

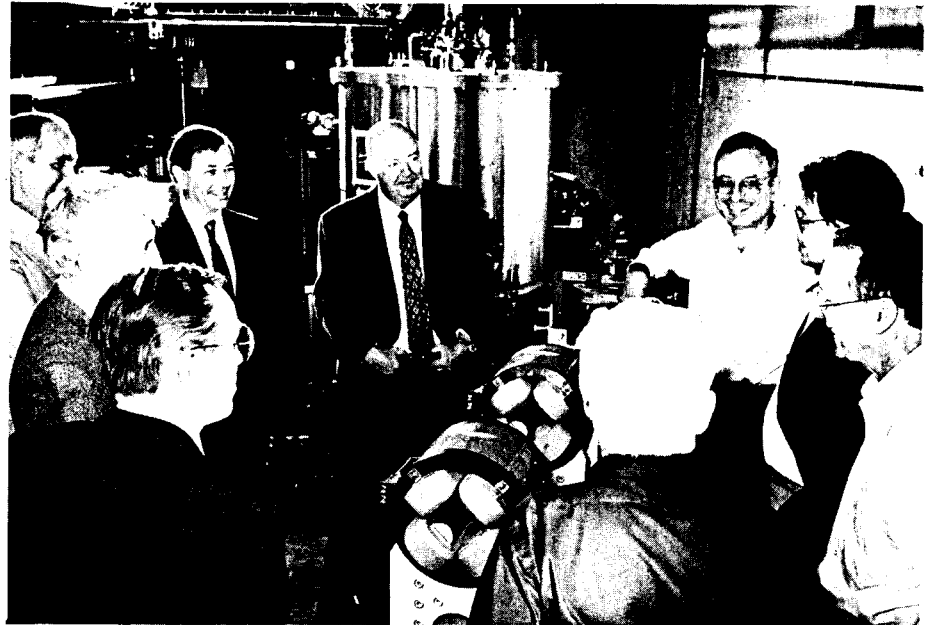
Grumman Execs Tour Lab

BNL's Accelerator Test Facility (ATF) was one stop on an afternoon tour taken Tuesday, September 29, by four Grumman executives: (center) Robert Myers, President and Chief Operating Officer; (left, top to bottom) John Keenan, Vice President for Advanced Development-Electronic Systems; Tony Favale, Director of Advanced Projects; and Robert Byrnes, Relativistic Heavy Ion Collider (RHIC) Dipole Project Manager. They are shown here with BNL Deputy Director Martin Blume (to Byrnes' right) and (clockwise from top right) Ilan Ben-Zvi, Deputy Head of the Center for Accelerator Physics (CAP), of which the ATF is the centerpiece; BNL Director Nicholas Samios; Robert Palmer, who heads CAP; and Herbert Kinney, Special Assistant to the Director.

Each area on the executive's tour had some connection to Grumman. For example, Grumman is involved with some of the pieces for the ATF's electron gun. The group also visited the National Synchrotron Light Source, where Grumman has worked with x-ray lithography; as well as the RHIC site and the magnet factory, which both represent Grumman's role in building 373 superconducting dipole magnets for RHIC.

The RHIC dipole contract was signed on June 23, and, on September 14, Grumman formally cut the ribbon on its new manufacturing center for superconducting dipole magnets, signalling that production is ready to begin.

A wrap-up by Samios and Blume concluded the executives' visit. "We touched on the possibility of increasing the number of Grumman people taking part in research programs here and of BNL people, where appropriate, spending



time at Grumman," said Blume. "In our effort to help industry, we would like to tie the two organizations together. We are all intimately involved in Long Island and Long Island technology."

Coming Up

Andrew Sessler, a theoretical physicist at Lawrence Berkeley Laboratory, where he was Director from 1973-80, will begin his second visit to Brookhaven as a Haworth Distinguished Scientist on October 12. The highlight of his stay, which will be hosted by the Alternating Gradient Synchrotron Department and conclude on October 23, will be a lecture on "Particle Beams, Photon Beams and Plasmas," which he will give on Tuesday, October 13, at 1:30 p.m. in the Snyder Seminar Room, Bldg. 911.

During Sessler's stay at BNL, his office will be in Room A-225, Bldg. 911. To meet with him, call him directly on Ext. 5301, or call Paula Hughes, Ext. 4619.

The 1992-93 BERA Concert Series will begin Monday, October 19, with a recital by the Audubon Quartet. The program, at 8 p.m. in Berkner Hall, will include: Haydn's Quartet in G Major, Opus 54, No. 1; Quartet No. 4 "Inter-Era Dance Suite, by Peter Schickele; and Brahms' Quartet in C Minor, Opus 51, No. 1.

Tickets may be purchased at the door for \$12, general admission; \$9, students and people over age 65; and \$5, youths under 18. At this first concert of the series, patrons may also buy block tickets, which will be honored at any series concert, for \$9 each for a minimum purchase of 5 tickets.

Conducting Polymers Subject of CRADA

BNL has signed a Cooperative Research and Development Agreement (CRADA) with Moltech Corporation of Stony Brook, New York, to work jointly on developing new electric-charge conducting and redox polymers.

Brookhaven researchers involved in the CRADA are James McBreen, Hung Sui Lee and Xiao-Qing Yang, all of the Department of Applied Science. They will work principally with Moltech's Terje Skotheim.

Polymers resemble plastics, which

are usually insulators. Conducting polymers, however, behave as their name implies: They can conduct electrons, in much the same way as metals do, or they can conduct ions, as do liquid electrolytes. Redox polymers, in an oxidation-reduction process, store charge much like a battery electrode.

Under the CRADA, Brookhaven and Moltech will be working on both ion-conducting and redox polymers. The joint effort will focus on synthesizing new polymers and using them

in making batteries and related components.

According to McBreen, an electrochemist, BNL will synthesize new lithium polymers and sodium polymers, and Moltech will use the new materials to make components and cells of lithium polymer and sodium polymer batteries. The products will then be characterized at BNL, by means of electrochemical measurements and various spectroscopic techniques.

Conducting polymer work at Brookhaven was started by Skotheim in 1987, in collaboration with Yoshi Okamoto at New York Polytechnic University. Skotheim formed Moltech in 1988 to continue the development of a number of material technologies developed jointly by BNL and Polytechnic. In 1991, he left to work full-time for Moltech.

Scientists are interested in conducting polymers because of their potential use in extremely powerful, rechargeable batteries. Such batteries have a long shelf life, so they can sit unused for a decade or more without any noticeable loss of power. Polymer-based batteries could replace conventional batteries and open the way for even broader applications of batteries, such as for long-term energy storage.

Funding for BNL's participation in this CRADA comes from the U.S. Department of Energy's Office of Energy Research, Basic Energy Sciences Division, Materials Sciences Division. — Mona S. Rowe



In an electrochemistry lab in Bldg. 480 are principals in the new CRADA: (foreground, left) Terje Skotheim of Moltech and BNL's James McBreen, Department of Applied Science (DAS). Joining them in the project to develop new conducting polymers are (from left) Hung Sui Lee, DAS; Arun Srivatsa, Durga Rani and Sathya Prasad, all of Moltech; Xiao-Qing Yang, DAS; and Lin Geng, Moltech.

↑ Zhe Sheng Xu

In Chemical Releases, Training Pays

In many situations involving chemical spills or releases, untrained individuals who try to alleviate the danger can easily make matters worse.

Places such as BNL, therefore, must follow the Occupational Safety and Health Administration's "Hazardous Waste Operations and Emergency Response" regulation, which requires that employees be trained to respond to such emergencies.

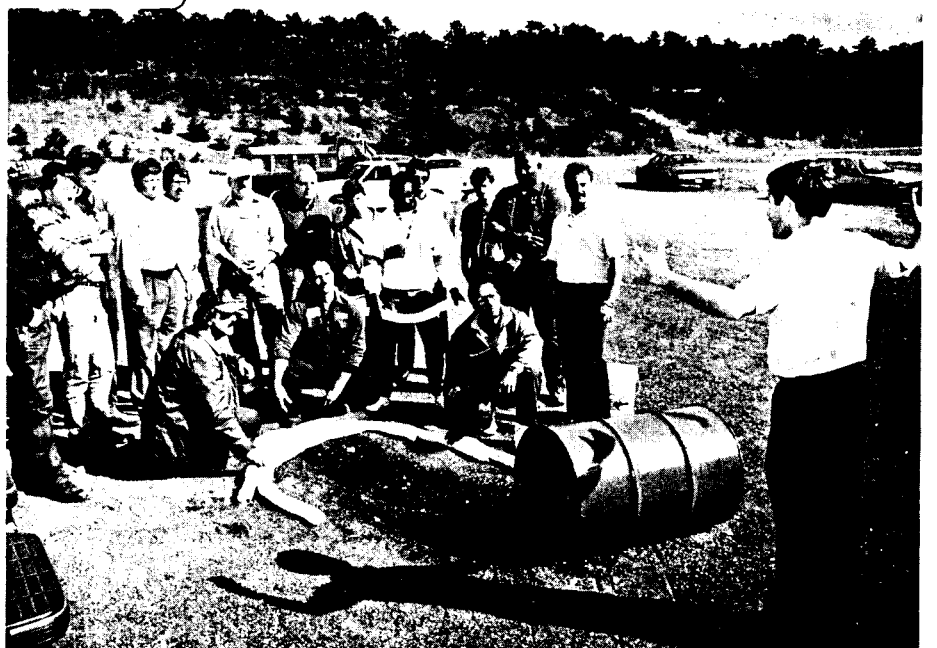
"A course in chemical emergency response was given at Brookhaven last Tuesday, September 29, by Hazmat TISI, Inc.," said Doan Hansen, who is the Safety and Environmental Protection (SEP) Division's Chemical Emergency Planner. "Twenty-four people attended, largely from SEP and the Plant Engineering and Safeguards & Security Divisions. I attended also, to make sure that what

was taught was appropriate for BNL employees' needs. The course was a success, and feedback from the attendees was extremely positive."

Hansen explained that there are several levels of training and responsibility that must be provided to deal with chemical emergencies. To begin with, there is the "First-Responder Awareness" level, when, in the event of a chemical release or potential release, the only requirement is that employees, guests or visitors call Ext. 2222 to notify BNL emergency response personnel. Eventually, all Lab employees will be trained at the First Responder Awareness level.

At the next level, "First Responder Operations," employees learn to respond to chemical releases defensively, from a distance (see photo). Tuesday's course was at this level,

(continued on page 2)



Some BNLers learn "First Responder Operations" in a Hazardous Waste Operations and Emergency Response Training Class.

Good Housekeeping = Good Fire Safety

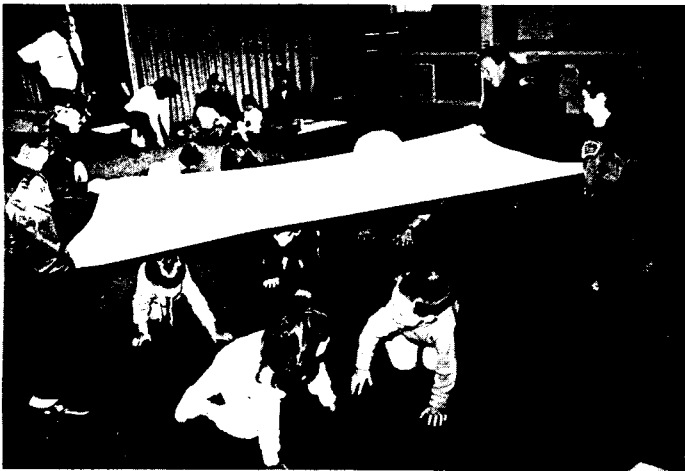
Every year at this time, the days get shorter, there's a change in the weather — and the nation observes Fire Prevention Week. This year, that observance comes during the week of October 4-10.

Joseph Levesque of the Fire Protection Engineering Group in the Safety & Environmental Protection (SEP) Division, is coordinating BNL's efforts for Fire Prevention Week. The goal is to raise employees' fire-safety consciousness both in the home and in the workplace.

One critical issue in the workplace, Levesque explains, is fire-safety housekeeping. "Housekeeping to

make sure an area is fire safe is very different from housekeeping for aesthetics," he says.

To underscore this point, next week has been designated as a time for Lab employees to take a hard look at their work areas. Says M. Sue Davis, Acting Associate Director for Reactor, Safety & Security, "I request that all employees allocate time during the next week to look at their operations with a critical eye. Clean up the excess trash, throw out the combustibles that have been sitting there unused for months. Look over the arrangement of your workplace. Is it as safe as you want it to be?"



The three- and four-year-olds at the Upton Nursery School learned how to escape from a burning building during last year's Fire Prevention Week Activities.

Last year at the Child Development Center, BNL Fire Chief James Roesler introduced the preschoolers to Sam, a fire truck robot. Later, the children learned how to "stop, drop, roll" to put out a clothing fire.



Also this week, members of the Director's Office will walk through various workplaces, to see how they measure up in terms of fire safety.

In addition to practicing good housekeeping at home, all Suffolk County residents are being asked to practice EDITH — Exit Drills in the Home — on Thursday, October 8, at 7 p.m. Joseph Jahelka, Department of Nuclear Energy, is coordinating Operation EDITH for the Suffolk County Fire Educators Safety Association. "Plan your exits!" he

stresses. "Assure that all members of your household know at least two ways to get out from all areas of the house. Assure that your smoke detector works by testing it once a month."

Finally, to make sure the fire-safety message reaches the youngest members of the Lab community, SEP's Fire/Rescue Group will make special visits to the Child Development Center (CDC), the CDC Kindergarten and the Upton Nursery School next week, to be followed by field trips to the BNL Firehouse, Bldg. 599.

Discover America and New Physics With Heavy Ions at APS Meeting

As the home of the Relativistic Heavy Ion Collider (RHIC), which is now under construction, BNL has been chosen as the location for the 108th meeting of the New York State Section of the American Physical Society (APS) — a symposium focusing on "New Physics With Heavy Ions." In addition to talks related to relativistic heavy ion physics, speakers will address new areas of atomic and solid-state physics that are also being investigated with beams of heavy ions.

The two-day, 67th annual symposium will run Friday and Saturday, October 16-17. The daytime program features 12 invited lectures by leading researchers from academic institutions and other laboratories (see Weekly Calendar). On Friday night at 8:15 p.m., BNL Senior Chemist Garman Harbottle will give a public talk entitled "Were the Vikings Here First? Evidence From Carbon-14 Dating," in Berkner Hall.

Pointing out that many U.S. students learn that Christopher Columbus, in 1492, was the first European to reach America, Harbottle will explain how evidence from archaeological expeditions by Helge Ingstad in the 1960s, along with sensitive carbon dating recently performed at

BNL, indicates that the Vikings first explored northeastern Canada, from Kodlunarn Island to Newfoundland, about 500 years earlier.

Allen Goland, of BNL's Department of Applied Science (DAS), is the Chair of the APS New York State Section and a member of the meeting's Local Committee, along with Chellis Chasman, Physics Department, and Brant Johnson, DAS.

Goland stressed, "Besides Dr. Harbottle's open lecture, which is free and should be of interest to the general public, the symposium is intended for non-specialists. The lectures are planned at a general interest level so that physicists working in other areas will understand them."

The registration fee for the entire program is \$23 for nonmembers of the APS, but the fee will be waived for those who attend only one or two lectures. Registration will take place on Friday, October 16, at 8 a.m. in the Seminar Room Lounge of Physics, Bldg. 510, where the first day's session will be held. The second day's lectures will take place in Berkner Hall.

For more information or to register, call Lore Barbier, Ext. 5125.

Service Awards

The following employees celebrated BNL service anniversaries during the month of September:

35 Years

Basil DeVito.....AGS
Charles B. Meinhold.....Nuc. Energy

30 Years

Donald F. Bastedo.....AGS
Louis W. Blum.....AGS
Mabel Evans.....Con. & Proc.
Richard W. Hogue.....Physics
Anthony Muscarella.....Accel. Dev.
Keith H. Thompson.....Biology

25 Years

Raymond C. Atkins.....AGS
Kenneth Batchelor.....NSLS
Albert M. Casper.....AGS
Theodore A. Daniels.....CCD
Michele E. Haller.....Con. & Proc.
Alan V. Kuehner.....Saf. & Env. Prot.
Richard E. Machnowski.....Instrum.
John H. Maddock Jr.....AGS
Walter J. Mason.....Staff Serv.
Clarence C. Pittenger.....CCD
William C. Venegas Jr.....AGS

20 Years

Harold L. Bolling.....Sup. & Mat.
Peter D. Bond.....Physics
Michael J. Creutz.....Physics
Charles E. Hyde.....Plant Eng.
Serban D. Protopopescu.....Physics
Craig E. Thorn.....Physics

10 Years

Alfonso J. Borrelli.....NSLS
Norman S. Cernyar.....NSLS
Michelle S. Cummings.....MIS
Donna M. Dowling.....Personnel
Jerry L. Gaeta.....Photo. & Gr. Arts
John A. Muller.....Mgmt. Info. Sys.
Barbara Schmidt.....Personnel
Robert E. Sikora.....Accel. Dev.
Donald L. Tarrant.....Plant Eng.
Michael T. Weinert.....Physics
Patricia E. Yalden.....Photo. & Gr. Arts

In Memoriam

Jane Schwaner, Senior Administrative Assistant in the Director's Office, died on September 29, after a valiant battle against cancer. She was 54 years old and approaching her 30th anniversary at BNL.



Training

(cont'd)

teaching techniques of defensive response as well as the knowledge of when to get additional help.

"Hazardous Material Technician" is the third level, in which aggressive action is taken to control or stop a chemical release. Said Hansen, "At BNL, these responders are from the SEP Fire/Rescue Group. They might use protective equipment in plugging or repairing whatever is necessary to stop a release."

In addition, Lab employees such as industrial hygienists, health physicists and environmental monitoring personnel may be trained to be "Hazardous Materials Specialists." They may participate in planning, training and interacting with off-site agencies. "Incident Commanders," such as the BNL Fire Chief, are trained to direct an emergency response.

For more information on chemical emergency response, including future training, call Hansen at Ext. 7535.

Schwamer started at Brookhaven on November 5, 1962, as a secretary B in the Physics Department. She rose steadily through the secretarial ranks, being promoted to senior secretary in 1964, secretary III and then executive secretary in 1967, and senior executive secretary in 1977.

In 1975, Schwamer began working with Martin Blume, who is now BNL's Deputy Director but was then Deputy Chairman of Physics. In March 1981, when Blume became Associate Director for Low Energy Physics and

Chemistry, Schwamer also moved to the Director's Office. She was named administrative assistant in 1985, and took her final position in 1991.

"Jane and I worked together for 17 years, beginning in the Physics Department," Blume recalled. "It will be hard for me to do without her. She ran our office with efficiency and courtesy. I was pleased on many occasions to receive the credit for the jobs she did. I, of course, set my complimenters straight on who was really responsible."

Having resided in Bayport, Jane Schwamer is survived by her husband, Herbert Schwamer, and several relatives who also work at BNL: her brother-in-law Edward Schwamer, Alternating Gradient Synchrotron Department; and her nieces, Dawn Mosoff, Office of Educational Programs, and Beth Schwamer, Director's Office.

Donations in memory of Jane Schwamer may be made to Hospice of the South Shore, Inc., 14 Shore Lane, Bay Shore, NY 11706.

BNL to Publish New DOE Quarterly

BNL has been made responsible for publishing a new safety-related communication link for the entire U.S. Department of Energy (DOE) complex. Under Editor Ralph Fullwood, BNL's Department of Nuclear Energy (DNE), the DOE Risk Management Quarterly will contain timely articles, a column called "Around the Complex," publication titles of interest and meeting announcements.

DNE's John Boccio is the BNL site representative for this publication — one of 24 people selected throughout the U.S. to provide information on relevant activities at their sites. To submit an article or report on safety activities, contact Boccio at Ext. 7690. October 10 is the deadline for contributions for the first issue, which will be published in January 1993.

To be placed on the mailing list, give name and address to Kathleen Nasta, associate editor, Ext. 2267.

Safety Glasses

The on-site safety glasses office in Bldg. 88 will be closed on Wednesday, October 7. In case of emergency, call Pat Jencius, Ext. 2300.

Catch a glimpse of

GLANCE

playing in Berkner Hall
weekdays, 11:30 a.m. to 1:30 p.m.
Show changes every Tuesday.

Get Certified As a Lifeguard

BERA is offering a Red Cross Lifeguard Certification Class for BNL employees and their families. To qualify, participants must be at least 16 years of age and pass a basic swim test. The course will cost \$130 per person and run for eight Sundays, 3-4 hours per class, starting October 4, at 10 a.m., at the pool. Sign up at the pool or show up for the first class with a bathing suit. For more information, call the pool, Ext. 3496.

Hospitality News

Master Gardener Nancy Nagy will be the guest speaker at the next Hospitality Committee get-together on Tuesday, October 6, at 9:30 a.m., in the Brookhaven Center. She will demonstrate how to make and decorate a grapevine wreath and furnish the materials necessary for attendees to make a small wreath. Spouses of Lab employees and guests are welcome. Come and bring the children; refreshments will be provided.

Bowling

Red/Green League

S. Thompson bowled a 223/219/606 scratch series, E. Sperry IV 211, M. Guacci 201/200.

Red/Green League

H. Arnesen bowled a 257/611 scratch series, A. Warkentien 257, R. Raynis 255/633 scratch series, M. Guacci 226/206/609 scratch series, R. Wiseman 226, B. Mullany 225.

Purple League

Jim Goode bowled a 214/569 scratch series, Marilyn Picinich 211, Ed Sperry IV 211, Ben Belligan 209/191/540 scratch series, Ed Beadle 208/183/562 scratch series, Ron Picinich 203, Kevin Carney 201, Jim Biamonte 191, Ruth Sheehan 185, Denise Monteleone 181.

White League

Ken Riker bowled a 221, Mike Meier 214, Brian McCarrick 204, Phil Radusewicz 199, Paul Callegari 199, Jim Petro 193, Tom Romano 189, Pete Wynkoop 185, Gerrie Riker 183.

Arrivals & Departures

Arrivals

Karim Ashktorab.....Physics
 Michael D. Brown.....RHIC
 Andrea Castoldi.....Physics
 Laurel K. Czerw.....RHIC
 Philip S. Harrington.....SEP
 Yoong G. Koh.....RHIC
 Joseph L. Lorenzoni.....RHIC
 Charles H. Muller.....RHIC
 Helga Schenk.....Biology
 John A. Weiner.....RHIC

Departures

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

Mark K. Culp.....Plant Eng.
 Julius B. Godel.....NSLS
 Bernard C. Jasper.....Plant Eng.
 Victor E. Ladeira.....NSLS
 Li Lee.....Biology
 Shyh-Yan Lee.....Accel. Dev.
 Walter M. Loss.....App. Science
 Anthony Mercer.....Sup. & Mat'l.
 Stuart S. Rideout.....Comp. & Comm.
 Benno P. Schoenborn.....Biology
 Carrie J. Sauter.....SEP
 Shana R. Trent.....AGS
 Maria-Alicia Villela.....Medical
 Harvey E. Wegner.....Physics

Social Club News

The following events are on the Social Club Calendar:

- **World Wrestling Federation** — Friday, 10/16, Nassau Coliseum, 8 p.m., \$19 ea., due 10/2.
- **Pro Basketball** — Friday, 10/30, Nassau Coliseum, 8 p.m., \$25 ea., due 10/9.
- **Disney's World on Ice** — "Beauty and the Beast," Saturday, 11/21, Nassau Coliseum, 3 p.m., \$15 ea., due 11/2.
- **Reno/Tahoe** — 10/26, 6 days, round-trip airfare, 8 meals, \$969/ea. double, \$959/ea. triple, \$1,209/single, due now.
- **Halloween Murder Mystery Weekend** — Holiday Inn at Lake George, round-trip motorcoach, 6 hours open bar, costume party, prizes, 3 meals, lots more, \$210 ea. 5/room, \$215 ea. 4/room, \$220 ea. 3/room, \$225 ea. 2/room, due 10/9.

For reservations or information, contact Doris Terry, Ext. 7610, Bldg. 197C.



Flying high over League I were the Blue Jays: (from left) Gerry Shepherd, Allen Jones, Bob Medina, Captain George Oldham, Cocaptain Larry Musso and Frank Palmeri. Not pictured: Jim Forkin, Bob Hernandez, Jerry Hobson, Mike O'Connor, Chris Saxon, John Sganga and Joe Tullo.

Softball Champs

Photos in this issue by Roger Stoutenburgh.



Dirty Sox made a clean sweep of League 2: (kneeling) Captain Kevin Wyman; (standing front, from left) Steve Savatteri, Sol Perlstein, Rick Greene, Gary Danowski; (back, from left) Dennis Nordstrom, Cocaptain Dennis Carlson, Ernie Schmitt, Rick Wilke and Peter Lane. Not pictured: Jeremy Galland, Jerry Hall, Jim Rank, John Ripka and Fred Schaefer.



In League 3, Surefire made the championship a sure thing: (from left) Danny Carneiro, Captain Wally Hughes, Chris Hanley, Frank Trapani, Buddy Baumbach, Jim Hanson, Cocaptain Mark Sabat, Jim Lacy, John Willi, Al Liotta, John Berry, Phil Sottillard, Greg Tomasello, John Bruce, Steve Thompson and Rich Klamis. Not pictured: John Aloï, Dennis Joyce and Jesus Marte.



The sting of the Sting Rays was felt throughout League 4. On the team are: (front, from left) Bob Brown, Barbara Langhorne, Harriet Van Slyke, Captain Jim Garrison, Patti Medina, Bob Medina, Letesha Smith, Anette Meier; (back, from left) Barbara Royce, Denise Miesell, Junior Santiago, Sydell Lamb, Ken Sutter and Leroy James.



What's on 2nd? The winning team in League 5! The team includes: (front, from left) Captain Ray Savino, Linda Paquette with batboy Benjamin Paquette, Sandi Lane, Sue Guppy, Darcy Mallon, Carmen Falkenbach, Fran Salpietro, Ricky Backofen, Lois Marascia, Cocaptain Mike Paquette; (back, from left) Bob Marascia, Terry Sullivan, Jim Guppy, Heike Ratzke, Jo Ann Reed, Beth Gilman, Carl Falkenbach and John Romeo.

Note to Employees:

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

Volleyball

The second Volleyball League captains' meeting will be held on Wednesday, October 7, at noon, in Room B, Berkner Hall, to discuss and vote on the local rules and constitution. Captains or team representatives must attend.

A Referee Clinic will be held in the gym on Wednesday, October 14, from 5:30 to 7 p.m. Each team must have a representative attend.

A Volleyball Clinic will be given by Jean Spears, in the gym on Monday, October 12, from 5:30 to 7 p.m. All are welcome to attend.

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

Mortgage Rep At Credit Union

A mortgage representative from the Teachers Federal Credit Union will be at the on-site Upton branch on Wednesday, October 7. To make an appointment to meet with the representative, contact Lisa Goode-nough or Kathy Mahan, Ext. 2790.

Course in UNIX

The Computing & Communications Division (CCD) will offer three UNIX courses in the next fiscal quarter, each to be conducted on site by a professional consultant. The courses and their duration are:

- Introduction to UNIX, 10 half days
- Sun OS System Administration, 5 days
- IBM Risc 6000 AIX Internals, 10 half days.

Each course will cost approximately \$500 per seat, and, as seats are limited, places will be reserved on a first-come, first-served basis. For a course outline or to sign up, contact Ron Wittlock, Ext. 4112, or send E-mail to wittlock@bnl.gov.

Cafeteria Menu

Monday, October 5

Soup: Chicken noodle .80/1.10
 Entree: London broil 3.65
 Fitness: Baked fish du jour 3.45
 Carvery: Hot pastrami sandwich 2.95
 Grill: Monte Cristo 2.95
 Special: Buy 16 oz. coffee, get 2nd 1/2 price

Tuesday, October 6

Soup: Cream of turkey .80/1.10
 Entree: Brieded steak w/onions 3.45
 Fitness: Baked herb chicken 3.35
 Carvery: Hot roast beef sandwich 2.95
 Grill: Tuna steak w/rice pilaf 3.45

Wednesday, October 7

Soup: Cream of broccoli .80/1.10
 Entree: Pork chop w/scalloped apples 3.45
 Fitness: Ravioli w/red sauce 3.20
 Carvery: Hot baked ham sandwich 2.95
 Grill: Barbecued pork on bun w/fries 3.20
 Special: Pumpkin muffin

Thursday, October 8

Soup: Beef & rice .80/1.10
 Entree: Baked meat loaf 3.45
 Fitness: Cayman Island shrimp curry 3.65
 Carvery: Corned beef sandwich 2.95
 Grill: Swordfish steak w/rice pilaf 3.45

Friday, October 9

Soup: Manhattan clam chowder .80/1.10
 Entree: Pork chow mein 3.35
 Fitness: Stuffed fillet of fish 3.45
 Carvery: Turkey sandwich 2.95
 Grill: Aegean gyro 3.00

BROOKHAVEN BULLETIN

Published weekly by the Public Affairs Office for the employees of BROOKHAVEN NATIONAL LABORATORY

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

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 (516) 282-2345

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.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 0174 ENGINEERING POSITION - Requires BSME and substantial experience in the facility construction field as a mechanical design engineer. An advanced degree and PE license are highly desirable as is previous field construction and/or supervisory experience. Will be responsible for all work generated in and assigned to the Mechanical Design Group and coordinate/interface with other design groups within Division as well as with outside A/E firms. (reposting) Plant Engineering Division.

NS 1069 ENGINEERING POSITION - Requires BSME, MSME preferred, and ten years' experience. Background in system integration, cost estimating and schedule analysis required. Experience in cryogenics, vacuum and magnet systems would be useful. Ability to learn and use AUTOCAD is required. Work will involve design, specification and construction of large-scale particle detector systems. RHIC Project.

DD 0654. TECHNICAL POSITION - Requires AAS in electrical or mechanical technology and experience in each of the following areas: machinery operation and maintenance, pressurized systems, vacuum systems, cryogenics and helium leak testing. A working knowledge of electronics is also required, as is the ability to obtain and maintain a facility-operating certification and a DOE security clearance. Reactor Division.

Motor Vehicles & Supplies

91 TOYOTA TERCEL - 5-spd., ac, tape deck, blue, \$6,999. Walter, 928-5447.

91 HARLEY DAVIDSON MOTORCYCLE - XLDX 883, black spokes & belt, 2k mi., many extras. Bob, Ext. 7257.

90 MUSTANG - white, 5-spd., leather int., sunroof, full power, 36k mi., \$12,300. Doug, Ext. 5857.

89 PONTIAC GRAN PRIX - 2-dr., gray, a/t, ac, 60k mi., \$6,500 firm. Pat, Ext. 2539.

89 PLYMOUTH SUNDANCE RS - 18k mi., a/t, ac, p/s, p/b, sunroof, p/w, p/l, am/fm cass., fog, excel. cond., \$6,500. Eric, Ext. 5875.

89 MERCEDES BENZ 190E - 2.6, excel. cond., \$21,000. Ellen, 665-4495.

88 CHEVY SILVERADO PICKUP - maroon/silver, black cap, loaded, \$9,500. Dave, Ext. 4289 or 288-0861.

87 YAMAHA - 50cc, like new, \$500. 751-1884.

86 VW JETTA - p/b, ac, 5-spd., sunroof, 96k mi., good cond., \$3,000 firm. Brad, 758-0685.

86 JEEP WAGONEER LTD - power everything, 40k mi., 2.8 V-6, a/t, sunroof, excel. cond., \$5,225. Henry, Ext. 4664 or 727-7227.

86 NISSAN MAXIMA GXE - 62.5k mi., two-tone brown, p/sunroof, \$5,995. Bill, Ext. 2047 or 878-3305 after 6 p.m.

85 PONTIAC 6000 - one owner, under 70k mi., \$3,000. Ext. 5637 or 371-4768.

85 TRANS AM - white, 5.0L, a/t, loaded, excel. cond., asking \$5,200. Tom, 874-8463 after 6 p.m.

84 TOYOTA COROLLA - new transmission, brakes & tires, very dependable, clean, in good shape, \$1,200. Mike, Ext. 5972 or 744-4579.

83 MAZDA GLC - 4-spd., high mi., runs well, body good, \$650. Warren, Ext. 4939 or 924-7552.

83 TOYOTA TERCEL - running cond., \$700. 345-2289.

82 DODGE 400 - 4-spd., ac, sunroof, 79k mi., runs well, \$850. Peter, Ext. 3048 or 928-2021.

82 DODGE RAMCHARGER 4x4 - a/t, ac, p/s, p/b, am/fm cass., 80k mi., orig. owner. Bill, 924-6724.

81 DATSUN B210 - 2-dr. h/b, a/t, good cond., looks great, \$1,200. Russ, Ext. 3059 or 758-3952.

81 AMC EAGLE - 73k mi., 4wd, 4-spd., \$750. Ext. 3496 or 924-2722.

79 MONTE CARLO - new brakes, family owned, new engine, 305, must see, \$850. Bob, Ext. 2350.

79 CHEVY BLAZER 4x4 - a/t, ac, all power, lift kit, runs well, \$1,700; ladder rack, for full-size pickup, \$100; stereo, \$50. Donna, Ext. 2716.

79 FORD LINCOLN MARK V - loaded, new brakes, good cond., \$1,200; '78 Ford Thunderbird, ac, p/s, p/b, clean, needs motor work, \$350. Ext. 4498.

75 MG MIDGET - new front end, top, many extra parts, not running, for restoration or parts, best offer. Artie, 981-3468.

74 MERCURY COMET - one owner, 40k orig. mi., good cond., \$750. Bill, Ext. 3512 or 473-3171.

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

70 CHEVY IMPALA - 2-dr., a/t, ac, 120k mi., runs well; for restoration project, incl. spare trans., make offer. Bob, Ext. 4002 or 924-9662.

TIRE - P195SR14, on Buick rim, \$10. Ext. 5080.

Boats & Marine Supplies

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

22' GRADY WHITE SEAFARER - 1985, 185-h.p. Johnson, dual batt., canvas top, swim ladder, Lorán, VHF, Fishfinder, \$17,500. 929-4886 eves.

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

19' FOUR WINNS - 1986, cuddly, 140 i.o., loaded w/everything, trailer, excel. cond., desperate, must sell for loss, make offer. Artie, 981-3468.

Furnishings & Appliances

ANTIQUÉ SEWING MACHINE - foot pedal, drive system w/cabinet, completely orig., make offer. M. McCrath, Ext. 2815, or Mrs. Smith, 472-3899.

BEDROOM SET - boy's, maple, 2 dressers, mirror, 4-poster bed, good cond., \$300. S. Dwyer, Ext. 3496 or 924-2722.

BEDROOM SET - walnut, \$150; mattress, box-spring & frame; Colonial sleeper, sofa, excel. cond., \$300. 588-6417.

BEDROOM SET - boy's, 2 dressers, 1 hutch, 1 mirror, \$150; girl's large triple dresser, 9 drawers, \$50. 928-9136.

BEDROOM SET - solid oak, queen size, 2 nightstands, triple dresser w/mirrors, armoire, excel. cond., more, \$1,500. 751-8351.

BUNK BEDS - w/mattresses, L-shaped, \$80; 2 metal bed frames, twin, \$5/ea. 928-0615.

CEILING FANS - large, white w/light kit, \$20; small, white w/o light kit, \$15. Donna, Ext. 2716.

CORNER TABLE/WALL UNIT - dark pine, 32", 1 drawer, curio compart. & lift-up storage area, \$100; sofa bed, \$75; vinyl recliner, \$45. 928-7391.

DISHWASHER - GE, convertible, wood top, like new, \$220. 821-6856.

FAN CHAIR - wicker, \$30; maple server, \$50; 5 maple bar stools, \$10/ea.; maple side table, \$20; 588-6417.

KITCHEN TABLE - 4 chairs, \$350; microwave, \$75; brass headboard, \$25; sectional couch, orig. \$3,500, ask. \$1,500. Tom, Ext. 7287 or 744-4535.

SOFA & LOVESEAT - camelback, floral design w/beige background, excel. cond., \$500/both. Mike, Ext. 7772 or 399-7907 after 6 p.m.

SOFA BED - light color, good cond. 345-3685.

SOFA BED - Castro, queen, matching loveseat, blue & beige stripe, \$150/both; plaid upholstered easy chair, \$55. Gail, 585-8381.

Tools, House & Garden

FIREWOOD - hardwood, seasoned, you pick up, 4 cords, all stacked, \$85/cord; 4 wood milk crates, \$10; Surdiac coal stove, \$200. 878-6637.

FIREPLACE - Vermont Castings insert, like new, orig. \$1,500, now \$475 neg. Mike, Ext. 3981.

KITCHEN CABINETS - birch, 12 linear feet, \$100. Ken, Ext. 5454.

LAWN MOWER - Lawn Boy, 21" cut, side bag, reasonable offer. Ext. 7759 or 724-3591.

MAPLE TREES - Japanese red, \$10-\$45+; well pump, 1 1/2 h.p., FW, 3 stage, \$75; Deming shallow well pump, 3/4 h.p., \$75. 265-6542 after 6 p.m.

SPREADER - Scott's, excel. cond., \$15. Ext. 2016.

STORM/SCREEN DOOR - full view, 28"W x 78"L, \$60; 2 shopping carts, \$5/ea. 281-7844 eves.

STORM WINDOWS - two 28"x54", one 31"x55", alum.; white jalousie door, 34"x80"; alum. doors, 32"x80", 32 1/2"x80", excel. cond., reas. 475-3063.

TABLE SAW - & jointer, good cond., best offer. 727-7741.

WHITE PINES - white spruces, nursery grown, up to 4', \$2/per foot. John, 744-5667.

WOOD STOVE - Vermont Castings, Vigilant w/chimney pipe, access., 2 cords of wood, excel. cond., \$800. Steve, 722-4821.

Sports, Hobbies & Pets

CAMERA - Nikon F3, v.g. cond., 28-70 zoom, 80-200 zoom gadget bag, flash, w/hard lens case, \$475 firm. Ext. 2384 or 924-8558.

CLIMBING-TREE STANDS - 3, Warren & Sweat, \$50/ea., 1, T.S.S., w/seat, \$50; 1, Loc-on-Lem P.S.-II, \$50. Joe, Ext. 4498.

COMPOUND BOW - Golden Eagle turbo cam, left-hand w/quiver, rest, arrows, \$125. Mark, Ext. 4289 or 281-5060.

DARKROOM - Bogen enlarger, w/lenses, paper access., filters, trays & color equipment, \$200/all, firm. 924-8558.

DOG CRATE - 21"x36"x24"H, folds flat, good for training or housebreaking, \$50. Tom, Ext. 7196 or 286-2505.

EXERCISE BIKE - \$25. Al, Ext. 2957.

FERRETS - 3, cute, timid, mild, 1 cinnamon, 2 mask, great w/kids, cage, access., need a good home. 924-8558.

GERMAN SHEPHERD - 3 yrs. old, AKC, good temperament, loves people. 727-7741.

MOUNTAIN BIKE - Fisher Pro. Ralph, 874-8790.

PUPPIES - chow-chow, 2, adorable, AKC reg., 1 red male, 1 white female, \$200/ea. Ext. 3426.

ROLLER BLADES - Zebrablade, man's size 10, used twice, asking \$100. 727-0364.

SKIS - Head SL Racing, 200cm, Tyrolia 380 bindings, used 1 season, \$150. John, Ext. 5883.

TENNIS BALLS - like new, \$1/three, \$3/twelve. Ext. 7505.

TRUMPET - excel. for beginner, used 4 times, excel. cond. 878-1178.

WEIGHT BENCH - Sears home gym, P/N 374, 15669 plus 150 lb. barbell/dumbbell set, \$50. Vinnie, Ext. 5005.

WET SUIT - Ski Limited, full, size medium, used once, \$50. Richie, Ext. 2175 or 734-7342.

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



Audio, Video & Computer

ALBUMS - 150, 33 1/3, folk, pop., movie tracks, jazz, 60s & 70s, reas. offer. Ext. 7759 or 724-3591.

CAMCORDER - Magnavox VHS, w/bag, adapter, back light, used very little, works well, \$350. Fred, Ext. 5319.

COMPUTER - 126 Commodore, 1571 drive, Thomson color monitor, joystick, programs, hardly ever used, \$175. Patricia, Ext. 3427.

NINTENDO - 22 games, power glove, turbo controller, Game Genie, many extras, orig. \$1,000, sell for \$300 or best offer. Don, Ext. 7237.

PLOTTER - Hewlett Packard, 2-pen plotter, serial interface, \$250. Jim, 244-3577.

POWER AMP - Haflex, model P500, 250W/channel, for DJ or home, like new, \$500. Artie, 981-3468.

STEREO - Sony, 75W receiver, turntable, CD, cassette, stereo Beta VCR, full remote control, \$600. 472-4133.

TAPE DECK - Teac model A-6010, reel-to-reel, good cond., reas. offer. Ext. 7759 or 724-3591.

Miscellaneous

ANTIQUÉ TYPEWRITER - needs ribbons, w/hard case, excel. cond., \$35. 924-8558.

BABY'S CLOTHES - snowsuits, jackets, 2-piece sweater outfits, Oshkosh overalls, more, NB to 4T. Mary, 924-6235.

BASKETS - handmade hardwood, maple, heirloom quality, many styles & sizes. 472-4133.

BROWNIE UNIFORM - size 7/8, blouse, jumper; beanies, sweater, like new, \$15. Steve, Ext. 4475.

COAT - Misty Harbor, all-weather, size 12, slate blue, orig. \$120, sell for \$60. Ext. 4538 before 12:30 or 924-2012, leave message.

COCKTAIL SUIT - Dynasty, 3-piece, w/beading, pale pink, size 12, \$150. Ruth Ann, Ext. 7774.

DISPLAY CASE - glass, hexagon shape, 3-tier, mirrored back, 18"H x 9"W, orig. \$90, sell for \$40. 924-7892.

FUR JACKET - woman's, blue fox, size 12, excel. cond., \$450 neg. 472-4133 after 7 p.m.

LEATHER JACKET - white, small, size 7, \$10; Levi's jeans, boy's, acid-washed, W30-L30, \$3. Ext. 2733 or 878-8491.

OPERA TICKETS - 2, Met, Puccini's *Tosca*, Mon., 10/19, first row balcony, \$30/ea. Carmen, Ext. 4135.

SKIRT - tan suede, size 11/12, never worn, asking \$25; black leather coat, size large, 1 yr. old, \$100. Bonnie, 727-3612.

TAP SHOES - girl's, size 12 1/2, black, \$8; white wood highchair, \$20; mesh playpen, 36"x36", \$15. Ken, Ext. 7915 or 744-0722.

Free

CATS - orange tigers, 2 yrs. old, neutered males, excellent pets, gentle, love people. Ext. 3436.

Yard & Garage Sales

E. PATCHOGUE - Sat. & Sun., 10/3-4, 9 a.m.-5 p.m., tools, household items, furn., 68 Donegan Ave. off S. Country.

MANORVILLE - 10/3-4, 10 a.m.-4 p.m., furn., crafts, toys, wicker, more, corner of Dayton Ave. & Moriches/Middle Island Rd. Tracy, 878-4506.

SHOREHAM - 10/3-4, 11 a.m.-5 p.m., housewares, dishwasher, toys, clothes, science fiction books, 2 South Trail. 821-6856.

YAPHANK - 10/3, 9 a.m.-4 p.m., multifamily, Mill Rd. opposite motel by lake.

Lost & Found

FOUND - did you lose something in the Cafeteria lobby? Perhaps I found it. Joe, Ext. 2898.

LOST - Olympus camera, 9/11, w/first-day-of-school photos. Please return to BNL Kindergarten or Box 528, no questions, or call Ext. 7192.

Car Pools

W. ISLIP-BAYSHORE - need 1-2 drivers for existing car pool, 8:30 a.m.-5 p.m. Bob, Ext. 3062.

Wanted

ATV - quad, used, good cond., any make, model. Bob, 467-4222.

BOAT TRAILER - used, for 21' boat, 3,600-lbs. class. Rich, Ext. 4100.

HOUSE - to buy, good school district, low taxes, 2-3 bdrm. Ext. 7192.

HOUSE TO SIT - mature couple, this winter, will pay utilities, have refs. Bob, Ext. 5314.

SAXOPHONE - good cond., for 12-yr.-old student, reasonable. 281-3515.

SCUBA DIVERS - planning winter dive trips. John, Ext. 2769.

TRAINS - and accessories, American Flyer and accessories, top \$ paid. Carole, Ext. 7100.

TYPING - working nurse needs medical notes typed on daily basis. Sheila, 924-0361 after 6 p.m.

Services

Services are listed in the first Bulletin of every month as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin. Services forms are available in the Bulletin lobby, Bldg. 134.

ALARMS - hooked up into central, done from start to finish, free estimate. James, 395-6055.

ALTERATIONS - men's & women's clothes, call for estimate. Theresa, 289-0898.

ASPHALT WORK - repair, sealing, driveways. Bob, 475-4382.

AUTOMATIC LAWN SPRINKLERS - free est., prof. layouts, repairs, alterations, courteous service, winterization, \$25. Lou, 928-7042.

BABY-SITTING - caring mother of infant son will baby-sit in my home in Wading River. Lorraine, 929-3910.

BABY-SITTING - 15-yr.-old., avail. for after school or some eves. in SWR area, exp. w/infants & young children. Joanna, 929-4295.

BABY-SITTING - reliable, experienced & eager 15-yr.-old, will baby-sit in Smithtown, Nesconset, Centereach area. Samantha, 588-4862.

BAND - "The Finishing Touch," music for all occasions. Bob Dee, 333-0789.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block. 25 yrs. exp., Lab disc. Tony, 698-9274.

CARPENTRY - extensions, dormers, fin. bsmts., garages, windows installed, Sheetrock, roofs, all done w/excellence, free est. Dennis, 399-6055.

CARPET/UPHOLSTERY CLEANING - spot, pet stains, odor removal, auto int., fabric protector, free est., Lab disc. Jerry, 924-6019, days.

CARPETING - discount purchase, installation & repair, custom work, stripes, borders, printing in carpet. Mark, 399-2813.

CATERING - great home Italian cooking, home-made pastas & much more, cater any occasion, call for menu. Luisa, 395-6055.

CERAMIC TILE & MARBLE - installation & repair, lic. & insured, refs. avail., reasonable rates. Tom, 474-3080.

CHILD CARE - in my home, years of exp., reliable, f/t or p/t, refs. 472-3254.

CHIMNEY SWEEP - fireplaces, wood, coal, oil flues, prefab repairs, stainless steel caps, Lab discount. Mike, 821-5526.

CLEANUPS - furn. moved, no job too small, lg. van avail. for hire w/driver. Frank D., 399-4480.

COLLEGE FINANCIAL AID - fee refunded if no aid, computers match grants, scholarships w/student's background, Lab disc. Tom, 736-6691.

DECKS - custom, cedar, CCA, 20 yrs. exp. Danny, 698-9274.

DJ/MC - The Music Connection, music from 40s-90s, quality sound/service at affordable prices, all occasions, insured. Let's Party! Lou, 698-8210.

ELDERLY CARE - on weekends in their home, I give TLC & stay overnight, a break for the family, reasonable. Susan, 286-4225.

ELECTRICIAN - all phases of electrical work, service upgrades, high-hats, licensed & insured. Gregg, 874-8631.

ENTERTAINER - for children, ages 3-7, balloon shaping, ventriloquist, tricks & much more. 929-0383 for info.

FINANCIAL - retirement planning, projected retirement benefits & benefit options analyzed for pension maximization. Rich, 744-4816.

FIREWOOD - seasoned hardwood, split & delivered, \$115/cord. Glenn, 924-2035.

HANDMADE GIFTS - cross-stitch & needlepoint cards/gifts to order, 4-6 weeks notice for wedding/anniversary items. Judy, 924-2012.

HANDYMAN - painting, Sheetrock, spackling, landscaping, any home repairs. John, 929-3407.

HEATING - air cond., refrig., duct work, service, installation, neat, quality work, lic., insured