

Doug Humphrey

Meeting inside sextant 11 to inspect the completed ISABELLE magnet enclosure earlier this week were (from left) Peter Wood, Construction Manager, Amman & Whitney; Parke Rohrer, Head of BNL's ISABELLE Construction Division; Arthur Herman, President, A.D. Herman; James Sanford, BNL ISABELLE Project Head; Vern Witherill, ISABELLE Project Head for DOE; Pat DiNapoli, Amman & Whitney; Edward Cohen, Managing Partner of Amman & Whitney; and Mrs. Edward Cohen.

ISABELLE Tunnel Completed

Construction of the ISABELLE magnet enclosure was completed last month by the A.D. Herman Construction Co., Inc. of Huntington Station, New York, which was responsible for building the entire tunnel.

For construction purposes, the ISABELLE ring was divided into six sextants. The Amman & Whitney/Safeguard Construction Co. awarded three contracts totaling about \$12,700,000, each of which covered the building of two adjacent sextants. A.D. Herman won all three contracts, beginning construction of sextants 5 and 7 in April 1979, adding sextants 1 and 3 in September 1979, and picking up sextants 9 and 11 in April 1980.

The entire effort was completed in two years — more than four months ahead of schedule. This will allow precision surveyors that much more

time for settlement of the structure. While A.D. Herman's construction work is completed, however, the magnet enclosure will not be a continuous ring until all six of the ISABELLE experimental areas are finished, connecting the open ends of the magnet enclosure.

When that phase of ISABELLE construction is over, the circumference of the tunnel will measure approximately 2.4 miles (12,578 feet). This is longer than any land vehicular tunnel in the U.S., the longest being the Eisenhower Memorial Tunnel in Colorado at 8,941 feet. And, even though it does not seem valid to compare protons to vehicles, in terms of the numbers that will pass through it, the ISABELLE magnet enclosure will certainly have far more traffic than any vehicular tunnel!

Focus On Antiquity

The 21st International Archaeometry Symposium will convene at 9:30 a.m. in Berkner Hall on Monday, May 18, for a week-long session. It is a major international conference on the application of modern scientific techniques to the field of archaeology, and will be attended by over 150 specialists in archaeometry from museums, universities and research labs.

Staff members are invited to attend any of the conference sessions. At

poster sessions, from 2 to 3:30 p.m. on Monday and Wednesday, abstracts will be posted and the authors will be on hand to discuss their work.

Also of particular interest is a round table discussion on "Future Directions in Archaeometry," organized by the Smithsonian Institution. It will run from 2 to 6 p.m. on Thursday and from 8:30 a.m. to 1 p.m. on Friday.

Program details may be obtained at the conference desk in Berkner Hall.

Weisskopf To Speak At BNL May 26

Victor Weisskopf, a physicist of note who is also regarded with great affection by the physics community, will give an AUI Lecture at Brookhaven on Tuesday, May 26. His talk on the "Frontiers and Limits of Science" is scheduled for 8 p.m. in Berkner Hall. By "science," Dr. Weisskopf has indicated he does not mean just physical sciences, but the life and social sciences as well. The lecture is open to the public.

Known for his theoretical work in quantum electrodynamics and nuclear reactions, Dr. Weisskopf explained the roles of three different kinds of high energy physicists at a BNL seminar in 1975: "The accelerator builders should be compared with the ship builders and navigators who made it possible for Columbus to cross the ocean. The experimental physicists are like those men on the ship who went ashore and described the mountains, streams and the strange animals, plants and people. The theorists are compared to those who stayed in Madrid and predicted that Columbus would land in India."

Born in Vienna, Dr. Weisskopf came to the United States in 1937 to join the faculty of the University of Rochester. He left in 1943 to work on the Manhattan Project at Los Alamos. Weisskopf began his long association with MIT in 1945 when he was appointed associate professor of physics. For the next 15 years he served as full professor and as head of the theory group at the Laboratory of Nuclear Science. In 1960 he was named Director-General of the European Center for Nuclear Research (CERN) and remained in Geneva until 1966. He then returned to MIT as Institute Professor, a rank of distinction. In 1973 he was named James R. Killian Award Lecturer.

Weisskopf was chairman of the High Energy Physics Advisory Panel (HEPAP) from its founding until January 1974, and later chaired the HEPAP Sub-panel on New Facilities to consider future needs for high energy facilities. He is a fellow and former president of the American Physical Society. He received the Max



Victor Weisskopf

Planck Medal of the German Physical Society in 1956 for his contributions to physics, and the Cino del Duca Award for humanism in science.

Professor emeritus since 1974, his career continues at full speed and he is much in demand as a speaker before scientific groups, and in the public forum.

Tune In!

The notice in the Bulletin of 4-3-81 announced that "outside laboratory services" would be cancelled. This raises many questions. Of paramount importance, will it really save BNL money? Tight budgets are admittedly cutting into many services. But, since these "laboratory services" would be paid in full by Connecticut General, one must look at other costs. How will these lost services affect non-productive time, the cost of travel, the use of more fuel, lost time in one's car or van pool. Let's not forget the increased use of "sick leave" or "doctor visits" and lowered morale plus lost convenience.

The Medical Department has served the staff well for many years through other crises. Are we going backwards?

Answer:

Over the past few years, the Occupational Medicine Clinic has been able to increase its ability to respond to employee requests for clinical tests. This has provided not only convenience but also a great saving of time (Continued on page 2)

International Meeting On Salt And Hypertension



Doug Humphrey

At the Lewis K. Dahl Symposium, on Salt and Hypertension held at Brookhaven on May 7-8, 80 participants from eight countries convened to discuss the specific relation of salt and hypertension. It was the first symposium devoted entirely to this important issue, and was in memory of BNL's Dr. Lewis K. Dahl whose research demonstrated a correlation between salt intake and hypertension. Talking in Berkner Hall are (from left) Dr. Louis Tobian, Univ. of Minnesota; Dr. John Laragh, N.Y. Hospital; Dr. Junichi Iwai, BNL Medical Department; Dr. Hideo Ueda, Tokyo; Dr. Jean Sealey, N.Y. Hospital; and Dr. Philippe Meyer, Paris. Dr. Iwai, organizer of the conference, says that arrangements for collaborative research have already been made as a result of this symposium, and he looks forward to further meetings on the subject.

Baroque Music Festival At BNL

A festival of baroque music will be held at the Lab in May and June. Sponsored by BERA, the concerts are scheduled for Thursday, May 28; Friday, June 5; Thursday, June 11; and Saturday, June 20. All performances will begin at 8:30 p.m., and the series is open to the public.

Nina Barwell, flute, and Peter Wolf, harpsichord, will appear in all four concerts. They will be joined by Samuel Baron, flute, in the first concert, and by Ronald Roseman, oboe, in the fourth.

A former student of Jean-Pierre Rampal, flutist Nina Barwell became Samuel Baron's assistant at the State University of New York at Stony Brook in 1972 and received her Master of Music from that school in 1974. She is currently on the faculty of Tufts University and the New England Conservatory of Music Preparatory School. Ms. Barwell has performed extensively in France and in this country.

Noted harpsichordist Peter Wolf was a featured soloist at the Folger Shakespeare Library and the Phillips Collection concert series in Washington, D.C., and has performed as a soloist, continuo player and chamber ensemble member throughout the United States. He has held several academic positions as a harpsichordist and musicologist, including one at the State University of New York at Stony Brook. He recently joined the faculty of Rutgers University.

Series tickets for the four-concert



Peter Wolf and Nina Barwell

festival are \$15 for general admission and \$12 for students and senior citizens. Series tickets will be on sale at the door on the night of the first concert. Single performance tickets will also be available at the door before each concert at \$5 for general admission and \$3 for students and senior citizens.

Real Estate Dictionary

Unobstructed view: No trees.
 Awaiting your imaginative touch: Sparse interior decor.
 Handyman's dream: Owner's nightmare.
 Central to everything: Noisy location.
 Easy commuting: Remote from everything.
 Country kitchen: No dining room.
 Needs finishing touches: Needs roof.
 All services available: Nothing hooked up.
 On the paved road: Fronts on a major highway.
 Secluded: No road in.

In Search Of Plentiful Produce

If you're a gardener who is hoping for home-grown vegetables later this season, these tips on locating and planting your garden may be of interest. They're from Cornell University, Cooperative Extension Association, which can also be contacted for more information.

Where to Plant

When locating your garden, consider:

- **SUN** — Leafy crops need at least four hours of sunlight a day; other vegetables need six. To assure adequate sun, locate the garden 20 to 30 feet from buildings, trees, hedges, overhanging branches, houses or other structures.
- **SOIL** — Loam soil is ideal; sandy and clay soils can be conditioned by adding organic matter or compost. Test soil to see how much fertilizer and lime to add.
- **CONVENIENCE** — A garden near the house can be watered, checked and harvested easily.

How to Plant

When you plant vegetable seeds directly into the soil, consider:

- **DEPTH** — Follow directions on the seed packet or plant at a depth three or four times the seed's diameter.
- **SPACING** — Proper spacing saves money and yields more plants. If seed is fresh with a germination rate of 80% or more disregard packet instructions and sow it in clumps. You'll use half the seed. For example, try planting three seeds of Salad Bowl lettuce every ten inches, then thin to one plant.
- **A SECOND SEASON** — On August 1, sow the lettuce seed you saved for a second crop around September 20!

Tickets Available

The BERA Sales Office, located in Berkner Hall, is selling tickets for the following: Great Adventure, Westbury Music Fair, and a performance by pianist Pamela Ross which will be presented at Alice Tully Hall on Sunday afternoon, May 31.

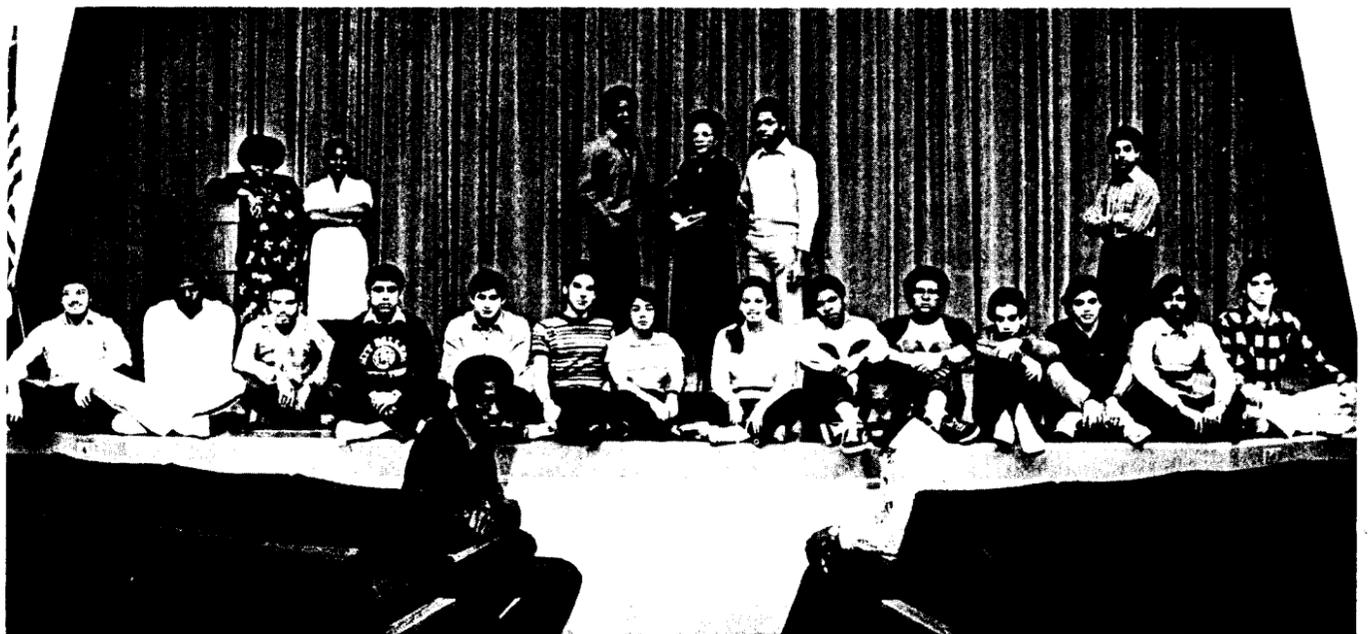
Also available are free membership cards to Magic Kingdom and Disneyland.

Detailed information on all of the above is posted on the bulletin board of the Sales Office. The office is open Monday through Friday from 10:00 a.m. to 1:30 p.m.

Selected Reading

New Yorker 42 (6) March 30, 1981
 Reflections (West Germany), 68-81, William Pfaff.

New England Journal of Medicine 304 (13) March 26, 1981
 Snuff dipper's cancer, 778-779, David Schottenfeld, M.D.



Twenty-one students from City College of New York participated in the fifth SEEK Mini-Semester held at the Laboratory last month. Here they are joined by staff members of BNL's Office of Affirmative Action, which prepared their agenda, in cooperation with City College. Over the four-

day period, the students were acquainted with the various technical pursuits at the Lab by attending seminars in electronics, economics, physics and architecture, and by touring most of the Lab's facilities.

—photo by Humphrey

Arrivals & Departures

Arrivals

Davanloo-Malherbe, Parichehre Biology

Departures

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

Abbondola, Lawrence J. Plant Eng.
 Agnetti, Suzanne M. Supply & Mat.
 Agosta, Annette M. App. Math.
 Aguilar, Juan R. Plant Eng.
 Akasaka, Takeshi Chemistry
 Akins, Louise App. Math.
 Amoretty, Stephen J. Tech. Info.
 Apelskog, Karl J. Plant Eng.
 Ayres, Cecil E. Plant Eng.
 Baldwin, Robert A. Dir. Ofc.
 Becker, Pierre R. Safety & EP
 Beerman, John F. App. Math.
 Bernier, Patricia F. Medical
 Best, Ordel N. Plant Eng.
 Boniface, Joseph A. App. Math.
 Bono, Anthony Accelerator
 Brockner, Margaret E. Medical
 Burke, Betty J. Energy & Env.
 Carbonaro, Daniel Plant Eng.
 Casali, John A. Plant Eng.
 Cassella, Victor Plant Eng.
 Charles, Cecil Plant Eng.
 Corace, Onre C. Energy & Env.
 Cordero, Alfred J. Personnel
 Cockerham, Antoinette Contr. & Proc.
 Cooney, Robert J. Central Shops
 Cristiano, Isabel Sys. & Adm. DP
 Dahl, Marilyn Energy & Env.
 Davis, Judson G. Energy & Env.
 Deiningner, Donald G. Contr. & Proc.
 Detmer, Keith D. Plant Eng.
 Engel, Ronald R. Plant Eng.
 Ezura, Eizi Accelerator
 Farrenkopf, Dennis R. Accelerator
 Ferguson, Robert W. Medical
 Fish, Peter R. Plant Eng.
 Fleming, Margaret Physics
 Foley, John E. Plant Eng.
 Frank, Ronald Plant Eng.
 Fridrich, Barbara J. Fiscal
 Geib, Robert G. Central Shops
 Gelo, Annette R. App. Math.
 Gerbino, Charles J. Accelerator
 Gibbons, Marilyn Supply & Mat.
 Harmon, Desiree A. Energy & Env.
 Harrigan, Thomas P. App. Math.
 Hartmann, Ernest Safety & EP
 Hillenbrand, Jack A. Plant Eng.
 Hoefling, Janet Dir. Ofc.
 Hubbard, Garry N. Physics
 Hunter, Everett Accelerator

Hundzinski, Kenneth E. App. Math.
 Jasper, Bernard C. Plant Eng.
 Johnson, Cynthia L. Contr. & Proc.
 Kalinowski, Richard W. App. Math.
 Kalousek, Marie L. Energy & Env.
 Kelley, Jonathan Medical
 Koenig, Kathleen L. Contr. & Proc.
 Kopp, Joshua K. Physics
 Koscinski, Raymond W. Energy & Env.
 Lagattolla, Stella M. App. Math.
 Leigh, Gerard L. Physics
 Lewis, Irwin App. Math.
 Lockwood, Kerry M. Medical
 Lutz, Charles Plant Eng.
 Magnani, Frank Plant Eng.
 Mayer, Jr., Robert J. Plant Eng.
 McHugh, Philip G. Dir. Ofc.
 McNamara, Judy R. App. Math.
 Meo, Anthony O. Safety & EP
 Mercier, Pierre A. Plant Eng.
 Miesell, Denise M. Fiscal
 Milau, Julius Energy & Env.
 Mitchell, Glen R. Energy & Env.
 Moore, Sharon M. Energy & Env.
 Morrell, Kathleen Energy & Env.
 Munson, Gale E. Energy & Env.
 Naidu, Veena J. Medical
 O'Reilly, Joseph P. Medical
 Palamidis, Peter N. Personnel
 Parker, Richard E. Plant Eng.
 Pedroso, Manuel J. Supply & Mat.
 Pettit, Ruth E. Fiscal
 Petty, Rickey Energy & Env.
 Rabinowitz, Joseph Energy & Env.
 Reddick, T.J., Jr. Personnel
 Reeves, Debra Contr. & Proc.
 Reinert, Frederick T. Central Shops
 Roberts, Mary Ann Medical
 Rohde, Gene E. Plant Eng.
 Sanchez, Lucy R. Contr. & Proc.
 Schroeder, Dorothy G. Dir. Ofc.
 Scott, Franciel Central Shops
 Sealey, Leslie L. Plant Eng.
 Snapper, Ira Energy & Env.
 Snead, Kenneth F. Central Shops
 Soler, Jose Plant Eng.
 Stelmaschuk, Peter F. Plant Eng.
 Still, Ira W., Jr. Instr.
 Strelecki, Theresa J. Plant Eng.
 Sullivan, Joseph P. Central Shops
 Szczepanik, Edwin S. Plant Eng.
 Thien, Carl R. Dir. Ofc.
 Tierney, Maureen A. Tech. Info.
 Tiller, Joan L. Tech. Info.
 Toraskar, Jayashree R. App. Math.
 Van Valkenburg, Charles F. Plant Eng.
 Vargo, Herman Supply & Mat.
 Vicale, Thomas Energy & Env.
 Vogt, Thomas F. Medical
 Wangelin, James R. Medical
 Waskewicz, John B. Plant Eng.
 Weisenbloom, Joan F. App. Math.
 Williams, Frederick Plant Eng.
 Wolkiewicz, James M. Sys. & Adm. DP

ANS Meeting

The Long Island Section of the American Nuclear Society will meet at the Bavarian Inn, Lake Ronkonkoma, on Tuesday, May 19. Guest speaker is Alvin G. Waggoner, Executive Vice President of the L.I. Association of Commerce and Industry. He will discuss the "Future of Industrial Growth on Long Island." Cocktails are at 6 p.m., dinner (\$9.50/person) at 7 p.m. For reservations, call Peggy Nickerson at 677-2416 before May 15.

Tune In!

(Cont'd)

which would otherwise have been lost from the job, and thus it is clearly "cost-beneficial" as you have pointed out.

On the other hand, the number of requests has grown, and has reached a point where we are now faced with the problem of handling all requests within good time.

Nevertheless, on reconsideration, we have decided not to cancel Laboratory tests. We will strive for greater efficiencies so as to be effective as possible in meeting employee requests.

— Laura Sbarra, M.D.

BROOKHAVEN BULLETIN

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Sitting on top of their world on the nursery school's jungle gym are (from left) Alexander Meier, Peter Lowenstein, Andrew Morse, and Megan Wehner.

Nursery School Provides TLC

For 16 years, BNL parents have been cooperating to provide a nursery school for their three- and four-year old children. On Tuesday, May 19, plans for the 17th season of the Upton Nursery School will be the primary topic of discussion at a meeting of the general membership at 7:30 p.m. in the Recreation Building.

Members include anyone whose child is either enrolled in the nursery school now or has been enrolled for September. Only members can participate in the meeting, but interested parents are welcome to attend.

Two teachers, assisted each day by two different parents, provide interesting pre-school experiences for children whose parent or relative is affiliated with the Lab. Separate classes for three- and four-year old children meet two or three mornings a week. An established car-pool system is in operation. Tuition fees are \$40 per month for three-day classes and \$27 per month for two-day classes.

Interested parents should call Karen Brunshwig, enrollment chairperson, at 924-0030, or Colin Stewart, president, at Ext. 4154 or 286-9616 for more information.

Tea & Sherry Party

"Spring on Long Island" is the theme for the Hospitality Committee's Spring Tea and Sherry Party which will be held at the Brookhaven Center on Tuesday, May 19 from 3:30-5:30 p.m. All women BNL employees or wives of employees are invited to attend.

Representatives from the Suffolk County Department of Parks, Recreation and Conservation, the Fire Island National Seashore Parks Commission, the Brookhaven Town Recreation Department, and the Audubon Society will be on hand to answer questions and distribute maps and literature about area parks and beaches. Exhibits of wild flowers, hydroponics (plants in liquid), wood carvings and oil painting will be featured.

Babysitting will be provided free at the gymnasium. Tea, coffee and sherry will be served with fresh vegetables and dips.



(From left) Vijay Francis, Vinay Krishna, and Max Bunce consider one of the possibilities presented by an assortment of wooden blocks.



Teacher Polly Carroll explains to her students how each child will bake an individual loaf of bread in one of the small cans that serve as baking tins.



About half way through a flexible obstacle course, Gregory Miltenberger flashes a confident smile before he enters a tunnel.

Doug Humphrey

Bicycling

The 9th Annual BNL Spring Bicycle Race will be Sunday, May 31. The two-lap 32 mile, bunch-start event starts at 9 a.m. at the BNL North Gate on Wm. Floyd Parkway, and the single-lap 16 mile time trials start at 9:15 a.m. Registration begins at 8:15 a.m. Previous drafting experience (tail-gating, not mechanical drafting) is desirable for the bunch start event, but anyone can enter the time trials. Protective head gear is required for both events. The entrance fee is \$1.50. For additional info call Gerry, Ext. 4841.

Volunteers to assist with registration and timing are needed.

Bowling

Green League

The Light Source continued their winning way as they downed the Sparks eight to three. The Blue Jays downed the Old Timers II seven to four. N. Parrinello had a 232, 590 series. The Pinball Wizards playing against the Trouble Shooters took them for eight points. T. Prach had games of 200, 204, for a 580 series. The Phoubars could only take three from the Freon Loaders.

Pink League

The Lickety Splits won both halves and are Pink League Champs. Congratulations to Mary-Grace Meier, Marie Grahn, April Donegan and Helen Keeley.

Good series by Helen Keeley 181/502, Deb Johnson 184/491 and Ellie Kristiansen 188/478. High games by Karen Alberico 174, Fran Scesny 164, Carol Beckner 164, Jeannette Thiede 159, Mary-Grace Meier 158, Madeline Windsor 152, Millie Connelly 152, Audrey Blake 148, Fran Briening 143, Ann Parrinello 142 and Maria Apelskog 142.

Sweepstakes winners were Fran Scesny 620 gross, Ellie Kristiansen 619 gross and Helen Keeley 619 gross.

Theater Group

The next meeting of the BERA Theater Group will be Monday, May 18, at 8 p.m. in the North Room of the Center. The program for the evening will be a reading from *Death of a Salesman*, by Arthur Miller. For further information call Liz Russell, Ext. 3940.

Red League

The Strangers (3105) took the Sandbaggers (3045) 11-0 in a great match. R. Jones (215) grossed 669, W. Vanzwienen (204-202) grossed 668. Other gross wood, V. Scotto 632, R. Meier 617, C. Bohlenblusch 616, R. Taylor 609, F. Pond 606. The 76'ers won 11-0 over the Old Timers. J. Roesler (210) 633 Gr., R. Larsen (202) 621 Gr., J. Connelly, 204, J. Petro 621 gross.

The Freon Loaders topped the Phoubars 11-0. R. Marlow (201) grossed 668 and L. Schairer 610. The Designers bested ISA Team 7-4. M. Iarocci (203-225) 621 gross, E. Sperry IV (212) 612 Gr., J. Ferrante (200) 600 Gr., J. D'Ambra 601 Gross.

Congrats to the sweep winners - R. Jones, R. Marlow, W. Vanzwienen and M. Iarocci.

Purple & White League

The Gropers won 1st place in the 2nd half - high games were bowled by Sharon Smith 184/188, Gail Schuman 178/197, Ken Asselta 190/180, Gene Hassell 189. Al Pinelli rolled the high series for the night - 631 games of 197/218/191 - 626. Other good games this week Bob Brown 212, Larry Musso 209, Joe Sheehan 209, Gerrie Riker 189/192, Caryl MacDougall 189, Jeanne Penoyar 184, Pat Manzella 182.

Mountain Club

The Mountain Club is planning a hike up Slide Mountain in the Catskills on Memorial Day weekend. Anyone interested in going should contact Dave Crowther on Ext. 3403.

Cafeteria Menu

Week Ending May 22, 1981

Monday, May 18

Cream of tomato soup	(cup) .55
	(bowl) .65
Salisbury steak & 1 veg.	1.60
Cheese omelette & hash browns	1.50
Hot Deli - Roasted turkey breast	(on bread) 1.65
	(on roll) 1.75

Tuesday, May 19

Philadelphia pepper pot soup	(cup) .55
	(bowl) .65
Stuffed cabbage & 1 veg.	1.60
Pork chop suey on rice	1.60
Hot Deli - Italian meatball hero	1.70

Wednesday, May 20

Beef noodle soup	(cup) .55
	(bowl) .65
Irish stew w/noodles	1.60
Roasted port loin & 1 veg.	1.65
Hot Deli - Reuben	1.60

Thursday, May 21

Pork & cabbage soup	(cup) .55
	(bowl) .65
Southern fried chicken w/stuffing	1.55
Beef & fried rice w/1 veg.	1.55
Hot Deli - Roast beef	(on bread) 1.65
	(on roll) 1.75

Friday, May 22

New England clam chowder	(cup) .60
	(bowl) .70
Breaded pork chops w/applesauce & 1 veg.	1.65
Shells w/white clam sauce & garlic bread	1.50
Hot Deli - Fried fillet hero	1.65

Camera Club

The next meeting of the Camera Club will be Thursday, May 21 at 5:30 p.m. in the Recreation Bldg. lounge. Photos for the employees' exhibit should be submitted at this time.

The Employees' Photo Exhibit is scheduled for June 1-5 at Berkner Hall, Room C. To enter a photo, either bring it to the meeting or contact Lew Jacobson, Ext. 5193, or Ripp Bowman, Ext. 4672, before then. Exhibit photos should be mounted and framed and can be either color or black and white, 8x10 or larger.

Runners Corner

The BNL Roadrunners will hold the Annual Spring Race for distances of 5 km and 15 km on site on Sunday, May 17. Registration will end at 9:30 a.m. so the races can be under way at 10:00 a.m. Entry fees at the race are \$2 for adults, \$1.50 for children 15 and under. For more information call Jeanne Penoyar, Ext. 2614.

Five mile road running race, to be held on Weeple (We The People) Day, Sunday, May 31, at the Belle Terre Village Community Center, 55 Cliff Road, Port Jefferson, NY 11777 (Box 112), 516-473-2594. Registration on race day at the Belle Terre Community Center, \$2.00, from 8:00 to 9:00 a.m. All ages; male and female. Also team races. Winning time last year 24:48. Start and finish at the Community Center.

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.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex or handicap.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listing 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, as indicated below. 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.

LABORATORY RECRUITMENT: Opportunities for present Laboratory employees.

1582. ADMINISTRATIVE ASSISTANT - Office of the Laboratory Director. Wide range of duties includes secretarial functions and extensive contact with both internal BNL staff and outside officials. Requires minimum two years of college or equivalent; excellent oral and written communications skills; and substantial relevant Laboratory work experience at a responsible level. Interested applicants should contact Susan Foster, Personnel Office, Ext. 2888.

OPEN RECRUITMENT: Opportunities for present Laboratory employees and outside applicants.

1583. REACTOR STANDARDS PROJECT ENGINEER - BS or equivalent required. Should have reactor operating experience or experience in the design, modification, and installation of nuclear systems plus experience in the application of nuclear standards and codes (ANS, ASME, ANSI, IEEE, RDT), Regulatory Guides, and Regulations. Requires excellent technical writing skills. Reactor Division.

Autos & Auto Supplies

73 MAZDA RX-2 - runs well, new engine, body fair, am/fm, radials, snows, a/t, 6 wheels. \$850. 924-0030.

67 CHEVY - Van, rebuilt '70 motor, std shift, 2 gas tanks, insulated, paneled, sink, ice box, louvered windows, set up for camping, good cond. \$950. Bill, 698-4882.

70 CHEVY - wgn, p/b, p/s, am/fm, a/c, low mileage, excel. Peter, Ext. 4004 or 286-0934 after 6 p.m.

71 FORD TORINO - sta. wgn, 4 excel tires, extra rims, runs excel. \$425. Charlie, Ext. 3950 or 878-1540.

73 CUTLASS - Supreme, 4 dr. V8, am/fm 8 trk, p/s, p/b, a/c, 55,000 mi, 17 MPG, must sell. Linda, Ext. 4263.

69 FORD - Fairlane, 6 cyl, clean, good running cond. \$300. Ext. 2881 or 286-3372.

75 FORD F-250 CAMPER - Special Pick-up Truck w/10 1/2' Hornet Camper slide-on, self-contained, many extras. Will sell camper separately. 929-4840.

VW - runs, body fair, broken axle, good for parts. 821-9596 after 6 p.m.

PARTS - to a '75 Chevy Van, radiator, driveshaft, battery, 40 gal. gas tank, a/t. Lou, Ext. 4087.

MINI BIKE - new 3.5 HP engine, new clutch, and brake. \$150. Vince, Ext. 4660.

HOLLEY 600 CFM - 4 barrrell carb., B+M Ratchet shifter, (2) 14x7 Ansen aluminum slot wheels, 10 bolt Chevy rear. Charley, 475-8632.

NEW TIRE - Firestone Deluxe Champion belted b/w (C78-14), \$30; very good rim from Maverick, \$10. Both for \$35. Ext. 4054.

TIRES - (4) mounted on C-10 Chevy Pick up rims, LR70-15, Firestone steel belted radials, 7 ply. \$130. Jim, 289-0876.

76 MAVERICK - a/t, a/c, 6 cyl, good MPG, low mileage, new tires, excel cond. Gerry, Ext. 4460/4471.

79 SUZUKI - RM125, excel cond. \$675. or best offer. 929-3346 after 5 p.m.

76 GRANADA - immaculate cond, std. trans, 24-28 MPG, economical. \$2,650. Lou, Ext. 4615.

NEW TIRE - Michelin w/w on GM wheel, balanced, 225x15 (JR78-15) orig. \$95. Now, \$50. or best offer. Alyce, Ext. 5203.

20' PROWLER TRAVEL TRAILER - full bath, refrig, gas/elec, 4 burner stove/oven, mint cond. \$4,000. 732-6334 after 5:30 p.m.

76 VOLARE - 4 spd trans, p/s, a/c, am/fm stereo, a/c, fold down rear seat, good cond. 286-1214.

69 VOLVO 144 - white, a/t, 83,000 mi, radials, good cond. all around. 281-8318 eves.

77 TRANS AM - TA 6.6, 4 spd, am/fm stereo 8 trk, new T/A radials, excel. \$4,900. Mike, Ext. 3434.

72 VW - Squareback, a/t, excel cond, many new parts, orig. owner. \$2000. Ron, Ext. 4449 or 751-8403 eves.

73 PLYMOUTH SATELLITE - needs some body work, fair running cond. \$350. Barbara, 473-8060 after 6 p.m.

TIRES - (2) w/w G78-15, 4 ply Polyester, like new. \$40. Sal, Ext. 2434 or 473-2861.

70 TOYOTA - left front collision, rebuilt engine, new parts, no rust; camper shell, fiberglass like new, cab, high, white. Ralph, Ext. 2368 or 928-6654.

77 MGB - conv, 42,000 mi, wire wheels, Tonneau, excel cond. \$4,700. 878-4293 eves.

77 MALIBU - wgn, p/s, p/b, p/w, a/c, perfect cond, 45,000 orig. miles. Ext. 3311.

73 FIREBIRD - Esprit, 352V, 3 spd, a/t, p/s, p/b, a/c. \$2,000. 878-8933.

74 CHEVY - Malibu, a/t, p/s, p/b, good running cond, am/fm stereo, reg. gas. \$1,200. 654-5169 after 5 p.m.

75 TOYOTA - Corolla Deluxe, 2 dr, 4 spd, radials, am/fm, reg. gas, 30 MPG, good cond. \$2000. Mike, 732-5454.

ELECT. ANTENNA - \$10; chrome west coast style mirrors, \$15. set of 2. Paul, Ext. 4665 or 727-4859.

75 VIKING - hardtop Pop-up, sleeps 8, gas stove/heater, AC/DC converter. 325-1961.

66 FORD - Country Squire Wgn, one owner, in excel cond. \$600; '64 Chevy - Malibu, new engine, brakes, shocks, tires, master cylinder. \$500. Lou, Ext. 4113.

73 VW - Type III Sq. bk, 4 spd, excel cond, high MPG, recent motor job & clutch, new brakes. \$1,950. Muller, Ext. 3057 or 878-0357.

RACING SLICKS - on Chevy rims, \$50; Crager s/s Mags, 2 front, 2 slicks. \$100. or best offer. Diane, 878-1630.

77 F150 TAILGATE - tan, new, \$50; 1970 set Ford car manuals. \$5. Art. Ext. 4819.

70 OLDS 88 CONV. - needs rear window, asking \$500. 589-4883 after 6 p.m.

80 CHEVY - Citation, 4 spd, 4 cyl, p/s, p/b, tilt wheel, am/fm cassette stereo, 11,000. Asking \$5,400. Larry, 281-7032.

75 HONDA - XL 100, good running cond. \$350. Carl, Ext. 4666.

76 PLYMOUTH - Sport Fury, p/s, p/b, a/c, a/t, white w/vinyl top. \$1,850. 475-0532.

79 TOYOTA - Celica, p/s, a/c, stereo. \$5,800. Ext. 7785.

76 AMF SCAMPER - motor home, 22', CB am/fm, 17,000 mi, rear-bath, 3 way frig, p/s, p/b, a/c, a/t, \$10,500. Jim, Ext. 4040 or 289-0876.

2 BARREL CARB - and manifold, 4 barrel carb and manifold, 350 block and heads, brand new 390 gears for 12 bolt. Charley, 475-8632.

77 YAMAHA - 360cc, elect. start, lug, rack, blue, 7,500 mi, like new. \$995. John, Ext. 4185 or 929-8204.

Boats & Marine Supplies

15' FIBERGLASS - w/trailer, plus 12 gal. gas tank, no motor. \$350. Ext. 2964.

1979 - 25'6" MAKO - center console, twin 140s, equipped for serious offshore fisherman. \$18,500. Ken, 744-3849.

SEARS 7 1/2 HP - outboard, \$125. Victor, Ext. 3357 or 758-9268 eves.

1977 - 17 1/2' INVADER - 85 HP Mercury w/power trim, many extras. Asking \$4,000. 286-0372.

10 LATEST TYPE - Safety fishing Gaffs, all metal, 3 ft. \$18.00. Call Tony, 732-3338..

OARS - 1 pair 6 1/2 ft. long, good cond. \$10. Artie, Ext. 7632/2957.

2 BURNER STOVE - alcohol, gimbalbed, counter top style, tank incl. Hardly used. \$100. Ext. 4147 or 289-5235.

16' ALUMINUM MIRRO CRAFT - 28 HP Evinrude, galvanized trailer. \$900. w/controls. Dennis, Ext. 2897 or 727-7278.

1978 MERCURY OUTBOARD - long shaft manual stainless steel prop. \$950. 286-3335 after 6 p.m.

14' CHRYSLER FIBERGLASS - 35 HP, 1975 w/trailer, elect. start, speedometer, extras. \$1,295. Bill, Ext. 2906 or 929-6189 very good cond.

CANOE - Grumman 18' flatback, good cond. Ken, Ext. 4514 or 289-8212.

12' ALUMINUM BOAT - w/oars, locks & 7 1/2 motor. \$350. or make offer. Ext. 7148 or 363-2522.

Yard Sales

YARD SALE - May 15 & 16th, 10 a.m. to 4 p.m., #269 Phyllis Dr., Patchogue.

MOVING SALE - must dispose of 3,000 LP albums (Jazz, Big Bands, popular Vocalists, & much more). Will sell in bulk or separate. \$1.00/album. Multiple sets higher. All new cond. 289-2116 after 6 p.m.

Miscellaneous

FONDUES - still in boxes, (1) electric, (1) candle. \$5. ea. Pete, Ext. 4782 or 289-7218.

FAMILY CAMPING TENT - 9'x11', umbrella style w/outside aluminum frame, good cond. \$25. Fred, Ext. 2057 or 261-5735.

RANGE - 36" bottled gas, auto timer & oven light, excel cond. \$100. 732-6334 after 5:30 p.m.

TV - 23" Color Zenith, portable w/cart, needs work. \$75. Good for Atari games; turntable, Dual Model #1019 w/new Shure cartridge. 78, 45, 33 rpm. \$50. Alyce, Ext. 5203.

SUGAR BABIES - Four (4) Tickets, 4th row center orchestra, 6/9/81, 8:00 p.m. \$75. Cost \$100. Tom, 751-4048.

DOOR - exterior, new 2'8"x6'8"x1 1/4"; 3 windows R pre-hung Fir, \$110. 924-6582.

AIR COND - window type, Fedders 115 VAC, 11.4 amps, 12,000 BTU. \$50. U-Pick up. 27" w x 20.5" d x 16.5" h. Nick, Ext. 3458.

HOT TUB - 6'x6' excel cond, 1 yr old, \$1,250; old records, \$1.00 ea; table mats (oval w/2 leaves) \$25. Lawrence, Ext. 4107 or Kevin, 567-1348 eves.

SEWING MACHINE - Singer Athena 2000, new w/cabinet, \$800. Marge, 286-0742 after 6 p.m.

VITAMINS - Diet plans, food supplements, Bio-degradable cleaning aids. Catalogs available. Carl, Ext. 4680 or 281-7627 after 5 p.m.

CARPET - never used, wall to wall, excel quality, w/thermo pad. Salmon - pink, 12'x15', 9'x11' area. Jim, Ext. 3501 or 751-0476.

ASSORTED STUFFED ANIMALS - for sale, reasonable; hand-made dolls. 732-3338.

WOOD STOVE - Lange Model #6302A, cast iron v/eff. will demonstrate and deliver. 283-0475 after 5 p.m.

TELETYPE - Model 14 typing Reperf and 14 TD w/table for Mod 19 printer, 60 WPM works well. \$50. Alan, Ext. 2928 or 821-0761.

HAM TRANSMITTER - SB400 RF Speech Processor, new tubes, perfect cond, good DX. Ext. 3311.

PICCOLO - Armstrong, silver head, silver plated body, 5 yrs. old, excel cond. \$250. Ext. 4230 or 472-0299.

POLICE SCANNER/RECEIVER - 16 Channel including antenna, \$350. Firm. Sells for \$400. Ext. 4512.

PUPPIES - adorable golden retrievers, pure bred pups. Available mid June. Tom, 757-2178 early eves.

HUTCH - Knotty pine, \$250; Cast iron Sears stove, \$225; DK pine Cobbler Bench, \$75. 744-6063.

AIR COND - Frigidaire, 5,000 BTU 7.5 amps, almost new, used 1/2 season. \$60. Mike, Ext. 7941.

STEREO RECEIVER - Realistic 25 watts, 1 yr. old, \$90; Wicker dressing table, \$5; Built-Rite baby carriage, \$15. 732-0203.

PIANO - Baby Grand, Mahogany, good cond. Asking \$950. 473-3777 after 5 p.m.

KITCHEN RANGE - wood/coal/gas, white enamel, best offer; SCM-800 electric adding machine; electric knife. 325-1961.

FORD CULTIVATOR - 3 point Hitch, \$150; Evergreen - Fir & Spruce trees, U-dig, 20"-40", 2 for \$7. 727-1617.

POOL - 16'x4' round, above ground, filter, ladder & access. \$395. Complete. Linda, Ext. 5141.

LAWN MOWER - self propelled, runs well, needs muffler. Dick, Ext. 2030.

BUNDY FLUTE - good cond. Asking \$100. 473-9275.

FISH TANK - 100 gal. complete set up, gravel, rocks, plants, filter, light, stand, etc. \$90. Firm. Ext. 2024/2021.

PILLOW FURNITURE - sofa 8 ft. \$200; chair, 40", \$75; Butcher Block table, 36"x60", \$190. 744-5161.

BROILER OVEN - Toastmaster, Deluxe. Asking \$40; C.B. Cobra-29 SWR power of Mod F.S. Meyer plus power mike M+3. \$125. 399-4822.

ANTIQUe - full size brass bed, headboard & footboard, excel cond. Carol, Ext. 3341 or 281-3567 after 5:30 p.m.

INDOOR/OUTDOOR - water fountain stand, pump, flowers, stone, perfect cond. \$165. or best offer; Contemp. Colonial bedroom set, 2 nite tables; 2 twin beds, triple dr., armoire, etc; dark walnut, must see. \$500. or best offer. Diane, 878-1630.

2-METER FM - Yaesu FT-227R Memorizer, 10 watt synthesized transceiver w/PL, \$200. Alan, Ext. 2928 or 821-0761.

HIDE-A-BED - sofa, Simmons, 72", excel cond. \$100. Ext. 3334.

POST BOX SPRINGS - extra firm, \$30; Eveready battery charger, brand new. Dalal, Ext. 7790.

PROM GOWNS - (1) white, size 11, \$20; (1) blue, size 9-10, \$20; also, Kirby vacuum, complete w/all attachments, excel cond, \$90. 744-2766.

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

MANORVILLE - Colonial 10 rms, 10 acres, barn, swimming pool, burglar alarm, fp, central vacuum. 878-8251.

BELLPORT VILLAGE - 4 bdrm high ranch, l/r, f/r, eik, appliances, large deck, 1 1/2 bath, short walk to schools, tennis, golf. Will hold first mortg. \$43,000. 286-8166 after 5 or Ext. 3502.

YAPHANK - ranch, lakefront acre, 3 bdrms, eik, l/r, d/r, den, fp, fin bsmt, garage, deck, shed, circular driveway, landscaped. \$72,000. 862-6259 after 6 p.m.

SHOREHAM - north of 25 A, 25 yr. old Cape in established neighborhood, 3 bdrms, study, fin. bsmt, garage, 1/3 acre, priv. beach rights. Owner financing avail. \$52,500. 744-5801.

RIVERHEAD AREA - mobile home 10x50, 1 bdrm, stove, refrig, washer/dryer, tool shed, covered patio. \$8,000. Ext. 3485.

NORTH REMSENBURG - custom Cape, over 1/2 acre, fenced, 2 wells, pool, full landscape, full bsmt, low taxes, all appliances, good school. Asking \$85,000. 325-8193.

EAST MORICHES - custom built 5 bdrms, 2 1/2 baths, kit, d/r, eating area. l/r with fp, den with fp, 2 porches, full bsmt w/fg, garage, fully landscaped, 1 acre land, fruit trees, blue spruce, etc, slate patio, beach & marina rights, 7 1/2% interest. Job transfer, sacrifice. \$85,000. 878-1630.

MEDFORD - 1/3 acre, Cape, 4-5 bdrms, 2 baths, den w/fg, l/r with coal stove, large eik, formal d/r, 18x36 in ground pool, assumable mortg. \$43,900. Jack, Ext. 4254 or 289-6708.

SHOREHAM - 2 story, 4 bdrm Clarendon colonial, (2) baths, l/r w/fg, d/r, dinette, kitchen and mud room w/two-stall garage on .45 acre lot. Deeded beach rights. 744-2766

For Rent

BERKSHIRES CHALET - 3 hrs. from NYC, 3 bdrms, 2 baths, fully equipped kit, elect. heat, deck w/spec. view, near lake, hiking trails, near ski areas, cross-country skiing on property, 1/2 hr from Tanglewood Theatre. 929-6946 after 6 p.m.

NORTH SHIRLEY - almost new 3 bdrm house w/full bsmt & garage, only 4 mi. from Lab. \$350/mo. + util. 215-866-8497.

CENTER MORICHES - share large apt. Util. incl. Ext. 3376.

BELLPORT VILLAGE - 4 bdrm high ranch, l/r, f/r, large eik, deck, 1 1/2 bath. Unfurn. but w/most appliances. \$450/mo. 286-8166 after 5 or Ext. 3502.

VERMONT CHALET - beautifully furn; stone fp, wkly rentals, woodland trails; pond & lake, swimming, boating, fishing, nearby Alpine Slide, antiques, music festivals, theater, tennis, golf. 757-5599 after 4 p.m.

MIDDLE ISLAND - furn. room(s), 12 min. from Lab, a block from Spring Lake Golf Course, priv. entr, includes: util, refrig, washer/dryer; cooking facil. can be arranged. 924-7972.

ROCKY POINT - 5 1/2 rm. apt, 3 bdrms, fenced yard, no pets. \$325/mo. + util. 744-3406 or 821-1487.

E. PATCHOGUE - 2 1/2 rm grd floor, priv. ent, full bath, all util, on the water. \$275/mo. 475-4930.

Wanted

CUSTOMERS - for Bellport Methodist Church, Thrift Shop, South Country Rd. Tues. thru Sat. 10 a.m. - 4 p.m.

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

WHEELS - (2) for Biltrite baby carriage, Dennis, Ext. 4259 or 736-2534.

USED FARM EQUIPMENT - med. size flat-bed trucks, tractors, & any other equip. 722-4144 after 6 p.m.

WHEELS & TIRES - to fit 6 lug, Chevy truck or Blazer. Charley, 475-8632.

ROOMMATE - to share large house, own room, bath. Marge, 286-0742 after 6 p.m.

HEMLOCK - small to medium plants, to grow as hedge. Jan, 744-7587.

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

FORM - Ferguson tractor w/bucket and brush hog. Call anytime, 654-2970.

CAGE - for small parrot. Ext. 4061.

HOUSE - 3/4 bdrms, to rent 1 yr. beginning Sept. Visiting scientist and family. Ext. 3786.

RECREATION VEHICLE - I need to rent a recr. vehicle for month of July. Ext. 4704 or 928-1124.

VOLUNTEERS - to perform at children's fair, Kids-R-U's, Day Care Center. Ext. 7709 or 286-8972.

VW VAN - in good cond. Lou, Ext. 4113.

BOY'S BIKE - 20"; old-old tennis balls. Liz, Ext. 2082.

RETIRES!!! - Don't stay idle. Earn money. Unlimited Potential. Call Carl, Ext. 4680 or 281-7627 after 5 p.m.

VENDORS - for Church fair on May 30. Ext. 4463.

Car Pools

PATCHOGUE - to Lab via So. county Rd., on-time, room for paying rider, 9 yrs. reliable service. Alyce, Ext. 5203.

QUEENS - 4th member needed for car pool from Queens. Tony, Ext. 3749.

MASSAPEQUA/FARMINGDALE - Points West meet off exit 32 Southern State Pkwy. Plotkin, Ext. 4717.

PATCHOGUE - 2 vacancies (driver/rider) in 5 person on-time car pool. John, Ext. 4615 or 475-6981.

E. SETAUKET/PT. JEFFERSON - close to 25A, need 5th member. Jag or Bob, Ext. 7790.

BABYLON/W. ISLIP - driver needed for on-time car pool, 8:30 - 5:00. M