have any picric acid in your lab, particularly some which has been sitting on a shelf for a while, you may have a problem. According to Charles Meinhold, head of the Safety & Environmental Protection Division, picric acid is commonly used in the laboratory mixed with 10% water by weight. However, if picric acid is allowed to dry, it becomes a powerful explosive. Recently, a bottle of completely dry picric acid was found at BNL and an emergency pickup and detonation of the container was required. So check your chemicals and if picric acid is among them, let your Safety Rep know about it. Other common lab chemicals which should be inspected periodically because of their explosive properties, include peroxides, perchlorates and ethers.

PINY COURSE

Registration for PINY/BNL extension course NU 607, Reactor Licensing and Safety, will take place Tuesday, May 25 from 5 to 7 p.m. at the PINY Farmingdale campus in Melville on Route 110. Classes will meet from 5:30 to 8:30 p.m. Monday and Wednesday in Bldg. 318, starting June 14. The instructor is R. Bari. For additional information, call Prof. R. Aronson, PINY, telephone number 212-643-8184.

BERA Officers

At a meeting of the BERA Board held last week, Nelson Tyler was elected President for the coming year. Other officers are Rosalie Piccione, Vice-President, and Janet Sillas, Corresponding Secretary.

Continuing in their Board-appointed positions are Pat Towey as Recording Secretary and Richard Eggert as Treasurer.

Board meetings are normally held at noon on the first Thursday of each month, and are open to anyone who wishes to attend.

Swimming Pool

Fees:

Season Tickets (fees not prorated)

Individual Membership	$23.00
Family Membership	33.00
Daily Admissions	
Employee/Family Member	1.25
Guest	1.75

Schedule:

Monday through Friday
(Employees Only)
11:00 a.m. to 1:30 p.m.
(Employees/Families/Guests)
5:00 p.m. to 9:30 p.m.

Saturday and Sunday
(Employees/Families/Guests)
1:00 p.m. to 6:00 p.m.

Note: The swimming pool is closed on all Laboratory holidays.

Guest Ruling (Applies to all recreation facilities)

One Guest - An employee is allowed to bring one guest per visit without special permission or prior arrangement. The guest must be accompanied by the employee.

Two to Five Guests - Advance arrangement for two to five guests may be made at the Recreation Office. (No more than five guests per employee is ever permitted.) When such an arrangement is made, the Recreation Office issues an admission card stating the sponsor's name and life number, the number of guests permitted, the date of visit, and the facility to be visited. Guests must be accompanied by the employee, who will be requested to show the admission card at the main gate and at the swimming pool ticket desk.

Sponsoring employees are responsible for their guests during the entire time they are on site.

Bowling

White League

J. Roesler bowled a 233, K. Asselta 219, S. Smith 180, N. Erickson 191/172, J. Ferrante 202 and also converted the 6/7/10, M. Belligan 177. The Gropers are holding on to first place.

Pink League

High games were rolled by F. Briening 163, K. McNally 169, J. Thiede 167, D. Johnson 180, M-G Meier 193/173, H. Keeley 190/160, R. Rosati 173/162, C. Beckner 162, E. Kristiansen 170.

Red & Green League

A. Pinelli bowled a 226, J. Morris 214/201, C. Bohnenblusch 214, E. Sperry IV 213, A. Almasy 211, J. Connelly 209, B. Sick 204.

Purple League

High games were rolled by E. Meier 235, P. Bonti 233, D. Stonebridge 202/217, B. Jones 204/203/602 scratch, G. Spira 213, H. Keeley 204, C. MacDougall 201/201, M-G Meier 189. The Draftecs are in first by two points followed by the Good Times.

Arrivals & Departures

Arrivals

None

Departures

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

Edward M. Dubaniewicz ..... S&M
Colleen L. Slattery ..... Contracts & Proc.
Jerry Svoboda ..... Supply & Materiel
George C. Waldbauer ..... Supply & Materiel

Good Sports

Peter Horton

Another season of summer sport started this week as umpires yelled "Batter up!" Mixed league softball kicked off last Monday afternoon on Field 1 as Who Cares took on The Source. Here Gary Connell contributed to Who Cares' early lead with a two-run homer. Despite a very close play at the plate by The Source's Joe Sheehan, both April Donegain and Connell scored. The final score: Who Cares 22, The Source 9.

Quilting Club

The BERA Quilting Club will meet on Tuesday, May 18 from 7 to 9:30 p.m. in the Recreation Building. There will be a demonstration of Trapunto, announcements of local quilt-related activities, show-and-tell, and time to visit with the other members while you work on your own quilting or needlework project. All employees and their spouses who are interested in any aspect of quilting, patchwork or applique are invited to attend our meetings. For more information, call Bernie Benz, 928-1068 or Beth Pile, Ext. 3186.

Cafeteria Menu

Week Ending May 21, 1982

Monday, May 17		
Cream of mushroom soup	(cup)	.60
	(bowl)	.70
Western omelet w/hash browns		1.70
Kielbasi w/sauerkraut		1.80
Hot Deli — BBQ top round of beef	(bread)	1.85
	(roll)	1.95
Tuesday, May 18		
Beef barley soup	(cup)	.55
	(bowl)	.65
BBQ spare ribs & 1 veg.		1.85
Cheddar cheese steak & 1 veg.		1.75
Hot Deli — Roasted turkey breast	(bread)	1.75
	(roll)	1.85
Wednesday, May 19		
Turkey okra creole	(cup)	.55
	(bowl)	.65
Stuffed cabbage & 1 veg.		1.75
Sauerbraten w/potato pancake & red cabbage		2.15
Hot Deli — Sandwich steak w/pepper & onions	(bread)	1.80
	(roll)	1.90
Thursday, May 20		
Pork & cabbage soup	(cup)	.55
	(bowl)	.65
Chinese pepper steak on rice		1.85
Southern fried chicken & 1 veg.		1.75
Hot Deli — Corned beef	(bread)	1.75
	(roll)	1.85
Friday, May 21		
Clam & celery bisque	(cup)	.60
	(bowl)	.70
Broiled fish fillet & 1 veg.		1.70
Chicken pattie Parmesan & 1 veg.		1.75
Hot Deli — Breaded fish fillet hero		1.85

Runners' Corner

Reminder: The BNL Roadrunners' Spring 5k and 15k races will take place this Sunday, May 16, at 10 a.m. All are welcome. For more information, call Ted Landry, Ext. 2959; Jeanne Penoyar, Ext. 2614; or Bill Thomlinson, Ext. 3937.

WIS Meeting

Dr. Jane Porcino, gerontologist, will speak on "Health Issues of Women Over Forty" on Thursday May 20. Dinner will be served at 5:15 in the Brookhaven Center and the talk will follow. Please make dinner reservations by sending a check for $7.50 payable to BNL-WIS to Ellen Gannon, Bldg. 801, by May 17.

Soccer

The Soccer club has resumed its outdoor season. Pick up games are held every Monday at the BERA recreation field on Brookhaven Avenue. Games start at 5:30 p.m. Everyone is welcome to play. Any inquiries may be directed to Dave Cox, Ext. 3818, or to Enrique Abola, Ext. 4383.

Classified Advertisements

Placement Notices

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

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

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

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

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

SCIENTIFIC POSITIONS OPEN: The following staff positions are open. Candidates may apply directly to the department representative named, or through the Office of Scientific Personnel, Ext. 3338.

SCIENTIFIC STAFF - Openings for M.S./Ph.D. mechanical or chemical engineers with experience in numerical methods of heat and mass transfer, and understanding of reactor systems; and for Ph.D. physical chemists with experience in high temperature chemistry and aerosol physics. Contact: Cesar A. Sastre, Department of Nuclear Energy.

JUNIOR STAFF - Position for Ph.D. with electrochemical or metallurgical background, with knowledge of corrosion. Contact: Daniel Van Rooyen, Department of Nuclear Energy.

Autos & Auto Supplies

69 & 70 VW BUG BODIES - good pans, parts, or all, no engines, make offer. Fred, Ext. 4823 or 588-2268.

70 TOYOTA CORONA - 2 dr., 4 spd., garaged 4 years, excel. body & engine, $1,200. Sam, Ext. 4138 or 751-9096.

GROUNDHAWG TIRES - (4) 14.35x15, very good cond., low mileage, $275. 286-1522 eves.

73 CHEVY-C10 SUBURBAN - trailer package, runs good, extras, one owner, $1,850. Ext. 2380 or 929-8142.

73 CHEVY SUBURBAN - 350 V8, $750. Ext. 2292.

79 HONDA - CM400T, 2,000 mi., garaged, must sell, $1,100. 981-0181.

73 HONDA - CB750, quartz headlight, seat, K&N filters, alphabet pipes, new tires, $1,000. Dennis, Ext. 5385 or 654-2076.

78 YAMAHA - XS400 special, black, 4,600 mi., elect. start, windshield, luggage rack, (2) Arais helmets, service manual, $1,300. 929-8204 after 5 p.m.

74 TORINO - 302 V8, a/t, p/s, new exhaust & shocks, body good, needs some engine work, $575. Ken, Ext. 2350.

78 TRANS AM - 6.6 LT, gold/beige int., p/s, p/b, DE, new brakes & exhaust, am/fm, 8 track, T-top, 4 spd. Roy, Ext. 4664 or 744-8779.

AUTOBODY PARTS - for late model Chevy Blazer, have (2) rear quarter panels, tailgate w/glass fiberglass cap, no rot. 286-1522.

81 DODGE ARIES-K - 11,000 mi., 4 dr., blue, mint cond., custom, $6,200 firm. George, 588-1713.

TIRES - F70-14 on mag wheels for Plymouth, $5/ea. 744-9677.

80 SUZUKI - GS1000L, luggage rack, many extras, warranty, mint cond., $2,900. Ext. 7187 or 981-9474.

71 VW BUG - rebuilt engine, new trans., good rubber, $550. 878-2681 eves.

SHOCKS - Load Levellers. Ext. 3919.

FORD TRUCK RIMS - new, (4) w/hub caps, 15", $10/ea.; snow tires, (2) E78-14", good cond., $8/ea. 924-3082.

76 HARLEY DAVIDSON FLH-1200 - 10,000 mi., black, stock, clean, low-rider seat, $3,650. Ext. 4460 or 929-3347.

72 FORD - 2 dr., needs some work. 399-4243.

73 HONDA - 500, fairing, saddle bags, trunk, air-horn, $650. Frank, Ext. 4581 or 588-3565.

TIRES - (4) 8.75x16.5, (2) 12.00x16.5, $60 takes all. Fred, Ext. 4798.

77 HONDA - 750, auto, windshield, luggage rack, 5,000 mi., excel. cond., $1,500. 281-5505 after 7 p.m.

81 YAMAHA - 250, windshield, 80 mi., like new, $1,250. 281-5505 after 7 p.m.

78 HONDA GOLDWING - GL1000, 4,000 mi., like new, $2,600. 473-8783.

TRUCK TIRES - (2) 9.50x16.5, good cond., $20/ea. Dee, Ext. 3675 or 286-8909 after 5:30.

78 YAMAHA - XS650 special, low mi., very good cond., $950. Brian, Ext. 3612.

69 VW - rebuilt engine & semi auto. trans., needs work, best offer over $350. Fred, Ext. 4823 or 399-6333 after 6 p.m.

70 PLYMOUTH DUSTER - good cond., new tires. 727-7741.

80 MAZDA SPORT PICKUP - immaculate, stereo w/tape, 21,000 mi., 26 mpg local, 40 mpg highway, cap. 727-7741.

79 GMC 3/4 TON PICKUP - 4 spd., 350 cu./in. engine. 878-0953 or 878-9582.

73 CHEVY VEGA - good for parts, good tires. 878-1514.

69 DODGE CHARGER BODY - excel. cond., primed, negotiable, $450. 473-5890 after 5 p.m.

77 FORD MUSTANG II - V-roof, p/s, p/b, V6, sporty, excel. cond., $3,400. 473-4034 eves.

78 HONDA - 400cc, well maint., 6,000 orig. mi., some extras, must see, $1,000. Ext. 2926.

74 CHEVROLET STEP-VAN - V8, 4 spd., refrigerated, insulated, fiberglassed, heavy duty front & rear, $4,000. 654-5169.

73 PINTO WAGON - 4 spd., reg. gas, a/c, w/w radials, bucket seats, 75,000 mi., looks & runs like new, $1,095 or best offer. 473-2473.

71 VOLKS SUPER BEETLE - new eng., new tires, excel. running cond., $1,400. Ext. 4049 or 331-1665.

76 CHEVY 1/2 TON PICKUP - 350 eng., 3 spd., two-tone color, 8' bed, cap, white slat wheels, $3,700. Steve, Ext. 4297 or 929-6877.

69 DATSUN - good for parts, $50. Steve, Ext. 4297 or 929-6877.

76 BUICK LESABRE - custom, 2 dr., hardtop, full option, a/c, p/s, p/b, p/w, e/l, am/fm stereo cassette, 6-way p/seats, new tires, $2,500. Tsuyoshi, Ext. 4529 or 3214 (apt.).

69 VW BUG - body and int. good cond., blue, you remove from chassis, $200. Rich, 929-8930.

MINIBIKE - needs work, doesn't run, asking $40. John, Ext. 3292 or 286-1348.

RADIAL TIRE - 165x13, new, mounted on Datsun 1978 F10 wheel, asking $35. John, Ext. 3292 or 286-1348.

60 MERCEDES 190B - has broken cam shaft, good for parts. Bob, Ext. 4637 or 692-8659.

79 HONDA HAWK - 400cc, almost new, asking $1,200. 588-0805 eves.

79 SUZUKI DS100 - trail bike, excel. cond., new tire & chain, $500. Pete, 289-0145.

73 HONDA CB-350 - good cond., low mi., $450. 878-8847.

SEATS - front, for VW Bug and Fastback. 589-5490 after 6 p.m.

TIRE RIMS - (2) GM, size 14. William, Ext. 4270.

73 MAZDA RX-2 - rotary, 4 spd., excel. body/int., a/c, eng. removed, $400. Rich, 929-8930 after 7 p.m.

75 HONDA - 750cc, many extras, must sell, mint, $1,600. 698-5088.

PICKUP - cap, 8', white, alum., (4) bubble windows, like new, was $400, yours for $200. 325-8186.

73 PINTO - very good running cond., many new parts, sunroof, some rust, $799 or best offer. Ext. 4432 or 928-8379.

77 JEEP CJ5 - 14,000 orig. mi., 4x4, 6 cyl., gas saver, mint cond., $4,500. 732-3842.

TRUCK CAMPER - 11', stove, refrig., oven, $800. Ext. 7684 or 584-5933.

74 DATSUN 260Z - 4 spd., a/c, am/fm, good cond., no rust, $3,400. 878-0288.

78 PLYMOUTH VOLARE - 4 spd., 6 cyl., 2 dr., p/s, a/c, am/fm cassette, 46k mi., excel. cond., $3,800. 924-4054.

Boats & Marine Supplies

20' COBIA - Johnson 85 HP, trailer, depth finder, many extras, $2,500. Lou, Ext. 3506.

WINNER BOW RIDER - 1973, hull only, perfect cond., $495. 924-3082.

DANFORTH ANCHOR - 8-S 50', 3/8" nylon line. Ext. 4727.

18' DORSETT RUNABOUT - 1960, glass, 40 HP Evinrude, elec. start. 878-0953 or 878-9582.

25' PACEMAKER CRUISER - 1966, 220 HP, Palmer F.W.C., sleeps 4, extras, in water. $2,500. 878-0953 or 878-9582.

JOHNSON OUTBOARD - 1970, 50 HP, elec. start, alternator controls, Diehard battery, excel. cond., $500. 878-2687.

16' ALUM. BOAT - 1980, 35 HP Johnson, trailer, $2,400. Ed, 727-4925.

18' GARVEY - clam boat and 40 HP Johnson eng., plus extras, must sell, $800. John, Ext. 3292 or 286-1348.

16' ALUM. OPEN FISHERMAN BOAT - 40 HP elec. start motor, M.S.G. trailer, asking $900. 924-6751 eves.

21' CRUISER INC. - 1973, I/O 165 OMC, cabin, DF, CB, full canvas, $4,800. 924-4054 after 6 p.m.

20' BAYLINER - 1976 Liberty 130, Volvo I/O, cabin, trailer, extras. John, 541-4792.

Free

FOR ADOPTION - adorable puppies, 6 wks. old. Dan, Ext. 3867 or 698-6120 after 6 p.m.

Yard Sales

YARD SALE - May 15 & 16, 10 a.m.-4 p.m., 5 Baywood Dr., Shirley, right on Havenwood at light, furniture, tools, clothes, many extras. Ext. 2969.

YARD SALE - May 15, 9 a.m.-5 p.m., 23 East Cherry St., Central Islip. 234-5502.

GARAGE/MOVING SALE - May 15 & 16, 4 Mary Pitkin Path, Shoreham, tools, appliances, housewares, furniture, books & misc.

GARAGE SALE - May 14 & 15, rain date May 16, 101 Jennings Ave., Patchogue, 10 a.m.-4 p.m., collectibles, misc.

YARD SALE - May 15 & 16, 58 N. Ocean Ave., Center Moriches, household items, garden tools.

YARD SALE - May 15 & 16, 12 p.m on, 1808 Phillips Dr., Medford. 289-0753.

Miscellaneous

ROTO HOE SHREDDER/GRINDER - 5 HP, very good cond., used infrequently, $200. 744-4611 eves.

8-TRACK TAPES - excel. cond., $1/ea. Eddie, 732-3350.

TUMBLING BARRELS - machine and (2) rubber lined barrels, 110V, $100. Fred, Ext. 4407.

WHITE COMBO STORM SCREEN - new in box, 2 ea., 30x53-3/4, $65, asking $25. Lou, Ext. 2302.

GIRL'S BICYCLE - new cond., $35; chess set, hand carved onyx, onyx inlaid board, $30; organ, Baldwin, one octave, foot pedals, $350. Lou, Ext. 3506.

CANNING JARS - new and used, pints and quarts. Ext. 7509.

WOOD SCREENS - (2) 28x42", $6/ea.; tub enclosure, glass, 5', $30. Bill, Ext. 3355 or 472-4684 after 6 p.m.

ELECTRIC WALL OVEN - Hardwick 24", very good cond., $50 or best offer. 929-8105.

BEDROOM SET - 4-post bed, 6-drawer dresser, small desk & chair, bookshelf, $300. 473-7546.

GAS DRYER - Westinghouse, L.P. gas, $50; combination Hardwick gas/kerosene kitchen stove, like new, $100. Charles, 924-3082.

FISH TANK - 55 gal., fully equipped w/pump, $200. Ext. 7187 or 981-9474.

MINIBIKE - 5 HP, Tecumseh engine, front & back shocks, hand brake, $150. Chris, 585-4038.

FORMAL GOWN - light blue, size 9/10, great for prom, must be seen, $45; 14 kt. gold necklace w/diamonds, $130. Ext. 7745.

INDIAN HEAD PENNIES - most dates 1880-1899, set of 5, 1895-1899, $3. Greg, Ext. 7960.

SOFA - cream colored, heavy corduroy, $60; ball foot oak & walnut china closet, $500. 924-4685.

TYPEWRITER - IBM Model C, good cond., elec., plus stand, $275; court stenotype machine, good cond., hardly used, still in case plus books, orig. $250, asking $125. Ext. 4933 or 369-2065 after 6 p.m.

TOY POODLE PUPPIES - (2) males, (2) females, black, all shots and tails docked, very reasonable. 878-8072.

GRANITE STONE - for fireplaces, gardens, barbecues, walks, white/grey/pink, 2 tons, all or part. Artie, Ext. 2957 or 7632.

DOG HOUSE - 12 sq. ft., sacrifice. 265-0501 after 7 p.m.

ANTIQUE CAMERAS - No. 2A cartridge Kodak, No. 2A autographic Kodak Brownie, No. 1A autographic Kodak Jr., $50. 744-3574.

SHUTTERS - w/movable louvers, 8 pieces, 6"x24" (or 48" wide), $5/all. Susan, Ext. 7235 or 399-1736 after 5 p.m.

GENERAL ELECTRIC C.B. - 40 channel, squelch noise blanker, A.N.L., $50; metal detector, Bounty Hunter Model TR500, w/phones, $74. Frank, Ext. 4581 or 588-3565.

CHICKEN WIRE - as good as new, 3' high, 100' long, best offer. 929-4865.

HONDA LINE MOTOCROSS LEATHER PANTS - very good cond., 34" waist, $50. Mark, Ext. 5350.

LP GAS FURNACE - 49,000 BTU, recess in floor or free stand, like new, $100. Susan, Ext. 7235 or 399-1736 after 5 p.m.

YARDSMAN VAC. SWEEPER - 5 HP, excel. cond., can be attached to rider, $200. 878-1056.

300 WATT BI AMPLIFIER - for ham radio use, illegal for CB use. 751-6418.
FIRST DAY COVERS - commemorative & United Nations, 1954-62, 50% off catalog price; 9'x12' multi-colored rug. 744-2766.

FIR & SPRUCE EVERGREENS - 20"-40", u-dig, 2/$7; Lily-of-the-Valley plants, 100/$5; 7' artificial Scotch Pine Xmas tree, $5. 727-1617.

POLAROID AUTO 100 - w/flash att., plus 9" to 15" closeup equip., uses 108 film, excel. cond., $35 firm. Charlie, Ext. 3354 or 234-8530.

CLARINET - Selmer Bundy, w/case & reeds, good cond., $150; boy's navy blue Communion suit w/vest, sz. 8 regular, also black shoes, sz. 13, $25. Ext. 2314 or 567-5131.

QUEEN SIZE MATTRESS - $35; 20" lawn mower, 3 HP, adjustable height, $60. Bob, Ext. 3080.

FULL SIZE BED - excel. cond., $125; 70 watt Scott stereo, Garrard turntable, tube, maple cabinet, $125. Ext. 7197 or 821-9483.

REFRIGERATOR - Kelvinator No-Frost model 75 BN, 14 cu. ft., brown, r.h. door, good cond., $120. Ext. 4315 or 924-0425.

CONURE - orange fronted, talks & does tricks, hand tamed, $150. 265-1072.

SHOWER/SPLASH GUARDS - unopened pair, sand color, $4. Linda, Ext. 2773.

CRYSTAL CHANDELIER - 3-tier, 5-lamp, elegant, $130. Vin, Ext. 5385 or 281-3286 around 6 p.m.

WALNUT CHEST & MIRROR - 42", w/comb. drawers/doors, excel. cond. 584-7750 after 6 p.m.

TOYS - used but good cond., cheap, in Shirley area. Helen, 281-8848.

FIREPLACE SCREEN - hang-up type, pull-chain open, brass, adjustable, $10. John, Ext. 3292 or 286-1348.

FURNITURE - living room couch bed, (2) chairs, new, $200. Ext. 2830 or 744-3822.

LAWN MOWER - 20", not running, (2) blades, make offer; desk, (2) wooden seats, 4'x5' top; oval braided rug, red, 9x12. Ray, Ext. 7509.

KENWOOD TURNTABLE - belt driven, excel. cond., best serious offer. 924-6021.

VENDING MACHINES - brand new, orig. $700, sacrifice $150; Sears Powermate canister vacuum cleaner, good working cond., $40; child's bicycle seat, $4. 924-3066.

GUARD DOG - trained German Shepherd, AKC reg., female. 924-4054 after 6 p.m.

KITCHEN TABLE - formica, good cond., $20. Louise, 924-0794.

BEARCAT 220 SCANNER - equalizer; trailer hitch; commercial duty sander 4x24; portable propane stove, tank. Ext. 3985.

G.E. DISHWASHER - works well, approx. 10 yrs. old, some wear & tear, $25. Joyce, 475-8406.

CASUAL FURNITURE - modular, foam, grey quilt, (2) corner seats, love seat, chair, ottoman, converts to (4) sleepers, $150. Ext. 7683.

DRESSER SET - (1) 5-drawer, (1) 3-drawer, wood, good cond., $50. 234-5502.

FULL SIZE MATTRESS - and box spring. 727-0661 after 5 p.m.

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

1/4 ACRE PROPERTY - in Port Malabar, on Florida's east coast, a General Development Corp. community, just 1 hr. from Disney World & Orlando. Ed, 585-2088 after 4 p.m.

CONDOMINIUM - Birchwood at Blue Ridge, 15 min. from Lab, 3 bdrms., many extras, facing golf course, low 60's. 698-7213.

WADING RIVER - north of 25A, lovely wooded bldg. plot, exclusive area, slightly under 2 acres, asking $22,500. Owner, 928-0158.

WADING RIVER - 3 bdrm. ranch, 1 baths, cedar den/stone fireplace, full bsmt., private beach, assumable 8% mort., $67,500. 929-4096.

WADING RIVER - 4 bdrm. colonial, d/r, den, fireplace, 2-car garage, private beach. Ext. 7727 or 929-4631.

BELLPORT VILLAGE - 7 rm. cape, large l/r w/fireplace, sunny eik, large bsmt., 2 full baths, 2-car garage, near golf/tennis, asking $63,000. Owner, 286-8972.

For Rent

BERKSHIRES CHALET - 3 hrs. from NYC, 3 bdrms., 2 baths, fully equipped kitchen, elec. heat, deck w/spectacular view, near lake, hiking trails, available weekly or weekends. 929-6946 after 6 p.m.

WADING RIVER - lovely house on wooded acre, 3 bdrms., 2 baths, l/r, d/r, eik, den, study rm., 2-car garage, deck, all appl., energy efficient, 12 min. to Lab, Shoreham/Wading River schools, avail. August. Ext. 3642/4391 or 929-6964 after 6 p.m.

SOUND BEACH - furnished room, share 2 bdrm. apt., kitchen, l/r, bath, room has full size bed, phone & TV, walk to private beach, great for summer, $200/mo. incl. util., male preferred. Roy, Ext. 4664 or 744-8779.

SOUTHAMPTON - spacious new ranch, 3 bdrms., 2 baths, d/r, l/r, m/r, large kit., deck, fireplace, bar, rent incl. use of chartered boat, $6,200/full summer, $2,100/mo., $650/week. 283-0223.

FIRE ISLAND/OCEAN RIDGE - ocean front house, 3 bdrms., fully furn., avail. for seasonal or monthly rental. Roman, Ext. 3751 or 399-3659.

BELLPORT VILLAGE - 1 bdrm. apt., unfurn., 2nd floor, private ent., eik, garage, $320/mo. incl. util., 1 yr. lease. 286-8850.

Car Pools

RONKONKOMA - driver to join 3-person pool, LIE exits 59, 60 & 61. Victor, Ext. 2395.

Lost & Found

FOUND - white Poodle, Brookhaven Hamlet. 286-5879.

Wanted

TRAINS - Lionel, American Flyer, accessories, any cond. brings good price. Carole, Ext. 3362 or 924-4097 eves.

AMBITIOUS PERSON - $200-$300/mo., 4-6 hrs./wk. 698-5861 after 7:30 p.m.

CAMPBELLS SOUP LABELS - send to F. Chandler, Bldg. T-89 (for St. Mary's School, East Islip).

SHOP MANUAL - for 1967 Chevrolet; also 100' surveyor's tape, graduated .01 ft. Ext 4475.

DEHUMIDIFIER - not too large, not too expensive. Susan, Ext. 7235.

ENGINE - or engine block or head for Mercedes diesel 190D. Jerry, Ext. 2934 or 744-2816.

ROTARY GASOLINE MOWER - approx. 30", good cond. M. Johnson, Ext. 4461.

CONSTRUCTION MATERIAL - doors, windows, plywood, cellar door, stockade fencing, post & rail fence, electrical equipment. Bob, 281-5605 after 6 p.m.

BOAT TRAILER - in good cond., reasonable. Rick, Ext. 2907.

VENDORS NEEDED - for church flea market, exit 70, Manorville, May 29th, rain date June 5th, $5/space. 727-1617 or 727-1067.

MATURE WOMAN - for child care, 3 days/week, our home, own transportation, Center Moriches area. Roger, Ext. 3578.

BABYSITTER - my home, 8:30-1:30, 5 days/week. Kathy, 286-2899 after 6 p.m.

HOUSE TO RENT - Mastic/Shirley/Center Moriches area. Elaine, 281-8728 after 5 p.m.

BICYCLE - boy's 24" 10 spd. 286-9471 after 6 p.m.

CHURCH ORGANIST - Center Moriches, Estey two manual, eleven rank pipe organ. 878-1584 eves.

ACCESSORIES - for TI99/4A home computer, hardware & software. John, Ext. 3292 or 286-1348.

8MM PROJECTOR - in good working cond., reasonable price. John, Ext. 3292 or 286-1348.

VIOLIN - quarter () size. Ext. 3294 or 751-4868.

PERSONS INTERESTED - in starting BNL single's group. Chuck, Ext. 5317.

LOVING HOME - for beautiful black cat, white feet, spayed female, gentle, good with children. Ext. 2959 or 941-9134.

HOUSE - to buy or rent, South Bellport or Brookhaven, 1/1/83 or before. Ext. 4388 or 286-5879.

ROOMMATE - M/F to share $415/mo. spacious home, Port Jefferson Village. Jack, Ext. 3433.

Services

CARPET CLEANING - deep cleaning foam used, 2 rooms, $38. Top Hat Carpet Cleaning. Dan, 878-9415.

ELECTRICAL WORK - reasonable/reliable. Joe, 399-0864.

HOUSE PAINTING - interior/exterior, professional, quality materials, insured. Bob, 289-7657 after 6 p.m.

ASPHALT PAVING AND SEALING -C Bob, 475-4382.

LAWN MAINTENANCE - grass cutting, shrub pruning & general landscape cleanup. Bellport Village area. 286-9390.

LIMO SERVICE - luxury chauffeured caddy, for proms, weddings, airport & night out. Roy, Ext. 4664 or 744-8779.

PLUMBING AND HEATING - Lab discount. Joh n, 654-8189.

ROTOTILLING - for any size garden or lawn, $15/hr. Dave, Ext. 4289 or 288-3011.

EXTERMINATING - licensed professionals, all phases of pest control, termite specialists, no job too small, free estimates. 281-5445.

INCOME TAXES - prepared by professional accountant, very reansonable rates. Bob, 286-5829 eves/weekends.

VERTICAL BLINDS - mini-blinds, wovenwood shades, discount prices, completely installed. Tony, 928-9241.
RESUMES - prepared, typed, printed, cover letters. Bill Polvent, 821-9081.

SPACKLING & TAPING - free estimates, anywhere, anytime.s Bill, Ext. 3277 or 286-8185 after 5:30 p.m.

17 YR. OLD - desires summer employment, will do almost anything, Sayville area. Jim, 567-3923.

STEVE'S AUTO CLEANING - compounding & waxing. Ext. 4297 or 929-6877 after 5 p.m.

HOUSE SITTING - free, any period after May 23, r esponsible, caring. Vasilis, Ext. 2830 or 744-3822.

SMALL APPLIANCE REPAIRS - vacuums, all small appliances, No. Patchogue. 654-3900.

HOUSE SITTING - free, caring, experienced, any period after June 1, plan your vacation now. J. Allentuck, Ext. 2412.

BOATS COMMISSIONED e- bottoms painted, experienced worker, call after May 18. Jeff, 286-3509.

LAWN MOWING - yard work, 14 yr. old, Shoreham/Wading River area. Vinny, 821-1042.

TILE SETTERS - ceramic quarry tiles, no job too small, free estimates. E. Harris, 475-6460.

FIRESIDE CHIMNEY SWEEP-S - Spring special, $10 off, fireplace, wood, coal & oil flues, dustless removal. Bill, 584-6425.

ART CLASSES - drawing, painting, composition. Classes starting soon for serious persons. Adam Leskowicz, Ext. 7737 or 286-8611 after 6 p.m.

MAKEUP CONSULTATION - and facial, on your lunchS hour. For appointment call Cheryl, Ext. 5061.

SPRING CLEANUP - yard work, landscaping, also light auto repairs, lowest rates possible. 289-9811.

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