BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Coming Up

Robert Serber, emeritus Professor of Physics at Columbia University, will deliver a Pegram Lecture Series collectively entitled "Peace and War," in three 8 p.m. talks, on Tuesday, Wednesday and Thursday, June 7-9.

As a protégé of J. Robert Oppenheimer, Serber was at the leading edge of U.S. high-energy physics before World War II, played a key role in the development of the first atomic bombs at Los Alamos National Laboratory and has remained involved in peacetime physics since the war ended in 1945. He will give his eyewitness account of these seminal events in lectures entitled, respectively, "War: Berkeley and Los Alamos," "War: Tinian and Japan," and "Peace: Early Days at Berkeley, Cal Tech and Brookhaven."

Two Touted as Tops in Tech Transfer

For their efforts in making Brookhaven-developed technologies available to U.S. industrial companies, two BNL employees — Dorry Tooker and James Wegrzyn — were recently honored by the Federal Laboratory Consortium (FLC) with technology-transfer awards.

Tooker, Outreach/Small Business Coordinator in the Technology Transfer Office, received the FLC's Northeast Regional Coordinator's Excellence Award in recognition of her technology-transfer accomplishments in BNL's Technology Transfer Office and as the FLC's Northeast Deputy Coordinator.

Particularly noted was her creativity in reaching out to small businesses and industry representatives regarding the array of BNL technologies and the ease of collaborating with Lab staff, and in promoting the 34 other federal agency laboratories in the Northeast to industry as potential technology-transfer collaborators.

Wegrzyn, Senior Physics Associate in the Department of Applied Science, received the FLC's Excellence Merit Award for helping transfer to US CAR (Consortium for Automotive Research) his approach of using activated carbon to absorb and store natural gas in alternative-fuel vehicles.

He was also recognized for coordinating a program among carbon suppliers, gas utilities, automotive suppliers, BNL, US CAR and the Gas Research Institute to advance the use of this technology, which allows natural gas to be stored at much lower pressures than the compressed gas traditionally used in these experimental vehicles.

For receiving Federal Laboratory Consortium awards for technology transfer, Dorry Tooker (center) and James Wegrzyn accept congratulations from Margaret Bogosian, deputy manager of BNL's Office of Technology Transfer. —Photos on this page by Roger Stoutenburgh

Technology On Display

From Legos to robotics, many of the most up-to-date technology teaching tools for students from kindergarten through high school were displayed in the Brookhaven Center, April 28 - 29, for viewing by technology teachers and interested Lab employees.

BNL's Office of Educational Programs (OEP) hosted the 31st annual spring conference of the New York State Technology Education Association, which attracted more than 300 technology teachers from throughout the state. OEP's Manager, Karl Swyler, said the Lab was the ideal site for fostering connections between science, math and technology, the conference's theme.

"The teachers exchanged ideas in 50 diverse workshops," Swyler added. "One of the highlights of the conference was a presentation of a new draft framework for technology, math and science education issued by the State Education Department."

Among the 30 vendors who set up exhibits was Al Jones (left) of Modern School Supplies, Inc., a Hartford firm. He is showing Edwin Ermanoeics, a West Islip High School technology teacher, a computer-controlled engineering-design system, which lets students design, build, wire and program devices such as a drill press.

MAFIA Users Organize, But It's No Crime

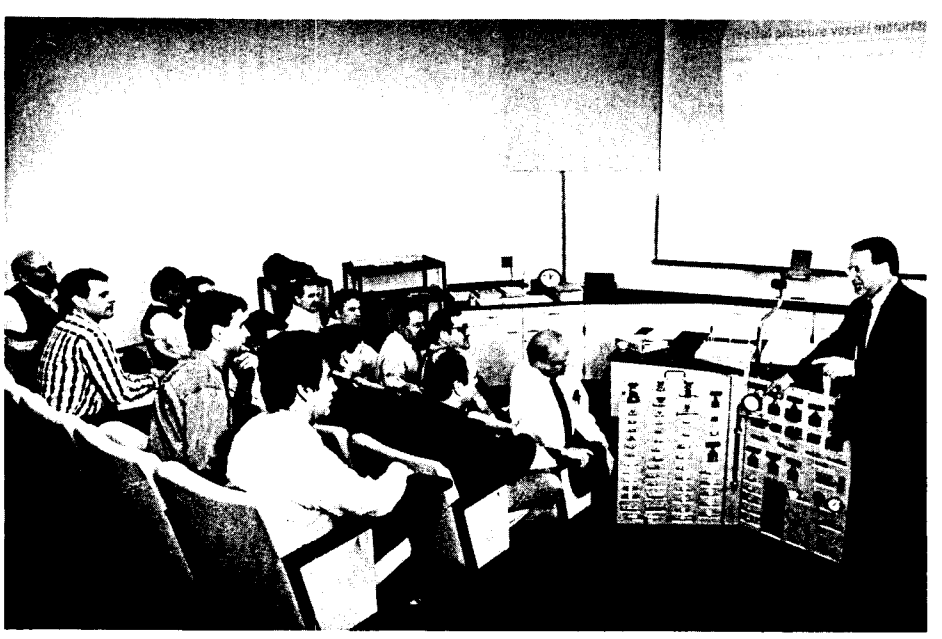
Some members of the MAFIA Users Group "family": (from left) Edward McFadden, CCD; Haipeng Wang, CAP; Alessandro Ratti, RHIC Project; Harold Kirk, CAP; Juan Gallardo, CAP; and Thomas Meyerer, Physics, at their April 13 meeting.

The MAFIA has come to BNL — but it's not Al Capone and his cronies. Instead, it's a rather sophisticated computer-modeling program for three-dimensional design that, unlike other models, includes electromagnetic properties. Its name stands for MAxwell's Equations using the Finite Integration Algorithm. Maxwell's equations form the basis of electromagnetic wave theory.

Now on a six-month trial loan to BNL through the Compute Farm in the Computing & Communications Division (CCD), MAFIA is being used all around BNL, by staff at the Center for Accelerator Physics (CAP), the National Synchrotron Light Source, the Alternating Gradient Synchrotron and the Relativistic Heavy Ion Collider (RHIC) Project. With such widespread interest, the accelerator community is considering leasing the program, and a decision is expected shortly.

pressure vessels = New Required Training

Talk about learning under pressure! These BNL engineers and equipment designers, along with more than 200 other employees who design, build, inspect, operate or maintain pressurized vessels, attended one of four Pressure Vessel Safety Training courses held last month.



The courses' organizers, Frank Biele (front row, far right) and Herbert Schulman (second to Biele's left), Safety and Environmental Protection (SEP) Division, brought Lawrence Livermore National Laboratory pressure specialist Chuck Borzileri (far right) to BNL to instruct employees on safety policy and procedures for vessels containing gases or liquids at pressures from 1.03 million pascals (150 pounds per square inch, or psi) to more than 34.37 million pascals (5,000 psi). Each participant received a certificate after passing a written test of their pressure knowledge.

Because several of BNL's departments and divisions utilize pressurized systems, SEP is preparing its own pressure safety course.

Former Employee Sentenced for Stealing BNL Property

One year ago this week, BNL and Suffolk County police and agents of the Federal Bureau of Investigation (FBI) searched the Medford house of Raymond Patuano, who, one month before, had been fired from his job as a heavy equipment mechanic operator in the Plant Engineering (PE) Division.

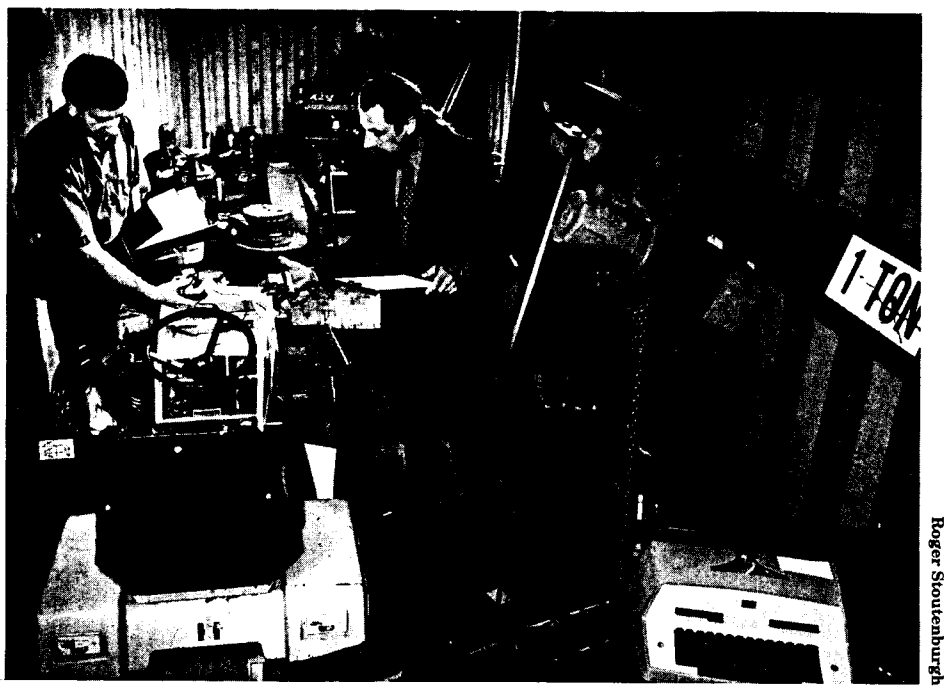
They found even more than they expected. Stacked in several garages, the officers uncovered thousands of dollars worth of tools and other equipment that they believed Patuano had stolen from the Lab over the course of ten years.

Nearly a year later, in a federal courtroom in Uniondale, Patuano learned the price of pleading guilty to stealing government property: four months of detention and five years' supervised probation.

"This is one of the largest and longest-term cases of theft we've had," said Gary Gross, Safeguards & Security Division, who has been on the Patuano case for nearly a year and a half. "This guy took anything that wasn't bolted down."

Patuano's case emphasizes the need to follow Lab policies for etching or marking all equipment against loss, and reporting items as soon as they are missed, Gross continued. Although police suspect Patuano may have stolen as much as $100,000 worth of BNL property, the U.S. Attorney who handled the case could only pursue charges for the theft of the $14,000 in equipment that had been properly marked or recorded.

And, Gross said, the case should remind employees and visitors of the fact that every non-personal item on the Lab site belongs to the federal government, from pencils to pagers to personal computers.



Roger Stoutenburgh

Gary Gross (right), Safeguards & Security Division, and FBI case agent Raymond Greco examine some of the BNL equipment seized one year ago this week from former employee Raymond Patuano, who was recently sentenced for theft of federal property.

Patuano was sentenced May 6 after pleading guilty in January to one count of theft of federal property. Fired from the Lab for falsifying a worker's compensation claim in April 1993, he was arrested one month later, after his estranged wife told BNL police she suspected him of stealing BNL property, and after a May 20-21 search of his property revealed a storehouse of allegedly stolen equipment.

A further search, plus interviews with Patuano's neighbors and nearly a year of investigation by Gross in cooperation with FBI and Suffolk authorities and BNL employees, led to the guilty plea and subsequent sentence.

According to his wife, Patuano may have begun stealing BNL property soon after beginning work in PE's Grounds and Sanitation Group in June 1983.

Among the recovered equipment that could be identified as BNL property were power and hand tools, wrenches, air conditioners, paints, jacks and electrical components, along with a one-ton chain hoist and a 24-foot by 14-foot steel gantry, or hoist frame. Much of it is now impounded in a trailer near police headquarters.

Patuano allegedly used many of the stolen items in the vehicle-repair shop he operated out of his garage, and may also have fenced some equipment, working in cooperation with several neighbors who later became cooperative witnesses in the federal case.

Information from those neighbors and from Patuano's wife aided Gross, FBI case agent Raymond Greco and Suffolk County 5th Precinct Detective Phillip Daly in bringing their suspect to justice. Suffolk police made the arrest and assisted the BNL police in the search. Also providing assistance in the investigation were employees from the Photography & Graphic Arts, Plant Engineering, Staff Services and Supply & Materiel Divisions.

All in all, Gross said, he is satisfied that this cooperative effort worked so well. Patuano's arrest and sentence, he continued, sets a precedent not only for would-be thieves but for all BNL employees regarding federal property.

"If a piece of property is missing, report it to Safeguards and Security," he said. "It may create more paperwork for us, but it can help the case in an investigation and can provide justification for replacement and a history for tracking the item. But above all, remember that just about anything on site is federal property."

— Kara Villamil

In Memoriam

Ernest Warburton, a Senior Physicist in the Physics Department, died May 9, after a long battle with cancer. He was 66.

Warburton first came to BNL as a postdoctoral fellow in 1956, after receiving his doctorate from the University of Pittsburgh. He returned five years later to begin a 33-year career in the Physics Department, first at the 3MeV Van de Graaff, then the Tandem Van de Graaff, where he served as a group leader for several years. In 1984, he left the Tandem group and shifted his emphasis from experimental to theoretical physics.

In December 1993, the American Physical Society (APS) named Warburton the winner of the 1994 Tom W. Bonner Prize in Nuclear Physics. On February 15, he was recognized in a ceremony in BNL's Physics Department, and, despite his illness, he was able to attend the APS's annual meeting April 18-22 to accept his award officially, as well as receive personal congratulations and a standing ovation from his assembled colleagues.

"Ernie's death has not only ended a very distinguished scientific career, but also a heroic struggle against cancer during which his spirit and drive kept him going for nearly a year longer than doctors' prognoses," commented Physics Department Chairman Peter Bond. "He was thus able to learn of his winning the Bonner Prize and could appreciate the well-deserved accolades of his colleagues."

At the February ceremony, David Alburger, BNL volunteer guest researcher and retired senior physicist, recounted his scientific and personal relationship with Warburton, including collaboration on 57 of Warburton's more than 250 publications.

"Personally I found that working with Ernie has been most stimulating and rewarding. I feel very fortunate and privileged to have benefited from his strong scientific leadership," Alburger said. "The Brookhaven community and the scientific community at large owe a great deal to him."

In the award citation, the APS lauded Warburton for "pioneering contributions to our understanding of the structure of light nuclei via the development and exploitation of experimental techniques in nuclear spectroscopy combined with theoretical analyses."

He was also congratulated in a March letter by President Bill Clinton, who noted, "you have opened our eyes to the bright possibilities of the twenty-first century and beyond."

A complete account of Warburton's career can be found in the December 31, 1993, Brookhaven Bulletin article related to the award.

Warburton will be remembered not only for his professional achievement, but also for his love of fine wine, which led him and several other BNL employees to begin a BERA winemaking club. He was also an avid jogger.

Warburton is survived by his wife, Nancy, of Port Jefferson; son David, Alternating Gradient Synchrotron Department, and daughter-in-law Kathryn, Department of Applied Science; and daughters Celia Shogren, of Wisconsin; and Anne Mankiewich, of New Jersey.

Contributions in Warburton's name may be made to the American Cancer Society.

Chemical Engineer **Chia-Jung (Charlie) Hsu**, Department of Advanced Technology (DAT), died on Tuesday, May 3, of cancer. He was 64.

Hsu came to the Lab on October 22, 1962, as a research associate in the then Department of Nuclear Engineering. Promoted in 1964 to an assistant chemical engineer and in 1968 to an associate chemical engineer, he was named a chemical engineer in 1970. Hsu also served as an adjunct professor of mechanical engineering at Cooper Union in New York City, 1971-73.

"Charlie did important work in several areas of the department," recalls Robert Youngblood, who heads DAT's Advanced Systems Analysis Group, in which Hsu worked. "When the reactor safety-analysis program was first begun, Charlie's knowledge of heat transfer and fluid mechanics was critical to its success. He also did pioneering work in modeling the behavior of steam generators in pressurized water reactors, and this work has played an important role in safety analysis ever since. Later, he helped resolve many issues affecting the safety of operating reactors."

Continues Youngblood, "More recently, he had worked to organize the results of risk analyses of all U.S. commercial nuclear plants into a comprehensive database intended to help the Nuclear Regulatory Commission make regulatory decisions about nuclear power-plant risk. Characteristically, he worked hard on this project, even as it became increasingly difficult in the last year for him to do so.

"Charlie was a gentle and friendly person who put the interests of others first, both personally and professionally, and who cheerfully helped out with whatever needed to be done. He was not only careful and thoughtful in his work, but also highly productive. Because of his competence and because it was a pleasure to work with him, Charlie was much in demand as a collaborator. So, he will be missed by all who knew him," concludes Youngblood.

With a B.S. in chemical engineering from the National Taiwan University, Chia-Jung Hsu studied at the University of California, Berkeley, before being granted his Ph.D. in chemical engineering from the University of Houston in 1963. He also earned an M.S. in engineering mathematics from Columbia University in 1970.

A resident of Port Jefferson, he is survived by his wife Janet; four daughters: Elinor Schriever of St. Paul, Minnesota; Nancy Grosser of Mahanoy Plane, Pennsylvania; Carol Milliman of Williamsburg, Virginia; and Grace Huibregtse of Minneapolis, Minnesota; two sons: Robert of Augusta, Georgia, and James of Ann Arbor, Michigan; and nine grandchildren.

Linux Meeting

All those interested in the Linux operating system are invited to the first meeting of a Linux local users' group, at noon on Wednesday, May 25, in the NSLS seminar room, Bldg. 725. For more information, call Rene Holaday, Ext. 5720, or e-mail rene@lsx20g.nsls.bnl.gov.

Software Demo

Marie Hoch, the federal systems representative from AutoDESK, will be in the CCD seminar room, in Bldg. 515, on Wednesday & Thursday, June 1 & 2, to demonstrate AutoCAD Designer, AutoCAD with ADE, Data translations and 3D Studio. Call Chris Neuberger, Ext. 4160, for her schedule and more information.

BWIS Meeting: Pollution in Poland

Kraków, Poland, has become one of the most polluted cities in eastern Europe, primarily because of the coal-burning boilers and home stoves that supply almost half the city's heat. Assessing this heating equipment, then developing ways to modify it to burn more cleanly is the goal of the Kraków Clean Fossil Fuels & Energy Efficiency Project.

Barbara Pierce is a member of the BNL team working with the Poles on the project. A computer analyst I in the Energy Efficiency & Conservation Division of the Department of Applied Science, she will discuss BNL's role in the project at the next luncheon meeting of Brookhaven Women in Science (BWIS), on Wednesday, May 25, at noon, in the second floor conference room of Bldg. 130.

Pierce has been at BNL since 1978, except for the four years she spent in Vienna, Austria, as a liaison with the International Atomic Energy Agency. She holds a B.A. in environmental science, from the Southampton Campus of Long Island University, and is now finishing the requirements for a master's in energy management at New York Institute of Technology.

All are invited to Pierce's talk; please bring your lunch.

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, May 23, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue.

The agenda includes regular business, committee reports and the president's report.

UNIX Training

Intermediate C++ programing and selected Solaris system-administration topics will be discussed during two classes, which are the next round of UNIX training to be offered by the Computing & Communications Division. June 13-24, intermediate C++ will be taught from 8:30 to 11:30 a.m., while Solaris system administration will be covered from 1:30 to 4:30 p.m.

The cost for each class will be approximately $400 per person. To reserve a place in either or both classes, call Maria Gatz, Ext. 5196.

Telephone Tip: Use the # Key

When you make an on-site call and connect to the Lab's voice-mail system, you can bypass the message by pressing the pound key (#). After the tone, you can leave a message.

Addled Addresses

- Brook Hauser National Lab
- Riverside County Flood Control Bldg. 459, 32 Brookhaven Avenue Upton
- Book Heaven National Laborator

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Volleyball Champions

These Rude Dogs were top dogs after clawing their way to the victory in League I. Among the rude dudes and dudettes were: (front, from left) Steve Hulbert, Nancy Lazarz, Ruimei Ma, Mark Renner; (rear, from left) Mike Sagurton, Terry Sullivan and Gail Penny. Also running with the pack, but not pictured, were Michi Miura and John Usher.

Jolly good were the Jolly Vollies as they voll-ted to the head of League III: (from left) Maryann Reynolds, Larry Musso, Jennifer Schwarz, Brian McCarrick, Mike O'Connor (holding a team member of the next generation, Michael Schwarz) and Alison Schwarz. Not pictured, but presumably also very jolly, are Kerry Bonti, Pete Bonti, Barbara McCarrick, Ann Hassig, Chris Saxen and Alan Jones.

Live, from Upton, it's Monday Night Live, which laughed its way to the top of League II with the help of: (from left) Ying Chao Zhang, Fang Shu, Johnny Kirkland, Jean Jordan-Sweet, Craig Ogata and Kathy Griffin. Not pictured are cast members Julie Leader and Art Sedlacek. — Photos by Roger Stoutenburgh

The Roofing Company were the shingle best team in the en-tile Open League this year, made up of: (front, from left) Ron Webster, Barry Karlin, Mark Renner, (rear, from left) Terry Sullivan, Jim Griffin and Mike Sagurton, who is now the first person to play on a winning team in all four leagues during his BNL volleyball career.

Healthline Lecture

At the next Healthline lecture sponsored by the Health Promotion Program of the Occupational Medicine Clinic, Ronald Paynter, M.D., will talk on "Summer-related Emergencies," on Tuesday, May 24, from noon to 1 p.m. in Berkner Hall. All are invited.

To register, return the bottom portion of the Healthline flyer recently mailed to all employees to Mary Wood, Bldg. 490, by Monday, May 23.

See *Sholay*, Do Yoga

The BERA Indo-American Society is sponsoring the following:

- **Sholay, a popular Hindi-language movie with English subtitles** — to be shown Sunday, May 22, at 2 p.m. in Berkner Hall. Tickets are $1, if reserved by today, May 20, or $2 at the door. Children under five are free.

For reservations and information, call Ramesh Gupta, Ext. 4805; Syed Khalid, Ext. 7597; Anant Moorthy, Ext. 7582; Anand Saxena, Ext. 4844; or Raj Shah, Ext. 3231, during the day; or Gupta, 924-8113, or Khalid, 744-5895, after work.

- **Yoga practice sessions** — Wednesdays, beginning Wednesday, June 1, in the Recreation Building in the apartment area from 12:10 to 12:50 p.m.

A typical session will include Suryanamaskar (sun salutation), Asanas (postures), breathing exercises and relaxation. All participants are advised to wear a loose outfit and bring a mat or large towel.

All are invited, and there is no fee for the practice. Since floor space is limited, please register with the practice leader, Smita Sathe, Ext. 3924.

At the BERA Store

In addition to many other offerings of tickets, merchandise and discount coupons, the BERA Sales Office still has available:

- **Mets tickets** — Some tickets are left for this season.
- **Disney trip** — Openings remain for September's trip to Disney World.
- **United Artists** —Discount movie theater tickets at $5 each.
- **Two-Fers** — For many Broadway shows.

For more information, call Andrea Dehler, Ext. 3347.

Amateur Radio

The Amateur Radio Club will meet on Thursday, May 26, at noon in the lounge of the Recreation Building.

All Lab employees, guests and licensed amateur-radio operators are invited to attend. For further information, contact Chris Neuberger, Ext. 4160, or Nick Franco, Ext. 5467.

Camera Club

The BNL Camera Club will meet on Monday, May 23, in Room D Berkner Hall, at noon. Topics will include: the growing role of computers in photography; the new two-minute color-developing process, RA-4; and the photo display in Berkner Hall where the club presents the photography of BNLers. Exhibitors do not have to be club members.

The Camera Club is open to all BNL employees and family. Activities include discussion groups, instructional programs, studio instruction and practice, field trips and use of the club's darkroom. For more information, call club president Ripp Bowman, Ext. 4672.

TGIF Social Tonight

Celebrate the end of the work week tonight — at the monthly informal Thank-Goodness-It's-Friday Social, sponsored by the BNL Ballroom, Latin & Swing Dance Club.

From 5:30 to 11 p.m., all are invited to the North Ballroom of the Brookhaven Center to dance the night away to selections from club member Ralph Izzo's CD collection of dance music. The suggested donation is $1 per person, and food and beverages are available at the Center Club.

For more information, contact John Millener, social chairman, Ext. 3853.

Art Bus Trip in June

One of the world's greatest collections of American antiques at Winterthur mansion in Delaware's Brandywine Valley will be the destination of the BERA Art Society's bus trip on Saturday, June 25.

The coach will leave BNL at 6:15 a.m., arriving at Winterthur at 11 a.m. after a coffee stop. At 11:30 a.m., visit the house for one hour, then lunch in the cafeteria and tour the extensive gardens, more than 200 acres.

At 2:45 p.m., leave for New Hope, Pennsylvania — a picturesque village with antique shops, cafes and a horse-drawn boat ride on the canal available — and great ice cream. The bus will arrive at 3:45 and leave at about 6:30 to return to BNL by 10 p.m.

Coach tickets are $20 each; Winterthur guided visit and garden tram tour is $10. The optional half-hour boat trip is $6, but with enough people, a group rate may apply. All are welcome. Call Liz Seubert, Ext. 2346, for information and tickets.

Water Workouts

Tone up for swimsuit season in your swimsuit: A beginner-level session of water aerobics will begin at 5:15 p.m on June 1 for four Wednesdays. Entry to the Lab swimming pool is free to those with a pool pass, or $2 per class for those without. The class may continue through July and August twice a week if there is enough interest. To register, call Mary Wood, Ext. 5923, or send your name, extension and building number to her in Bldg. 490.

Equipment Demo

Key-Trak, Inc., will focus on key and lock control and on improving security and operating efficiency, in a demonstration on Monday, May 23, from 11 a.m. to 1:30 p.m., in the Berkner Hall lobby.

Arrivals & Departures

Arrivals

Dean C. Atchison ..... Saf. & Env. Prot.
Ludmila N. Shelenkova ..... App. Sci.

Departures

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

Brett R. Marascia ..... Plant Eng.
Shobhana Narasimhan ..... Physics
Craig C. Neill ..... App. Science
Xu-Chen Wang ..... App. Science

Bowling

Red/Green League

E. Beadle bowled a 259/234/683 scratch series, R. Larsen 239/206/203/648 scratch, R. Mackinnon 235/203/636 scratch, A. Warkentien 228/220/218/666 scratch, E. Larsen 224/204/611 scratch, F. Griswold 221/216, J. Goode 218/212/211/641 scratch, R. Wiseman 218/212/627 scratch, E. Sperry IV 217/213/606 scratch, M. Guacci 214, R. Jansson 214, H. Arnesen 213, R. Raynis 210/200, T. Prach 210, K. Riker 209, R. Mulderig 204.

The Pinheads also won the second half of the season.

Purple League

Tirre Farmer bowled 215, John Addessi 213, Ray Raynis 212/209/620 scratch, Kay Conkling 206, Ben Belligan 205, Debbie Botts 181/172/171, Linda Farmer 176.

White League

Sam Logan bowled a 199/197, Eric Larson 266/225/651 scratch series, Mike Meier 229/226/211/666 scratch, Rich Larson 228, Kevin Carney 223, Joe Mayeski 219, John McCarthy 215, Lorraine Roecklein 203/194, Nancy Erickson 182, Marilyn Piccinich 181. Betty Jellet converted the 6/7 and 5/8/10 split, and Joe Sheehan the 5/7/9 split.

Awards Party

The Bowling Awards Party will be held at the Brookhaven Center on Friday, June 10, beginning at 5:30 p.m. Tickets may be purchased from Maryann Reynolds, Ext. 2352, or Debbie Botts, Ext. 7218, before Friday, May 27.

Cafeteria Menu

Monday, May 23	
Soup: Beef barley	.80/1.10
A la Carte: Steamed cod w/mustard	3.55
Fitness: Ratatouille calzone	2.75
Deli: Pastrami sandwich	2.95
Grill: Reuben platter	2.95
Tuesday, May 24	
Soup: Chicken & rice	.80/1.10
A la Carte: Veal Parmesan	3.75
Fitness: Balsamic grilled veggie tart	3.35
Deli: Virginia ham sandwich	2.95
Grill: Lamb kabobs	2.95
Wednesday, May 25	
Soup: Cream of broccoli	.80/1.10
A la Carte: Veggie au gratin	3.35
Fitness: Fruit stuffed pork loin	4.25
Deli: Hot roast beef sandwich au jus	2.95
Grill: Monte Cristo	2.95
Thursday, May 26	
Soup: Black bean	.80/1.10
A la Carte: Smoke braised short ribs	4.25
Fitness: Southwest grilled chicken	3.50
Deli: Sliced turkey w/gravy	2.95
Grill: Philly cheesesteak	2.95
Friday, May 27	
Soup: Mussel stew	.80/1.10
A la Carte: Pasta display	4.25
Fitness: Flounder julienne	3.55
Deli: Hot corned beef sandwich	2.95
Grill: Tuna melt	2.95

Daily burger specials w/16 oz. soda for 55¢

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action plan, selections are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

SCIENTIFIC RECRUITMENT - Doctorate normally required. Candidates may apply directly to the department representative named.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in physical organic chemistry with a strong background in synthetic and mechanistic aspects of porphyrin chemistry, and experience with liquid crystals, spectroscopic and vacuum-line techniques. Research involves the study of porphyrin radicals in photosynthetic and biomimetic catalytic reactions in fluid and organized media. Contact: Jack Fajer, Department of Applied Science.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry, materials science or mineralogy, with experience in powder diffraction and other characterization techniques, to participate in a CRADA directed towards asbestos conversion and remediation. In addition, the candidate may participate in a program centered on the synthesis and characterization of novel molecular sieves. Contact: Joseph Hriljac, Department of Applied Science.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 2771. ENGINEERING POSITION - (term appointment) Requires BSCE or equivalent experience and significant utility-piping construction-inspection experience. A thorough knowledge of underground piping installation procedures including: excavation, wet taps, pipe materials, joints and fittings, restrained joints and thrust blocks; pressure testing disinfection is also required. Will review shop drawings for conformance with contract documents, review contractor progress payments, monitor construction safety and conduct construction progress meetings. Plant Engineering Division.

LS 20196. BIOLOGY ASSOCIATE POSITION - (term appointment) Requires a BS in biochemistry, biophysics or molecular biology. Experience in molecular biology techniques (restrict on analyses, gel electrophoresis and DNA sequencing) is highly desirable. Responsibilities include assisting in molecular biology research on the influence of DNA configuration of mutagenicity involving gels, DNA sequencing and microbiological measurement of mutation. Biology Department.

Motor Vehicles & Supplies

93 HYUNDAI SONATA - black, V-6, anti-lock brakes, p/sunroof, anti-theft stereo, tinted windows, 4 yrs. left on ext. warr. Ext. 2459 or 287-3262 after 5 p.m.

91 NISSAN PATHFINDER - SE pkg., a/t, loaded, $17,400. Bob, 689-7963.

91 VW JETTA GL - Calypso green, 5-spd., extras, excel. cond., best offer. 874-2953, leave message.

89 JEEP WRANGLER - blue, 5-spd., 6-cyl., 4.2L, 71k hwy. mi., hardtop, am/fm cass., extras, excel. cond., $8,500. 277-3824.

89 DODGE RAIDER TRUCK - black, 4wd, 57k mi., am/fm cass., excel. cond., $8,400. Lloyd, Ext. 5225.

89 MERCURY MARQUIS LS - 4-dr., full power, leather int., landau top, orig. owner, mint cond. in/out, warr., $7,500. Bill, Ext. 3271.

88 ISUZU TROOPER - 5-spd., 4wd, am/fm stereo cass., 69k mi., mint cond., asking $6,800. Donna, 924-5062.

88 PONTIAC GRAND AM - charcoal gray, lt. gray int., 4-cyl., 110k mi., immac. cond., must see, $3,500. George, Ext. 2296.

88 TOYOTA 4RUNNER - 4wd, black, 5-spd., conv. running boards, pushbar, ac, am/fm cass., excel. cond., must sell, asking $13,500. 472-2414.

87 TOYOTA SUPRA - loaded, excel. cond., best offer. Ext. 3695, leave message.

86 FORD TEMPO - a/t, ac, 4-dr., gray, 68k mi., excel. cond., clean in/out, $2,200. A. Romano, Ext. 4024.

86 MERCURY GRAND MARQUIS LS - 2-dr., p/s, p/b, p/seats, cruise, ac, am/fm stereo cass., p/w, p/mirror, high mi., runs well, $1,300. Bob, Ext. 4782.

86 OLDSMOBILE CUSTOM CRUISER WAGON - 4-cyl., 7-pass., extras, lt. blue, dark blue velour int., 90k mi., good cond., $2,200. George, Ext. 2296.

86 RENAULT - h/b, ac, radio, tape deck, 65k mi., $1,000. John, 286-0918.

85 CAVALIER - 4-dr., 4-cyl., ac, p/s, p/b, p/w, $1,000. Walter, Ext. 4958.

85 HONDA ACCORD - maroon h/b, 85k mi., loaded, all records, no rust, runs well, cream puff, $3,300. Harriet, Ext. 3484 or 331-7917.

85 PORSCHE 911 CARRERA - conv., white, black top, leather int., p/s, p/w, ac, new brakes & sensors, Yoko-ZR-16 tires, 36k mi., $26,000. Jim, 289-0876.

85 PLYMOUTH WAGON - clean, 84k mi., fuel inj., ac, a/t, p/b, excel. cond., $1,500. 475-8971.

84 GMC 3500 - Sierra stake body dump, new starter, 292-h.p., immac. cond. Randy, 286-1330.

84 VOLVO WAGON - diesel, body & int. mint, all else new, 5k mi., ac, m/t, $4,500. Tony, 281-2513.

83 HONDA ACCORD - 4-dr. sedan, 5-spd., ac, cass. radio, 145k mi., $500. Dave, Ext. 5465.

81 HONDA PRELUDE - a/t, sunroof, good cond., very reliable, $700 firm. Bob, Ext. 5689.

81 SUBARU WAGON - 4wd, rusty but runs, $300. Paul, Ext. 7577 or 286-7127.

80 CORVETTE - tan, a/t, p/s, p/b, p/w, ac, cruise, tilt, glass T-top, rally rims, am/fm cass., $7,300 neg. Phil, Ext. 4030 or 732-8124.

78 BMW 320i, - 4-spd., new tires & radio, many extras, good cond., $1,500. Bob, Ext. 2144.

78 OLDS CUTLASS - 4-dr. sedan, V-8 260, a/t, p/s, p/b, stereo cass., $450. 821-0521.

77 STINGRAY - all white, 350, a/t, T-top, Kenwood 8000 w/equalizer, excel., sacrifice. Lynn, 289-5347.

73 OPEL GT - classic sports car, needs some work, $450 or best offer. Morris, Ext. 4315 or 929-4993.

67 MUSTANG MARK III - '71 Lincoln, rebuilt 460 engine & tranny; '77 Chevy Nova. Doug, Ext. 7698.

CAP - fiberglass, for pickup truck, 8' bed, mint cond., 475-0690.

TIRES - 2, P225x75R14, excel., $35 ea. 698-9274.

Boats & Marine Supplies

25' MAKO - 250 W/A, twin 150 Evinrude, color fishfinder/plotter, Loran, VHF, 150-gal. fuel, 25-gal. FW, extras, $27,995. 321-4755.

23' PUMA SAILBOAT - all fg, sleeps 4, galley, fixed keel, mooring, dinghy, motor, sails good shape, extra sail, $2,500. Mike, Ext. 7861 or 698-3967 eves.

22' SEAWOLF - 1988, walk-around, Suzuki 200 on bracket, DF, Loran, full canvas, 100-gal. tank, excel., $14,900 or best offer. Bill, Ext. 2095.

19½' SEA SPRITE - 1989, cuddy cabin, low hr., 130-h.p. Merc. i/o, Shoreline trailer, DF, SS radio, excel. cond., $9,300. Phil, Ext. 4030 or 732-8124.

19' CHAPARRAL 198XL - 1988, 165-h.p. Mercruiser i/o, 1993 EZ-Load Rite trailer w/power winch, am/fm stereo, mint cond., $10,500. Ext. 3376.

19' FIBERFORM - 1976, V-8 Mercruiser i/o, V-bunk, DF, VHF, needs work. Bob, Ext. 5286 or 298-9594.

19' HOLIDAY - w/cabin, 85-h.p. Evinrude, trailer, $500. 369-8683.

16' STARCRAFT - good cond., excel. for bay, $99. Zal, Ext. 7598 or 395-4220.

16' STRATFORD DORY - 15-h.p. Johnson, Highlander galv. trailer, $1,400. 929-6507 after 5 p.m.

15' BOAT - center console, fg, w/new galv. trailer, no motor, $1,500 neg.; gas tank, OMC old style 2-house type, good cond., $15. Bart, 924-6761.

KAYAK - Klepper, fg, 2-seater, w/rudder, mast, sail. $400. Ext. 7657 or 298-9560.

14' ALUM. BOAT - Sears, v.g. cond., $375. Ext. 7918.

SAILS - windsurfing, 1992 Rushwind convertible 5.7m², 1992 topsails Freewing 4.4m², excel. cond., only used one season. Joe, Ext. 7762.

Furnishings & Appliances

DINING ROOM TABLE - fruitwood, 3 leaves, breakfront, 6 chairs, $1,600; 2 end tables, Weiman marble coffee table, $200. 265-3848.

DRESSER - 6-drawer, black, 43"x17"x29", $30; dresser, 4-drawer, black, 60"x17"x35", $40. navy blue carpet, 12'x10', $30. 286-9725.

DRESSERS - 2, matching end table, cherry wood, like new, $150. 447-5096.

FURNITURE - $1,000, only sell together. Ext. 7933.

HUTCH - early American, 50"W, excel. cond. Norman, Ext. 4446 or 821-2619.

HUTCH - china closet, 56"Wx53"Hx14"D, wood, medium-tone finish, glass front, good cond., $25. Victor, Ext. 2395.

REFRIGERATOR - GE, side-by-side, $250; Maytag washer, heavy-duty, $250; Bock oil-hot water heater, 1 yr. old, orig. $800, now $450. 924-4850.

LIVING ROOM - 3-piece set, couch, love seat, chair, tan, contemporary, good cond., must see, $350. Mike, 821-9247.

SOFA - contemporary, mauve, teal, black, violet, never used, still in plastic, $400. Christine, 286-4969 after 5 p.m.

TABLE - dining room, white Formica w/drop-in leaf, 6 swivel armchairs, $250. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

WALL UNIT - 7'x11', $400; 3-seat sofa, $500; microwave, $50; keyboard, $75. Louise, Ext. 3648.

WALL UNITS - $50; Ping-Pong table, $5; exercise bike, $20; coffee table, $5; sewing machine, $20; enamel pots. Harvey, 821-1726.

AIR CONDITIONER - Friedrich Quiet Master, 8,000 Btu, window unit, excel. cond., $225 neg. Ellie, Ext. 3395 or Ken, 325-1537.

BED - queen, w/comforter, matching drapes, elec. blanket, walnut headboard, $160. I. Meyer, 929-4326.

BEDROOM - girl's, 6-drawer chest, 1-drawer storage unit, wood, white, $20/ea.; blender, 7-spd., $10; B&D iron, ProXpress, $30. Zhao, Ext. 4331 or 924-5181.

BLINDS - 1 pair, vert. beige vinyl, $20; 9 pairs Ikea, aluminum, minis, green, $5/ea.; clock, mini grandads; redwood tete-a-tete, $20; more. Sue, Ext. 7235.

CHAIRS - kitchen, 4, solid maple, like new, must take all, $15/ea. Nick, Ext. 7307.

DESK - oak, 7 drawers, glass top, $40; TV stand, $25. Ext. 5839.

DINETTE - 36"x60", tinted glass top, brass trestle base, 6 camel upholstery & brass framed chairs, excel., $325. Ext. 2876 or 345-5365.

DINING ROOM SET - Ethan Allen, table w/leaf, 2 armchairs, 4 regular chairs, corner hutch, buffet, maple, good cond., ask. $500. Bill, 331-6617 after 6 p.m.

DRAFTING BOARD - 48"x36", pedestal type, all wood, $50. Nick, Ext. 7307.

FREEZER - Gibson, upright, reasonable. 363-7032.

FURNITURE - couch, 2 tables, 2 lamps, excel. cond., $200. Angela, Ext. 5944.

LEATHER SOFA - & love seat, tan, good cond., $400; bunk beds, twin size, white metal, $60; triple pine dresser, $40. 541-6587.

LIVING ROOM SET - pink couch, stuffed chair, beige velvet swivel rocker, reasonable. 744-8276.

LOVE SEAT - & easy chair, very good cond., $150. Ofra, 821-6856.

TABLES - Thomasville, 2 end tables, 1 drum table, 1 cocktail table, all w/drawers, orig. $1,650, sell for $285. 757-5338.

WASHING MACHINE - & dryer, apt.-size, $100/both. Rick, 698-2521.

Tools, House & Garden

DOORKNOB SETS - used, bedroom, bathroom, lock sets, deadbolts, your choice, $1/ea. Pete, Ext. 5105.

FLOWERS/ANNUALS - $10/flat, $5.50/½ flat. Ray 727-6818 after 4 p.m.

HOSTA PLANTS - in clumps, 50¢/ea., Bob, 689-9234.

LAWN MOWER - 20", good, $65. Bart, 924-6761.

MILLING MACHINE - Van Norman, $900. Doug, Ext. 7698.

SHUTTERS - wood, used, seven 67"x16", nine 51"x16", make offer. Bob, Ext. 4782.

TREES - Japanese maple, $10-$45+. Mauro, 265-6542.

WORKBENCHES - 3, can be taken apart, $35/ea. 473-4738 or 267-3175.

Sports, Hobbies & Pets

BIKE - 26", Murray, girl's, $25. Bob, 689-9234.

BICYCLE - girl's, 20", pink & aqua, good cond., $25. Bart, 924-6761.

BIKE - man's, Raleigh, 5-spd., $25; Brothers Correct-o-matic typewriter, elec., $10. Ben, Ext. 473-7681.

BIKES - two, 3-spd., reasonable. 363-7032.

DOG CAGE - med. size, sheet-metal bottom, heavy wire, collapsible. Artie, Ext. 5029.

CLARINET - Normandy, wood, $200. Minette, Ext. 4726.Audio, Video & Computer

Audio, Video & Computer

CASSETTE DECK - Realistic, 1 channel works during record & playback, $10 or best offer. John, Ext. 4877.

COMPUTER - Commodore C-64, printer, disk drive, joystick, power supply, books, programs, etc., $100. 722-4489.

COMPUTER - Abest 286, 12 MHz, 40 meg hard drive, 1 meg ram, 3½" drive, two 5¼ drives, 14" mon. w/MGA, mouse, $400. Cheryl, Ext. 2272 or 732-7634.

COMPUTER - 486SX33, 4 meg, 340M drive, 5¼", 3½", SVGA, never used, $1,300. Marky, Ext. 7978.

COMPUTER - 386SX, w/387 matn coprocessor, VGA, A/D & D/A board, 2 meg ram. Ext. 7657 or 298-9560.

COMPUTER - Pet, 128 model, 4032, 2 floppies, 2031P, 2 C2N cass., model 4023, printer, best offer. Bob, Ext. 4782.

KEYBOARD - Yamaha PS20, $75; microwave oven, $50. Louise, Ext. 3648, leave message.

SOFTWARE - Microsoft Access V1.1, database for Windows, $75. Mark, Ext. 7978.

TV - 19", b&w, w/timer, v.g. cond. Frank, Ext. 3120.

Miscellaneous

CAR-TOP LIGHTS - blue, Whelan responder & two wig-wag w/built-in flasher, $40/ea. Joe, 924-7476.

COLLECTOR'S ITEM - bone china cups & saucers, some 50 yrs. old, make offer. Janet, Ext. 2345.

DESK FAN - 12", like new, $15; deep fryer, $10; Sony dream machine, like new, $15; whistling tea kettle, new, $10. Zhao, Ext. 4331 or 924-5181.

FUR JACKET - silver fox, like new, $200. Harry, Ext. 3450.

STROLLER - Craco Navy LX1, brand-new, $70. Ext. 5814 or 345-6830.

TICKETS - Islip to Florida, before June 22, round-trip, $175. Joann, Ext. 7009.

TREEHOUSE - Little Tykes, good cond., $20; fire engine, ride-in, pedal powered, $8; tricycle, $5; crib mattress, $5. Kathy, 821-1252.

WREATHS - grapevine, wine cork, all sizes, shapes. Lois, Ext. 3315 or 929-4753 eves.

Lost & Found

FOUND - historical letter about Abraham Mulford Jr. of Southold during the 1800s. Public Affairs, Janet, Ext. 2345.

Free

DOG - adopt Ernest, 18-mo.-old dobie-bloodhound mix, super family & watchdog. 588-2370.

REFRIGERATOR - good for garage as beer box. Sue, Ext. 7235.

Yard & Garage Sales

MILLER PLACE - 5/21-22, 10-4 p.m., between pond & firehouse, furn., household items, frames, dog kennel, jewelry, fish/hunt equip., records.

Wanted

BABY-SITTER - mature woman to care for 3 children in my Coram home, 9:30 a.m.-6:40 p.m., M-F, need own car. 736-7131.

BABY-SITTER - first-grade boy at your home, on-site resident only, playmate preferred, 6/27-7/1, 7/11-7/15, 8:30-5:00. Tim, Ext. 3814.

CAR - '85 Buick Century, for parts. Artie, Ext. 5029.

COMPUTER - Commodore 64. Peter, Ext. 4272.

DANCE STUDENTS - learn dance for the Pharaohs, ancient art form of Middle Eastern dance, class starts June. Sabiha, 399-1237.

DIRT BIKE - up to $700. Roy, 727-6714.

HOMES - apt., condos, rooms for rent, houses to share, short-term rentals for BNL guests. Marie, Ext. 4489.

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

PING-PONG TABLE - slide projector. Ext. 7849 or 821-0459 eves./wknds.

PORCH SWING - bench-like, chain-suspended, for 2 or 3 people. John, Ext. 7671.

PUPPY - if your dog had a litter, call us before you call the shelter. Jeff, Ext. 2959.

On-Site Services

OMEGA LEISURE TRAVEL - located in Berkner Hall for all your travel needs, open M-F, 10 a.m.-2 p.m. Kerry Fitzgerald, travel rep., Ext. 5918/5958.

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste.