BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

# Tenure Awarded to Five Brookhaven Scientists

The Board of Trustees of Associated Universities, Inc. (AUI), granted tenure to five BNL scientists at its meeting of January 22. These five will join the Laboratory's roster of 165 tenured scientific staff on April 1.

"It's a pleasure to welcome these outstanding scientists to the tenure ranks," said BNL Director Nicholas Samios. "This is a sign of the high value the Trustees of the Laboratory place on their past accomplishments and, more important, on their future scientific promise."

As explained in BNL's Scientific Staff Manual, "A tenure appointment constitutes recognition of independent accomplishment of a high order in the performance of original research or of other intellectually creative activity appropriate to the purpose of the Laboratory." The AUI Board generally grants tenure after a researcher has come through a cycle of term appointments in accordance with the Lab's scientific staff policy.

Those who have been awarded tenure are as follows:

• **Steve Heald**, Scientist, Department of Applied Science, uses the National Synchrotron Light Source (NSLS) to study thin film interfaces and their surfaces.

One technique for looking at surfaces is known as EXAFS, for extended x-ray absorption fine structure. Heald has used regular EXAFS to study high-temperature superconductors. Recently, however, he refined this technique, developing glancing-angle EXAFS to enhance the method's sensitivity to an interface or surface signal. He has used glancing-angle EXAFS to look at a variety of metal-metal interfaces, examining how they are affected by impurities and studying the reactions that occur with thermal annealing.

**The newest BNL scientists to be awarded tenure are: (back, from left) Ben Ocko, Erik Johnson, William Morse, (front, from left) Philip Pile and Steve Heald.** — Photo by Roger Stoutenburgh

• **Erik Johnson**, Physicist, NSLS Department, focuses on instrument development. Among his contributions, Johnson devised a scheme for removing carbon contamination from x-ray optics.

He has also helped develop detectors known as photon-beam position monitors, which have been used for such troubleshooting as determining the cause of problems with the NSLS cooling-water system. Now being used to provide feedback on insertion devices, these detectors or their variants are showing up at other facilities, such as the Advanced Light Source at Lawrence Berkeley Laboratory and Argonne National Laboratory's Advanced Photon Source.

At present, Johnson is very involved with development of experiments for an ultraviolet free electron laser at BNL.

• **William Morse**, Physicist, Physics Department, is resident spokesman for experiment 821 at the Alternating Gradient Synchrotron (AGS). Known as the muon g-2 experiment, E821 will begin running in 1996 and should provide the world's most precise measurement — to 0.35 parts per million — of the anomalous magnetic moment of the muon. This will be the best measurement of the size of the muon; so far, it is consistent with being a point particle.

Previously, Morse was spokesman for AGS experiment 845, which looked at some rare decays of particles called kaons (K). Data analysis of this concluded experiment is ongoing, but already the results have set new constraints on the phenomenon of CP violation. And the experiment detected several rare K decays, increasing the world supply of one such decay from four to one thousand.

• **Benjamin Ocko**, Physicist, Physics Department, is interested in the structure and phase behavior of solid-liquid and liquid-vapor interfaces.

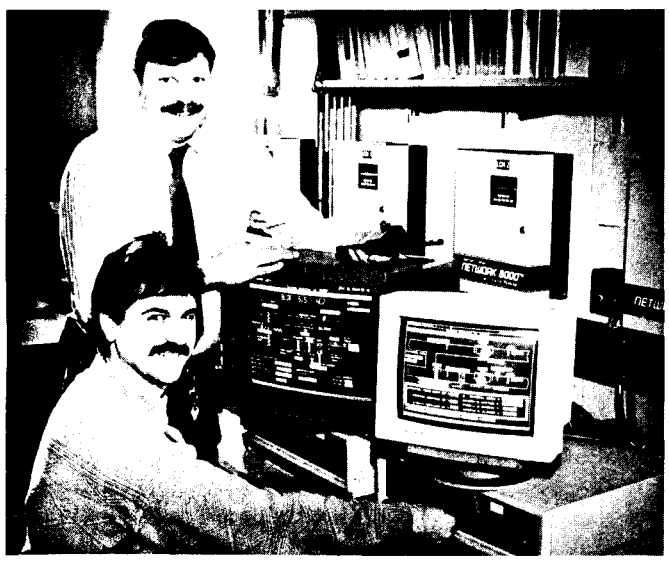
At NSLS beam line X22, Ocko and his coworkers have been studying the structure of single-crystal gold electrodes in salt and acid solutions under potential control. These studies have revealed that the gold surfaces are very well ordered and that the atomic surface structure depends on the applied potential.

Recently, Ocko and his colleagues discovered that, at the wax-vapor interface, the surface freezes at a temperature about 3 degrees Celsius higher than the bulk freezing point. In most materials, a more common phenomena called surface melting occurs, in which the surface melts at a temperature at which the bulk remains solid.

• **Philip Pile**, Physicist, AGS Department, also heads the AGS Experimental Planning and Support Division. In that capacity, Pile is in charge of supplying all the support necessary for undertaking an experiment, including finding space for them on the AGS floor, and building beam lines and spectrometers.

In particular, Pile has been responsible for the design of two AGS beam lines: a two billion-electron-volt (GeV) kaon (K) beam line commissioned for an experiment searching for the H particle, and the 0.8 GeV beam line for rare K decay experiment 787. Currently, his division is finishing construction of a beam line for another upcoming rare K decay study, experiment 865.

# PE's Energy Management Team Earns Plaudits for Savings



**Walter Bay (back) and Paul Coleman, in the Central Chilled Water Facility, working with Energy Management Control System host computers that display diagrams of what is happening at site air-handling units, which are controlled by local control modules like the ones on the wall.** Photo by Stoutenburgh

Improving the Lab's energy efficiency is the business of the Plant Engineering (PE) Division's Energy Management Control System (EMCS) optimization team — and their successful efforts were recognized last year by two awards: A 1991 Federal Energy Efficiency Award and a U.S. Department of Energy In-House Energy Management Award.

For their leadership, PE's Paul Coleman, EMCS engineer, and Walter Bay, who oversees operations and maintenance, were presented with commemorative plaques by the then Deputy Secretary of Energy, Linda Stuntz, at award ceremonies in Washington, D.C., last October 30.

The EMCS team was formed in 1990 to coordinate all Lab EMCS-related activities from construction through operation and maintenance. During fiscal year 1991, the team saved BNL over $300,000 in energy costs.

Installed in 1989, the EMCS system became operational in January 1990. It consists of individual, microprocessor-based control units networked together and monitored from a central location as well as from remote stations. In addition to coordinating all aspects of EMCS with other groups within and outside BNL, Coleman and Bay provide training seminars to appropriate operating and maintenance personnel.

The EMCS originally incorporated over 60 air-handling units in seven buildings comprising 700,000 square feet of laboratory, office, shop and experimental areas. By September 1992, four more buildings had been added to the network. While construction is about complete on 10 more buildings, future expansion will include another 80 buildings. So, the team has its work cut out for several years to come. — Liz Seubert

# Cruising the South Pacific

To learn more about the ocean's role in global warming, six oceanographers from the Department of Applied Science's (DAS) Oceanographic and Atmospheric Sciences Division spent 79 days last summer cruising the South Pacific, from Valpariaso, Chile, to Sydney, Australia, with stops at Easter Island and Auckland, New Zealand. Pictured near one of Easter Island's famous sculptures are the six scientists who traveled across some 11,000 kilometers of ocean together on the cruise, which departed Chile on May 4 and arrived in Australia June 30: (l-r) David Hunter, (continued on page 2)

## Heard It Through the Grapevine?

**See story on page 2.**

# Heard It Through the Grapevine? Then Dial Ext. 2751, ASK1

Heard any good rumors lately? Want to know if they're true? Then ASK1.

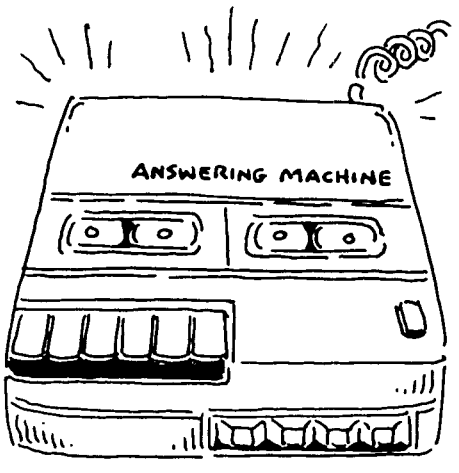
Ext. ASK1 (2751) is the number for BNL's new Rumor Hotline. Located within the Public Affairs Office, the extension has been established so that employees may confidentially call to have hearsay about the Lab verified.

"We've established the new Rumor Hotline as another way for employees to get their questions about the Lab answered factually and quickly," says Anne Baittinger, Manager of the Public Affairs Office. "Once in a while everyone hears rumors about the Lab, but not everyone can chase them down to find out if they are true or not. Given our function at the Lab, we can do that for employees, so we invite them to use the hotline."

After dialing Ext. 2751, employees will be asked to state what they've heard through the grapevine, and, in confidence, to leave their names and Lab extensions so that their questions about whether a rumor is true or false may be answered.

Without revealing the employees' identity, the Public Affairs Office then will attempt to verify any reported rumors with the appropriate office, division or department. Once a rumor is found to be true or false, the employee will be called back, if possible, within a day.

If they wish, employees may also report rumors without revealing their identities, just to let the office know the latest scuttlebutt about the Lab.




If a particular rumor is the subject of a number of hotline calls, then the rumor will be considered to be the talk of Upton; so its confirmation, denial or clarification will be assumed to be of general interest. Therefore, the report on the rumor will not only be given to the employees who placed the calls, but it may also be addressed in a Laboratory memo, a story published in the Brookhaven Bulletin or by some other means.

The Rumor Hotline complements Tune In!, the Public Affairs Office's long-established letters-to-the-editor program. Using Tune In! forms, which are bright orange and found in special boxes located in buildings around the site, employees may make comments, ask questions, register complaints or request information about the Lab in complete confidentiality by writing to the Editor of the Brookhaven Bulletin.

## South Pacific (cont'd)

a former BNL student in the Science and Engineering Research Semester for undergraduates who is now with the Scripps Institute of Oceanography; Craig Neil, DAS; Kevin Wills, a computer and electronics consultant from Colorado; Kenneth Johnson, DAS; Richard Wilke, DAS; and Meredith Haines, Bedford Institute of Oceanography, Nova Scotia.

As part of the World Ocean Circulation Experiment's carbon dioxide ($CO_2$) survey funded by the U.S. Department of Energy, the researchers examined the dynamics of $CO_2$ chemistry in the ocean and collected data concerning the exchange of $CO_2$ between the ocean and the atmosphere, as well as the accumulation of anthropogenic $CO_2$ in the ocean. The work was carried out aboard the research vessel *RV Knorr* from the Woods Hole Oceanographic Research Institution.

Using standardized reference materials provided by the Scripps Institute, the scientists analyzed over 3,000 South Pacific seawater samples for total $CO_2$. This effort will produce the most accurate and precise oceanic total $CO_2$ cross-section of the South Pacific ever obtained. When the world's oceans are completely mapped, these data may show whether oceans act to diminish the rate of increase of atmospheric $CO_2$ and estimate the bulk transport of $CO_2$ between hemispheres.

## In Memoriam

Retiree **Antonio Minardi,** who ended his 23-year association with the Lab as a rigger's assistant in the Plant Engineering Division on February 18, 1971, died at the age of 83, on October 10. He had been hired in the Lab's first year, on April 14, 1947 as a laborer in the then Architectural Planning & Plant Maintenance Division. A former Patchogue resident, he is survived by his daughter Mary Robb, his sister Rose Sbarra, nine grandchildren, and 12 great-grandchildren.

## Road Closing

The section of Bell Avenue adjacent to the tennis courts will be subject to closing February 22-26, to allow underground utilities to be installed.

# Electronic Direct Deposit Being Offered for Paychecks

A new service — electronic direct deposit of paychecks — is being offered to all employees, effective in April.

Although employees have long had the option of having paychecks deposited directly to most banks, the deposit has been done by mail, sometimes resulting in delays. With the new service, the amount of an employee's net pay will be wired directly to the chosen bank via the Automated Clearing House network, ensuring that the money will be in the employee's account, ready for use, at the beginning of each payday.

If you currently have your paycheck deposited and would like to continue with the new service, follow the appropriate course of action below. For those whose checks are deposited with:

- **Teachers Federal Credit Union** (TFCU) — *Do nothing.* Payroll already has all the required information, and your direct deposit will continue automatically.
- **Banks** — Fill out the enrollment form that you received last week along with the memo to all employees. Attach a voided check or a photocopy, then return the completed form to Payroll by February 26; if forms are not received by this date, your direct deposit will automatically be canceled. The check is necessary to provide the ABA/TR number, the nine-digit number that appears on the left of the check number; if you wish the deposit made to a savings account, contact the bank for the appropriate number.
- **Other Financial Institutions** (such as brokerage firms or credit unions other than TFCU) — In most cases, the nine-digit number printed on checks from these financial institutions is *not* the ABA/TR number. So, call the financial institution for the correct number, enter it on the completed form and return to Payroll by February 26; if forms are not received by this date, your direct deposit will automatically be canceled.

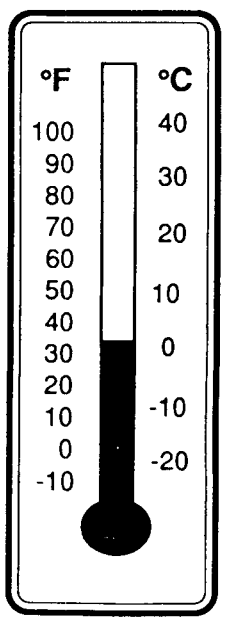
Employees who do not currently have their paychecks deposited but would like to may also start in April.

If you bank at TFCU, simply go to the credit union and complete the appropriate forms. If you bank anywhere else, complete the form you received last week along with the memo to all employees, as instructed above for the appropriate financial institution. If your form is received after February 26, it will be held for a subsequent period; a one-month lead time is generally required.

For more information or enrollment forms, call Payroll, Ext. 2470.

# BNL's Temperature Returns to Normal in 1992

*The Lab went metric in 1992, but if you still think in English units, you can use the accompanying Fahrenheit/Celsius (°F/°C) thermometer as a guide to the following story.*




After two years of record-breaking heat, the temperature returned to normal at BNL last year.

The average temperature for 1992 was 9.7 degrees Celsius (°C) — about a tenth of a degree cooler than the annual average temperature at the Laboratory, which has been based on meteorological records dating back to 1949. In contrast, 1990 and 1991 were sizzlers — the two hottest years on record, with annual average temperatures of 11.5°C and 11.6°C respectively.

Attributing the recent cooler temperatures to the volcanic eruption of Mount Pinatubo in the Philippines, BNL meteorologist Bob Brown of the Department of Applied Science's Oceanographic and Atmospheric Sciences Division, said, "The volcanic eruption caused submicron-sized particles to enter the stratosphere and circle the earth. These particles block the sun and diffuse at a slow rate, so meteorologists expect lower global temperatures over the next two to three years."

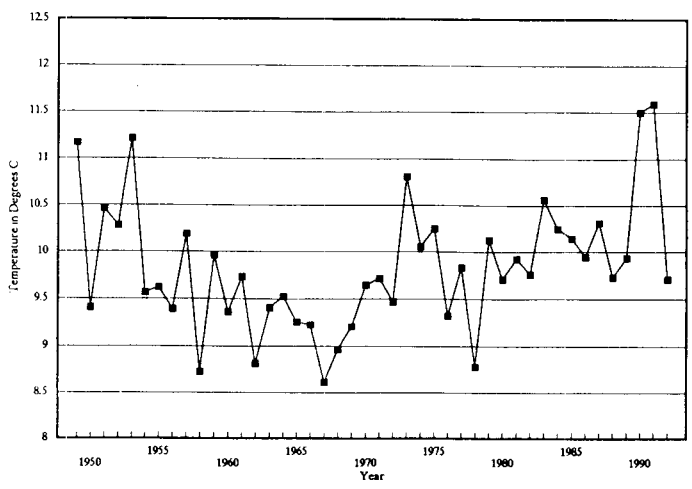
Despite the comparatively low annual average temperature, four new high-temperature records were set in 1992.

The thermometer hit 13.3°C on both January 13 and 23, breaking and tying records set on those respective dates. November 23 was also spring-like, with a temperature of 19.4°C. May 21 and 22 brought a heat wave with temperatures of 30.6°C and 33.1°C, respectively.

The year also had three low-temperature records: -8.9°C on March 24, -1.9°C on May 20 — just one day before two days of record-high temperatures — and -0.8°C on May 26. Lowest temperature records were tied on June 23, with 5.6°C, and the first two days in October when the thermometer plunged to 0°C and -0.8°C.

The yearly total precipitation in 1992 was 114.7 centimeters (45.16 inches) — below the annual average of 123 centimeters (48.44 inches). December was the wettest month with a total precipitation of 16.8 centimeters (6.6 inches), and October had the least rainfall, with total precipitation measuring 2.72 centimeters (1.07 inches).

— Diane Greenberg




**This graph shows the annual temperature over the 44 years that it has been recorded at BNL, 1949-1992. The dramatic dip from 1991 to 1992 shows that the temperature has returned to normal.**

# 'Lottery' Program For Immigrants

The U.S. Department of State has announced the third year of the AA-1 Immigrant Visa "Lottery" Program. To qualify, applicants must be natives of one of the following: Albania, Algeria, Argentina, Austria, Belgium, Bermuda, Canada, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Great Britain, Guadeloupe, Hungary, Iceland, Indonesia, Ireland, Italy, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Monaco, Netherlands, New Caledonia, Northern Ireland, Norway, Poland, San Marino, Slovakia, Sweden, Switzerland or Tunisia.

Applications may be filed from within or from outside the United States, March 2-31. To obtain the State Department announcement, call BNL's Office of Scientific Personnel, Ext. 7831.

## Coming Up

**A concert of instrumental Indian music, featuring two accomplished Indian artists, Pundit Ulhas Bapat on santoor (similar to a hammered dulcimer) and Nishikant Barodekar on tabla (Indian drums), will be held on Friday, March 5. Sponsored by the BERA Indo-American Association, the concert will begin at 7 p.m., in the seminar room of Physics, Bldg. 510.**

**Admission is $10 for adults and $5 for children. For tickets or more information, call A.M. Topé, Ext. 5672, or Jan Naidu, Ext. 4263.**

## Softball

A Softball captains' meeting will be held on Wednesday, March 3, at noon, Room C, Berkner Hall. All preliminary rosters must be turned in at this meeting. If you are interested in forming a team or are looking for a team to play on, call Denise Miesell, Ext. 5873.

## Local Users Group

Mark Wiesenberg, Head of the Computing & Communications Division (CCD), will discuss "Changes and Status of CCD at BNL" at the next meeting of the Upton Local Users Group (LUG), on Wednesday, February 24, at 10:30 a.m., in Room B, Berkner Hall.

For more information, call Zohreh Parsa, LUG chairperson, Ext. 2085.

## BWIS Meeting

"Actions Speak Louder Than Words — Understanding Nonverbal Communication" is the topic to be addressed by guest speaker Carol Rudman, a management-development trainer with Communication Consultants, Inc., at the next Brookhaven Women in Science (BWIS) meeting, on Thursday, February 25, at noon, in Room B, Berkner Hall.

Rudman has been with Communication Consultants since 1981. There, she trains the firm's employees in understanding and using nonverbal communications to improve their performance and communication effectiveness.

In sharing this expertise, Rudman will consider the differences between women and men regarding such nonverbal modes of communications as smiling, fidgeting, head tilting and handshaking. She will teach attendees the "power sit," and everyone will receive a "Dictionary of Business Body Language."

The meeting is open to all. Please bring your lunch; coffee and tea will be provided.

## Arrivals & Departures

**Arrivals**

**None**

**Departures**

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

**June Runge**.....Saf. & Env. Prot.
**Allan J. Scott**.....Director's Office

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## Join WalkAmerica

Join the 23rd March of Dimes WalkAmerica for Healthier Babies by joining the BNL-BERA team on Sunday, April 25. Funds raised by WalkAmerica help support efforts to reduce infant mortality and the incidence of low birth weight.

To join the BNL-BERA team, pick up a sponsor sheet at the BERA Sales Office in Berkner Hall, weekdays from 9 a.m. to 1:30 p.m., or at the Recreation Office in Personnel, Bldg. 185. If you have any questions, call Carolann Zebrowski, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

If you have walked previously and received a sponsor sheet directly from the March of Dimes, call Dellimore for additional BNL information.

## Info Meeting On Kindergarten

Parents interested in enrolling their kindergarten-age children in BNL's Child Development Center Kindergarten should come to an informational meeting on Tuesday, February 23, in the little red schoolhouse, Bldg. 370, on Yale Road in the apartment area, from noon to 1 p.m.

## Hospitality News

Jan Rohrer will show how to make mop dolls at the March 2 meeting of the Hospitality Committee. To participate, please call her at 341-1239, or Barbara Bossard at 924-5220, *no later than February 23*, since the materials needed to make the dolls must be purchased in advance.

## Basketball

**Games of February 11**

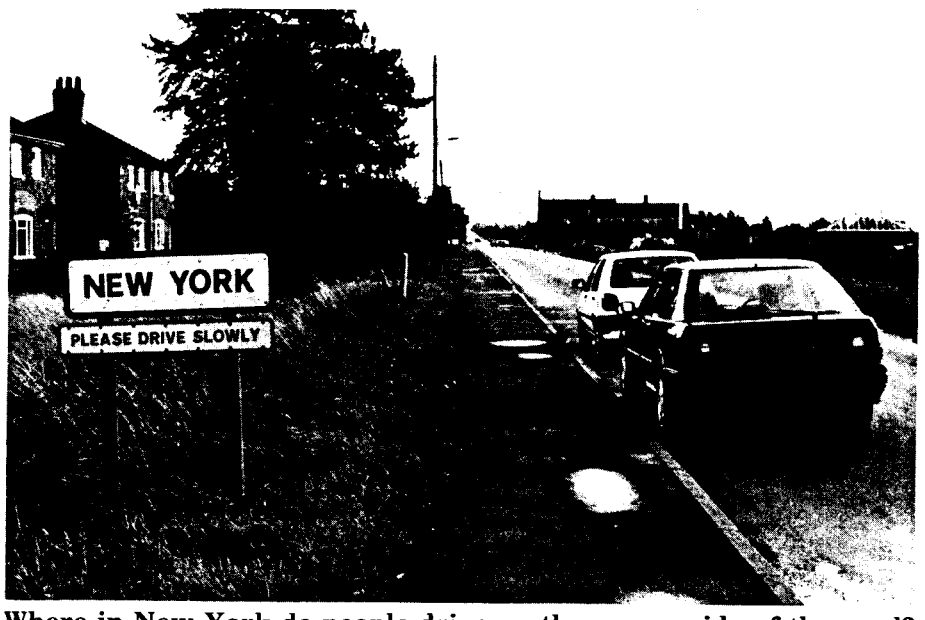
| Runaways 65 | | Deep Six 51 | |
|---|---|---|---|
| P. Ratzke | 18 | C. Butts | 17 |
| J. Gaeta | 18 | N. Nelson | 11 |
| G. Shepherd | 15 | R. Hart | 10 |
| C. Saxen | 6 | J. Desmond | 9 |
| B. Wells | 6 | U. Tarpley | 2 |
| S. McAlary | 2 | J. Rank | 2 |

*3-point shots:* J. Desmond, J. Gaeta (2), R. Hart (2)

| Trailblazers 69 | | Magic 50 | |
|---|---|---|---|
| T. Fountaine | 16 | T. Buck | 20 |
| G. Mack | 13 | D. Hoggard | 17 |
| C. Edwards | 10 | L. Walcott | 7 |
| M. LeBlanc | 10 | D. Branch | 4 |
| R. Domenech | 9 | J. Garrison | 2 |
| A. Ratti | 5 | | |
| S. Springston | 4 | | |
| B. Gunther | 2 | | |

*3-point shots:* R. Domenech (2), L. Walcott

# A New Look at New York




**Where in New York do people drive on the wrong side of the road? How can New York be only about 10 miles from Boston? And when was the last time the population of New York was only about 100 people? It's all true right now in the hamlet of New York, England, where Graham Smith, Instrumentation Division, snapped this photo while on a family visit.**

## Amateur Radio Club

The next monthly meeting of the Amateur Radio Club will take place in Berkner Hall, Room D, on Thursday, February 25, at noon.

All Lab employees, guests and licensed amateur radio operators are invited to attend. For further information, contact Chris Neuberger, Ext. 4160, or Nick Franco, Ext. 5467.

## Let's Dance

Singles and couples may still register for beginners' waltz and merengue lessons, with the BNL Ballroom, Latin & Swing Dance Club.

Given by 1991 U.S. Ballroom Dance Champion Giny Rae, classes are held Wednesdays from 5:15 to 6:30 p.m., in the North Ballroom of the Brookhaven Center.

The cost is $15 per person for the series of seven more lessons, or $3 per lesson at the door. To register, contact Marsha Belford, club president, Ext. 5053; or Nedy Santiago, vice president, Ext. 3402.

## Art Society Quest

The BERA Art Society hopes to sponsor a spring show of contemporary Russian paintings, on loan by permission of a BNL employee who recently arrived from Russia. Should any other BERA member wish to lend contemporary Russian paintings or sculpture to be included in the upcoming exhibit, please contact Art Society president Bob Chrien, Ext. 3903.

## Software Demo

A representative from Silicon Graphics, Inc. (SGI) will give a presentation on the new and current SGI line on UNIX workstations, on Monday, February 22, at 1:30 p.m., in the CCD seminar room, Bldg. 515.

## IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, February 22, 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.

## Volleyball

**Standings as of February 10**

| Open League | | League I | |
|---|---|---|---|
| The Roofing Co. | 39-12 | Network News | 35-10 |
| GTeam | 36-15 | Upfagrabs | 30-12 |
| Penetrating Vollies | 18-30 | Rude Dogs | 29-13 |
| Farside | 17-34 | VolleyBallAholics | 29-16 |
| Me & the Boys | 16-35 | Underdogs | 14-28 |
| | | Fornossing | 7-35 |

| League II | | League III | |
|---|---|---|---|
| Monday Nite Live | 37-5 | Jolly Vollies | 27-12 |
| Safe Sets | 32-10 | High Volley'em | 24-15 |
| Nuts & Bolts | 25-17 | Upton Ups | 22-17 |
| Fossils | 22-20 | Nutcrackers | 21-18 |
| Night Court | 16-26 | Volley of the Dolls | 20-19 |
| Net Wits | 15-27 | Silver Bullets | 19-20 |
| Sourcerers | 11-31 | Hairballs | 12-27 |
| Just Up | 10-32 | Mis-Fits | 11-28 |

# Pick a Student, Pick a Teacher

**Applications for three summer programs run by the Office of Educational Programs (OEP) will be available for review from Monday, February 22 through Friday, March 5, from 9 a.m. to 4:30 p.m., in the Science Education Center, Bldg. 438.**

**The three programs, which include one for teachers and two for students, are:**

- **Teacher Research Associates (TRAC) — Local teacher applications for this program may now be reviewed. Under TRAC, secondary science, mathematics and technology teachers experience the research process by working in the Lab's research programs for eight summer weeks, under the direction of staff advisors, at no cost to the advisor's department. They also spend a few hours each week involved with tours and other activities arranged by OEP to help them translate their BNL experiences to the classroom. The 1993 program runs from June 28 through August 20.**
- **Summer Students — The traditional summer program in which junior and senior undergraduates receive ten-week summer research appointments, June 7 to August 13. OEP pays the individual stipends of $225 per week and round-trip transportation. The sponsoring department pays for the student's housing at $80 per week.**
- **Summer Interns — This is the same as the Summer Student Program except that appointments are offered to students who have participated in a prior U.S. Department of Energy High School Honors Program at BNL. Generally, these students are finishing their college freshman year, but a few may be recent high school graduates. OEP pays all costs associated with these students — stipend, travel and housing.**

**A special effort is made to offer minority students summer research opportunities at BNL. If your student choice is a minority, you will substantively contribute to this effort.**

**All requests for TRAC Teachers, Summer Students or Summer Interns must be submitted to Departmental Coordinators on or before March 5. For more information, call OEP, Ext. 4503.**

## Sybase Meeting

The Sybase Local Users Group will hold its next meeting on Tuesday, February 23, at 2 p.m., in the CCD seminar room, Bldg. 515. During the meeting, BNL users will share their experiences with Sybase, and Report Workbench vs. the new Sybase report writer, SQR, will be demonstrated.

An electronic BNL Sybase bulletin board has been established so information can be disseminated in a timely fashion and questions can be answered. To subscribe, send E-mail to: listserv@bnl.gov. Include a single-line message: subscribe SYLUG-L Your Name. For "Your Name," use your given name, not your log-in name.

For more information, contact Susan Eng, Ext. 7988, or E-mail, sge@bnl.gov.

# Bowling

**Red/Green League**

R. Eggert bowled a 223, R. Wiseman 219, W. Cahill 215, K. Koebel 211, S. Thompson 205/200, S. DiMaiuta 205, A. Pinelli 202/200, H. Arnesen 202, E. Meier 200.

**Purple League**

Jim Goode bowled a 214/203/595 scratch series, Pat Manzella 204, Elaine Zukowski 188, Lorraine Roecklein 187/170, Steve Gushue converted the 6-7-10 split.

**White League**

Ray Ranis bowled a 221, Diane Lombardi 205, Jim Petro 200, Norman Besemer 183, Kim Moylan 181/175, Maryann Reynolds 172, Pat Bounauito converted the 3-7-10 split.

## Scotch Doubles

The Scotch Doubles Tournament will be held Sunday, March 7, at 1:30 p.m., at the Port Jefferson Bowl. At $24 a couple, the tournament is open to BNL employees and immediate family members.

Applications are available at the BERA Sales Office; the deadline is Friday, March 5. If you need a partner or have any questions, contact Fern Simes, Ext. 3969, or Ed Sperry IV, Ext. 2674.

# Cafeteria Menu

| | |
|---|---|
| **Monday, February 22** | |
| Soup: Cream of spinach | .80/1.10 |
| Entree: Cajun jambalaya | 3.45 |
| Lite Choice: Pasta w/fresh herbs | 3.35 |
| Carvery: Pastrami sandwich | 2.95 |
| Grill: Monte Cristo platter | 2.95 |
| Taster's Bar: Fried mozzarella sticks | (oz.) .25 |
| **Tuesday, February 23** | |
| Soup: Potage Saint Jacques | .80/1.10 |
| Entree: New England boiled dinner | 3.85 |
| Lite Choice: Pasta w/red clam sauce | 3.35 |
| Carvery: Roast beef sandwich | 2.95 |
| Grill: Reuben platter | 2.95 |
| Taster's Bar: Wings of fire | (oz.) .25 |
| **Wednesday, February 24** | |
| Soup: Mexican chicken | .80/1.10 |
| Entree: Vegetable lasagna | 3.45 |
| Lite Choice: Baked fish jardinier | 3.65 |
| Carvery: Hot ham sandwich | 2.95 |
| Grill: Chicken cutlet w/wild rice | 3.35 |
| Taster's Bar: Baked clams w/lemon | (oz.) .25 |
| **Thursday, February 25** | |
| Soup: Squash & bacon | .80/1.10 |
| Entree: Cheese manicotti w/marinara | 3.20 |
| Lite Choice: Stuffed squash vegetarian | 3.35 |
| Carvery: Hot corned beef sandwich | 2.95 |
| Grill: Salmon steak w/new potatoes | 3.85 |
| Taster's Bar: Mixed fried vegetables | (oz) .25 |
| **Friday, February 26** | |
| Soup: Crab bisque | .80/1.10 |
| Entree: Cheese pizza | 3.50 |
| Lite Choice: Baked fish w/herbs | 3.65 |
| Carvery: Hot turkey sandwich | 2.95 |
| Grill: Beef kabobs w/rice | 3.85 |
| Taster's Bar: Chicken wings w/salsa | (oz) .25 |

**Movie Night . . . Brookhaven Center**
Wednesday, February 24 . . . 8 p.m.
*Shining Through* . . . free popcorn!

# 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.

DD 0659. SECRETARIAL POSITION (term appointment) - Requires an AAS in secretarial science or equivalent, knowledge of WordPerfect 5.1, excellent communication and record-keeping skills and knowledge of XyWrite. Will provide varied secretarial support throughout the Division. IBM PC word-processing experience desired. Reactor Division.

DD 2354. SECRETARIAL POSITION (term appointment) - Requires AAS in secretarial science or equivalent, knowledge of WordPerfect 5.1, excellent communication skills and a thorough knowledge of office procedures. Will provide varied secretarial support to the Engineering Research and Applications Division. Duties will include the preparation of technical reports, correspondence and memos. Department of Nuclear Energy.

DD 2353. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, excellent communication skills and a knowledge of IPAP travel system. Experience with IBM PC WordPerfect 5.1 and/or Macintosh Microsoft Word highly desirable. Will provide varied secretarial support to a diversified group within the Safeguards, Safety and Nonproliferation Division. Duties will include preparation of reports, travel, file maintenance, viewgraph and graphics preparation. Must be able to obtain and maintain a security clearance. Department of Nuclear Energy.

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

DD 0510. TECHNICAL POSITION (term appointment) - Requires an AAS in electronic technology and experience in high-speed digital circuitry prototype wire wrapping from schematics of complex digital microprocessor electronic circuit boards, electronics assembly (PC boards and electronic chassis). Familiarity with diagnostic procedures using digital analyzers and digital scopes is required, as are excellent communication skills. PC and PCAD experience highly desirable. RHIC Project.

## Motor Vehicles & Supplies

91 CHEVROLET CAVALIER Z24 - sports coupe, blue, 6-cyl., 10k mi., ac, estate sale, $10,500. Sharon, Ext. 3995.

86 PLYMOUTH VOYAGER - 2.6L, 80k mi., v.g. cond. Ext. 2420 or 341-1020 eves.

79 PONTIAC LEMANS - new batt., exhaust, runs well, $700. Jim, Ext. 3372 or 821-0250.

73 CHEVY STATION WAGON - 350 V-8, ac, p/s, p/b, am/fm/tape, new M&S P225LR15 tires, needs rear brakes, $200. George, Ext. 3061 or 751-0265.

90 PLYMOUTH VOYAGER - 36k mi., V-6, ac, am/fm tape, a/t, p/l, p/w, tilt, cruise, v.g. cond., $9,800. Chuck, 589-8102.

88 TOYOTA 4x4 - p/s, p/b, am/fm cass., cap, $6,000. Joe, Ext. 3243.

87 DODGE AIRES - excel. cond., $1,400; '79 Pontiac LeMans, runs well, new muffler system & battery, $700. Jim, Ext. 3372 or 821-0250.

87 CHEVY SPRINT - needs rebuilt eng. block, 83k mi., ext./int. excel. cond., $400. Warhol, Ext. 3929.

84 VW JETTA GLI - 75k mi., white, sunroof, v.g. cond., clean in & out, must see, asking $1,800. Al, Ext. 4442.

83 CHEVETTE - red, a/t, well maint., runs well, good cond., $1,000. 281-6784.

82 FORD VAN 4x4 - 39k mi., 8-cyl., a/t, p/s, p/b, ac, new all-terrain tires, $4,900. 325-1439.

80 AMC EAGLE - 4wd, high mileage, good running cond., new tires, exhaust, $400 neg. Nelson, Ext. 3861.

78 CHEVY MONTE CARLO - 350 motor, clean, asking $1,750. Steve, Ext. 3849 or 929-0586.

78 BLAZER 4x4 - full-size, 33" tires, 400 c.i. V-8, $2,000. Edwards, Ext. 4308 or pager 6158.

78 DODGE DIPLOMAT - 318 V-8, 4-dr., a/t, 100k+ mi., rebuilt trans., new radiator, runs well, needs rear end, $200. Don, Ext. 7237 or 744-2921 eves.

76 VOLVO 244 DL - good station or first car, dependable, $500 or best offer. 751-8731.

MOTOR - '90 Nissan Sentra, 25k mi., excel. cond., $700. Sharon, 276-9305.

CLUTCH - '80 Toyota Tercel, 5-spd., $40 neg. Bob, Ext. 7238.

ENGINE - Chevy 454 HP pass., Edelbrook performance parts, new carb., $2,200; 400 trans., $300. 924-8213 after 6 p.m.

TIRES - 5, 8.75x16.5 on 8-lug rims from Chevy, also fits Ford, $75. Frank, Ext. 2343 or 732-5950.

## Boats & Marine Supplies

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

21' CHRIS CRAFT BOWRIDER - i/o Merc., 8'6" beam, canvas, am/fm, bottom not painted, E-Z Load trailer, loaded. 732-8793.

19' CELEBRITY - 1985, cuddy cabin, 175-h.p. i/o, VHF, porta-potty, dual batt., low hrs., many extras, $4,250. Brian, Ext. 4028.

CLAM RAKE - 24", w/alum. T handle, wire basket, $30. Charlie, Ext. 5046.

## Furnishings & Appliances

ARMOIRE - Henredon, very large, all dark wood, Mediterranean, $300; couch, 8', off-white, w/5 pillows, contemporary, $100. Mike, Ext. 7941.

BEDROOM SET - full bed, 4-poster, bureau, dresser w/mirror, 2 night tables, $300; vanity w/mirror, glass top, $50. Sharon, Ext. 3995.

BEDROOM SET - blond wood, twin bed, w/headboard, nightstand, dresser w/mirror, matching cabinet, $150. 345-3043.

BEDROOM DRESSER - triple, w/mirror, Thomasville, light oak, orig. $800, asking $300. 821-1277.

CHAIR - swivel rocker, mauve, excel. cond., $95. Ext. 2474 or 475-7454 eves.

CHAIRS - 4, cane & chrome, kitchen, good cond., $25/all. Bob, Ext. 4446.

COFFEE TABLE - 2 end tables, wood & glass, $25/ea. Keith, 924-5062.

ENTERTAINMENT CENTER - radio, phono, storage, speakers, maple, 6'x3'x2', $150; hutch, country pine, $350. S. Sakon, 744-3842.

ESTATE SALE - 5-piece bedroom set, large l/r wall unit, hutch, d/r set, washer/dryer, collectibles, more. Bill, 878-6016.

FIREPLACE - brick & slate, heavy wood mantle, 12' separate brick & slate base, movable. M. Rosen, Ext. 2388.

FREEZER - upright, Whirlpool. 2'x27½'x4'56½", white, you pick up, $200. Joe, Ext. 2314.

RANGE - GE, elec., self-clean, 2 yrs. old, orig. $520, sell for $250. Gene, Ext. 7113.

REFRIGERATOR/STOVE/SINK - combination, excel. for studio apt., $450. Marie, 589-3020.

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

FURNITURE - bedroom, Colonial, 10 yrs. old, good cond., 8 pieces, orig. $1,500, now $400. John, Ext. 2980 or 395-5922 eves.

REFRIGERATOR - Whirlpool, 19 cu. ft., new, almond, $400; Kenmore gas stove, double oven, almond, $300, $600/both. Bob, Ext. 7238.

VERTICAL BLINDS - 7¼', fits 6' glass doors, matching valance, alabaster, 2 yrs. old, orig. $250, now $125. Margaret, Ext. 2529 or 588-7989 eves.

WATER BED - w/heater, large dark pine headboard w/mirror, glass door cabinets, leather side rails, $250. Eileen, Ext. 3396.

BEDROOM SET - Col., 10 yrs. old, good cond., orig. $1,500, $400. John, Ext. 2980 or 395-5922.

TWIN BED - headboard, metal frame, boxspring, mattress, $75. Sharon, Ext. 3995.

COUCH - beige, overstuffed, 3 yrs. old, good cond., $100 or best offer. 874-8469 eves.

COUCH - loveseat, recliner, never used, $500. 345-3043.

COUCH - 5-piece sect., w/2 recliners, queen sofa, bed, Scotchguard, mint cond., ask. $1,500, oak/glass coffee table, $200. Bob, 473-2496.

COUCH - rattan, loveseat & chair, 3 pieces, w/new zippered pillow covers, rattan table, six-sided glass top, $150. Mike, 929-4716.

DINING ROOM TABLE - hardwood, 42" dia., w/2 leaves, 6 chairs, walnut, $175. Pat, 722-4489.

DINING ROOM - 5 pc., dark, $75; 7-pc. d/r set, hutch, $125; washer/dryer, $250. Bill, 878-6016.

DISHWASHER - old but good cond., works well, $25. Ext. 2752 or 751-6571.

DISHWASHER - GE, 2 yrs. old, portable, must sell, excel. cond., $75. 588-4703 after 5 p.m. or leave message.

DRYER - GE, gas, heavy duty, white, like new, $75, you pick up. Paul, Ext. 5287.

HUTCH - country pine, new cond., orig. $,1800, sell for $400. Saxon, 744-3842.

HUTCH - cherry, top only, excel. cond., $200 or best offer. 751-8731.

REFRIGERATOR - 23 cu. ft., works, $100; dressers, $35/ea.; china cabinet, $30; dining room table, $150. Sue, Ext. 2477 or 758-9775.

## Tools, House & Garden

BATHROOM VANITY - oak cabinet, 25"W x 22"D x 30½"H, cultured marble sink w/Delta faucet, excel. cond., $90. 475-8658 after 3 p.m.

COMPRESSOR - condensor, evaporator, for walk in box, $100 or best reasonable offer. O'Kula, Ext. 4669 or 722-3744.

FIREWOOD - seasoned oak. J. Scesny, 732-2849.

FIREWOOD - seasoned hardwood, split, delivered, $115/cord, $60/½ cord. Glenn, 924-2035.

GARAGE DOOR OPENER - Genie, screw drive, ½ h.p., new, never used, $125. 941-4127.

KITCHEN CABINETS - wood, 14½' long, w/refrigerator, wall oven, cooktop, sink, uses propane, you pick up, $300. Bob, Ext. 5689.

LAWN SWEEPER - $70; leaf shredder, $60; washing machine, $25. Ext. 5750 or 929-5584.

LATHE - Atlas Clausing, 34" bed, 6" over-bed, auto feed, all access., $625. George, Ext. 5866.

PUMP - Goulds, 1-h.p., deep/shallow well, 42 gal. glass tank, still in boxes, $425. Joe, Ext. 3499.

SHOP VACUUM - $20; Eureka vacuum, $20; corn popper, $10; TV/VCR cabinet, $10; Hoover upright vacuum, $20. Kathy, 744-2203.

TABLE SAW - Ryobi, radial arm saw/router, 8½" cut, w/stand, $175. Ed, 821-1169.

TABLE SAW - 10"; 14" Delta band saw; 6" planer/drill press, more, all accessories. 589-3608.

TORCH SET - Smith's Big 98, new, in box, $200. Charlie, Ext. 5046.

## Sports, Hobbies & Pets

BOW - Browing Fire Drake TD, recurve R.H., 55# $125. Bill, Ext. 2377 or 821-6523.

BIKE - Free Spirit, 10-spd., $25. John, Ext. 4028.

DOG CAGE - airline use, for large dog, $25 or best offer. 751-8731.

EASTER BUNNIES - mini lops, will be about 10 weeks old on Easter, $20/ea. Doug, 924-0085.

GUITAR - Franciscan Spanish style, nylon strings, w/case & 2 starter books, never used, $100. Larry, Ext. 4295.

HATS - professional & colleges, large selection, fitted or adjustable, like new, prices vary. Neal, 751-1884.

HUNTING OUTFIT - blaze orange, extra large, used 1 season, orig. $300, asking $150. John, Ext. 2980 or 395-5922.

SOLOFLEX - w/leg & butterfly attachments, new straps, best offer. Vic, 543-7674.

TREADMILL - Lifestyler 2000, w/siderails, computerized, pulse, mileage, time, etc., orig. $400, sell for $250. 821-3762.

WETSUITS - Bailysuit, med., 1 male, 1 female, $65/ea., Ikelite underwater light, $115. Carl, Ext. 4420.

SKATES - Variflex, in-line, black & green, like new, size 6 boy's, size 6 girl's, $35 neg. Kristin, 473-6140.

## Audio, Video & Computers

CD PLAYER - Sony, CDP-C705, 5-disk carousel, 185-disc custom memory, 18-bit D/A, 8x oversampling, $220. Hans, Ext. 4584 oor 981-3365.

DISKETTES - 360k, 25-pack, Tyvec sleeves & labels, $6; El-Nikkor enlarging lens, 50mm, 2.8, $75. Susan, Ext. 7647.

MONITOR - Dell, 14", color, super VGA, high resolution, almost new, warranty, best offer. Vasilis, Ext. 2830.

NINTENDO - 2-controllers, gun, 5 games, VCR connectors, in orig. box, $140. Ext. 7686 or 878-0897.

PRINTER - Panasonic, KX-P1124, dot matrix, many features, must sell, orig. $400, sell for $250. Michelle, 395-6055.

SCANNER - Uniden BC-800XLT, 12 bands, up to 912 MHz, instant weather, memory scan, auto search, channel lockout, $150. Don, 598-1783.

TV - b&w, small screen, best offer· GE answering machine, remote access, best offer. Ext. 2381.

CAMCORDER - Sharp 8mm, like new, high quality, w/case, battery, light w/battery, charger outlet, input/output jacks, $1,100. Ruth, Ext. 3305.

COMPUTER - Apple Mac II, 5MB ram, 100MB internal hard disk, 13" high-resolution color monitor, video card, best offer. 474-5801.

COMPUTER - Atari, 6 games, 3 controllers, works well, needs adapter, ask. $30. Kristin, 473-6140.

COMPUTER - IBM PC convertible, 640k ram, adapter, IBM color monitor, adapter for external printer, plus software, $500. Ext. 2423.

COMPUTER - 8086 Tandy 1000SL, IBM compatible, 640K ram, 20MB, hard disk, color monitor, $375. Sharon, Ext. 2493 or 929-4270 days.

COPIER - desktop, Savin, V35, w/chemicals, good cond., $300. Kathy, Ext. 2267 or 395-6520.

TV - Crown, 14", color, $50. Nelson, Ext. 3861.

VCR - Panasonic, model PV4750, stereo, 4-head, on-screen prog., quartz tuning, HQ, excel. cond., $200. Warren, Ext. 2080 or 924-7552.

## Miscellaneous

CRIB - Child Craft, blond wood, w/mattress, $75; changing table, $10; cradle-size down comforter, $30. Ext. 4106 474-5939.

COATS - burgundy, wool, 4/6, $50; tweed suit, 6, $40; boots, woman's, size 6, 1 brown, 1 black, new, orig. $90/ea., sell for $35. Gene, Ext. 7113.

CRIB - w/mattress, $25; changing table, $15; swag lamp, pleated blue shade, $15. 345-3043.

DELI EQUIPMENT - salad case, steam table, meat case, slicer, toaster, more. JoAnn, 878-8164.

ENGAGEMENT RING - 14K yellow gold, Tiffany setting, 0.49 carat center stone, $1,750 appraisal, $1,000 firm. Pete, Ext. 4581 or 399-2813.

JACKET - Norwegian blue fox, size 6, excel. cond., $199. 473-7667.

PHYSICS BOOKS - Morse and Feshbach, *Methods of Theoretical Physics*, parts I & II, $10/ea. Margaret, 924-5533, Ext 272.

RUG - green, 6'x9', $25; electric typewriter, $20; opera book, $10; Colonial hutch, new, $125; 45" kitchen set, $75. Kathy, 744-2203.

SEWING MACHINE - vacuum cleaners, gates, ride-on toys, car carrier, metal shelves, table, stroller, bikes, more. Jennifer, 369-7704.

SLIDE RULES - 20" & 10", log-log dulex, desitrig, ivory & wood, good cond., 20"/$35, 10"/$12, leather case. Ernie, Ext. 2957.

SODA MACHINE - old Coca-Cola 10¢ bottles, good cond. Joe, Ext. 5320.

STROLLER - $20; infant's car seat, $10; free toys. Nelson, Ext. 3861.

TELESCOPE - Celestron Super Polaris C-8, w/10, 18 & 25mm Plossl eyepieces, equitorial mount, case, mint cond., $600. Ext. 5750 or 929-5584.

TICKETS - NYC Opera, orchestra, center, fall series. Bob Kaszuba, Ext. 7785.

COAT - woman's, rabbit, white, full length, size 8. Pat, 722-4489.

COMMUNION DRESS - girl's, size 10. 929-5584.

HUMMEL PLATES - '76, '79, '80 & '80 Norman Rockwell plate; antique round mirror w/half wood gold-leaf frame. Ext. 2352 or 821-5247.

JACKET - fur, silver fox saga, like new, size small/medium, $75. 368-9637 after 6 p.m.

PASTA MACHINE - Simac, electric. 744-4611 after 6 p.m.

RING - 14k gold, 2 carat total diamond weight, cluster, size 10, w/$3,195 appraisal, asking $1,200. Ruth, Ext. 3305.

TICKETS - 4, Islanders vs. Ottawa Senators, 4/10, will sell pairs, $30/pair or $56/all. John, Ext. 4414.

TOTE - carry-on, sturdy, black burlap, red trim, double handle, two pockets. Ext. 2907.

## Free

CAT - female, black tortoise-shell, declawed, spayed. Vic, 543-7674.

CAT - 6-yr.-old, beautiful calico, spayed, declawed, friendly, very affectionate, needs a good home. 265-4572.

PIANO - baby grand, half stripped down for refinishing, needs work inside & out, you pick up. Tirre, Ext. 3288.

## Lost & Found

FOUND - key in NSLS bldg., office #2-127, key says "Sargent." Ext. 2150.

## Wanted

ASSISTANT TO ELDERLY - clean home, trips to the bank, shopping, hairdresser or barber or doctor, reliable. Marlene, 399-4169.

BABY-SITTER - German-speaking. Stas, Ext. 7849.

BASS GUITARIST - for classic rock band, serious inquiries only, vocals a plus but not required. Matt, Ext. 2426.

CAMPER - travel trailer, hard shell, 20'-24', working cond., older models okay. Don, Ext. 7237 or 744-2931 after 5:30 p.m.

OLD FOUNTAIN PENS - cash paid. Catherine, 744-3383.

PEOPLE - interested in flying control line model airplanes; also want old engines, kits, planes, etc. Mike, Ext. 5030 or 821-4083.

PEOPLE - to share opinions in a discussion on "Great Decisions." Magaret, 473-9129.

*POPULAR SCIENCE* MAGAZINE - Nov. 1991 issue, space plane on cover. Ed, Ext. 4447.

PRINTER - good working order, some scalable fonts preferred, 24-pin bubble/inkjet/laser. Ext. 3852 or 874-4125.

RIM - 14" to fit Ford or Mercury, late 70s. Don, Ext. 7237.

TRAINS - Lionel & American Flyer, priv. collection, pay top $. 924-4097.

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