

BNL Magnet Used To Treat Brain Disease

A rotating superconducting magnet, designed at BNL, will enable doctors to guide catheters through arteries and veins into areas deep within the brain, previously inaccessible by surgery.

For many years, hand held magnets have been used at Columbia-Presbyterian Medical Center in New York City to maneuver catheters, with magnetic tips, through vessels close to the skin's surface. But the force of these magnets was never great enough to penetrate through to the body's deeper regions. The BNL magnet, the first rotating superconducting magnet to be applied to catheter guidance, has a force ten times greater, permitting a much faster and more precise manipulation of the catheter.

The Medical Magnet Project, is a joint effort between BNL and the Neurological Institute of the Columbia-Presbyterian Medical Center. The superconducting magnet group, headed by William Sampson, is responsible for the magnet's design and assembly. Cal Lasky designed the magnet and Frank Abbatiello assembled it. Most of the parts were built at the School of Engineering of Columbia University under the direction of Professor Edward Leonard, the head of the Bio-Medical Program, and a member of the AUI Board of Trustees, and his associate Steven Savitz.

"Using a rotating superconducting magnet for catheter guidance opens up a large number of applications for the diagnosis and treatment of diseases of the brain, in particular, and of the body in general," said Dr. Sadek Hilal, Professor of Neuro-radiology and head of the group from Columbia-Presbyterian Medical Center.

Initially, the new magnet will be used in the treatment of vascular malformations. These are large abnormal channels which



F. Abbatiello examines rotating superconducting magnet, designed and assembled at BNL for the Columbia-Presbyterian Medical Center. The magnet, which can be seen under his left hand, is mounted on a rotating cylinder. When operating, both are placed inside the steel dewar shown in the foreground.

shunt blood from arteries to veins. Blood which would normally flow to the brain, is rerouted to the malformation. This condition can cause seizures in children and is one of the causes of strokes. By using a silicon-based polymer, carried by the magnetic catheter, these malformations can be precisely filled and the normal blood flow restored to the brain.

There are several other potential clinical applications of magnetically guided catheters. They can be used to deliver the silicon resin or similar material to block vessels feeding a tumor. Without a blood supply, the tumor cells, like all other cells in the body would die. Magnetically guided catheters could be used to administer drugs and radioactive substances to cancerous areas in a very precise fashion, thus permitting a high local concentration of the anti-cancer agent. For diagnostic purposes, intracranial catheters were found to be more sensitive than skin electrodes in recording the intracranial electrical activity of the brain.

A unique feature of the BNL magnet is that it can be rotated at speeds varying

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Seamans Takes Oath Of Office



On December 30, Dr. Robert C. Seamans took the oath of office as Administrator of the Energy Research and Development Administration. The oath was administered by John Ratchford of the White House staff, in front of Dr. Seamans' wife Jean and son Daniel.

AEC to ERDA

The following statement

The Energy Research and Development Administration (ERDA) is the successor to the U.S. Atomic Energy Commission (AEC) and all references to the AEC herein shall be deemed to refer to ERDA.

has been printed by the Graphic Arts group and may be attached to any document which refers to the AEC. Copies may be obtained by calling K. Boehm on Extension 2935.

Cotzias Cited For L-Dopa Research

Dr. George Cotzias, Head of the Physiology Division of the Medical Department, is one of 10 medical educators and researchers to receive 1975 Awards for Distinguished Achievement from *Modern Medicine*, a national medical journal.

Dr. Cotzias was cited "for discovering levodopa's beneficial effects, a finding that has brought relief to countless patients with Parkinson's disease." He was among more than 200 men and women nominated for the Awards, which originated in 1934.

The 10 recipients of the Awards are named in the January issue of *Modern Medicine*, a semimonthly journal distributed to 175,000 U.S. physicians.

Summer Clothing Needed

Donations of summer clothing for adults and children of the Marshall Islands are requested to be distributed at the time of the BNL Medical Survey in March. Please bring clothing to the lobby of the Medical Department by February 12. A box will be designated for this purpose in the lobby. For further information, contact Dr. Conard, Ext. 3577.

Selected Reading

- New Sci. 64, November 28, 1974
Courtship the man with the cash. G. Planer and A. Brown. 641-3
- Nuclear historians. M. Gowing talks to S. White. 656-9
- Phys. Bull. 25, December 1974
Physics in society. J.R. Ravetz. 570-1
- Phys. Today 28, January 1975
Two physicists on Capitol Hill. B.S. Cooper and N.R. Werthamer. 63-6
- International cooperation in physics. J.T. Scott. 69-71

To protect the public interest: The Regulator's Quest. Remarks by L. Manning Muntzing, Director of Regulation, USAEC, to the Butcher & Singer - S.M. Stoller Corporation's Fourth Annual Nuclear Energy Conference, New York, New York, January 15, 1975. Press Release No. S-1-75, January 17, 1975.

Six Budding Craftsmen

Six BNL employees got an unexpected Christmas present in December when they were chosen from 35 applicants, to participate in the Craft Apprenticeship Training Program.

They are the third group of apprentices to be selected since the program was started in 1969. So far, six have graduated from the program and three others are expected to in the fall.

The refrigeration and air conditioning apprentices started their training on January 6. The other apprenticeships will not begin until March and May.

Jim Dosch has worked at the Lab for six years. Before entering the program as refrigeration and air conditioning apprentice, he was a computer operator in the Applied Math Department.

Jerry Pringle was taking courses at BOCES in refrigeration and air conditioning when he heard about the Apprenticeship Program. Prior to becoming an apprentice he was a custodian in Plant Engineering. He has been at the Lab for two and a half years.

Bob Jeffries, who has worked at the Lab for a year and a half, is one of the two electrical apprentices. He has had experience in electrical work both in the Service and at the Lab. His apprenticeship begins in March. He is currently working as a technician in the Accelerator Department.

For the first time, the Apprenticeship Program has been expanded to include a carpentry apprentice. Tony Tatakis, a custodian in Plant Engineering, was chosen to fill this slot. He says he enjoys working with his hands and has dabbled in carpentry on his own. He will begin his apprenticeship in March.

The desire to learn a skill motivated Bob Rowley to apply for an experimental machinist apprenticeship. He has been at the Lab for six years and during the last two years, he has spent a lot of time working with machines as a technician in the Physics Department. "As a technician I was learning a little about everything but I wanted a specific skill. As a machinist I will have one," he said. His apprenticeship starts in May.

Bill Trent, a mechanical technician at the AGS, will also become an experimental machinist in May. Because of his experience as a mechanical technician he felt that he was best qualified for the machinist trade.

In addition to on-the-job training, the new apprentices will be required to take formal courses in their trades.

Their progress will be watched closely by the Joint Apprenticeship Committee, composed of three IBEW members and three representatives of Lab management. As the Supervisor of Apprentices, Ric Villacara of the Personnel Office will coordinate activities associated with the operation of the program.

After four years of training, the apprentices will receive a journeyman certificate from the New York State Bureau of Apprenticeship Training and from IBEW.

Lab Opens Doors For Pesticide Training

Next week, Berkner Hall auditorium will serve as a classroom for Suffolk County residents wanting to know everything about pesticides.

Under the 1972 federal Environmental Pest Control Act, all users of "restricted" pesticides will be required to pass a certification test by October 1976. The law is not expected to affect homeowners, who have little use for restricted pesticides.

Restricted pesticides include those that are highly toxic and may be harmful to man and animals, and residual pesticides that may cause damage to the environment over a long period of time. Presently, the state requires a permit for use of these pesticides but no test is required.

To prepare people for the test, the Environmental Protection Agency and the New York State Department of Agriculture are sponsoring a training program. It is estimated that between 2000 and 3000 Suffolk County residents will be affected by the new law.

Brookhaven National Laboratory is one of two places in the County where the training program will be held. The Laboratory has no involvement in the program except in providing space.

Two 2-hour sessions will be held each day for the duration of the week. Exactly how many people will attend each session is not known, but it has been estimated to be as many as 200.

For additional information on the pesticide training program, contact Steve Jaffe, Agricultural Extension Service, 727-7850.

A New Breed of Craftsmen



The new craft apprentice trainees are (left to right): Bob Rowley, Tony Tatakis, Jerry Pringle, Jim Dosch and Bob Jeffries. Absent from the photograph is Bill Trent.

Scientists' Statement On Energy Policy

At a press conference held at the National Press Club in Washington, D.C., on January 16 a group of notable scientists issued a statement on energy policy. As a matter of interest to the BNL community, the *Brookhaven Bulletin* is publishing it in its entirety.

"We as scientists and citizens of the United States, believe that the Republic is in the most serious situation since World War II. Today's energy crisis is not a matter of just a few years but of decades. It is the new and predominant fact of life in industrialized societies.

"The high price of oil which we must now import in order to keep Americans at their jobs threatens our economic structure - indeed, that of the Western World. Energy is the lifeblood of all modern societies and they are currently held hostage by a price structure that they are powerless to influence.

"In the next three to five years conservation is essentially the only energy option. We can and we must use energy and existing energy sources more intelligently. But there must also be long range realistic plans and we deplore the fact that they are developing so slowly. We also deplore the fact that the public is given unrealistic assurances that there are easy solutions. There are many interesting proposals for alternative energy sources which deserve vigorous research effort, but none of them is likely to contribute significantly to our energy supply in this century.

"Conservation, while urgently necessary and highly desirable, also has its price. One man's conservation may be another man's loss of job. Conservation, the first time around, can trim off fat, but the second time will cut deeply.

"When we search for domestic energy sources to substitute for improved oil, we must look at the whole picture. If we look at each possible energy source separately, we can easily find fault with each of them, and rule out each one. Clearly, this would mean the end of our civilization as we know it.

"Our domestic oil reserves are running down and the deficit can only partially be replaced by the new sources in Alaska; we must, in addition, permit off-shore exploration. Natural gas is in a similar critical condition; in the last seven years new discoveries have run far below our level of gas consumption. Only with strong measures could we hope to reverse this trend.

"We shall have to make much greater use of solid fuels. Here coal and uranium are the most important options. This represents a profound change in the character of the American fuel economy. The Nation has truly great reserves of these solid fuels in the earth. Our economically recoverable coal reserves are estimated to be 250 billion tons and exceed the energy of the world's total oil reserves. Our known uranium ores potentially equal the energy of 6,000 billion tons of coal; lower grade ore promises even more abundance.

"The U.S. choice is not coal or uranium; we need both. Coal is irreplaceable as the basis of new synthetic fuels to replace oil and natural gas.

"However, we see the primary use of solid fuels, especially of uranium, as a source of electricity. Uranium power, the culmination of basic discoveries in physics, is an engineered reality generating electricity today. Nuclear power has its critics, but we believe they lack perspective as to the feasibility of non-nuclear power sources and the gravity of the fuel crisis.

"All energy release involves risks and nuclear power is certainly no exception. The safety of civilian nuclear power has been under public surveillance without parallel in the history of technology. As in any new technology there is a learning period. Contrary to the scare publicity given to some mistakes that have occurred, no appreciable amount of radioactive material has escaped from any commercial U.S. power reactor. We have confidence that technical ingenuity and care in operation can continue to improve the safety in all phases of the nuclear power program, including the difficult areas of transportation and nuclear waste disposal. The separation of the Atomic Energy Commission into the Energy Research and Development Administration and the Nuclear Regulatory Commission provides added reassurance for realistic management of potential risks and benefits. On any scale the benefits of a

clean, inexpensive and inexhaustible domestic fuel far outweigh the possible risks.

"We can see no reasonable alternative to an increased use of nuclear power to satisfy our energy needs.

"Many of us have worked for a long time on energy problems and therefore we feel the responsibility to speak out. The energy famine that threatens will require many sacrifices on the part of the American people, but these will be reduced if we marshal the huge scientific and technical resources of our country to improve the use of known energy sources."

The statement was signed by the following: (Professional affiliation is listed for identification purposes only.)

*Nobel prize in physics
**Nobel prize in chemistry
†Nobel prize in physiology and medicine

Luis W. Alvarez* - Lawrence Radiation Lab., University of California

Peter L. Auer - Director, Lab. of Plasma Studies, Cornell University

Robert F. Bacher - Department of Physics, California Institute of Technology

William Baker - President, Bell Laboratories

John Bardeen* - Department of Physics and Department of Electrical Engineering, University of Illinois

Hans A. Bethe* - Organizing Chairman, Laboratory of Nuclear Studies, Cornell University

F. Bloch* - Department of Physics, Stanford University

Norris E. Bradbury - Former Director, Los Alamos Scientific Laboratory

Harold Brown - President, California Institute of Technology

Richard Chamberlain - Chairman, Department of Radiology, University of Pennsylvania

Cyril S. Comar - Professor of Physical Biology, Cornell University

Arthur Kantrowitz - AVCO-Everett Research Laboratory, Everett, Massachusetts

Ralph E. Lapp - Energy Consultant, Alexandria, Virginia

Joshua Lederberg† - Department of Genetics, Stanford University

Willard F. Libby** - Department of Chemistry, University of California at L.A.

Franklin Long - Professor of Chemistry, Center for Science, Technology and Society, Cornell University

Edwin M. McMillan** - Lawrence Radiation Laboratory, University of California

Kenneth S. Pitzer - Professor of Chemistry, University of California at Berkeley

Edward M. Purcell* - Department of Physics, Harvard University

I.I. Rabi* - Professor of Physics, Emeritus, Columbia University

Norman Rasmussen - Department of Nuclear Energy, Massachusetts Institute of Technology

Roger Revelle - Director, Harvard Center for Population Studies

Glenn T. Seaborg** - Department of Chemistry, University of California

Frederick Seitz - President, Rockefeller University

Edward Teller - Lawrence Radiation Lab., University of California

James Van Allen - Department of Physics, University of Iowa

Warren Weaver - Mathematician, New Milford, Connecticut

Alvin M. Weinberg - Former Director, Oak Ridge National Laboratory

Victor Weisskopf - Department of Physics, Massachusetts Institute of Technology

Edward Wenk, Jr. - Director, Program on Social Management of Technology, University of Washington

Eugene P. Wigner* - Professor of Theoretical Physics, Princeton University

Richard Wilson - Department of Physics, Harvard University

L.I. Archaeology at SUNY

Long Island Geology will be the topic of archaeologist Steven Englebright's talk at SUNY at Stony Brook, Monday, February 3 at 8 p.m.

His lecture is one in a series comprising a course on Long Island Archaeology, being offered through the Continuing Education Department.

Every Monday, a different lecturer will cover some aspect of Long Island archaeology. All lectures, which are held in room 124 of the graduate chemistry building, are open to the interested public.

Future lectures will include such topics as marine archaeology, salvage archaeology, ecological archaeology, the history of Long Island archaeology, and archaeological techniques and field methods.

The course is being coordinated by the Suffolk County Archaeological Association. For more information contact Gay Levine, 878-4070.

Spring Semester Greet Ten



The spring class of Brookhaven Semester Students is made up of biology and chemistry majors. They are (background left to right) Joseph Nettles, Jarvis Christian College; James Cotton, Jarvis Christian College; Renee Flack, program coordinator; Dale Watford, Jarvis Christian College; Rodrigue Marzett, Grambling University; Allen Wynn, Elizabeth City State University. Seated left to right are: Dwight Miller, Jackson State College; Paula Minot, Grambling University; Alvin Kennedy, Grambling University; Ceecil Gallop, Elizabeth City State University. Absent from the picture is Joseph Hill, Jarvis Christian College.

Magnet

(Continued)

from 60 revolutions per minute (rpm) up to 900 rpm. The rotating magnet produces an alternating magnetic force which has two major effects on the catheter.

The alternating magnetic field causes the magnetic tip of the catheter to flutter, producing currents within the blood vessel, and therefore aiding forward movement. Also, the vibration of the catheter allows only portions of the catheter to touch the vessel wall at any one time resulting in a reduction in friction.

Friction is one of the major problems encountered with conventional catheters or with magnetic catheters guided by a constant field magnet. Friction builds up each time a catheter goes around a bend in a vessel. Eventually, friction increases enough to totally stop forward progression of the catheter.

A catheter, which is no more than a rubber tube with a magnetic tip, begins its journey in the blood vessels of the brain through a tiny slit in the neck. The magnetic tip is approximately 0.8 mm in width and 1.5 mm in length. It is radiopaque so its path is easily followed using conventional X-ray techniques.

"The rotating superconducting magnet guides a catheter very efficiently, quickly and precisely," said Dr. Hilal. With hand-held conventional magnets it takes a long time to maneuver a catheter to a particular area of the body.

The BNL magnet is mounted on a movable, motorized stand. It can be raised or lowered and tilted in any direction desired in guiding a catheter. To eliminate unnecessary power leads, the magnet can be charged up to a specific power level before being wheeled into the operating room. It maintains this power level for approximately 50 or 55 minutes, which is sufficient time for the type of operation it would be used in.

Once the magnet is delivered to Columbia-Presbyterian Medical Center, it will be tested in animals for a few months, said Dr. Hilal. If the tests prove successful, it is estimated that the magnet will be used on a patient sometime in the Spring.

Official & Special Events

Tuesday, February 4

BERA Art Show Opens - Rooms B & C, Berkner Hall
Hospitality Tea

Wednesday, February 12

Navy Meeting - 7:30 p.m., Brookhaven Center

Accident Policy Revised

The coverage provided under the BNL Travel Accident Insurance Policy has been improved. Previously, the policy paid \$100,000 for death or dismemberment resulting from an accident while on travel status.

Effective January 1, 1975 the policy will pay five times annual salary with a minimum of \$100,000 and a maximum of \$250,000. In addition, coverage is now provided for permanent total disability. The maximum time period between the accident and the loss has been extended from six months to one year.

Arrivals & Departures

Arrivals

Susan McCulley Applied Science
Edward J. O'Connell III Hth. Phys. & Saf.

Departures

Alice J. Czuppon Medical
John W. Hamill Accelerator

Letters To The Editor

Dear Sir,

I wish to extend my sincere appreciation to all my fellow employees at Brookhaven National Laboratory for their vote of confidence. I will do my utmost in my newly elected post to fulfill all duties, and initiate new procedures when deemed necessary.

Jo Gazzola
Fiscal Department

Hospitality News

The next Morning Coffee will be held on Tuesday, February 4, at 9:30 a.m., in the Brookhaven Center. We hope you will approve of our decision to hold all future Coffees at the Center. Babysitting, at no cost, will be provided in another room of the same building.

Stephanie Morris will demonstrate techniques of dying yarns and fabrics using simple vegetable and flower dyes, as well as the use of the spinning wheel.

Remember, come to the Center and bring the children.

Safety Shoes

Safety shoes will not be issued during the weeks of February 10 and February 17 due to the shoe fitter's vacation.

Art Exhibit Opens Feb. 4

The BERA Art Committee will present an exhibition of 19th century European paintings, on loan from the Hechsher Museum of Art, from February 4 through 21.

The exhibit, totaling 22 paintings, will include examples of French Salon and Barbizon School. Some of the better-known artists whose work will be represented are Gustave Courbet, Virgilio Diaz de la Pena, Jean Jacques Henner, and Charles Emile Jacque.

The dominant aesthetic standard of the 19th century was the "academic ideal," and its principal exponent was the Academie des Beaux-Arts in Paris. The official exhibition of the Academie was the Salon. The Salon was the major showplace of academic art of the period and the French Academie dominated world art until the early 1900's. It stressed, above everything else, drawing as the foundation of painting and color, although recognized as important, was given secondary attention.

Throughout the 19th century, the most notable dissenters of this type of painting were the realist painters of the Barbizon School. Interestingly, these dissenters were gradually absorbed into the academic traditions and their ideas incorporated into the academic ideal.

Until a few years ago, 19th century painting did not have much value on the 20th century art market but today it is gaining popularity.

Opening night for the exhibit, to which the public is invited, has been set for February 4 in Berkner Hall. The BERA Art Committee will host a dinner before the opening for guests from the museum. Those interested in joining the group may call Ginie Sayre, Ext. 3364, for information. The show will be open on weekdays from 11 a.m. until 2 p.m.

There will be a special evening showing of the exhibition on February 19, the date of pianist Valentin Gheorghin's concert.

Karate Instruction

If you are interested in learning Karate from an expert, the Karate Club is trying to get a minimum of 20 people together to start a class.

The class would be taught by a man who has been active in Karate for 17 years. He has black belts in three different forms of Karate.

The classes would cost \$10 a month per person for one lesson a week, and \$15 a month for two lessons per week.

If you would like more information call Whitey Caiazza, Ext. 2913.

January Retirees

Florence Craig, a Secretary in the Applied Mathematics Department, who began work at BNL on October 6, 1958, will retire on January 31.

Louis Schlosberg, a Stores Clerk in the Supply & Materiel Division, who started work at the Laboratory on May 9, 1966, will retire on January 31.

Cafeteria Menu

Week Ending February 7, 1975

Monday, February 3	
Cream of Tomato Soup	
Baked Macaroni & 1 Veg.	1.00
Baked Pork Chop & 1 Veg.	1.15
Tuesday, February 4	
Vegetable Beef Soup	
Meat Loaf & 1 Veg.	1.05
Western Omelet & 1 Veg.	.95
Wednesday, February 5	
Chicken & Rice Soup	
Broiled Filet & 1 Veg.	1.05
Special	
Choice of Small Juice or Cup of Soup	
Standing Steam Ship Round	
Choice of Baked Potato w/Sour Treat or Buttered Noodles	
Choice of String Beans Almondine or Glazed Carrots	
Small Beverage	25¢ Dessert
	\$1.87 Plus Tax
Thursday, February 6	
Navy Bean Soup	
Beef Hash & 1 Veg.	1.00
Southern Fried Chicken & 1 Veg.	1.05
Friday, February 7	
Manhattan Clam Chowder	
Fish & Chips	1.00
Roast Sirloin of Beef & 1 Veg.	1.20

A First For Applied Math



Florence Craig, who retired this week after 16 years at the Lab, is the first person to retire from the Applied Math Department. To show their appreciation, for her long service to AMD the members of the Department gave her two pieces of luggage, a corsage and a luncheon in her honor on Thursday. The luggage will be put to good use, she says, because she plans to do a lot of camping during her retirement. She and her husband Jack Craig, Instrumentation, have a camper. Above, she reads a note from well-wishers while Stu Rideout (left), for whom she has worked for 16 years, and Bob Marr look on.

Gym/Pool Rules Changed

The following changes have been made in the rules for the use of the Laboratory recreation facilities, i.e., the gymnasium, swimming pool, recreation hall, tennis courts. The changes are effective Saturday, February 1, 1975.

1. Only one guest per adult member may be admitted to the recreation facilities at any one time without prior arrangement. Adult BERA members may arrange to have more than one but not more than five guests at any one time by making arrangements with the Recreation Representative in the Personnel Office in advance.

Members will be held responsible for the conduct of their guests while using the recreation facilities. Adult BERA members will be responsible for the conduct of their children.

2. Effective February 1, 1975, the gymnasium will be opened by an attendant and access to the gymnasium on weekends will no longer be available by acquiring a key at the Laboratory Police office.

The weekend gymnasium schedule will be:

- Saturday 1 to 6 p.m.: Tennis (by reservation only)
- Sunday 1 to 3 p.m.: Tennis (by reservation only)
- Sunday 3 to 6 p.m.: Scheduled BERA activity (by prearrangement with the Rec. Supervisor)

Persons wishing to make reservations to play tennis in the gymnasium must sign up on the board provided for this purpose in the gymnasium and must agree to comply with the regulations of the Tennis Committee.

Note: When using BERA facilities the following are considered BERA members.

Employees and retired employees of AUI/BNL and the Brookhaven Area Office of the ERDA and members of their immediate families.

Spouses of deceased AUI/BNL employees and members of their immediate families.

Persons with AUI/BNL, guests, and visiting appointments.

Employees of permanent on-site employer (i.e., Physical Review, Bankers Trust, etc.).

Volleyball News

The final standings at the end of the first half of play are:

Men's League		
	W	L
Cool Tools	24	6
Atom Spikers	21	9
Spikers	19	11
Circuits	11	19
Foot Faults	8	22
No Names	5	25

Mixed League		
Nuts & Bolts	21	9
Trolls	20	10
Spikers	17	13
The Best	13	17
Playmates	12	18
High Balls	7	23

The first place teams in each league will participate in the championship playoffs of their respective leagues at the end of the season. Congratulations to the players of the Cool Tools and Nuts & Bolts.

Cooking Exchange

February 5th at 12:30 in the Recreation Building is the time and place for "Middle American Cooking."

Take a trip with us to "heartland cooking," Chicago, and get some new ideas for old, delicious and genuine American favorites with an eye to good eating at an economical price. Featured is a wonderful pastry.

We really would like you to join us!

Interested in Exercise Classes?

Tentative plans are to have classes at the Recreation Building on Monday evenings.

Karin Karlstrom, Ext. 4398 and Eena-Mai Franz, Ext. 4337 are taking names of people who are interested in joining such a group. Call this week!

BERA Election Results



On March 1, Josephine Gazzola and Kenneth Batchelor will take their seats on the Executive Board of BERA replacing out-going trustees Patricia Towey and George Oldham.

In the BERA election held last week Jo and Ken placed first and second, respectively, defeating other candidates Jack Detweiler and Graham Campbell.

The method of in-person voting tried this year on an experimental basis was apparently well received. It was gratifying to see so many people voting.

The BERA Board would like to thank the Nominating Committee, the candidates, and, of course, the voters.



Bowling News

Grace Fales

Green League

1/14: C. Zavesky 208, M. Bull 205, E. Meier 216, and R. Jones 201. 1/21: 200's for the night were rolled by C. Tomesch 200, E. Sperry 203, A. Kriesberg 209, G. Speidell 228, C. Bohnenblusch 214, R. Meier 208, and E. Meier 200/220/575. Congratulations to G. Speidell with his Special Event winning 543, being the closest series rolled to the New Jersey Lottery number.

Red League

2nd half began with the Old Timers, Neutrons, and Anachems all winning 11 points. High scores: J. Roesler 212, R. Larsen 234, and J. Scesny 201. 1/21: High series for the night: J. Scesny 211/248/640 scratch. Other high scores: R. Nelson 214, R. Adams, 226/204, W. Kristiansen 204, N. Carter 206/200, C. Gardner 223, and E. Reams 202.

Black and Blue League

High games 1/15: Frank Costello 213, Pat Lebitski 170/166, Mary Austin 166. High gross pots were won by the Lebitski's - Pat 226 and Bill 225. 1/22: Congratulations to Peg Taylor on her triplicate award. High games: Frank Costello 234/201, Handsome Budd Pollock 217, Debbie Antonio 173, Janet Fitzpatrick 173, Kit D'Ambrosio 168, Ellen Jacobson 164, Ellie Murgatroyd 164, Josephine Candiano 161, Wilma Eriksen 161. Lottery shoot was won by Budd Pollock 518. Pots were won by Ellen Jacobson 229 and Bill Lebitski 223.

Rifle & Pistol Club

Meeting date change! - Our regular business meeting, which would normally take place on Feb. 12th, is postponed until Feb. 19th. The reason is that the rifle team has an "away" match on the 12th with Republic Aviation. Because of this match and job commitments, three club officers and the entire rifle team would be unable to attend a business meeting on the normal date.

Trap shooters! Be prepared for notice of a work day in which we will be readying the trap range for use. In this case the old saying, "Many hands make for light work," applies perfectly. Thirty pairs of willing hands could do wonders.

Team captains! It's time to sign up contestants for both team and individual postal events. We should have our entries in by the end of February at the latest.

Everyman's For Everyone Luv's For Anyone

Don't miss the Theater Group's meeting on Thursday, February 6 at Stage II. Rita Straub has arranged an audience participation show followed by a two man version of Woody Allen's "Everyman." Curtain goes up at 8:00. Anyone is invited to tryouts for LUV directed by Bruce Martin. Stage II at 5:30 p.m. on February 10 and at 8:30 p.m. on February 11.

Soccer

Ken Batchelor

At the half way mark in the Winter Indoor Soccer League the AGS team is in the lead followed by the champion Physics team. This season the defenses have in general had the upper hand and goals have been difficult to come by. In fact, only 27 goals have been scored in the 24 games played so far and AGS has only conceded two goals in total, one of which was scored by Physics in the last ten seconds of the game to give AGS their only defeat this season, and the other was our own goal conceded by a veteran on the AGS team who shall be nameless! There is still room for players on the team rosters, particularly for the Chemistry and DAS teams, so why not come along on Friday evening at 5:30 p.m. and join in the games.

Leading goal scorers: Meyers 6, Batchelor 5, Murtagh 2, Oldham 2.

League Standing

	Goals						Pts.
	P	W	D	L	F	A	
AGS	12	7	4	1	8	2	18
Physics & App. Math	12	5	3	4	7	6	13
Chemistry & Biology	12	3	4	5	8	7	10
DAS & Medical	12	2	3	7	4	12	7

BAFFA Student Showcase

75 young artists and musicians from Bay Area high schools will participate in BAFFA's first Student Showcase of music and art to be held this Sunday, February 2 from 2 p.m. until 8 p.m. at James W. Young High School, Bayport.

A display of two dimensional art work will open to the public at 2 p.m.

The 7 p.m. recital features selections for classical guitar, piano, cello and voice. Admission is free. For information call 472-1419.

BNL French Group and French Impressionism

Mr. Walter Albertzaam, a member of the BNL French Group, will discuss French Impressionist painting at a meeting Wednesday evening, February 12, at 8:00 p.m. in the Recreation Hall. In this talk, illustrated with a rich collection of slides, Mr. Albertzaam will discuss the antecedents and the development of the impressionists, and the way in which impressionism led to subsequent developments in abstract art. Many of the slides will show paintings, not frequently seen in the West, from the collection of the Hermitage and Pushkin galleries in the USSR.

Mr. Albertzaam, himself a painter, lived and worked in France, where he met his wife. He studied art at the University of Washington, and now resides and has his atelier in Sayville.

Members of the Laboratory community and their friends are cordially invited to attend this meeting.

Classified Advertisements

Autos & Auto Supplies

54 FORD - Call for info. Ray, 878-2486.
72 KAWASAKI MOTORCYCLE - Dynotuned, 350cc, 3 cyl, new tires. \$600. 981-1871.
72 PONTIAC LEMANS STATION WAGON - Low mileage, air cond, ps/pb, good cond. 281-5276.
73 OLDS TORONADO - Low mileage, all extras, excel cond. Ext. 3120, 286-0626.
69 CHRYSLER WAGON - 6 seat, 383 eng, 50/50 full pwr bench seat, right recliner, pw, air cond, new radial tires, excel cond. \$1095. Ext. 2564, 286-3647.
65 FALCON STATION WAGON (SEDAN) - Ps, auto trans, radio, 2 new tires, water pump & muff. \$190. 281-8274.

1-14" CHEVY RIM - \$4. Ext. 2041.

69 TOYOTA CORONA - 4 brand new tires, new trans, starter; needs eng overhaul. \$100. Ext. 4219.

14" CHEVY WHEELS - \$5/pr; 15" VW wheels, \$5/pr; 2 bbl Rambler carb, \$7; all good cond. R. Glasman, Ext. 4652.

SET 454-450 HP PISTONS & HEADS - Competition valve job & cc, valve springs & retainers. 727-6843.

69 OLDS MOTOR - 350-300 hp, good cond, ready for pickup. 727-6843.

65 CHEVELLE MALIBU - 6 cyl, good cond, best offer. 928-6163.

69 CHEVY EL CAMINO - Blue/white vinyl top. \$1500. 472-0876.

72 CORVETTE CONV - Excel cond, 27,000 mi, 4 spd, 350 cu in, ps/pb, air cond, FM stereo radio, silver/blk int. 749-1203.

2-13" RIMS - 5 holes, \$7; 1-15" Ford rim w/tire, \$5. O. Booker, Ext. 4719.

SNOW TIRE - G78-14, Goodyear custom polyglas suburban, never used. Best offer over \$10. Rick, Ext. 3979.

TIRES - New, used & recaps, most sizes, also extra rims. Ken, 289-8212 eves.

64 CORVAIR MONZA - 2 dr coupe, make offer. Ext. 2476, 751-2149.

SNOW TIRES - Pr mounted snows 6.50x13 on GM 4-hole rims, excel cond. \$15 takes all. Ext. 2476, 751-2149.

72 VOLVO 145S WAGON - Auto, roof rack, low mileage, excel cond. \$2725. 589-4363 after 6.

68 PONTIAC LEMANS - 2 dr hdtp, sm V8, ps, radio, clean. \$850. Ext. 3688.

71 CHEVY VEGA - Hatchback, 4 spd, radio, new brakes & exhaust, good tires, runs well. Asking \$950. Ext. 3752, 744-9699.

Boats & Marine Supplies

12' ALUM BOAT - Semi Vee. \$125. Dave, 698-0549.

35' DICKERSON KETCH - Centerboard, aux eng & gen. \$8500. W. Glenn, Ext. 4662/4770.

Miscellaneous

BUNDY B-FLAT CLARINET - W/case, excel cond. \$68 firm. Frank, Ext. 2321, 475-5395 after 6.

SPRAYER - Pwr orchard type, 30 gal, 3 hp eng, 3.5 gpm at 300 psi, 100' hose, spray gun. \$100. 473-7667.

3 PC SECTIONAL - Matching chair, turquoise uphols, boomerang cocktail, side table, fits behind sectional. \$175 takes all. 588-7989.

GREAT BOOKS OF THE WESTERN WORLD - Compl set, brand new, best offer. 286-8174.

LADIES' ICE SKATES - Size 4, excel cond. \$8. Ext. 2041.

FM TUNER & MONO AMP - Good for background music. \$25/both. Richie, Ext. 4254, 734-7342.

UHER STEREO TAPE RECORDER - Sound on sound, sound w/sound, 4 track reel to reel, like new. \$125. Richie, Ext. 4254, 734-7342.

2 PR GIRL'S ICE SKATES - Sizes 3 & 4. B. Taylor, Ext. 4662, 298-4089.

COLOR TV - RCA 21", needs picture tube, \$25; 10 gal fish tank, stand, filter, compl unit, \$15; all good cond. Bob, Ext. 4652.

8 TRACK CARTRIDGES - Prerecorded. \$2 ea. Ext. 2041.

TRESTLE TABLE - Solid maple 34x66 w/bench, newly refinished. Kinsey, Ext. 2902, 286-0407.

DIN RM SET - Stanley Furn Co., mod walnut 40x60 table w/18" leaf & 4 chairs, 50x18 buffet, plastic laminated tops. \$175. Kinsey, Ext. 2902, 286-0407.

WEDDING DRESS - Size 14, floor length silk chiffon, styled early 1900's. 698-9751 after 5.

TYPEWRITER - Std Remington, \$30; sm 5 drawer chest, walnut finish, \$15. George, Ext. 3139, 281-7464 after 6.

MAPLE CHAIR W/COVERS - \$15; metal desk w/3 drawers & chair, \$15. George, Ext. 3139, 281-7464 after 6.

WHITE VENETIAN BLINDS - 2-30 1/2" w, 1-34" w, very good cond. \$3 ea. Claire, Ext. 2346.

CHAIRS - 2 modern turquoise uphols swivel chairs, wooden legs. \$5 ea. 981-2529 after 5:30.

BABY FURN - Like new, perf for first baby, bassinet & cover, stroller, hi-chair, carriage & many more. Sold as set, \$150. 734-7342.

KITCHEN TABLE - W/6 chairs, good cond. \$30. 281-5827.

LIGHTING FIXTURE - Colonial 5 lantern wagon wheel, like new. \$35. 732-8724 after 6.

SIMMONS HIDE-A-BED - Full size, w/slipcovers, \$90; twin metal steel beds, springs & Serta pedic mattresses, \$40. George, Ext. 3139, 281-7464 after 6.

WOODEN SKIIS - 195cm w/Cubco bindings & women's size 9 Rieker boots, good cond. \$35/set. Rich, Ext. 3979.

SKI BOOTS - Rieker men's size 10, good cond, \$15 & free pair of old wooden skiis w/cable bindings incl. Rich, Ext. 3979.

STEREO - Pioneer Quad Rcvr QX-8000, Sony TC-580 tape deck, United 1218 record changer, headphones, spkrs. Bruce, 286-2393.

ALTO SAXOPHONE - W/case. \$115 or trade for flute. Fran, Ext. 3651.

BOY'S BICYCLE - Columbia 20" Spyder bike. \$20. Ext. 2902.

106 PC TOOL SET - New, never used. Value \$80, priced at \$45. Ken, Ext. 3574.

3 MALE KITTENS - Orange & white, 10 wks old, free to good home. Frank, Ext. 2410, 281-7113.

ICE SKATES - Size 5, \$6; crib matt, \$5; studio cover & poly wedges, \$3. F. Paffrath, Ext. 4407, 864-1214 after 6.

TV CONSOLE - Beautiful cabinet, for parts or repair, \$5; baby bassinet, \$3. O. Booker, Ext. 4719.

HI RISER BED/COUCH - 2 bolsters, covers, w/2 short drapes, \$45; uphols round orange chair, \$15; all good cond; brown chair, \$5. Ext. 2969, 286-1130.

HOUSE TRAILER - 2 bedrm, semi-furn, new carpeting, 55' long. Asking \$4500. RA8-1509.

GOWN - Lime green, size 12, worn once; guitar strings, new, acoustic guitar, \$3.25. Susan, Ext. 3609.

CHILD'S SKI PANTS - Blk w/yellow stripe, W22", L20", \$4; figure skates, blk, size 3, like new, \$8; white, size 3, \$5. G. Irving, Ext. 2318.

CHILD'S SKIIS - Hanover, 140cm w/salmon jr step-in bindings & rubber buckle boots, size 4 1/2. Together \$20, or sell separately. G. Irving, Ext. 2318.

NURSES SHOES - New, size 5, Naturalizer, contour sole. Orig \$25, sell \$15. G. Irving, Ext. 2318.

PLANTER - Centerpiece, porcelain troughs & figurines, off-white color, \$5; La Cotta earthen ovenware for cooking roasts, never used, cost \$15, asking \$7. R. Horwitz, Ext. 4134.

BIKE - Girl's hi-riser 3 spd w/speedometer, green, mint cond, banana seat 6 mos old. \$45. Ext. 3121, 744-5261.

8 CLOTHES LOCKERS - 2 high ea w/individual key. \$10 ea, or \$40/all. 475-2075 after 5.

MALTED/MILKSHAKE MACHINE - Sona Dairy Bar, like new cond. \$5. Claire, Ext. 2346.

DAISY #118 PISTOL - Collector's item, will trade. A. Campbell, Ext. 3354, 12-12:30.

LESLIE TONE CABINET - Mod 147, 200w, Fischer reverb, \$350; elec mimeograph, full auto, \$125; surveying levels, \$75 & \$130. Ext. 4058, 286-0436.

MAN'S BROWN LEATHER JACKET - 44 long, zip-out lining, excel cond. \$50. 744-3567 eves.

CREATIVE PLAYTHINGS SLIDE - Good for 1-2 yr old. Paid \$40 - make offer. Elaine, 732-0984.

MISSES WINTER JACKET - White borgana, size 10, excel cond. \$25. Pecan, Ext. 3397.

BICYCLE - Columbia ladies' 3 spd, good. \$50. Pecan, Ext. 3397, 751-1383.

SKI BOOTS - New Tyrol, \$6; Nordica Alpina, \$20; various sizes from 6 up. 924-3178 after 6.

DAYBED - 6 mo old, walnut head & foot boards, wedges incl, Eclipse matt. Ext. 3381.

CANDELABRA TEARDROP BULBS - 40w clear, 4 bulbs/\$1; 2 bike tires, size 24x1.75, will not fit Schwinn bikes, 2/\$1.50. John, Ext. 2242.

FISHER X100B 50W STEREO AMP - Excel cond, perf for those who wish to add many components, etc. \$65. Bob, Ext. 4551, 289-2159.

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

CHOICE - 1 acre wooded bldg plot, located minutes from Lab, established residential area. For infor & details, call 924-3236.

150x150 CLEARED CORNER LOT - Near village, Pine St., E. Moriches. \$9500. 878-2955.

2 BEDRM RANCH - Bsmt, s/s, landscaped 50x100 fenced, lg kitchen, near schools, stores, RR, 5 min from beaches, low taxes. Asking \$27,000, flexible. 281-3655.

For Rent

PATCHOGUE VILLAGE - 2 bedrm apt, w/w, heat & water incl, no pets, no children, priv entrance. 289-3427 after 5.

3 RM UNFURN APT - \$140 + util, security, reference. 281-7844.

YAPHANK - 2 bedrm duplex apt w/bsmt, 5 min from Lab, heat incl. \$280/mo. 581-2909, 924-5012.

Wanted

SOUP LABELS - St. John's school needs 6000 Campbell soup labels to get gym mats. Sent to F. Chandler, Bldg T-89.

15" RIM - For Chrysler station wagon. F. Kuehl, Ext. 4823, 588-2268.

CLAMPS & PIPE CLAMPS - For woodworking. Ext. 4676.

MANURE - Cow, horse; no bull. R.C. Anderson, Ext. 3336.

ALTERNATOR & REGULATOR - 50-70 amp from car, low price, to expt w/wind generator. Send reply to G. Hrabak, Bldg. 480.

RIDERS WANTED - Round trip to Garden State Saturdays & holidays. W. Hulak, Ext. 4279, 732-2248 after 5.

NATURAL GAS OR LPG TANK - Any size, reasonable. Ext. 4058, 286-0436.

USED 10 HP OUTBOARD MOTOR - In good cond, Johnson or Evinrude preferred. B. Espensen, Ext. 3992.

MEMBERS - South Shore babysitting pool, Brookhaven to Patchogue. JoAnna, 286-0315.

BOAT TRAILER - For 12' row boat, at reasonable price. Ext. 3280 lunchtime, 727-3608 after 5.

Car Pools

COMMACK - Driver wanted. Ext. 3268.

BROOKHAVEN HAMLET - To form or join, 8:30-5:00. John, Ext. 2242, 286-1348.

CAR POOL - Interested in joining or forming car pool from Mt Sinai/Miller Place area, north of 25A. R. Cohen, Ext. 3488, 473-8717.

Lost & Found

FOUND - Tie tack, 1/21/75 in Cafeteria. It's yours if you can describe it. Ellie, Ext. 2486.

LOST - Single Mexican pendant earring (copper-silver), Jan 10, probably at Recreation Bldg. 286-3742.

LOST - Carleton badminton racquet on 12/19 presumably in gym. R. Horwitz, Ext. 4134.

Services

OAK FIREPLACE LOGS - Split & delivered, well seasoned. Ken, 289-8212 eves.

AUTO REPAIRS - Will do tune-ups & all repairs, at good rates. 878-2486.

TAXPAYERS - Federal & State income tax forms prepared in the privacy of your home or mine. 475-8330.

TREE REMOVAL - Expert service, pruning, cabling. 744-2673.

PAINTING & LIGHT CARPENTRY - Free estimates. 283-8690.

CLEANING SERVICES - Rug shampooing, waxing, window cleaning, general house cleaning. 924-6118.

TYPING - Manuscripts, theses, etc., reasonable rates. Susan, Ext. 3609, 928-6082 after 5:30.

DOG OBEDIENCE CLASSES - 10 wk courses for beginners & advanced, Fri eves 7-10 in Riverhead, begin 2/14, pre-registration required. 727-1218 days.

TREE REMOVAL & CHAIN SAW WORK - Experienced, free estimates. Ken, 289-8212 eves.

HAVE TRUCK - Odd jobs done, light hauling, cellars, attics & yards cleaned. 727-1329.

TREE SERVICE - Removal, topping, cabling, chain saw work, estimates. 727-1329.

OAK CORD WOOD - Well seasoned, split & delivered. \$70/cord, \$40/1/2 cord. 727-1329.

CERAMIC TILE/CEMENT/TERRAZZO - Professional work at reasonable prices, call for estimates. John, Ext. 2242, 281-8848.

CAR & HOME - Will fix or clean, will do tune-ups & all repairs at good rates. 588-4703 after 5.

Classified Ad Policy

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

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies	<input type="checkbox"/> Wanted	Check <input checked="" type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
<input type="checkbox"/> For Sale: Boats & Marine Supplies	<input type="checkbox"/> Carpools	
<input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Lost & Found	
	<input type="checkbox"/> Services	

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

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(Name & Phone No. To Call)

Employee's Signature.....

Life No.....

Ext.....

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).