

Chinese Delegation Studies Nuclear Safety



Doug Humphrey

At the HFBR, Dave Rorer (foreground) used a model of the Reactor building to explain its design to a Nuclear Safety Delegation from the People's Republic of China. Their recent visit was part of a three-week tour of various laboratories and industries in the United States which are involved in nuclear safety. The delegation was an outgrowth of the agreement between the U.S. Nuclear Regulatory Commission and the Chinese State Scientific and Technological Commission to cooperate on nuclear safety matters. The nine-member group was led by Zhaolin Wei, Director of the Fifth Bureau, the section of the commission which is responsible for nuclear safety. Before a Lab tour, members of BNL's Department of Nuclear Energy spoke to the visitors about probabilistic risk assessment, radioactive waste management, the NRC research program, the National Nuclear Data Center and nuclear safety programs.

Cost-Cutting Committee Suggests Policy Changes

Noting that there is no "magical solution" to budgetary difficulties and no single suggestion that will make everything jim-dandy, the Cost Cutting Committee forwarded its report to Acting Director Nicholas Samios.

In its report, the committee not only looks at what might be done to reduce costs, but zeros in on Lab efficiency and productivity. Committee members spent many weeks sifting, reviewing and debating various proposals that could help streamline Lab operations. A large number of employees put their best efforts into thinking of what could be done to cut costs, and the report also reflects this thinking.

The report has been divided into two sections. One includes recommendations for policy changes and the other deals with specific cost cutting suggestions. The committee indicates the pros and cons of each change or suggestion and whether it recommends approval. The committee was chaired by Joseph Hendrie and included Allen Goland, Henry Grahn, Geoffrey Hind, Vincent O'Leary and Ronald Rau.

The Bulletin will review the report in two articles. Today's story will summarize suggested policy changes. Here the committee was not only concerned with reducing expenditures, but in making some "significant changes in the way the Lab operates." Next week, cost cutting suggestions that committee members selected from among hundreds submitted to them will be surveyed.

Far-Reaching Proposals

Policy issues dealt with in this report concern the Lab's organizational structure, personnel policy, efficiency and productivity of operations, work atmosphere, business systems and computer facilities, and general overhead structure.

The committee tackled 17 proposed changes in these areas and unanimously recommended implementation of all but two. The members were against any pay or fringe benefit reductions in FY 82 and urged that, even in more difficult fiscal years, such measures should only be considered as a last resort. They split (4-2) in recommending that the pool, gym and locker room be closed during business hours.

A big money saver would be a reduction in vacation carryover above 36 days, and in limiting the number of unused vacation days for

which employees are paid when they leave the Lab. The committee suggests it be done in three stages: reduce all vacation carryovers to a maximum of 36 days on January 25, 1983; reduce the number of vacation days for which a terminating employee would be compensated to 31 days effective Sept. 30, 1983; and a reduction to 26 days for those terminating after Sept. 30, 1984. These reductions would not affect the present vacation carryover allowance of up to 36 days each January 25th, but would limit the number of unused vacation days for which terminating employees are compensated.

The committee proposes to provide sick leave up to six days of unadvised leave per year, plus up to six months of sick leave for serious illnesses or accidents. They would eliminate the present sick leave accrual and "buy-back" provisions. While days available for minor illnesses are reduced, coverage for serious illness is increased and is not dependent on length of service.

Due for "trimming" says the committee is the Director's office, and certain programs in Personnel such as the Apprentice and Technician Training Program, recruiting expenditures, Youth Opportunity Program and tuition refunds. The Committee recommended that reductions in the Personnel Office programs be subject to further review by Lab management before any actions are taken.

There will be no free rides, according to the committee. It proposes that using units be charged for Lab vehicles assigned to them. A fee schedule would be established such that the income from vehicle charges would equal the present automotive account in the G&A overhead.

The general level of supervision at the Lab comes in for some hard knocks and the committee recommends that training programs, along the lines of the current Resources Management program, be expanded to include all first and second line supervisors.

The committee recommended that the shutdown over the week between Christmas and New Year's be made a regular annual event. It was suggested that the two floating holidays be put in this week, to reduce the vacation time used in the shutdown from four days to two.

Jury duty per diem payments by
(Continued on page 2)

Blume Wins Lawrence Award

Martin Blume, Associate Director for Low Energy Physics and Chemistry, has been named winner of the 1981 E.O. Lawrence Award for Physics. He was cited for his definitive contributions to the theoretical analysis of magnetic phenomena in neutron scattering; for his work on relaxation and critical phenomena; and for his scientific leadership in solid state physics, especially for the emerging program based on the National Synchrotron Light Source.

Blume received the good news on January 13, his birthday. He was delighted, of course, and expressed his thanks to co-workers and colleagues at Brookhaven for contributing to the research for which he was cited, and for nominating him for the award.

Named with Blume were Yuan T. Lee, University of California at Ber-

keley (Chemistry and Metallurgy), Fred Mynatt, Oak Ridge National Laboratory (Reactors), Paul Selby, Oak Ridge National Laboratory (Life Sciences), and Lowell Wood, Lawrence Livermore National Laboratory (National Security).

He came to BNL in 1962 as an associate physicist after a two-year postdoc at AERE, Harwell, and a Fulbright Fellowship at Tokyo University. He became group leader of solid state theory in 1968; head of solid state physics and deputy chairman of the Physics Department in 1975; scientific program head and deputy project head of the NSLS in 1979. He has held an adjunct appointment as Professor of Physics at SUNY, Stony Brook since 1972.

Over the years, Blume has been a member of various committees and panels. Currently, he is BNL Representative to DOE's Basic Energy Sciences Laboratory Program Panel, is chairman of the Solid State Sciences Committee of the National Academy of Sciences, serves on the Advisory Council of Princeton Plasma Physics Laboratory and on the Stanford Synchrotron Radiation Laboratory Program Review Panel.

The Lawrence Award was established in 1959 to perpetuate the memory of the late Dr. Ernest O. Lawrence, inventor of the cyclotron and director of two laboratories which bear his name, at Berkeley and Livermore, California. It is given to U.S. citizens who have made recent meritorious contributions to the development, use or control of atomic energy. The field of effort can be in any area of science related to atomic energy, including medicine and engineering.



Mort Rosen

Martin Blume

keley (Chemistry and Metallurgy), Fred Mynatt, Oak Ridge National Laboratory (Reactors), Paul Selby, Oak Ridge National Laboratory (Life Sciences), and Lowell Wood, Lawrence Livermore National Laboratory (National Security).

Each winner receives \$5000, a citation and a gold medal which will be presented on February 24 at the Forrestal Building in Washington, D.C.

Blume was appointed an associate director in February of last year. Until he entered administration, his career had centered on solid state physics research and the scientific program of the National Synchrotron Light Source.

Inside Information

Maurice Goldhaber assumed the presidency of the American Physical Society on January 1. The AUI Distinguished Scientist and former Laboratory Director was elected as the Society's Vice President-Elect two years ago and served as Vice President throughout 1981.

Two Brookhaven scientists have been elected Fellows by the Council of the American Association for the Advancement of Science (AAAS). Seymour Holtzman is a scientist in the Medical Department and Joseph Wenner is a senior scientist in the Physics Department. A Fellow of the AAAS is described as "A member whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished."

Past Winners At BNL

A look at other BNL recipients of the Lawrence Award shows the diversity and high quality of the Lab's research. Brookhaven scientists have been cited for their contributions to physics, chemistry, biology and reactors, as follows:

Herbert J.C. Kouts (1963)

For the development of new experimental techniques in reactor physics and their application to a better understanding of theoretical models of chain-reacting systems.

Jacob Bigeleisen (1964)

For outstanding theoretical contributions and experimental advances in the separation of isotopes.

Joseph M. Hendrie (1970)

For outstanding contributions to the physics and engineering of versatile research reactors and for important contributions and recognized leadership in promoting the safety of large power reactors.

F. William Studier (1977)

For fundamental contributions to DNA and gene structure and function essential to understanding radiation and chemical induced genetic damage and repair.

Nicholas P. Samios (1980)

For his leadership in the study of elementary particles, in particular for the discovery of the Omega minus particle and the first charmed baryon.

Benno Schoenborn (1980)

For his innovative development and creative application of neutron scattering and diffraction techniques to the analysis of macromolecular structure and biological organization and function.

And BNL also provided the research facilities for three Nobel Prize winners, Val L. Fitch, James W. Cronin and Samuel C.C. Ting, who received the Lawrence Award earlier in their careers.

Cost-Cutting

(Cont'd)

Suffolk County would be turned over to the Lab, according to a committee recommendation.

Space - office, laboratory and storage - should be reviewed by departments and service units with an eye to consolidating groups and reducing the volume of space that must be serviced.

Also recommended for **consolidation** are several Lab units, moves which the committee thinks would reduce overhead costs and improve operations. However, it recommends that detailed studies be carried out before action is taken.

The report urges **energy conservation** coordinators to make their presence known to employees and to be more aware of the conservation measures they are required to oversee. In a related vein, the committee would also involve employees in an on-going cost reduction campaign within their own groups and on items over which they have some control, such as materials, supplies, travel, communications and electric power. The aim would be to hold down costs for the general good of the group.

The committee recommends that the planned **central business and management information systems** be completed as soon as possible. It also endorses a recently completed report by the Task Force on **Comput-**

ing at BNL. The Task Force investigated present Lab-wide computing needs and those projected for the future.

"The report is precisely what was needed," says Warren Winsche, deputy director. "It is a first-rate job which has dealt evenly with the problem of tightening up Lab operations while still being fair to employees. We have sent the report to department chairmen and division heads and indications are that their response will be positive. It will take time to implement the recommendations; some will require more study and others negotiations with the bargaining units. But we expect the final result will be big improvements for the Lab."

Attention Aliens

Each year, during the month of January, aliens have had to report their addresses to the U. S. Immigration and Naturalization Service (INS) on a form available from the U. S. Post Office. This year, the Post Office reports that the INS has withdrawn this requirement. The only stipulation is that any alien's change of address must be reported within ten days of moving. So, if you haven't notified INS of any recent change of address, please do so.

Frostbite: The Cold Facts

There are several degrees of cold injury. The mildest is **frostnip** which, if treated immediately, does not progress to frostbite. The symptoms of frostnip include numbness, prickling, itching, and a blanching of the affected areas. These symptoms virtually disappear upon rewarming.

More severe cold injuries are classified as **frostbite**. Frostbite is tissue injury due to freezing and can be categorized as either superficial or deep. Superficial frostbite involves the top layer of skin and superficial tissue just beneath the skin. Deep frostbite involves deeper layers of tissues and frequently causes irreversible damage.

Another type of cold injury includes **systemic hypothermia**, which is cooling of the entire body.

The following chart is provided as a guideline for treatment should frost-

bite or hypothermia occur. However, the best treatment is prevention. Proper dress and attention to the early signs and symptoms of frostbite are the most important steps in prevention. Layers of clothing of absorbent material (such as cotton) help retain body heat and absorb moisture from the skin surface. A nylon shell helps protect from the wind. Mittens, especially down filled, protect hands more efficiently than gloves. Wear dry socks (cotton or wool), ear and head coverings, and shoes or boots which are roomy enough to allow free movement of toes. Avoid constricting clothing, and avoid wearing metal jewelry since it can predispose to cold injury. Also, smoking, due to the effect of nicotine, a vasoconstrictor, may increase the danger of frostbite. Avoid alcohol since it may mask the symptoms of frostbite.

Recognizing and Treating Frostbite

Type of Cold Injury	Treatment
Superficial Frostbite Skin has a white waxy appearance and is firm to the touch, but tissue underneath is soft and resilient. As injured area thaws it is at first numb, and may be mottled and blue in appearance. Swelling and blistering may occur. Depending upon severity, throbbing or burning of injured area may persist for weeks, months, and occasionally years.	<ul style="list-style-type: none"> • If near shelter go inside. • Use warm hands to apply firm steady pressure to area - do not rub since rubbing could cause further injury. • If alone, place fingers in armpits. Replace wet footwear after drying feet well. • Once inside, rewarm affected area with immersion in warm water (100-107° F). Water that is too hot can further damage tissue. • Don't stay in cold or wear wet clothing • Don't thaw if refreezing is possible.
Deep Frostbite: Injured area appears pale and lifeless, has mottled blue or gray areas. Skin feels woody and has no sensation. Deep swelling and pain develop. Dark blisters form. Damage may be permanent.	<ul style="list-style-type: none"> • Requires immediate treatment by a physician. • First aid - same as for superficial frostbite.
Systemic Hypothermia Exposure to low or rapidly dropping temperatures, cold, moisture, wind, snow or ice can cause cooling of the entire body at temperatures well above freezing. Hunger, fatigue, and exertion may contribute to it. Also, persons in poor health and the elderly are more susceptible. Initial symptoms are shivering, followed by apathy, listlessness, and indifference as the body cools. At first, the patient may only seem clumsy and somewhat slow to react. Untreated, death can occur within 2 hours of onset of the first symptoms.	<ul style="list-style-type: none"> • Move patient out of the wind and replace wet clothing with dry, preferably insulating material. • Provide external heat in any way possible (hot water bottle, electric blanket, campfire, or body heat from another person). Since the patient is unable to generate adequate body heat, just placing in a blanket or sleeping bag is not sufficient. • If the patient is conscious, hot liquids may be given. Do not give alcohol. • Once indoors immerse patient in a tub of warm water (105-107° F). • Carefully monitor respirations and heartbeat. Severely cooled patients may require prolonged pulmonary or cardiopulmonary resuscitation in the event of respiratory or cardiac arrest. • <i>Get medical help as soon as possible in any case involving hypothermia.</i>

— Caroline Kramer, R.N. Occupational Medicine Clinic



From left, Alfred Lukas, Safety and Environmental Protection Division, explains how to use portable survey instruments to Norbert Meehan, Don Costleigh, John Dillon and Charles Moran, officers from Rescue Company No. 4 in Queens.

Queens Firemen Train At BNL

It was a day of intensive classwork and field exercises for four senior level New York City firemen who came to Brookhaven Lab this week Tuesday. Captain Norbert Meehan, Lieutenant Charles Moran, Lieutenant John Dillon and Lieutenant Don Costleigh, all of Rescue Company No. 4 in Queens, were here to learn how to safely handle radioactive materials. Recognizing BNL's expertise in this area, the rescue company had asked the Safety and Environmental Protection Division to set up the one-day course for their officers.

Rescue Company No. 4 is designated as the hazardous materials company for the city. Besides radioactive materials, firemen in the company are trained to handle flammable liquids and solids, explosives, corrosives, compressed gases and oxidizing materials.

Hazardous materials handling requires unusual tools and special techniques. Before coming to Brookhaven, the Queens firemen had

already taken courses offered by the Fire Academy in Maryland and by Safety Systems, a Florida-based company that conducts annual classes at SUNY/Stony Brook.

The training day at BNL was arranged by Frank Marotta, training associate for S&EP, who tapped other radiation specialists in the division.

Marotta gave the firemen a review of basics — radiation facts, terminology and standard precautions against exposure. Captain Michael Carroll of BNL's Fire Group showed them radiation counters and detectors used by BNL firefighters. RAP (Radiological Assistance Plan) personnel Leigh Phillips and Alan Kuehner talked about the emergency response capabilities of that team. Practical exercises in tracking radiation sources with detectors were conducted by Alfred Lukas and Gary Zukas.

Giving the Queens firemen a break in their full day of training, The BNL Fire Group hosted a luncheon in honor of their New York City brothers.

Nuclear Chemist To Lecture

Dr. Darleane Hoffman of Los Alamos National Laboratory will present a seminar entitled "A Field Study of Radionuclide Migration from a Nuclear Explosion Cavity" at 3:30 p.m., Monday, February 1, in the Hamilton Seminar Room (Chemistry). The talk,

She is head of the Chemistry-Nuclear Chemistry Division at LASL and has chaired the ACS Division of Nuclear Chemistry and Technology.

A buffet dinner open to all will be served at 5:30 p.m. in Room A, Berkner Hall, preceded by a cash bar at 5 p.m. Reservations can be made by calling the Cafeteria at Ext. 3541. The price is \$6.50.

Persistence Pays Off

Betty Pergan is not one to take a goal lightly. As chairman of the 1981 United Way campaign, she had set her sights on collecting \$50,000 in donations from BNL employees. When the Lab's campaign "officially" ended, Pergan found she was only a few hundred dollars short of the hoped for amount. So, using the "tin can" technique, Pergan paid a personal visit to many BNL'ers.

Counting up the contributions on January 14, she found she had topped her goal, with a total donation of \$50,067.60. Pergan and the United Way thank everyone who helped make the 1981 campaign the most successful ever held at the Laboratory.

GRAF Values

January	\$50.20	February	51.21
March	52.85	April	52.39
May	52.56	June	51.94
July	51.19	August	48.26
September	45.89	October	47.61
November	49.61		
December \$48.33			



Darleane Hoffman

sponsored by Women In Science, is open to the entire laboratory community.

Dr. Hoffman, a prominent nuclear chemist, will discuss the rates of migration in various media of radionuclides from underground nuclear explosions. Of major concern is the possible contamination of water supplies. The data also apply to nuclear waste isolation. Her other areas of expertise include actinide chemistry, fission mechanisms, and rapid chemical separation of short-lived fission products.

BROOKHAVEN BULLETIN

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BERA Contest

January 29 is the final date to submit entries for the BERA contest announced in November.

The purpose of the contest is to choose an eye-catching design to be used as an imprint on souvenir shirts which will eventually be sold at the BERA Sales Office.

Rules:

- The contest is open to all employees.
- Entries should be original designs representative of the Laboratory and its environs.
- Since plans are to sell the shirts for an indefinite period, entries should not incorporate any details which would outdate the imprint.
- Entries should be submitted to contest coordinator Nelson Tyler, Building T-87.

The members of the BERA Board will judge all entries at their meeting on February 4.

The contest winner will be awarded a cash prize of \$25 plus a free shirt.

One Week To Winter Whoopee!



Doug Humphrey

Sharing the limelight with her bosom buddy Janet Sillas is Pat Towey, the dynamic performer featured in a contest announced in last week's Bulletin. In a drawing of all correct entries, John Eriksen became the winner of two tickets to the BERA Winter Dance next Friday, January 29.

Tickets are available to everyone else at \$3 each and are on sale now at the BERA Sales Office or from 23 other ticket sellers on site. By getting your tickets early, you will help the dance organizers in their planning. In addition to drinks, dance-goers will be able to buy such goodies as a basket containing Southern fried chicken, barbecued spare ribs, and fries; foot long franks; and coffee. To make sure

there's enough for you, get your tickets today!

Once you've bought your tickets, you can look forward to a good time that will start at 8:30 p.m. when the cash bar opens in Berkner Hall. The music will begin at 9 with Mr. "T" (Eddie Taylor) spinning discs in discotheque Xenon 488 (Room B) and Charlie Zein and the Newports playing in the cafeteria. At 10:30, you can rest your tired toes while you sit back and enjoy the Showtime Revue in the auditorium. Not only will you be entertained by bosom buddies Pat and Janet, but you'll also be treated to a variety of other exciting acts, ranging from the light banter of emcee Neil Baggett to the irreverence of satirist Karl Swyler.

Spotlight On Black Culture

At the Harriet Tubman home in Auburn, New York, Sandra Dunson-Franks sits beneath a portrait of the woman who helped many escape from slavery. Dunson-Franks will again don this costume, put on her make up and become Harriet Tubman in February in a dramatic tribute called *Hats*.

This show is one of five performances by black artists being sponsored by the BNL Afro-American Culture Club during Black History Month. The celebration will include *Gospel Extravaganza*, Saturday, February 6, 7 p.m., \$5; *Elvira Green in Concert* (opera), Thursday, February 11, 8 p.m., \$3; *The Many Facets of Lindamichellebaron* (poetry), Thursday, February 18, 8 p.m., \$2; *Hats*, Saturday, February 20, 8 p.m., \$6; *Bill Mackey Dance Theatre*, Friday, February 26, 8 p.m., \$8.

Tickets can be purchased individually, or at a special rate of \$20 for all five performances, from Berthel Becton, Bldg. 750, Ext. 4432; Mary Durham, Bldg. 902, Ext. 7981; Renee Flack, Bldg. 460, Ext. 3316; Michele Henderson, Bldg. 555, Ext. 4303; Deidre Seymour, Bldg. 462U, Ext. 5037. Or send a check, payable to BERA, to Afro-American Culture Club, P.O. Box 441, Brookhaven National Laboratory, Upton, N.Y. 11973. All events will be held in Berkner Hall. For more information, call 286-2673 from 9 to 5.



Aerobic Dancing

The newly-formed BERA Aerobic Dance Club announces a ten-week, 20-lesson session to begin Tuesday, February 2. The session will cost \$50 (\$2.50/lesson) and will be held at the Brookhaven Center on Tuesdays and Thursdays from 5:15 to 6:15 p.m.

Aerobic dancing is designed to exercise the entire body by means of vigorous dance/exercise to music. It is said to be an enjoyable way to develop muscle tone and strengthen the cardiovascular system. Anyone interested in slimming down and shaping up should contact Jayne Cutt, Ext. 7597, or Pat Carr, Ext. 3636, by Friday, January 29. Space is limited.

Concert Reminder

Pianist Jeffrey Marcus will give a benefit concert for BERA on Wednesday, January 27, at 8:30 p.m. in Berkner Hall. His program will include works by Domenico Scarlatti, Schubert and Chopin. Tickets for the concert are \$3 for adults and \$2 for those under 18.

Window Check

An energy conservation reminder: Did you lower the storm window in your office? Anyone with a problem window should call Mark Culp, Ext. 5299, or Ed Murphy, Ext. 3466.

Call For BNL Crafts

The second BERA Members Crafts Exhibit opens at 5 p.m. on Wednesday, February 17 and runs until Wednesday, March 3 in Berkner Hall. The show may be seen from 9 a.m. to 5 p.m. Monday through Friday.

All BERA members including employees, related family 16 years of age and over, and retired employees are invited to contribute their work to the exhibit. Please note that no pictures or sculpture will be accepted as these were exhibited last year.

The Art Committee will accept only one work from each contributor. This

Return to BERA Sales Office - Berkner Hall

Name of Artist

Title of Object

Medium

Telephone # _____ Bldg. # _____

IBEW Meeting

Local 2230, IBEW will hold its regular monthly meeting on Monday, January 25, at 6 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the President's report. *Please note late.*

PINY Courses

Final registration for the PINY/BNL extension courses in Nuclear Engineering will be held from 6 to 7 p.m. Monday, January 25 in the Conference Room of Bldg. 318. PINY courses to be offered at BNL this semester are: NU 604, Nuclear Engineering Laboratory II (D. Rorer), Monday; NU 702, Nuclear Reactor Theory II (H. Ludewig), Wednesday; NU 716, Reactor Heat Transfer (W. Wulff), Thursday; and NU 741, Probabilistic Risk Assessment (R. Bari), Tuesday. All classes are tentatively scheduled to meet at 6 p.m.

Professor R. Aronson will be on hand to register and advise students. These courses are available to BNL employees under the tuition refund policy. They are also open to guests and collaborators, and to a limited number of persons not affiliated with the Laboratory.

Arrivals & Departures

Arrivals

Sanjini P. Kale Medical
Kelvin K. Shiu Nuclear Energy

Departures

This list includes all employees who have terminated on the Laboratory, including retirees:
John C. Burdick Personnel
John E. Duggan Accelerator
Andrew J. McNerney Physics
Stienne J. Pochon Chemistry

Cooking Exchange

"Bella Italia" is the theme for the Cooking Exchange meeting on January 27. Linda Humphrey will demonstrate the use of a pasta machine, and Italian specialties such as pesto sauce and St. Joseph's cream puffs will be prepared.

Meetings are held on the second and fourth Wednesdays of each month from 12:30-2:30 p.m. in the Recreation Building. Admission is \$1.00 and babysitting is provided at 50¢ per child.

If you have any questions, please call Adrienne Usher, 289-7658, or Ruth Fernow, 928-8465.

Bowling

Pink League

The Lickety Splits are the winners of the first half. High games were bowled by A. Donegain 190, H. Keeley 184, R. Rosati 181, M. Connelly 173, E. Kristiansen 170, D. Johnson 162, M. Larsen 160.

Red & Green League

The Light Source took the Sparks 11-0 to win the first half. J. Cochrane had a 211, R. Sick 202, R. Barberich 212/233, M. Iarocci 205, W. Kollmer 201, N. Parrinello 248, H. Arnesen 219, R. Larsen 215/200/202, J. Morris 202/243, M. McKenna 235, R. Jones 210, J. Petro 203, T. Prach 215, J. Ferrante 202.

Volleyball

Standings and results as of 1/18/82

A Division

Teddybares	8-1
Dinkers	10-2
Mixed Ups	6-3
Nuts & Bolts	5-7
High Society	4-8
Las Bolas	2-7
Leftovers	1-8

Las Bolas over Leftovers, 15-12, 15-10, 15-10. High Society over Nuts & Bolts, 15-5, 14-16, 15-7. Dinkers over Mixed Ups, 13-15, 15-13, and 15-5.

B Division 3rd Quarter

Puff & Stuff	6-0
KMA	3-0
Semi Tough	3-3
TNT	2-4
Quirks	1-2
Big Boopers	0-6

Puff & Stuff over Big Boopers, 15-4, 15-6, 15-10. TNT over Semi Tough, 15-13, 15-8, 0-15. Quirks and KMA game was postponed.

Cafeteria Menu

Week Ending January 29, 1982

Monday, January 25

Beef noodle soup	(cup) .55
	(bowl) .65
Country fried steak & 1 veg.	1.85
Tuna noodle casserole	1.70
Hot Deli — Monte Cristo	1.75

Tuesday, January 26

French onion soup	(cup) .55
	(bowl) .65
Sauerbraten & potato pancake	1.80
Baked chicken w/ Copenhagen sauce & 1 veg.	1.70
Hot Deli — Baked ham	(bread) 1.75
	(roll) 1.85

Wednesday, January 27

Scotch broth	(cup) .55
	(bowl) .65
Standing steamship round w/ mashed potatoes & 1 veg.	2.60
Hot Deli — Pastrami	(on bread) 1.75
	(roll) 1.85

Thursday, January 28

Chicken okra Creole	(cup) .55
	(bowl) .65
Turkey goulash	1.75
Beef Stroganoff over noodles	1.80
Hot Deli — Italian sausage & pepper hero	1.85

Friday, January 29

New England clam chowder	(cup) .60
	(bowl) .70
Breaded fish fillet & 1 veg.	1.70
Chicken cacciatore w/ spaghetti	1.70
Hot Deli — Top round of beef w/ BBQ sauce	(bread) 1.75
	(roll) 1.85

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.

There is currently a freeze on open requisitions, however, certain positions must be filled. The Director's Office has individually approved the filling of the following positions.

LABORATORY RECRUITMENT: Opportunities for present Laboratory employees

1649 LAUNDRY OPERATOR A - Plant Engineering Division

OPEN RECRUITMENT: Opportunities for present Laboratory employees and outside applicants

1650 PROJECT ENGINEER - Requires BSEE or equivalent background. Will design and maintain reactor instrumentation systems and prepare review packages (e.g., safety and quality assurance) for modifications. Must be able to obtain or have a current "Q" security clearance. Reactor Division. Reposting of job #1634.

1651 RESEARCH ENGINEER - Requires MS in mechanical or civil engineering plus substantial experience in dynamic response. Must be familiar with current analytical test methods and procedures relating to nuclear power plant equipment and have knowledge of ASME, IEEE and SRP codes and standards. Duties include evaluation and documentation of dynamic response of systems and components (i.e., pumps, valves, piping and electrical control systems) installed in nuclear power plants. Department of Nuclear Energy.

Autos & Auto Supplies

72 DODGE DART - Swinger, engine 225, good cond. \$600; new tires, (size 15), \$75. Leaving for service Feb. 399-0864.

71 FORD TORINO - 6 cyl., auto., p/s. Excel. running cond. \$550. Ext. 2556 or 727-3894.

71 PONTIAC - 350 V8, p/s, p/b, new engine, a/c. Good cond. 727-1764 or 727 6622.

80 MONZA - coupe, 4 sp., 4 cyl., sunroof. Excel. cond. \$4,300. JoAnn, Ext. 4189 or 588-8492.

CLARION EQUALIZER BOOSTER - 22 wt., new model 100EQB-3, \$40. Steve, Ext. 4297 or 929-6877.

73 OLDSMOBILE - excel. running cond., am/fm stereo, 8-track tape, full power. Ext. 4835 or 289-9811 after 6 p.m.

64 VW BUG HOOD - Small crease, \$25. Louise, Ext. 3397.

VW's - one '69 bug, one '69 square back w/newly rebuilt engine. Both good for parts, \$350. Ext. 5385.

75 PINTO - automatic, low mpg, 2300cc, radials, am/fm, a/c, 90K miles, vinyl top, needs work. \$1000. Bob, 924-0589.

81 PLYMOUTH - Reliant K, 2 dr., p/b, p/s, fnt. whl. dr. automatic, am/fm cassette stereo. Laurie, Ext. 2896.

51 PLYMOUTH - Cranbrook, 4-dr, 20K on factory rebuilt eng., rebuilt brakes, carb., new tires, extras. \$750. 283-7209.

80 SCIROCCO - 4 spd, am/fm, 25,000 mi., metallic dark green, excel. cond. \$6,750. Ext. 2525.

TOYOTA CELICA ENGINE - 4-speed trans., starter, alternator. \$100. Ext. 4098 or 281-8318.

PIONEER - FM/8-track car stereo, w/mount and (2) 20 oz. spkrs, \$45; Sears 48 mo. main. free batt. New cost \$62, asking \$40. 473-7906.

70 DODGE DART - for parts, glass, doors, auto trans., rear end. Ken, 289-8212.

HYDRAULIC LIFTERS - Will fit most GM engines. By Crane, new. \$50. Hans, 281 5563, Ext. 4581.

SNOW TIRES - 8 00 x 16.5. 924-4685.

69 TOYOTA - Corona. Rebuilt eng. Tires, paint, body, interior very good \$1,000. 751-7140.

77 TOYOTA PICKUP - 5-spd, 4 wd, am/fm, stereo, cap, radials, 23 mpg, extras. \$6,000. 929-4421, between 5 & 7 p.m.

70 FORD - Maverick excl. cond., MPG, new paint, tires. Avail. Feb. \$1000. Ext. 7112, nights Ext. 3017.

SNOW TIRES - two, on rims, polyester belted, H-78-15 used two seasons, excel. cond. \$75, for both. Al, Ext. 4647 or 273-5574.

DELCO RADIO - am/fm stereo from Firebird, \$35; 8-track, \$10. Susan, Ext. 2168 or 744-7679 after 5.

Free

MALE DOG - mixed breed, 3 yrs. old, good w/children. 281-8306.

Miscellaneous

REFRIGERATOR - GE deluxe, no frost, 19 cu. ft., avocado, perfect. Ext. 4959.

CASSETTES - BASF blank tape, ferrite, chrome, FeCr and metal. Ext. 2521 or 928-8379 eves.

ICE SKATES - Racing style, like new, \$65. 929-3251 eves.

WALLBOARDS - Fire and mildew proof, approx 24" x 12" x 1". Good for ceilings or walls. Ext. 5385.

MAGNUS ORGAN - w/bench, Kay guitar, electric guitar must sell, need space, sacrifice. Kelly, 744-3069.

STEREO EQUIPMENT - Emerson record player and am/fm radio, BSR record changer, Criterion speakers. Best offers. Ext. 4024.

ITALIAN RACING BICYCLE - Fully equipped, finely tuned for competition, \$800. Andy, 286-8698.

KEROSUN HEATER - Radiant 10, works great, 1 yr old. Lists for \$179 plus. Asking \$125. Ext. 2927.

COLOR TV - Sears 19", \$150. John, Ext. 4312.

BOW - Bear Kodiak hunter, left hand, \$50. John, Ext. 4312.

ATARI VIDEO GAME - \$100. Ext 3671 or 744-8632 after 6 p.m.

SOUND PROJECTOR - Bell & Howell, still new, \$130 firm. Edward, Ext. 3403 or 751-1826 after 6.

KITCHEN TABLE & CHAIRS - Brown formica table & yellow/brown print chairs. Asking \$40. 2 wood dark stained tressel benches. Asking \$35. 281-0360.

FIREPLACE HEAT EXCHANGER - w/2 speed blower and black/brass tempered glass doors, heavy duty mesh firescreen. Fits opening up to 31" H x 40" W (min. 17" D) \$125.00. Ext. 4601.

WOODEN STORAGE CABINET - \$10; metal storage cabinet, 5-1/2 ft., free; oak chair, \$5; 5-ton jack. 924-4054.

ICE SKATES - Hockey Bauer, men's size 9; boy's figure type, size 4. Good cond. Reasonable. Ext. 4278 or 878-1731.

FILM COPIER - 8 or 16 mm, \$75; Hart skis w/binding \$30; ski boots \$10. Ext. 4058 or 286-0436.

DINING ROOM SET - contemporary 8 piece, cherry mahogany, table w/pads, 6 chairs, china closet. Asking \$250.00; chandelier, modern, lucite and chrome. \$35. 588-5489.

TEN-SPEED BIKES - (2) \$75 each; 3 bar stools, \$ each; baby crib, \$20; stroller, \$15. 924-4054.

CAMERA - 35mm SLR Minolta SRT 102, 50mm 1:1.7 lens & filter. Shutter 0-1000; Vivitar flash. Asking \$175. Ext. 3284 at noon or 281-0360 after 6 p.m.

PIANO - Yamaha console, M-1-A, very good. George, Ext. 7672 or 878-4383.

BENCH GRINDER - Black & Decker, 5" wheels, light duty, \$25. John, Ext. 4976 or 744-4386.

MINK STOLE - sable brown, new, orig. \$600, asking \$275. 475-0144 after 6 p.m.

IMITATION FUR COAT - boot length, new, size 14. \$75. 924-6051 after 6 p.m.

WOOL RUG - slate blue, w/pad, 12 x 12, fair cond. \$75. Nancy, 924-8160.

FIREWOOD - split, seasoned oak, 4' x 16" x 18", \$110 delivered. 924-4284 or 924 3919.

BACKPACK - metal frame, used twice, good cond. \$35. Olson, Ext. 4278.

PENTAX 35MM CAMERA - F1.8, 50mm with bellows unit \$100. Fujii, Ext. 7571, 7110. 821-9346.

BIKE - "brand new" womens, 10 speed, \$90 or best offer. 587-0029.

FREEZER - \$200; b/w TV, needs repair, \$25; shag rug, \$40; girls bike, \$45. Paul, Ext. 4156.

WHITE PORCELAIN KNOBS - and cabinet hardware, various sizes. Ext. 7154.

B/W TV - 19" portable with stand and booster antennae. Works good. Both \$60. Bob, 924-0589.

SKI BOOTS - Koflack, size 6 and Henke, size 5. Both leather w/buckle. \$10 each. Georgia, Ext. 2772 or 286-8869.

YASHICA GSN CAMERA - \$55; case for this camera. \$5; F1.4 Nikon lens, used only once, registration papers not even filled, new \$150, make offer. Muthu, Ext. 3060 or 282-3076 eves.

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

MILLER PLACE - Contemporary ranch house, 4 bdms, eik, l/r, den, fenced yard, excel cond. Rustic acres. \$78,500. 331-3724.

MATTITUCK - 3 bdrm, 2 baths, wood/coal stove, taxes \$1,300, deeded beach rights on Peconic Bay, fenced back yard, lg. patio playroom. \$70,000. 298-4398.

PATCHOGUE - 2 bdrm, ranch OHW heat, wood stv., full bsmt, city wtr., alum. siding, chain link fence. Assum 8% mtg. \$28,000. 289-8212.

MIDDLE ISLAND - 3 bdrm, col. on wooded 2-3/4 acres; eik, l/r, d/r, den w/fp, s/s w/w carpet, 2 baths; apt. in bsmt; kennel. Ext. 4660.

For Rent

LAKE PANAMOKA - 2 bdrm., w/w carpet, Franklin stv., w/d, porch and deck, freshly painted. 929-4996.

APARTMENT - 3 rm, ideal for business couple, pvt. entr., w/w carpet, 8 miles from lab., util. incl. 744-7083.

STONY BROOK - 3 bdrm. hse. 5 min. Univ. & stores. Avail. in Feb. \$550 mo. plus util. 928-8522 after 6 p.m.

Wanted

WATCHES - Clocks for student watchmaker; dial indicators, tool maker tools in need of repair, small lathe for instrument clock work. Free or small cost. George, Ext. 3536.

AURORA RACING CAR SETS - parts, cars, track, access. to add to small set. 924 5192 eves.

OLD WEIGHTS - Steel preferred, pay top dollar. Greg, 399-4213.

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

ENCYCLOPEDIA - complete set, relatively new, reasonable. Eva, Ext. 2050.

MOTORCYCLES - bent or broken. Any age or cond. Kevin, 281-8031.

HANDBOOKS/TEXTBOOKS - for machinist, metal working and casting, etc. Ext. 4058 or 286-0436.

EXERCISE BICYCLE - w/tension knob. Susan, Ext. 4267.

VOLKS BUG BODY - frame, body and transaxle. In good cond. No motor needed. John, Ext. 3292 or 286-1348.

PERSONS INTERESTED - in skiing weekend, Feb. 26th or one day to Catamount Mt. Feb. 6th. For info call Bea, Ext. 3571.

VW POP-UP CAMPER - '70 to '73, good cond. Ext. 4321 or 3078.

XC SKI - w/binding, 190-200 cm, pole 120-125 cm; baby carrier. Kazuo, Ext. 2338.

AMBITIOUS PERSON - \$200-300/mo., 6-8 hrs/wk. 698-5861 after 7:30.

SMALL HOUSE - or 2 bdrm. apt., reasonable rent, north shore. Muthu, Ext. 3060 or 282-3076 eves.

CRIB, MATTRESS AND HIGH CHAIR - Grandmother needs them by Feb. 7. Have you any to sell? 286-1214.

Car Pools

BABYLON/WEST ISLIP - Driver needed for 4 person car pool. Ext. 2493.

NORTHPORT AREA - Drivers needed for 2 person car pool. Ext. 4555 or 261-6352.

Lost & Found

LOST - Sterling silver stick pin with silver rose, vicinity Medical. Ext. 2837.

Services

Services are listed as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin.

WILL BOARD CATS - in my home. Exercise and good food. Reasonable. 928-9537.

BABYSITTING - experienced mother/teacher will watch any age child. Flexible hours, playmate, car. Joan, 732-1610.

PLUMBING AND HEATING - Lab discount. John, 654-8189.

VERTICAL AND MINI BLINDS. Installed, discounted prices. Tony, 928-9241.

HOME IMPROVEMENTS - Carpentry, roofing, masonry, painting, complete, int. & ext. Free estimates. 281-0360.

HOUSE CLEANING - and/or babysitting. Hours flexible, experienced, can provide references. Cathy, 281-0360.

SMALL APPLIANCE REPAIRS - Vacuums, typewriters, sewing machines, etc. 654-3900.

MACHINIST - precision milling, prototype small run, any material, aircraft tolerances. Bob, Ext. 3935 or 744-3289.

FIRESIDE CHIMNEY SWEEPS - Fireplaces, wood coal & oil flues cleaned professionally. \$10 discount thru Feb. 28, 1982. Bill, 584-6425.

TAXES PREPARED - Bill, 821-9081 anytime.

LIMO SERVICE - Luxury chauffeured for proms, weddings, airports, all occasions. Roy, Ext. 4662 or 744-8779.

PROFESSIONAL INCOME TAX SERVICE - by experienced preparer. Year-round service. Jack, Ext. 7942 or 864-2236.