

BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

BNL Exhibit A Success

BNL was among approximately 40 exhibitors at the first annual National Energy Education, Business and Labor Conference sponsored by the DOE and held last month at the Washington, D.C. Hilton. Energy Secretary James Schlesinger was a principal speaker at the conference which featured special and general sessions on energy conservation and alternative energy sources. The Lab's 10'x10' modular exhibit, constructed especially for this showing, was on view for some 3,000 Conference attendants from January 15 to 19.

"BNL's exhibit highlighted seven current Lab research projects," said Public Relations Officer Carl Thien. "Our exhibit features a hologram which is a real eye-catcher," he said, "because as the viewer walks around the exhibit, the figure in the hologram seems to move." The hologram (a three dimensional image recorded on film and done by the Holographic Film Company, New York City) shows David Vartsky, Medical, making calibration measurements to determine the amount of cadmium in a plastic phantom.

While staffing the exhibit in Washington, Exhibit Center Assistant Manager Mona Rowe found that the hologram drew people in very well. "For the Lab," she said, "it's important to attend Conferences such as the one in Washington. The public learns that constructive, basic research is being done here and that BNL projects will have direct applications in their lives."

Public Relations Assistant Janet Tempel has attended a dozen shows or conferences and is responsible for transporting and staffing the travelling exhibits. Janet also sets up and takes down the Lab's displays and is particularly happy about the "Expo System," the panel display system which makes each piece of an exhibit such as the Lab's manageable by one person. An ex-elementary school teacher, Janet finds she can easily answer most questions asked of her



Mona Rowe, Exhibit Center, explains BNL research to a participant at last month's National Energy Education, Business and Labor Conference. The Conference was sponsored by the DOE. —photo by Humphrey

because of her BNL tour-guide training. "The conferences," she said, "are always different, always interesting."

Although most of the Conference participants were educators in the energy field, effort was made to keep the new exhibit's message and design simple so that information could be easily understood by a non-scientific audience. "We avoid excessive words or details, and concentrate on interesting photos and phrases," noted Janet Hoefling, Exhibit Center Manager and designer of the

new display. "Once a viewer is drawn to the display," she said, "pamphlets made for this exhibit are available to describe a research area in detail."

"I enjoy the shows," Hoefling said, "especially because I meet exhibitors I can later call on for advice on everything from audio visual technique to national policy."

Currently in the Exhibit Center on-site, the display that went to Washington will soon be moved to Berkner Hall so that employees may also see it.

Women Advocate Science As A Career

Traditionally, math and science have been considered professions suitable only for men, and women were expected to find a vocation elsewhere. A small number of women have entered these professions anyway, but not nearly enough to fill the openings currently available to them through the efforts of the women's movement and affirmative action programs.

Although times have changed, many young female students are still intimidated by math and science. To encourage them to study and seek a career in these fields, a Scientific and Professional Women's Panel has been organized on site. It now consists of about 20 women working in these non-traditional professions at Brookhaven who have made themselves available to speak at high schools, colleges, and wherever else they may be needed, and to serve as role models for female students. The panel members represent such fields as computer science, statistics, engineering, physics, chemistry, biology, and medicine.

The Panel is seeking more women to help fill the ever-growing demand for speakers at Career Days in the community. There are no unusual qualifications for women who are interested in participating, but they should be working at the Laboratory in math or science, have a desire to spread the word and be able to speak contemporaneously.

Prospective panelists should call Vicki McLane on Ext. 2902, or Harriet Fadem, Ext. 4853.

From The People's Republic Of China



Visitors from the Institute of High Energy Physics, Peking, who are currently in residence include (from left) Hsiao Tsien, Meng Ke-fei, Chang Chung-tai, Chang Chih-shan, Chang Nai-sen and Yeh Ming-han. They arrived January 9 and will stay until next week at the AGS where they have been studying experimental halls in preparation for the construction of the 50 Gev proton synchrotron in China.

Inside Info

At a special session of the 26th conference of the Remote Systems Technology Division (RSTD) of the American Nuclear Society, Louis G. Stang, Jr. (Medical Dept.) was given a Certificate of Appreciation as one of six individuals most responsible for organizing the first Hot Laboratory Conference in 1947. He also received an award as one of the three founding members of the RSTD. Jules Godel (National Synchrotron Light Source) was organizer and chairman of the session.

Robert W. Young has been appointed Project Safety Officer for ISABELLE. He will be concerned with all aspects of safety during the design and construction phase of the accelerator facility. At the same time, he will remain as head of S&EP's Plant Protection and Safety Audit Section.

Nursery School

Openings are available in both the three and four-year old classes at the Upton Nursery School. For further information, call Marie Murtagh at 821-9587.

Four Swedish Students Guests of BNL Families

As a Scandinavian exchange student from Ostersund, Sweden, Jonas Hellstrom is being hosted by BNL secretary Janice Lamb, her husband David and her two children, Carol and Jimmy. The Lambs live in Sayville where Jonas attends high school and is a member of the soccer team. Except that there are more people here and more snow in Sweden, Jonas finds that lifestyles in the two countries are quite similar. One of five children, Jonas applied to become an exchange student after his sister

in Wading River and her mother who visited her host family for the holidays. The Espers have two children, Tanya and Jason.

Swedish exchange student Ulf Orhaug can trace his link to AUI back to his birth; Ulf was born in West Virginia where his father was working on a research project at NRAO in Greenbank. In addition to that tie, Ulf is being sponsored for the school year by BNL physicist Richard Watson, his wife and four sons. The Watsons became familiar with Sweden and its people when in 1960 and 1971 they lived in that country while Watson lectured in physics at the University of Lund. Ulf, who is also 17, entered the BNL Bicycle Race in September where he placed second in the Senior Men's Division as well as second place overall.

Stefan Peterson, Scandinavian exchange student from Stockholm, is spending the academic year in the U.S. with his host family, the Kenneth Crowes. An air conditioning engineer at the Lab, Crowe, his wife Aida and their sons Charles and Patrick make their home in Deer Park where Stefan is going to high school. Stefan's father is a chief engineer and he has one younger sister. Stefan, 17, has a special interest in physics and in chemistry. He hopes to visit the Lab to learn about its work in these fields.

American Scandinavian Student Exchange, the official Swedish foreign exchange program which represents the Swedish Central Committee for School Exchange in the U.S., was created by the Swedish parliament over 40 years ago and operates under the auspices of the Royal Board of Education. ASEE offers qualified students from Sweden, Norway, Denmark and Finland the opportunity to spend a high school year with an American host family. It also offers high school students from the U.S. the opportunity to spend a high school year with a Scandinavian family.

The Long Island representative for the ASEE is Penny Tarplin of 141 South Windsor Avenue, Brightwaters, NY, 11718. She may be reached at 666-8404 for further information. Families who wish to host a student for the next academic year must have completed the necessary application by February 28.



The Lamb family with their Swedish guest, Jonas Hellstrom (at right).

returned from a visit to Boston and interested him in visiting the U.S. He is 17 years old.

Arnold Esper, a cryogenic technical specialist at the Accelerator, and his family are sponsoring Annika Maria Medin of Stockholm, Sweden for the 1979-80 academic year. Seventeen year-old Annika is a student at Shoreham-Wading River High School where Mrs. Esper works as a registered nurse. Among the highlights of Annika's stay in the U.S. was the Christmas she was able to share both with the Espers



In Concert

Pianist Ruth Laredo performs at 8:30 tonight in Berkner Hall. She replaces Justus Frantz who is unable to appear due to a broken wrist. Ruth Laredo, who has played to enthusiastic BNL audiences in the past, will perform works by Chopin, Scriabin, Rachmaninoff and Ravel. Tickets are available at the door. They are \$4 general admission, \$2 for students and those over 65, and \$1 for persons under 18.

Congressional Science Fellowships

The Congressional Science and Engineering Fellow Program, coordinated by the American Association for the Advancement of Science, provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policy-making processes within the Congress for approximately one year. The Fellows function as special legislative assistants within the congressional staff and also participate in a seminar program coordinated by AAAS. Awards range from \$18,000 to \$20,000 per year and include nominal moving and travel expenses. Fellowships begin September 1, 1979.

For a list of sponsoring societies and further information, write: Director, Office of Special Programs, AAAS, 1776 Massachusetts Avenue, N.W., Washington, D.C. 20036.

Arrivals & Departures

Arrivals

John R. Cutt.....Biology
Richard F. Evard, III.....Accelerator
Virginia A. Kreitsek.....Contr. & Proc.
Deborah A. Lagnese.....Physics
Robert D. Lehn.....Accelerator
Patricia A. Mulcahy.....Energy & Env.
Herbert E. Robbins.....Applied Math.

Departures

Bruce S. Brunschwig.....Chemistry
Frederick J.A. Cacace, Jr.....Chemistry
Elisabeth A. Condon.....Supply & Materiel
Joseph E. Flynn.....Accelerator
Michael J. Gallagher.....Biology
Hwei-Lin Hong.....Energy & Env.
Bonnie P. McNair.....Nuclear Energy
Gerald A. Michels.....Physics
Gloria Ramirez.....Physics
Eileen Brown.....Physics
Marilyn A. Pandorf.....Physics

ANS Group On LI To Hear Bond

BNL Associate Director Victor P. Bond, a noted authority on low-level radiation effects, will be the guest of honor at the next dinner meeting of the Long Island Section of the American Nuclear Society. The subject of his talk will be "The Effects of Low-Level Radiation on Man." The meeting will be held on Monday, February 12, 1979, at the Bavarian Inn, 422 Smithtown Road, Lake Ronkonkoma, New York. There will be a cocktail hour (cash bar) starting at 6:00 p.m., followed by dinner at 7:00 (\$8.00 per person). The public is invited to attend. Interested persons should please call and make reservations with Mrs. Dorothy Thompson, Ext. 2444.

DOE Hot Line Set Up For Consumers

DOE has established a toll-free number to receive consumer complaints on gasoline and heating oil supplies and prices.

The line is being maintained under the direction of the Office of Fuels Regulation in the Economic Regulatory Administration branch of DOE. It has been established to give consumers a direct contact with the U.S. government to report any problems which may develop in obtaining supplies of home heating oil, or any price increases which seem to be unwarranted.

The "hot line" manned from 8 a.m. to 5 p.m., Monday through Friday, is 800-424-9246.

So Far, So Good . . .



Despite the lack of snow, BNL photographer Alex Reben managed to spot this ice-covered tree, in silhouette against the dome of the HFBR, to serve as a reminder that winter is indeed upon us. Only 5½ inches of snow accumulated in the month just past - that's about 3 inches less than the usual amount for January as predicted from a 30-year average. Last year's blizzards (the worst of which occurred a year ago this Tuesday and forced the Lab to close for three days) dropped 62 inches of snow on the Long Island area. Although Meteorology can't provide a conclusive prediction for February's weather, they observe that this season's temperatures are close to those of the winter of 1974-75 when only 17 inches of snow fell over the entire year. Further, meteorologists note that when December and January are relatively snowless, as they were both this year and in 1974-75, February and March prove to be storm-ridden. "Winter glowers bleak and cold," predicts the 1979 "Old Farmer's Almanac" for next week, "some sun makes the snow sparkle." But with two full, wintry months left this year, the almanac - and Meteorology - may yet be proven correct.

Miller Carvings Shown

The bird carvings of Phil Miller (Plant Engineering) will be featured at the Grange Art Gallery, Broadway Avenue, Sayville, from February 11 through March 25. The exhibit, *Waterscapes and Wingtips*, also features the color photographs of George Kuntz, Bayport. Operated by BAFFA, the Gallery is located in the Islip Grange Restored Village. Hours are Tuesday through Friday, 10 a.m. - 4 p.m., Saturday and Sunday, 1 p.m. - 4 p.m. Admission is free.

Answers to last week's puzzle

A	S	S	T	L	E	W	I	S	A	C	E	S		
C	O	P	A	E	L	E	M	E	P	O	R	E		
T	H	E	G	R	E	A	T	P	U	H	P	K	I	N
S	O	L	E	S	T	S	E	L	E	C	T			
U	H	F	E	N	I	S	L	E						
S	A	N	E	A	R	U	T	G	O	S				
T	A	K	E	A	T	C	O	A	L	E	N	T		
A	L	I	B	I	O	L	O	G	Y	R	I	A		
F	I	N	E	C	H	O	H	E	A	R	T	Y		
F	I	G	I	D	E	A	B	Y	E	S				
A	E	R	O	S	S	A	S	K						
A	O	R	T	A	E	T	O	R	I	O				
G	R	O	U	N	D	B	R	E	A	K	I	N	G	S
E	T	O	N	D	E	E	R	S	I	N	R	E		
D	O	M	E	Y	E	A	S	T	N	E	E	D		

Quilting Demonstrated

The monthly Hospitality Coffee will meet Monday, February 5, at 9:30 a.m., in the Brookhaven Center. Rosemary Florio of Shoreham will present a quilting demonstration and will display traditional early American and contemporary quilting techniques. Guests will be given a list of basic quilting supplies and may do sample squares that morning. A sign-up sheet will be available for anyone interested in further quilting workshops. For further information call Colette Cadwell at 744-2816.

Please come and bring the children. Babysitting will be provided at no charge. It is suggested that you bring along a toy or two for your children to play with.

Cooking Exchange

This February 14, learn to create a gourmet dinner for two. The International Cooking Exchange will show you how. "Cooking for two" will be demonstrated at our next session, Wednesday, February 14, and will feature unusual recipes to insure a memorable occasion.

Come join us at the Recreation Building Wednesday, February 14, at 12:30 p.m.

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Contemporary Art On Exhibition



"Cheap Tricks," oil on canvas, by David Parrish, is one of the works to be seen at the upcoming BERA Art Exhibition. "The SoHo Selection," which includes contemporary work from the Nancy Hoffman and O.K. Harris Galleries in New York City, will open at 11:30 a.m., Thursday, February 8, in Berkner Hall. The show will continue weekdays from 11:30 a.m. to 1:30 p.m. through February 22.

Theatre Group

The BERA theatre group will meet on Friday, February 9 at 8 p.m. in Berkner Hall. All regular members are requested to bring any slides or pictures they have taken at any of the productions, but especially from "The Prime of Miss Jean Brodie." There will also be a reading from Ira Levin's "Veronica's Room." All interested people are welcome to come and join us. If you would like to participate in the reading, contact Bill Love, at Ext. 3996, for details.

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.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific 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: Opportunity for present Laboratory employees.

903. SECRETARY - AAS degree or equivalent capabilities. Requires excellent secretarial skills, ability to organize and type technical reports, and flexibility in responding to changing priorities. Knowledge procedures highly desirable. Department of Energy and Environment.

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

904. MECHANICAL ENGINEER (two positions) - Requires BSME or equivalent capabilities and background in general machine design and development and in high precision manufacturing processes. Knowledge of vacuum and/or cryogenic technologies is desirable. Accelerator Department, ISABELLE Project.

905. MECHANICAL ENGINEER (two positions) - Requires BSME or equivalent capabilities and background in stress analysis, heat transfer and computerized analysis techniques. Knowledge of cryogenic technology is desirable. Accelerator Department, ISABELLE Project.

906. MECHANICAL ENGINEER - Requires BSME or equivalent capabilities with professional experience in thermodynamics and stress analysis and a working knowledge of fabrication processes. Accelerator Department, ISABELLE Project.

907. ELECTRICAL ENGINEER (two positions) - Requires BS/MSEE or equivalent capabilities and broad professional experience in the design, construction and testing of sophisticated electronic systems. Accelerator Department, ISABELLE Project.

908. SAFETY SPECIALIST - Requires demonstrated experience in the design and implementation of industrial safety programs. Teaching and supervisory experience highly desirable. Safety and Environmental Protection Division.

909. TECHNICIAN (Monthly) - Demonstrated experience in thermodynamics and refrigeration systems required. Must have familiarity with process instrumentation, data requisition and retrieval. Department of Energy and Environment.

910. EXPERIMENTAL MACHINIST (three positions) - Demonstrated experience in all round machining required. Central Shops Division.

911. COMPUTER OPERATOR - Requires successful completion of data processing or computer operations training program or equivalent experience assisting in the operation of a large electronic digital computer. Must be willing to work shifts. Applied Mathematics Department.

Medicare Note

Employees and spouses who are nearing or have reached age 65 are reminded to contact their nearest Social Security Office to enroll in Medicare. The Laboratory's group medical insurance plan will not pay for any medical expenses that are payable under Medicare and you should arrange to enroll for Medicare A & B coverage as soon as you are eligible.

You may apply for Medicare coverage three months before your 65th birthday at the nearest Social Security Administration office. There are district Social Security offices at 75 Oak St., Patchogue, and 220 W. Main St., Riverhead. You should take proof of your date of birth with you when you apply.

If you have any questions call the Personnel office, Ext. 2877.

Pool Closing Early

On Wednesday, February 7, evening hours at the swimming pool will be from 5:00 to 7:30. The purpose of this early closing is to free the pool for refresher training of BNL lifeguards.

Cafeteria Menu

Week Ending February 9, 1979

Monday, February 5	
Navy bean soup	(cup) .30 (bowl) .40
Batter fried steak w/1 veg.	1.45
Franks and beans	1.10
Hot Deli - Pastrami	(on bread) 1.15 (on roll) 1.25
Tuesday, February 6	
Cheese chowder	(cup) .40 (bowl) .50
Chopped steak w/1 veg.	1.15
Turkey tetrazzini	1.30
Hot Deli - Knockwurst	(on bread) 1.15 (on roll) 1.25
Wednesday, February 7	
Minestrone soup	(cup) .40 (bowl) .50
Homemade lasagna w/1 veg.	1.35
Fried rice and pork w/Chinese noodles	1.30
Hot Deli - Italian sausage and peppers hero	1.25
Thursday, February 8	
Chicken rice soup	(cup) .30 (bowl) .40
Irish lamb stew	1.45
Beef liver and onions w/1 veg.	1.15
Hot Deli - Barbequed beef	(on bread) 1.15 (on roll) 1.25
Friday, February 9	
Clam and celery soup	(cup) .40 (bowl) .50
Pot roast w/1 veg.	1.40
Seafood cakes and spaghetti	1.10
Hot Deli - Smoked tongue	(on bread) 1.15 (on roll) 1.25

Equipment Reminder

Supply and Materiel Manager Phil Borzi reminds Lab personnel that safety equipment is issued to any employee whose work requires it on approval of the department or division safety co-ordinator. Standard, approved safety glasses and shoes are available at no charge to the employee. Special requests, such as metal eyeglass frames or optional shoe styles, are available at additional cost either to the employee or to the department. Borzi notes that the safety co-ordinator must approve special requests at the time the original safety equipment form is completed.

Excluding special instances, employees should own only two pair of safety shoes and/or glasses at one time. Last year, approximately 1,800 pair of shoes and 850 pair of glasses were issued to employees by the Lab. "It's an expensive program, but well worth it," Borzi said.

Finally, Borzi calls attention to the regulation which requires employees to turn in used glasses and shoes when withdrawing replacements. If old safety equipment is not turned in, the employee will be charged for any outstanding shoes or glasses when he or she retires or is otherwise no longer a Lab employee.

Volleyball

Mixed League

Division A

On January 22, the Diamonds swept the Nuclods: 15-13, 15-9, 16-14. No Names beat Lookin' Good: 15-5, 15-8, 15-10, and Family Affair shone over the Popovers: 15-3, 15-4, 15-5. Oceanography over Nuts & Bolts: 15-2, 15-2, 15-6.

Standings

Oceanography	12- 0
Family Affair	10- 2
No Names	8- 4
Lookin' Good	7- 5
Nuts & Bolts	6- 6
Diamonds	3- 6
Nuclods	2-10
Popovers	0- 9

Division B

Leftovers took over LeMufs: 15-6, 16-14, 15-9. Medical over Wisa's: 15-13, 15-11, 15-9, while Balls & Strikes edged out the Nads: 15-11, 15-1, 15-8.

Standings

Balls & Strikes	3- 0
Leftovers	3- 0
Medical	3- 0
LeMufs	0- 3
Nads	0- 3
Wisa's	0- 3

