

Focus On The Northeast

The conclusion of the Northeast Energy Perspectives Study, conducted at Brookhaven, is that unless concerted action is taken at both the federal and state levels, the energy future of the Northeast will remain precarious. No single element will be enough to reduce this region's dependence on foreign oil, and regional collaboration in creating acceptable energy systems will be a necessity.

As a follow-up to this conclusion, the formation of a state advisory committee for Northeast Regional Energy Studies was announced at the last session of the "Northeast Energy Perspectives" conference held at Brookhaven March 16 and 17. The governor of each state in the region will be asked to appoint a representative to this committee. Included are the New England States, New York, New Jersey, Pennsylvania, Maryland, Delaware and the District of Columbia.

More than 100 members of the region's state governments, representatives of industry and other groups concerned with energy planning in the northeast area, heard James L. Liverman, Assistant Administrator for Environment and Safety, ERDA, emphasize the importance of a regional approach to energy. He said that this program would act as a mechanism to



Dr. James L. Liverman (left), Assistant Administrator for Environment and Safety, ERDA, who addressed the meeting and Philip Palmedo, Head of the Policy Analysis Division in DAS.

provide input into ERDA planning which would be sensitive to state needs. He also announced a new program in ERDA for environmental policy analysis which will involve Brookhaven as well as other national laboratories.

The meeting was held to explore the implications of the Energy Perspective Study carried out by the Policy Analysis Division of DAS, under the direction of Philip Palmedo. Using a scenario approach, studies were made of long term energy supply and demand in the region. Increasingly, states seek to use their resources in a way most beneficial to their economies and the environment. On the demand side, a number of energy conservation practices were considered in the construction of future regional energy demands.

The study projects an 80 percent increase in demand for fuels in the Northeast and a 100 percent increase in energy resource requirements between 1972 and 2000 if current trends in population, economic growth, energy use and policies continue. This will produce a level of resource requirements of approximately 30 Quads (quadrillion Btu) in 2000.

If no new policy initiatives are undertaken, imported oil requirements are likely to double by the year 2000, that is, to 12 Quads. The study also estimates that about one-third of U.S. resources used by the Northeast at the turn of the century will be supplied by coal and nuclear power.

Coupled with higher than expected crude oil discoveries, a strong U.S. effort to produce synthetic liquids from coal, to develop oil shale resources and enhanced recovery

(Continued on page 2)



The truck delivering the spent fuel elements departs from the Laboratory on its two-day journey, by land and sea, to the reprocessing plant in South Carolina.

Journey Over Land And Sea

For more than 20 years a truck with a steel cask securely cabled to it has been leaving the Laboratory without fanfare, but on March 15th its departure was a public event.

Escorted by a motorcycle policeman and a Suffolk County Police emergency vehicle, the truck started promptly at 10 a.m. on its journey to Orient Point where it would board the 12:30 p.m. ferry to New London, Connecticut. Newspaper photographers chronicled its departure. The truck's only cargo was a steel and lead shipping container enclosing 14 spent fuel elements from the High Flux Beam Reactor en route to the Savannah River Reprocessing Plant at Aiken, South Carolina. This was to be its maiden voyage by this particular route.

On its arrival at Orient Point, it was met by protesters opposing the use of the passenger ferry for this shipment. About a dozen people showed up with leaflets and placards inscribed with such messages as "Don't Ride the Nuclear Ferry." Citizens on their way to New London were handed leaflets and urged not to go over. Before boarding, the ferry ticket office advised each passenger that this ferry would be carrying radioactive material. It was learned later that no passengers cancelled their trip.

The passengers on board the ferry did not seem unduly perturbed by the presence of the truck. Some said they did not know much about nuclear power and listened with interest to reporters' questions to Laboratory and ERDA officials.

When the ferry arrived in New London at 2 p.m., there were more reporters and photographers, police, a delegation of city officials and more protesters. The last group was objecting to the transport of the ship-

ment through Connecticut on the grounds that "if it's not good enough for New York, it's not good enough for Connecticut."

The police escort, the reporters and photographers and protesters were all on hand because in the last few months the cargo had become a focus of attention in New York and Connecticut.

On January 15, 1976, the New York City Board of Health banned the transport of most radioactive materials through the city, the route the Laboratory has been using since the start-up of the Brookhaven Graphite Research Reactor in the early 1950's. The ban does not prohibit the transport of radioactive materials for medical purposes, or for the use of the United States Government for defense or national security purposes. The prohibition, which will severely affect Brookhaven's reactor research programs, is now under litigation in U.S. District Court of Southern New York.

Because of the ban, no spent fuel elements have been shipped from Brookhaven since early September 1975. As the only other available way to get the fuel elements off Long Island, the Laboratory made the appropriate arrangements to ship them via the ferry to New London, then to I 95, to the Merritt Parkway, to Route 8, to I 84, to Route 209 Pennsylvania and south to the Savannah River plant.

Early notification was given to officials of Suffolk County, New London and the State of Connecticut. Since the newspaper announcement last week of the new route, concern was voiced by both Connecticut government officials and citizens groups. Congressman Christopher J. Dodd of Connecticut's 2nd C.D., together with New London City Manager Francis Driscoll and

Connecticut State Commissioner Lynn A. Brooks, of the Department of Planning and Energy Policy, visited Brookhaven, at the Laboratory's invitation, to see for themselves the procedures involved in the shipping of spent fuel elements.

Congressman Dodd at that time said he was satisfied with the safety of the cask, but had two requests. One was the addition of a second driver to the truck and the other, the provision of a police escort. The Laboratory agreed to provide a second driver for the shipment; the initial police escort was provided by Suffolk County; and subsequent police escorts by Riverhead Town, Southold Town, and Connecticut State Police.

One of the drivers, Wally Wawczak, has been hauling these materials for the Laboratory for 11 years. The other driver, Jerry Sitton, has not driven this particular cargo before but has driven other materials for Tri-State, the contractor for the fuel shipments. Wawczak said, "I'll sleep good Tuesday night," referring to the time when they should arrive in South Carolina and the pressure would be off. He is used to a less eventful trip.

The casks used for these shipments must meet the normal rigors of transit as well as extraordinary testing, for instance, a free drop from a height of 30 feet striking a flat, essentially unyielding surface in a position to effect maximum damage. It is also tested

(Continued on page 2)



Henry C. Grahn

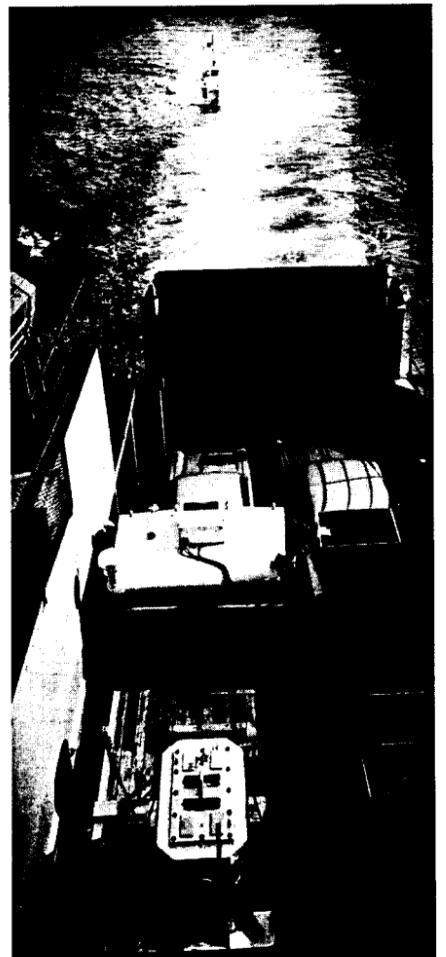
Grahn Appointed Assistant Director

Henry C. Grahn, Budget Officer of the Laboratory, will become Assistant Director for Financial Planning on April 1. In this post he will continue to have responsibility for the Budget Office and will also be in charge of the Administrative Data Processing Group, currently a part of the Department of Applied Mathematics.

Grahn has been Budget Officer since September 1969. In this capacity he works closely with the Director and is responsible for the preparation, submission, and control of the Laboratory's total budgets. He is also charged with long range financial planning, and the evaluating and recommending of improved budget procedures and practices.

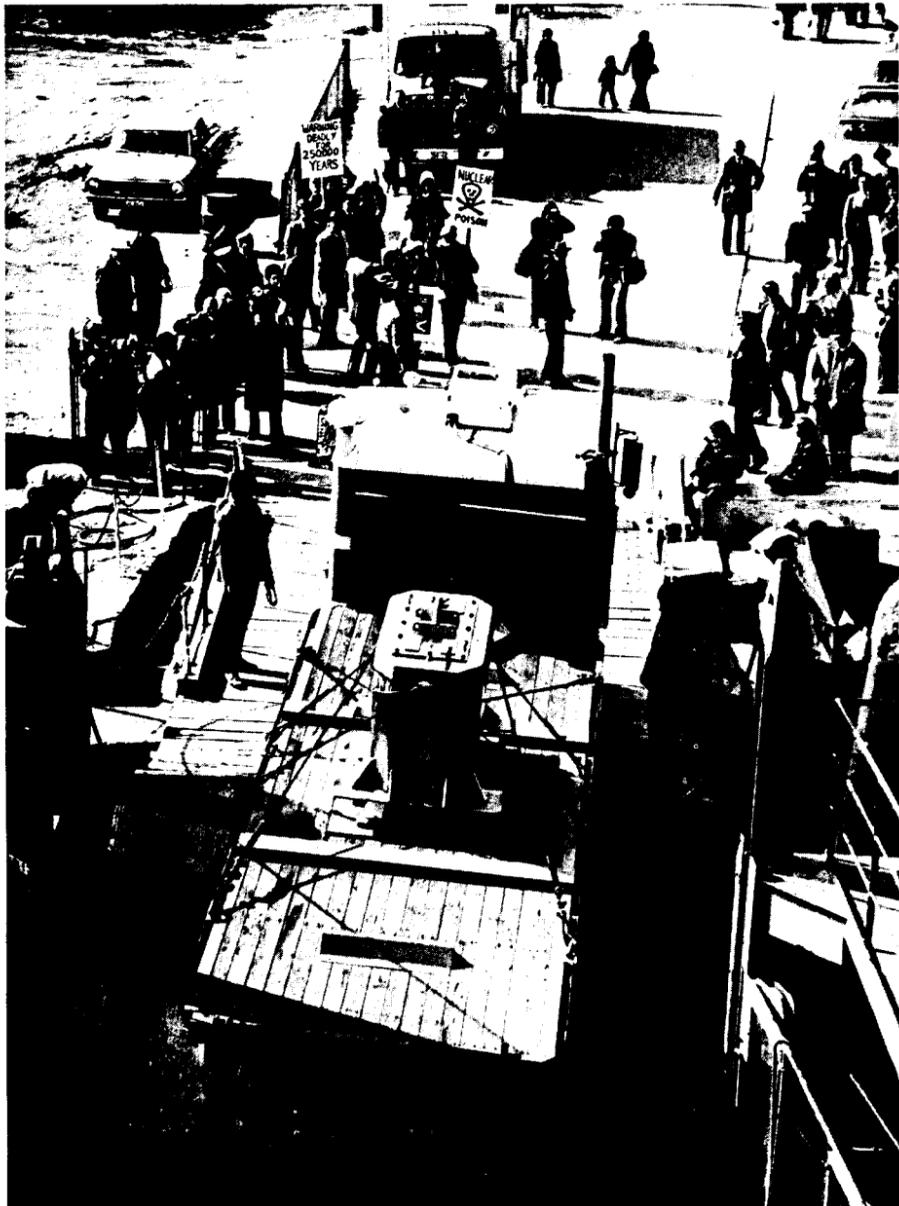
He joined the Laboratory in November 1958 and spent four years in the Fiscal Division before moving to the AUI Audit Staff. From 1965 to 1969 he was on the staff of the Physics Department, moving successively from Administrative Assistant to Budget Officer to Administrative Officer. Grahn graduated *magna cum laude* from Hofstra University with a BBA in Accounting.

He, his wife, Marie, and four children live in Miller Place.



The truck and its cargo berthed on the ferry, en route to New London, accompanied by a U.S. Coast Guard cutter.

A Maiden Voyage



Arrival in New London.

Fuel Shipment

(Continued)

to survive puncture, exposure to fire, and immersion in water.

The cask was checked for radiation before boarding the ferry and upon arrival in New London. The measured radiation level for this particular shipment at the surface of the cask was 1.5 millirem per hour. Many luminous wrist watches have a dose rate of about 1 millirem per hour at contact. The cask contained 114,000 curies of radioactivity and the outside surface temperature was 92.3°F.

When asked by reporters why the Laboratory did not charter a ferry for these shipments, instead of using the regular passenger ferry, David Schweller, Chief, Engineering Operations and Safety, of ERDA's Brookhaven Area Office said that to do so would imply that the cargo was dangerous, which it was not.

Accompanying the shipment in another car as far as the Connecticut State Line was R. Christian Anderson, Assistant Director

of the Laboratory; David Schweller; Marvin Laster, Counsel for the Brookhaven Area Office, ERDA; Gary Pitchford, Public Relations Assistant to the Manager of ERDA's Chicago Operations Office; and William R. Casey of the Laboratory's Safety and Environmental Protection Division.

Laboratory and ERDA officials have answered countless inquiries from the media and also appeared at citizens' group meetings and town board meetings before the shipment was made, in an attempt to assure them that Brookhaven was not foisting a dangerous on an unwary public.

This is the first of six planned shipments via New London. The date of the next shipment will depend on the scheduling of the reprocessing plant in South Carolina, but it is hoped they will leave on a regular basis. According to Schweller, the litigation concerning the New York City ban will probably be resolved this summer. The method of future shipments will depend on that ruling.

Official & Special Events

Monday, March 22
CSWEG Task Force Meeting
(March 22-26)

Wednesday, March 24
BNL Lecture - Berkner Hall - 8 p.m.
Manhattan College Physics Society Tour
ERDA Solar Heat Pumps, Systems & Component Review (March 24-25)

Friday, March 26
Finite Element Conference
(March 26-27)

Monday, March 29
Technology Workshop on Blanket/
Power-Systems for Fusion Reactors
Rm. A, B and C (March 29-April 2)
ERDA Brookhaven Power Transmission
Project Review

Arrivals & Departures

Arrivals

James R. Lemley Applied Science
Joseph Mead Plant Engrg.
Liliane Weinberg Applied Science

Departures

Vincent J. Garafola Plant Engrg.
Susan McCulley Applied Science

March Service Awards

The following employees will receive service awards during this month.

Twenty-Five Years

David A. McCutcheon Accelerator

Twenty Years

Arthur O. Anderson, Jr. Plant Engrg.
Barry G. Galen Applied Science
Steve J. Kelly Staff Services
Harold W. Marshall Biology
Henry F. Peters Mechanical Engrg.
Richard K. Stoehr Accelerator
Allen J. Weiss Applied Science

Ten Years

Diana C. Bartelt Biology
James H. Bell Central Shops
Mary H. Cox Medical
Dominick DeGuiseppe Plant Engrg.
James A. Goode Safety & Environ. Protec.
Frank Haibon Supply & Materiel
Ronald F. Lankshear Accelerator
Rolf J. Lindgren Plant Engrg.
Arthur E. Nelsen Supply & Materiel
Kenneth Wenger Plant Engrg.

Wanted: Craftspeople

The Hospitality Committee is looking for persons skilled in leather working, wood carving, and rug hooking. If you are interested in demonstrating these crafts at the Hospitality Committee's spring tea party, please contact Stephanie Morris, 981-8370.



David Schweller (right) Chief, Engineering Operations & Safety of ERDA's Brookhaven Area Office, answers press inquiries.



Protesters in New London oppose the transport of the spent fuel elements through Connecticut.

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on March 19 at 8 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.

Trip To New York City

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, April 7. Departure will be at 8:59 a.m. from the LIRR station in Patchogue. The round trip fare for adults is \$2.45; children under 6 years ride free.

Reserve a ticket by sending your fare to Rosemary Jewett, P.O. Box 322, Upton, N.Y. 11973 no later than April 1.

Conference on Northeast Energy Perspectives

(Continued)

techniques for conventional crude oil, could reduce Northeast imports by 4 Quads. "Moderate conservation" could reduce the need for imports by about 2 Quads and "strong conservation" by about 4 Quads (assuming constant supplies of liquid fuels to the region).

The study further indicates that if there is an effort made to shift some demands from the use of oil, to electricity and low Btu gas produced from coal, with moderate conservation, import requirements for 1985 and 2000 could be held at the 1972 level (6.5 Quads).

In addition to the estimates of crude oil and natural gas recoverable from fields in the Atlantic outer continental shelf and the projections of electricity production by nuclear power, the report discusses three

new energy resource technologies. Solar heating, cooling and hot water; wind power; and waste and refuse conversion to electricity and gas could all play a role in the Northeast by 2000.

On the last day of the conference, the participants separated into workshops on energy demand projections, electricity generation, oil and gas supply, and environmental impacts, to provide feedback from the states on the papers presented Tuesday.

The afternoon was devoted to a panel discussion among state representatives on energy policy issues from which conclusions and recommendations would be drawn.

Brookhaven staff presenting papers at the conference were Philip Palmedo, Richard Goettle, Joel Brainard, Harold Bronheim, Peter Meier and Harry Davitian.



Participants at the meeting (from left) Hugh Montgomery, Appalachia Regional Council and Albert Smigel, Chief of Economic Planning, Pennsylvania Governor's Office.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

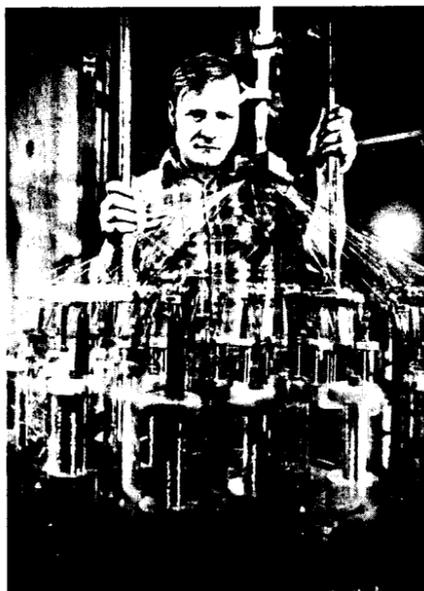
BERNICE PETERSEN, Editor
DOUG HUMPHREY, Photo-Journalist
CAROL GOLDSTEIN, Copy Preparation
40 Brookhaven Ave. Upton, N.Y. 11973
Telephone 516 345-2345
CARL R. THIEN, Public Relations Officer

Faces, Places

[As a continuing feature, the *Bulletin* plans to photograph employees at work in all parts of the Laboratory on an informal basis and at random.]



Ralph Brown is a Watch Supervisor, Experimental Area Operations, at the AGS. He coordinates the operation and repair of the experimental beam line apparatus with a team of two technicians. He also initially serves as Accelerator Dept. Emergency Coordinator for all emergencies in the experimental areas. Brown joined the Laboratory in 1962, is married and has six children.



Richard McCluskey is a technician on the ISABELLE project. He is one of the principal operators of the braiding machine for fabricating conductor for the magnets. The machine is capable of braiding 100 feet of 99-strands copper conductor per hour. McCluskey has been at the Laboratory for nine years, is married and has one daughter.

In Memoriam

It has been learned that H. Russell Cort, former Budget Officer of the Laboratory, died of a heart attack in Florida on March 12. Mr. Cort joined the Brookhaven staff in 1947 and retired June 30, 1966.

Piano Concert

On Sunday afternoon, March 28, the BERA Concert Group will present a piano concert by the sixteen year old pianist Stephen Month in Berkner Hall. The program, which will begin at 3:00 p.m., will include works by Beethoven, Rachmaninoff and Prokofieff.

Stephen is a student of Robert Harris at the Pre-College Division of the Juilliard School and was first prize winner in the Suffolk Symphony Orchestra 1975 competition. Forty entrants competed at that time. Last May he performed the Beethoven Second Piano Concerto twice with the orchestra. He has appeared in recital at Carnegie Hall, C. Michael Paul Hall (Juilliard School) and at the State University of New York at Stony Brook under the auspices of the Germain Pinault International Music Society. He has also performed on radio station WNYC.

Admission to the concert will be fifty cents to cover the cost of refreshments and other expenses.



Stephen Month

Cafeteria Menu

Week Ending March 26, 1976

Monday, March 22	
Tomato Vegetable Soup	
Keilbasy w/Sauerkraut	1.05
Grilled Ham Steak w/1 veg.	1.20
Tuesday, March 23	
Cream of Potato Soup	
Southern Fried Chicken w/1 veg.	1.10
Macaroni & Cheese w/1 veg.	1.00
Wednesday, March 24	
Beef Barley Soup	
Tuna Noodle Casserole	1.10
Special	
Tacos w/Re-fried Beans	
Choice of Pie or Ice Cream	
Cup of Soup	Small Beverage
\$1.68 plus tax	
Thursday, March 25	
Chicken Noodle Soup	
Chili Dogs & Rice	1.00
Salisbury Steak w/1 veg.	1.05
Friday, March 26	
New England Clam Chowder	
Broiled Filet w/1 veg.	1.10
Roast Sirloin of Beef w/1 veg.	1.25

BNL Lecture

"Hard Core Porphyrinography" will be the subject of a BNL Lecture to be delivered by Jack Fajer, Department of Applied Science, March 24 at 8:00 p.m. in Berkner Hall.

One Day Closing Of Pool/Gym Complex

Starting at 8:00 a.m., Tuesday, March 23, and extending to 11:00 a.m. Wednesday, March 24, the swimming pool, gymnasium, exercise rooms, locker rooms and shower rooms will be closed for general maintenance work.

Hockey Play-off Tickets

The New York Islanders will be going into the Stanley Cup Play-offs and BERA has purchased 4 tickets for each home game; six if needed.

As was announced at the beginning of the season, all employees who bought tickets through BERA during the year and have put their names in the Play-off/Championship box in the Sales & Services Office will be given the opportunity, by a drawing, to buy these much sought after tickets.

These tickets are for the same location as the season seats and are priced at \$11.50 each.

The drawing will be held at the BERA Sales & Services Office next Wednesday, March 24, at 12:15 p.m.

Soccer

John Skalyo

The competition for league honors ended for AGS this week with a double loss; AGS now assumes the role of spoiler with just two more weeks left in the season.

PHS-AMD-INST obtained goals from Cox and Murtagh to win (2-0) against AGS; while DAS-CHEM-MED needed two goals from Bottcher to offset an AGS goal by A. Levine (2-1).

The final game of the evening was hard fought and DAS-CHEM-MED needed a victory over PHS-AMD-INST. The latter were unable to clear the ball from in front of the goal area when Meyers kicked the ball through a scramble of players for a 1-0 victory for DAS-CHEM-MED.

DAS-CHEM-MED lost their last game on February 5. Can they keep it together these last two weeks or are they merely another Cinderella team?

The outdoor season starts tomorrow, March 20, at the St. John's University home grounds. Anyone wishing to play should contact Ralph Fairchild, 3649.

	League Results (March 12, inclusive)			
	W	L	T	Pts.
PHY-AMD-INST	14	9	8	36
DAS-CHEM-MED	13	12	7	33
AGS	12	18	1	25

Bowling News

Cathy Van Noy

Pink League

The "Pinsplitters" are still in the lead by 4 points with the "Spares" and "Fiscal Assets" tied for second place. High games for the evening were Pat Oster 192, Marge Stoeckel 158-163-168-489, Renie Rosati 158, Helen Keeley 155-158, Marie Brenner 154, Kay Conkling 153, Mary German 153 and Lindora Boyd 150.

Black N Blue League

"Congrats" to Laura Genovese on winning her club award with a 672 gross series. High games were Dick Murgatroyd 214, John Eriksen 213, Fred Hohmass 211, John Ferrero 205, Laura Genovese 180, Diane Schug 180, Ellie Murgatroyd 178-162. High gross pots were won by John Eriksen 251 and Laura Genovese 246.

Red League

The "Old Timers" showed a great team effort with a pinfall of 3133. Ralph Nelson helped with a 210 which raised his average to 176. 200 games were J. Roesler 224-214, E. Gill 222, J. Ferrero 216, J. Petro 213, W. Reams 209, E. Sperry 208, W. Kollmer 202-201 and T. Prach 200.

Green League

The "Got-A-Hit-Ums" edged the "Sandbaggers" for six points to stay in first place. The "Super Cools" holding close to second by taking seven. Carl Gardner won his club award with a 233 scratch and 685 gross. B. Belligan 208. The "Charley Browns" held off the "Neutrons" for seven points. The "Phoubars" held on to fourth by taking eight from the "Trouble Shooters." Bruce Quinn won a club award with a 211 scratch and 686 gross. H. Marshall also rolled a 200.

Purple and White League

The "Sea Gulls" beat the "Flounders" in a real tight match to win the third quarter with 36½ with the "Flounders" and the "Alley Oops" tying with 30. High games were B. Roche 157-454, J. Petro 223, B. Belligan 207-556 and J. Scott 560 series.

CREF Unit Values

1975			
January	\$30.67	February	\$32.80
March	33.77	April	36.12
May	38.07	June	39.88
July	36.81	August	35.86
September	34.31	October	35.89
November	36.61	December	36.34
1976			
January	\$40.31	February	\$39.76

Slo-Break Basketball

Dr. K

In the first game of the double-header on March 4, the Browns played a disappointing, dispirited game and were defeated by the razor-sharp Spuds 69-49. The Spuds were led by Bob Doty with 24 points. Dennis Nordstrom and Jeff Gaffney had 17 and 18 points, respectively. The "Moose" was the only Brown with double figures having 30 points.

Browns (49)		Spuds (69)	
Player	Pts.	Player	Pts.
Moose	30	Nordstrom	17
Smith, G.	8	Doty	24
Lawrence	6	Gaffney	18
Heotis	5	Casella	2
Schuman	0	Kowalski	6
		Sutter	2

In the second game of this double-header the sharp-shooting, hard-rebounding Persuaders mangled the injury-ridden Condors 57-42. The Persuaders had balanced scoring with three players in double figures - Wayne Smith with 10 points, Tom Jesaitis with 15 points, and Brandt Johnson with 16 points. For the hapless Condors, only the Mad Bomber, Jim Vaughn, was able to get into double figures with 17 points.

Condors (42)		Persuaders (57)	
Player	Pts.	Player	Pts.
Dagg	8	James	7
Thomas	5	Smith, W.	10
Vaughn	17	Baltz	3
Brown	4	Johnson	16
Dr. K	8	Donaldson	6
Ehrenkauffer	0	Jesaitis	15

The first game of the double-header on March 11 pitted the Persuaders and the Spuds in deadlock for first place. This half is a crucial contest. The Persuaders however rose to the occasion to defeat the Spuds 64-54. The Spuds were plagued by two many fouls, poor shooting and possibly some poor strategy. The Persuaders were fired up and showed razor-sharp outside shooting from Greg Donaldson with 19 points and Jim Garrison with 25 points. Brant Johnson, although his shooting was off, played excellent defense. Dennis Nordstrom, Bob Doty and Jeff Gaffney had double figures in the losing cause with 18, 16 and 13 points.

Persuaders (64)		Spuds (54)	
Player	Pts.	Player	Pts.
James	7	Nordstrom	18
Smith, W.	8	Doty	16
Donaldson	19	Gaffney	13
Garrison	25	Rose	4
Johnson	8	Kowalski	2
		Sutter	1

In the second game of the March 11 double-header, the two cellar dwellers squared off in what at first glance could have been an even contest. However, the rebounding strength of the Browns and a rampaging "Moose" enabled them to exterminate the hapless Condors 73-90. The "Moose" celebrated his birthday by rampaging the Condors scoring two points for every year of his life. The "Fox," Gordon Smith, showed his teeth with 16 points. Pete Stillman added 11 points to drive yet another nail into the Condors' coffin. The Condors were led by Jim (The Mad Bomber) Vaughn with 18 points and Mac Thomas with 13 points. Dr. K, Shawn Glan and Mike Dagg each got 11 points in the futile effort.

Browns (90)		Condors (73)	
Player	Pts.	Player	Pts.
Moose	46	Thomas	13
Lawrence	9	Brown	9
Smith, G.	16	Vaughn	18
Schuman	6	Dagg	11
Stillman	11	Dr. K	11
Barone	2	Glan	11
		Ehrenkauffer	0

With two games remaining in this season the second half standings are:

	Won	Lost
Persuaders	5	1
Spuds*	4	2
Browns	2	4
Condors	1	4

*First half champs

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

60. TECHNICIAN - Seeking extensive experience in microfilm processing operations. Photography & Graphic Arts Division.

61. ELECTRICIAN A, GROUP LEADER - Application deadline: March 25, 1976. Plant Engineering Division.

Autos & Auto Supplies

71 MUSTANG - V8, automatic, ps/pb, am/fm, 55,000 mi, excel cond. Carol, Ext. 4398.

65 VW - Squareback, new tires & paint, rebuilt eng, custom interior, stereo tape deck. \$950. Fred, 924-3556.

15" RIMS - For Ford pick-ups, 5 hole, set of four, \$12. Steve, Ext. 4308, 924-8011.

72 YAMAHA - 175 cc, street/trail, under 2000 mi, very clean. \$425. Frank, Ext. 4095.

69 PONTIAC - GTO, convert, 400 cu in, stand shift. \$500. 924-8156.

74 SUZUKI - 125 cc, tm, dirt bike. \$400. Frank, Ext. 4095.

TOYOTA RIMS - 12" for Corolla; (4) 12" Toyota hubcaps. \$7 each. Ext. 4121.

AVENGER GT-12 KIT - Fiber glass, mag wheels, build a wild, controversial sports car out of your tired old VW. Reasonable. 281-4769.

68 MERC - Cyclone GT, 390 V8, ps/pb, good cond. \$700 or reasonable offer. 878-4525 after 6.

74 KAWASAKI - 250 cc, 2000 mi, street & trail, like new \$750. Box, Ext. 4411.

73 TRIUMPH - TR6, convert & hardtop, factory a/c, 21,000 mi, am/fm, steel belted radials, excel cond. H. Banks, Ext. 3161.

68 VW BUS - 81,000 mi, eng 38,000 mi, very good body, runs well, see Fridays. \$975. Ted, Ext. 2271.

76 BUICK - Century custom, white w/red interior, radial tires, mags, am/fm stereo tape deck, a/c, Hearst Hatch sun roof. 981-5993 after 6.

66 CHECKER MARATHON - New tires, tuned. Reasonable. Ext. 3688.

74 GMC - Jimmy 4-wheel drive, 350 V8, 16,000 mi, excel cond inside & out, many extras. \$4700. Frenchie, 472-1875 after 5:30.

RALLY II RIMS - (4) fit Chevy/Pontiac. Factory price \$180, will sell for \$75. Sandra, Ext. 4207, 727-5158 after 5.

4 TIRES - A78-13, w/w, will pass inspection. \$4 each or \$15 for all 4. Bob, Ext. 4551.

MOTORCYCLE FRAME - Honda, black, good cond. Will accept any reasonable offer. Tom, Ext. 4671, 924-6073.

75 KAWASAKI - 1800 mi, luggage rack, crash bars, 2 helmets, leather jacket. \$1100. Roger, 732-9815.

RIMS - (2) 13", (2) 14", (2) 15". \$3 each. O. Booker, Ext. 4719.

73 OLDS - Toronado, fully equipped, 23,000 miles. \$3800. 472-0531.

72 1/2 GREMLIN - Auto, a/c, good tires, new battery, excel cond, 35,000 mi. \$2000. 744-5083 after 6.

72 INTERNATIONAL - Traveller, 3/4 ton, 4 spd, ps/pb, a/c, extras, immac in & out. \$3495. Jeff, 929-6398 eves.

74 VW - Bug, white, auto, r/h, sell for \$2000 or trade for approx \$1000 van or pick-up + cash. Ext. 4156.

69 MGB - Good cond, red conv. \$900. Murdock, Ext. 4851.

69 RAMBLER - Station wagon, 6 cyl, auto, excel family or carpool vehicle. Joe Buscemi, 924-3130.

70 DODGE DART - Engine needs work. \$175. Joe Ash, Ext. 4210.

67 SUNBEAM - Minx, 4 cyl, 4 dr, r/h, a/t, 25 mpg, runs good. \$450. Ext. 4532.

STEEL BELTED RADIALS - (4) New. \$150. George, Ext. 4304, 698-6051.

TIRES - Used & recaps, most sizes, extra rims avail. Ken, 289-8212 eves.

TIRES - (4) G78-14 glass belted UniRoyals on Chevy rims. \$30 each. Ray, Ext. 2012.

WHEELS - (2) 15" Chevy, 6 holes, w/good snow tires 800-15. \$40. Ext. 4265.

66 VW - Beetle, excel running cond, clean in & out. \$575. John, Ext. 2626, 475-6544.

Boats & Marine Supplies

23' SPORTFISHERMAN - Pembroke, flying bridge, d/f, canvas, 6 cyl, extras, good cond. \$1650. Laird, Ext. 4068, 298-5092.

EVINRUDE - 50hp, '60, good for parts. \$50. 589-9103.

34' BALTZER - Twin 125 hp Chrysler eng, camper back, excel family or fishing boat, incl dockage at Weeks. \$4000. 331-1718.

KIYAK - W/paddle, fiber glass, fair cond. Best offer. Tom, Ext. 4671, 924-6073.

18' SPORTCRAFT - V-hull, fiber glass, 85 hp Mercury, till-trailer, extras, like new. Ext. 3085.

BOSTON WHALER - '71, 55 hp, Homolite, good running cond. \$1500. V. Racaniello, Ext. 4592, 286-9606.

30' JORGANSON - Cabin cruiser, 318 Chrysler FWC, flying bridge, swim platform, fiber glassed, in water. \$2200. 286-1618 after 6.

MARINE STOVE - Golden mariner, enameled copertone. 2 burner alcohol, excel cond. \$50. Ext. 4108.

33' CHRIS CRAFT - Sedan, auto pilot, f/b & EMC Bi-mihi, d/f, VHF radio, twin f/w Palmers gen, constavolt, loaded & clean. Ext. 4823, 475-7241.

Miscellaneous

LHASA APSOS - Home raised, pet and show dogs. Sue Reid, 281-6462.

2 SLIDING GLASS DOORS - (1) 6'x6'x8" w/screen, \$50; (1) 8'x6'x8" w/screen. \$100, tempered glass. 929-4318.

SKIS - (3) K2, 190 cm. \$25. Helen Connell, Ext. 2601.

STOVE - 36" gas, storage & folding cover for burners, \$25; refrigerator, very old, small GE, \$35. John, Ext. 2502, 751-6390.

HEATING SYSTEM - Complete hot air, 80,000 BTU Chrysler Airtemp unit, loads of duct registers, Excel cond. \$200. Nancy, Ext. 4619.

SKIS - Wood, 190 cm w/Cubco bindings, decent cond, \$15; large size woman's boots to match, leather, Rieker, \$10; Men's size 9 cross country ski boots, brand new, \$10. Rick, Ext. 3979.

BEDRM SET - 6 pc mahogany, good cond. \$300 or best offer. 744-2493.

MAPLE BED & CHEST - \$75. 744-2493.

METAL WORK BENCH - \$40. 744-2493.

CHAIR - Gold, colonial wing chair. \$50. 744-2493.

LAZYBOY RECLINER - Blue w/pine arms & wings. \$130. 744-2493.

VIOLA - New cond, hard case & bow, \$75; 35 mm Exacta camera, F2 w/closeup lenses, \$70. Manny, Ext. 4681, 924-6937.

CRIB - Good shape. 924-7079.

LAYING HENS - 1 yr old leghorns, debeaked. 1-6, \$2.50 each, 7-12, \$2.25 each, over 12, \$2.00 each. Limited supply. 289-8212.

ELECTRIC RANGE - GE, 4 element, clean, good cond. \$50. 475-8971.

BABY HAMSTERS - Free. Dominique, Ext. 4386, 673-9438.

SWEET POTATO PLANTS - Taking orders, min 25 plants. Ext. 3613/3696.

REFRIGERATOR - GE, very good cond, ideal for cellar. \$35. 286-1062.

SNAPPER RIDE-ON - 8 hp, elec start w/catcher, like new. \$450. 732-1016 after 1.

BEDRM SET - Antique mahogany bed, dresser, vanity, night table, \$200; sofa bed, walnut, \$65. 878-4077.

PLANTS - Taking orders for tomato and sweet potato plants in 3" pots. Izzy, Ext. 3696.

POODLE - 7 mo old male, silver miniature, w/pedigree, good for adult family. \$75. 744-4066.

COCKTAIL RING - Ladies diamond ring, 1/2 carat, total weight, new cond, retail \$650, asking \$375. Richard, Ext. 4134.

MOVIE CAMERA - Revere, 8 mm, good cond. \$5. 589-3269 after 6.

JACKET - Custom tailored cashmere sport jacket, \$35; wool business suit, \$55. Size 38-40 in new cond. Joe, Ext. 4069.

TRIMMER - Craftsman electric lawn edge trimmer, new cond w/spare cutters. \$10. Peter, Ext. 4094.

DINETTE SET - Maple table and 4 chairs, good cond. \$50. Joe, Ext. 3273.

SPANISH GUITAR - Very good sound, case. Cesar, Ext. 2277.

CORNER DESK - Lg kerosene heater, sofa. Cheap. Ext. 3688, 363-7032.

HEATER - 5' electric. Ext. 3688, 363-7032.

UPRIGHT PIANO - Mahogany dining room set w/6 high back chairs, china closet & more. Ext. 3688, 363-7032.

IBM 024 KEYPUNCH - Needs work, \$150; teletype-writer, surplus TT-98, \$100. 744-9475.

COMMUNICATIONS RECEIVER - Surplus R-390, \$500; DVM, electroinst model 3400, \$100. 744-9475.

DEC PDP-8/s - Needs repair, \$500; card reader, NCR EM-D2, never used, \$150. 744-9475.

19" RACK CABINETS - 7' tall, 16" deep, used, blue, \$25. Custom 2-bay 4' tall; 30" deep, new, gray, \$50. 744-9475.

CONCERT TICKETS - 2 to the DeLarocha and 1 Musici performances at Brooklyn College, March 27 & April 3. Ext. 3371.

19" RACK CABINETS - Slope front, 4' tall, 24" deep, green, used. \$25. 744-9475.

19" RACK CABINETS - (2) Custom low-boy slope top for mag tape. \$10 each. 744-9475.

WATER TANK FOR WELL - Glass lined, 42 gal, new. \$70. George, Ext. 4304, 698-6051.

ELEC TEST EQUIP - For radio & tv, tools, chairs, new tubes, toto facts, etc. Walter, 727-2223.

TROPICAL FISH - Fancy guppies. 50¢ each. Bill, Ext. 4526.

DRAPERIES - 2 pr full-length, gold, \$35; deluxe wardrobe trunk, like new, \$50; mink stole, worn once, \$160. Claire, Ext. 3655, 281-2002.

FURNITURE - Bedrm, living, misc, tables, lamps, etc. 363-7119.

DYNAVOX - Turntable, amplifier, 2 speakers, \$25; chandelier, black, 10 arm, \$40. Ext. 4532.

SOFA BED - Rolls out from bottom to sleep 2, Danish modern \$100. Ext. 4532.

TV - Motorola, 19" table model, working cond, \$35; headboard, king size, \$30. Ext. 4532.

HAIR DRYER - Woman's Schick Time Machine, like new. \$20. 567-6519 eves.

SHAVER - Remington radial electric RR-1, rechargeable, travel case, hardly used. \$25. 567-6519 eves.

BICYCLE - 10-speed girl's Atalia, excel cond. Audrey Blake, Ext. 3489, 727-7142 after 6.

GAS HOT WATER HEATER - 30 gal. \$45. Len Kalmar, Ext. 4289.

BICYCLE - Men's Raleigh 10-speed, excel cond, 10 mo old. \$135. Dorothy, 286-1292.

PANELING - 6 sheets, \$3 each. Mike, Ext. 3198.

TRAILER - Sears utility camper, good tires, spare never used, ideal for small car. \$150 or reasonable offer. 878-4525 after 6.

POOL - 15'x42', never used, incl cover, liner, ladder, filter, skimmer, vacuum. \$400. Joanna, 281-1983 after 5.

CAMERA - Polaroid super shooter plus, like new w/ timer & carrying case in orig box. \$25. Irene Merritt, 589-5126.

TV - 25" color Admiral, needs work. \$30. Bob, Ext. 4652, 289-0357.

BATH TUB - Full size, like new, white baked enamel on steel, left-handed. 654-0651.

DINING RM SET - Table, 4 chairs, china closet. \$110. 331-1718.

CAMERA - 8 mm movie camera & projector. \$30. Ext. 4265.

TYPEWRITER - Smith Corona w/carrying case, \$25; 8 track stereo, 12 V w/2 speakers, \$25. Ext. 4265.

SILVER TRAY SET - Coffee, tea, sugar & cream pitchers, 14"x23" tray, \$25; natural wood high chair, \$8. Ann, 286-2280.

PUPPIES - Labrador Retriever, 7 wks, AKC, black & yellows. Blacks, \$100; yellows \$150. 363-7341.

FAN - 20", 3-speed, thermostat control, on rolling stand, \$25; library table 24"x36", oak, \$10. 878-0123 after 5.

ROLLER SKATES - Men's size 8, Ladies size 7 1/2, \$10/pair. 878-0123 after 5.

COLONIAL PLAYPEN - \$8; folding carriage, Collier convertible, \$10; Coach-Giltrite, \$10. 589-9103.

ASHLEY - Wood burning space heater, thermostat controlled. \$175. Frank, Ext. 4581, 588-2565.

BOY'S BIKE - 20", good cond. \$20. G. Price, 472-1419.

NYC OPERA - 4 seats for Ashmedal, April 1. M. Le-Vine, Ext. 4581.

HEATING UNIT - Fireplace, increases heat output 600%, inserts into fireplace w/blower motor, new. \$79. Marilyn, 924-6582 after 6.

STEREO TAPE RECORDER - Reel to reel, Sony Super-scope. \$40. Pete, Ext. 3350.

WOMAN'S BIKE - Folding type, 3-spd, good for apt dweller or limited space. \$25. Carol, Ext. 4398.

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

CUTCHOGUE - 1 acre building lot, water view, beach rights, near school & shopping. Asking \$15,000. G. Laird Stubbings, Ext. 4068, 298-5092.

BLUE POINT SOUTH - Older colonial 3-4 bdrm, laundry, dining, living, kitch, 1 1/2 bath, fireplace, 2 car garage, 1/2 acre, taxes \$920, walk to church, library, beach. \$43,000. 363-6774.

SELDEN - 2-story, 3 bdrm, 2 1/2 bath, 2 car garage, 2 kitchens, storms & screens, assumable mortgage. \$38,000. Ext. 2063.

BELLPORT - 100'x175' lot, split level, mother-daughter, 11 rms, 2 separate entrances, 2 kitchens. 286-9051 after 7:30.

3-VILLAGE SCHOOLS - 3 bdrm ranch maintenance free, living rm, dining rm, eat-in kitchen, finished basement, all fully carpeted, appl, pool w/ deck, fully fenced 1/4 acre. \$38,500. 751-6261.

RANCH - 4 years old, 4 bdrm, living rm, dining rm, 2 baths, basement, porch & patio, carpeting, 100x125 fenced yard, near stores & transportation. \$33,000 281-3721.

MEDFORD - Birchwood Blue Ridge, kitchen, dining, living rm, bdrm, w/w carpet, dryer, washer, thermopane windows, screens, central a/c, patio, clubhouse, pool, golf, tennis. Below cost, \$30,500. 732-5252, 475-2306.

SMITHTOWN - 3 plus bdrm, custom ranch, wooded 1/4 acre, 2 car garage, large screened porch, finished basement, 25 min to Lab. \$48,500, 265-1436.

BROOKHAVEN - Colonial 4 bdrm, 2 1/2 baths, 2-car garage, full basement, fireplace in lg living rm, formal dining, country kitchen, den, 3/4 acre plot. Middle Island Schools. \$49,900. 286-0158.

LAKE PANAMOKA - Plot 158'x100', 1 block from private lake. Principles \$12,000. Audrey, 924-4962.

ROCKY POINT - 3 bdrm ranch, 15 min to lab, full basement, storm windows, yard w/fence, washer & dryer. Will also consider renting. 744-4988.

SHOREHAM VILLAGE - Large, custom ranch, living rm, dining rm, 3 bdrm, 3 full baths, sunken den w/ fireplace, kitchen, dinette, private beach rights. \$89,900. 744-2493.

For Rent

YAPHANK - 2 bdrm cottage, kitch, living, full cellar, gas heated water, oil hot air heat. \$175/mo + util. 924-3882.

FURNISHED RM - Patchogue village, private home, off-street parking, village conveniences, suitable congenial mature woman. 475-2627 after 6.

SAYVILLE - 3 bdrm ranch, living rm, kitchen, laundry rm. \$300/mo + security. 289-0413.

RIDGE - New 3 bdrm, 6 rm, basement, washer & dryer, 10 min from Lab. \$325/mo + util. Audrey, 924-4962.

MODERN APT - Lg, 1 bdrm, 5 min from Lab, enclosed sun porch, a/c, w/w carpet, util (exc elec) incl, priv entrance, tennis courts, avail mid April. 924-5641 eves.

ROCKY POINT - 2 bdrm apt, furnished, available May 1. \$285 incl util. Ext. 2906, 744-9394.

WADING RIVER - Large 1-bdrm, basement apt, fully furnished, util inc, private beach, 15 min to Lab. \$250/mo. 929-8443.

VERMONT VACATION - 3 bdrm mobile home w/ fireplace on 10 acres, 10 min to Okemo Mt, close to 7 major ski areas, weeks or weekends. Bob, 473-8186.

S. JAMESPORT/RIVERHEAD - 3 bdrm house, living, dining, kitch, near Peconic Bay, no pets. \$175/mo + util. Ext. 2907, 698-0576.

Wanted

HOUSE SITTER - 3 weeks, May-June. 286-1592.

CAMPBELL'S LABELS - Soup & bean, needed by St. John School to get gym mats. Send to F. Chandler, Bldg. T-89.

GERMAN WAR SOUVENIRS - World War II, pay top dollar. Ext. 2550.

CAMPER'S SCREENHOUSE - Approx size 12'x12'. Bob Monaghan, Ext. 4824/4688.

BASEBALL CARDS - Gum, tobacco, bread, etc. Keith Thompson, Ext. 3385, 286-9047.

LIVING FACILITY - To rent, 1 or 2 bdrm, preferably between Rocky Pt & Wading River, starting June 1. Gary, Ext. 2093, 928-2008.

MANUALS - To buy old motor's, chilton's automotive repair, car owner's manuals. Frank, 281-3460.

SLEEPING BAG - For girl scout winter camping, reasonable. 589-9103.

MATTRESS - Standard baby crib, good cond. 744-5553.

TENNIS RACKET - Good cond, 744-5553.

12' BOAT TRAILER - Oars, anchor. 298-4089.

DOG GROOMING EQUIP - Elec shears, etc. Marty, Ext. 3284.

CIGAR BOXES - Approx 6x8 1/2x2", any quantity. Will pay 5¢ each. Gus, Ext. 4810.

Car Pools

DRIVER - For existing Bohemia, Sayville, Oakdale car pool. Ext. 2311.

DRIVER(S) - Commack for 2-person car pool. Paula, Ext. 2042.

NORTHPORT - Overtime, 8:30 am - 7 pm, also Sat. Pete, Ext. 3310.

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.