BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

George Malosh New DOE Brookhaven Group Manager; Dean Helms Resumes Jefferson Lab Manager's Post

Effective Monday, June 29, George Malosh assumed the leadership of the U.S. Department of Energy's (DOE) on-site Brookhaven Group, succeeding Dean Helms, who is returning to his post as DOE's Manager of the Thomas Jefferson National Accelerator Laboratory in Virginia (see box on page 2).

The announcement was made on June 30 by Martha Krebs, Director of DOE's Office of Energy Research.

Former Energy Secretary Federico Peña, in one of his last messages before stepping down from that position on June 30, said: "In May 1997, I made a commitment to Brookhaven's stakeholders and employees to set this important Laboratory on a new course that strikes a balance among scientific accomplishment; excellence in environment, health and safety; and being a good neighbor in the community. I want to thank Dean Helms for taking the first steps to making this commitment a reality. He has made outstanding contributions these past 15 months. I am confident that George Malosh will continue the real progress that the Department has made. I also want to thank the Long Island community for their interest and participation in departmental decision-making on Lab issues."

U.S. Department of Energy Brookhaven Group (DOE BG) Manager George Malosh (left) and outgoing DOE BG Executive Manager Dean Helms are pictured at the press conference held on Malosh's arrival on June 30 at BNL.

Photos on this page by Roger Stoutenburgh

As Manager of DOE's Brookhaven Group, Malosh oversees Brookhaven Science Associates (BSA), DOE's management and operating contractor at BNL. In this capacity, he has responsibility for all technical and administrative activities at BNL, including its annual budget of approximately $400 million. He also oversees the Lab's science and technology programs, and ensures safe and environmentally sound management of all major research facilities, as well as managing an office of more than 30 federal employees.

Said Krebs, "Mr. Malosh has committed to build on Brookhaven's strengths and enhance the efficiency and effectiveness of Laboratory operations. He brings a fresh, active approach to management that considers science, the environment and the community. Mr. Malosh will ensure a smooth transition of this world-class facility into the 21st century."

At a news conference held on his arrival at BNL on Tuesday, June 30, Malosh commented on the "very exciting, world-class science being done at the Lab," and on the Lab's "well-deserved reputation around the world as a premier science facility."

Among his top priorities, Malosh

(continued on page 2)

Researchers Find Hi-Tech Advance In 4,000-Year-Old Mesopotamia

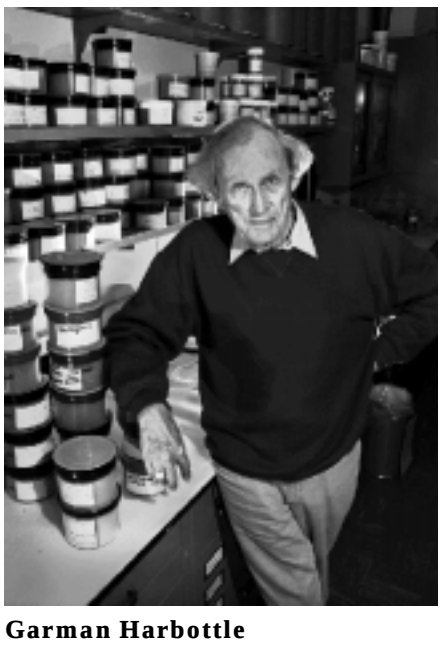
Did ancient Mesopotamians — who lived 4,000 years ago in a river plain with no rocks, metal ores or trees — know of a high-tech way to make their own grindstones?

Yes, is the conclusion based on a new archeological finding reported in *Science* of June 25: Ancient Mesopotamians may have melted river sediment at more than 1,000 degrees Celsius in giant furnaces, then gradually cooled it for more than a day until it hardened into just the right texture for synthetic grindstones.

The Mesopotamian region, located in the plain of the Tigris and Euphrates rivers, is widely accepted to be the birthplace of modern western civilization. The recent finding was made by the research team led by Elizabeth Stone with Don Lindsley, State University of New York at Stony Brook (USB), and including Garman Harbottle, BNL's Chemistry Department, and others from the University of Pennsylvania and Alfred University.

To reach their conclusion, the researchers determined the microscopic structure of hard slabs found at an ancient site called Mashkan-shapir,

(continued on page 2)



Garman Harbottle

BNL Samples Peconic In NYS Investigation Of Peconic Fish Kill

At the request of the New York State Department of Environmental Conservation (NYSDEC) on Wednesday, 8 July, Rich Lagattolla, Bob Lee and Jan Naidu of BNL's ES&H Services Division have resampled the Peconic River, from its headwaters on site to 3 miles down stream, collecting water to be used in the investigation of the death during the week of June 22 of approximately 2,000 fish in Donahue's Pond.

The pond, which is part of the Peconic River system, is 3.4 miles east of BNL, and the Lab and the U.S. Department of Energy are cooperating fully with the NYSDEC, as it looks into the possible causes. In fact, Lee and Naidu conducted the first sampling run of the Peconic with the NYSDEC on July 2.

The samples will be analyzed for ammonia, biochemical oxygen demand, conductivity, dissolved oxygen demand, nitrates and nitrites, pH, temperature, total nitrogen, and total phosphate. Results are expected next week.

During the time when the fish kill occurred, BNL's sewage effluent, which is discharged into the Peconic, was well within all the limits set by its permit issued by New York State. Data taken daily from the permitted outfall of the Lab's sewage treatment plant on conductivity, dissolved oxygen, pH and temperature will also be used by the NYSDEC to help in its investigation.

Chemistry Department Turns Over a New LEAF

LEAF's official opening on May 18 brought together representatives from BNL, the U.S. Department of Energy (DOE) and Northrop Grumman, which built the sophisticated electron accelerator that is the heart of the new facility. From left are: Carol Creutz, BNL Chemistry Department Chair; Alan Todd, of Northrop Grumman's Advanced Systems & Technology Division; James Wishart, LEAF's facility supervisor; Robert Marianelli, Director of DOE's Division of Chemical Sciences in the Basic Energy Sciences Division; John Marburger, BNL Director; Norman Sutin, head of BNL's Photo and Radiation Chemistry Group; and John Miller, Argonne National Laboratory, the future leader of BNL's radiation-chemistry research effort.

A powerful new facility in the basement of the Chemistry building is giving chemists a glimpse of chemical reactions as no other machine in the world has done before.

Called LEAF, for Laser Electron Accelerator Facility, the chemical "camera" can take a "picture" of interactions between molecules every five trillionths of a second. The $2-million facility, funded by the U.S. Department of Energy's Office of Basic Energy Sciences, is the first such accelerator in the world to be dedicated to chemistry.

LEAF is based on an innovative design that uses a titanium-sapphire laser to excite bursts of electrons off a metal cathode. The photoelectrons are then boosted to higher speeds by an accelerator made by Northrop Grumman Corporation, based on pioneering work by scientists at BNL's Accelerator Test Facility.

LEAF can produce pulses of electrons that have up to 9 million elec-

(continued on page 2)

Chemistry Department's New LEAF

(cont'd.)

Roger Stoutenburgh

Chemist Jim Wishart (right) and Steve Howell, LEAF's facility technician, at the control panel that runs LEAF's laser, accelerator, and two beam lines.

tron volts of energy, but last only five picoseconds, or trillionths of a second.

The laser and electron gun are synchronized to an accuracy of just one picosecond, to make electron pulses that can reveal in "freeze frame" what's happening in a chemical reaction in a sample at the end of the beam line.

Scientists from BNL and their collaborators are already using LEAF to get a unique view of the reactions governing chemical processes in the human body, the environment and industry. Studies at LEAF will help advance studies of everything from new energy sources and environmental cleanup technologies to Lou Gehrig's disease. — Kara Villamil

George Malosh

(cont'd.)

said, would be safety and environmental concerns, continuing to rebuild the trust and confidence of BNL's neighbors, and reaching out for community involvement, which "can and should be happening routinely as part of the way we do business."

He also commented that Dean Helms, BNL Director John Marburger and the new BSA management team have already made significant progress in these areas. Malosh said he looks forward to working closely in a cooperative relationship with Marburger, who is also BSA president.

Just the day before, Malosh had returned to the U.S. from Australia where, since 1991, he had served as Director of the Nuclear Technology Division, Australian Nuclear Science & Technology Organization. His principal responsibilities were overseeing Australia's only nuclear research reactor, corporate waste-management services and project management.

As Nuclear Technology Division Director, Malosh had experienced the effects of community concern first hand, when the Australian government had announced the replacement of the 10-megawatt research reactor, which was about a third of the size of BNL's High Flux Beam Reactor (HFBR), with one which would operate at 20 megawatts. Openness, meeting with the community and listening to all viewpoints had been the response to this concern, he said.

In answering other questions at the press conference, Malosh said that he believed that a reactor can be operated at BNL without presenting a danger to the surrounding community. No decisions could or should be undertaken on the HFBR, according to Malosh, until the process of the present environmental impact statement and other relevant investigations are complete, but he offered the opinion that reactor operation and a sole-source aquifer are not mutually exclusive.

Born in Scranton, Pennsylvania, Malosh received B.Sc. degrees in physics and mathematics from the University of Scranton in 1963 and a M.Sc. from the University of Pittsburgh in 1965. Before moving to Australia, he served in several management positions for the Westinghouse Electric Corporation at the Bettis Atomic Power Laboratory in Pittsburgh.

— Liz Seubert

Send FY99 CRADA Preproposals by 8/12 ; DOE Will Fund 3 to 4 Projects Per ER Lab

The U.S. Department of Energy's (DOE) Office of Energy Research-Laboratory Technology Research (ER-LTR) program has announced that funding is available to support three to four new Cooperative Research & Development Agreements (CRADAs) at each of the five multiprogram ER national laboratories. Each project will be funded at approximately $250,000 per year for three years.

• **Schedule**: DOE has asked for a maximum of ten proposals from each laboratory. Also, to minimize proposal development efforts, DOE has asked that each principal investigator first prepare a preproposal outline of two to four pages in a specified format. **A hard copy and a disk in WordPerfect format of all BNL preproposals must be submitted to Mike Furey, Director's Office, Bldg. 475D, by no later than Wednesday, August 12.**

After evaluation by August 26, BNL management will select a maximum of ten projects for full proposal development. The full proposals must be submitted to DOE by October 1. Based on peer review, DOE will make the final selections by December 15.

• **Criteria**: As in the past, CRADA projects are expected to reflect a 50-50 cost-shared research partnership between BNL and an industry partner, supporting both the DOE-ER research mission and the research objectives of the partner.

Projects are expected to be of strong scientific and /or technical merit, relate to high-risk, challenging scientific problems, and have strong industry involvement and promising commercial potential. Projects involving interdisciplinary research at BNL and using BNL's user facilities will be preferred.

DOE's ER-LTR representatives expect projects to capitalize on ER's basic research investments and benefit ER's research mission. The representatives will preferentially consider projects involving a collaboration between two or more ER multiprogram laboratories or that contain a letter of commitment from another DOE program for partial funding.

A memo detailing the call for preproposals, specified format, schedule and criteria for preproposals was sent by Margaret Bogosian, Manager, Office of Technology Transfer (OTT), on June 18 to all members of BNL's research staff. For a copy of the memo or for more information, call Furey, Ext. 2103.

Helms to BNL: 'Brightest Days Ahead'

By mid-July, Dean Helms, who has been the Executive Manager of the U.S. Department of Energy's (DOE) on-site Brookhaven Group since last August 1, after three months of serving as Deputy Executive Manager, will have returned to his full-time duties as the Site Office Manager at the Thomas Jefferson National Laboratory in Newport News, Virginia. In taking leave of BNL, Helms has written the following open letter:

To the Employees of Brookhaven National Laboratory:

As I complete my assignment at Brookhaven, I want to thank everyone at the Laboratory for all you have done to make my stay so rewarding. I am truly proud to add Brookhaven to my résumé.

From the very beginning, more than 14 months ago, you welcomed John Wagoner and me, and you demonstrated that you wanted to work with us in partnership to build a stronger institution for the future. Yes, we were all anxious about the future of the Laboratory, but our common goal was (and remains) to ensure the best possible research environment, while putting measures in place for the long term to integrate operational excellence; quality performance in environment, safety and health (ES&H); and achievement of "good neighbor" status in the local community.

Significant progress has been made since May 1997 toward our goal, but much hard work remains. As I have often stated, we all owe Peter Bond and Mike Bebon a huge debt of gratitude for their interim leadership last year. They certainly provided the stability and direction for the Laboratory so vital during that critical time.

Brookhaven Science Associates has been on board as the new management and operating contractor for about four months, and the signs of new vision and direction are becoming more apparent every day. Jack Marburger and his management team have worked hard with the DOE Brookhaven Group and me to define critical outcomes for the next few years, covering all aspects of the Laboratory's mission — from scientific research to supporting services, ES&H and community involvement. I am extremely optimistic that once these critical outcomes are achieved, in the not too distant future, Brookhaven will be recognized as a model laboratory in the DOE system and as a model neighbor on Long Island.

I am delighted that George Malosh has arrived at the Laboratory as the new Manager of the Brookhaven Group, and I am convinced that he and Jack Marburger will work effectively together to provide strong leadership for the future. George has a wealth of practical, hands-on experience in the research world and a track record of success in working with stakeholders. His strong technical and management background will be a major asset for the Laboratory and DOE.

Brookhaven has enjoyed a truly remarkable history of scientific achievement, but I firmly believe, as most of you do, that the Lab's brightest days are still ahead. I urge everyone at the Laboratory to dedicate themselves continuously to improving their own important contributions to the successful future of the Laboratory. I will follow your progress closely because I now have a strong vested interest.

Best wishes to all!

Dean

K. Dean Helms

Mesopotamia

(cont'd.)

located south of modern-day Baghdad, Iraq, and also by comparing their composition with a database of geochemical information assembled during the 1970s by Edward Sayre, then of Chemistry, Harbottle and their group, using neutron activation techniques at the High Flux Beam Reactor.

An archeologist in USB's Archeological Department, Stone had obtained samples of the synthetic-basalt rock on a dig in 1990 before the Gulf War restricted access to the site. At first, the researchers thought the sample slabs were slag remnants from small pottery kilns or copper smelters.

On closer inspection, however, they were seen to be of a size that could only have come from much larger furnaces. In fact, their analytical composition closely resembled that of a naturally formed basalt rock found several hundred miles away, that the Mesopotamians had imported for grindstones.

USB's Stone suspects that the Mesopotamians deliberately made the slabs for such uses as grinding grain, perhaps to save the expense of importing natural basalt. To develop such an advanced pyrotechnology, she said, would have required the ancients to conceive of melting river silt into rock, then to build large furnaces that could achieve high temperatures, and, finally, to experiment with approaches that would yield a consistent product.

According to Harbottle, "The slabs were initially thought possibly to be copper-smelting slags, but, as the early Mesopotamians rarely got more than about 20 or 30 percent of the copper in the ore, if they were copper slag, they should have contained lots of copper."

Through working on advanced radiation-measuring devices in 1992 with Jim Cumming, BNL Chemistry, and Sheldon Landsberger, then of the University of Illinois at Urbana and now at the University of Texas, Harbottle knew that Landsberger had developed the most sensitive neutron-activation technique for trace copper detection.

"I sent Elizabeth's pseudo-basalt from Mashkan-Shapir to Sheldon," said Harbottle. "He applied his new technique and found no copper whatever. So, the copper smelting slag idea was out. Then Elizabeth and Don Lindsley started to think of melted silt. The analysis was compared with our old database and Don found microcrystallinity that was very significant — and that's how the synthetic basalt idea evolved."

Later Pyrotechnics

Harbottle pointed out that there may be an echo of this advanced Mesopotamian pyrotechnology a thousand years later in the Biblical story of Nebuchadnezzar, king of Babylon, and the fiery furnace (*Daniel*, 3).

The king ordered Shadrach, Meshach and Abednego thrown alive into a furnace that had been fired "seven times more than it was wont to be heated," so hot that, according to the story, the soldiers who forced the three into the fire died from the heat.

"Of course, a thousand years is too long for even an indefinite link to be suggested," admitted Harbottle. "But it's all in the same river plain. Who knows?"

— Kara Villamil and Liz Seubert

Lab Helps Students, Wins Recognition From Suffolk Tech-Prep Consortium

Honoring BNL for supporting high-tech career-education programs, the Mid Suffolk Tech-Prep Consortium of Bellport, represented by Program Administrator John Volont (right), presented Renée Flack and Karl Swyler of BNL's Educational Programs Office (EPO) with a certificate of appreciation at a recent awards breakfast in Melville. Supported primarily by the New York State Education Department and federal funds, the Mid Suffolk Tech-Prep Consortium provides applied and technical courses for high school and college students to help prepare them for careers in the high-tech workplace. Last year, as a result of EPO efforts and cooperation from Lab departments and divisions, BNL hired eight Suffolk County Community College students, who learned skills while they worked part-time at the Lab in such fields as computer technology, electronics and biology.

BWIS Meeting

Brookhaven Women in Science (BWIS) will hold a BWIS Members' General Meeting on Wednesday, July 15, at noon in Room C, Berkner Hall, to discuss BWIS goals and vote on charter revisions.

Equipment Demos

MD&I/Computer will hold a computer show of desktops and laptops in Berkner Hall lobby on July 15, 11 a.m.-3 p.m. Representatives will be on hand to discuss the IBM, Pentium and other systems, as well as discuss sales, service, upgrades and repair. For more information, call 1-888-634-9687 or (718) 896-6016, e-mail mdi3529085@aol.com, or visit the website www.mdinotebook.com.

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On Thursday, July 16, from 10 a.m. to 2 p.m. in Berkner Hall, CTP Wireless World will discuss its digital personal communication services' corporate program, which has rates as low as 20¢ per minute, a monthly access charge as low as $19.99 and includes 40 minutes of air time per month.

CTP will offer a special AT&T Wireless Services corporate cellular rate; free digital features such as caller ID, voicemail with notification, numeric paging and self-dispatch alphanumeric messaging; and three free digital phones: the Nokia 2160, the NEC DT 2000 and the Ericsson DH318, each with battery, AC charger, cigarette lighter adapter and carrying case. Call Michael Weisinger or Dennis Lamm at 585-2900 for more information.

Arrivals & Departures

Arrivals

Hans G. Dilly-Hartwig.....Biology
Andrea E. Feitag.....Chemistry
Ognian B. Novakov.....RHIC
Michael J. Rau.....Plant Eng.
Anthony J. Sette.....Plant Eng.

Departures

Michael J. Behrenfeld.....App. Science
Sanjay Chaturvedi.....Chemistry
Vanessa E. Crump.....Adv. Technology
James B. Cumming.....Chemistry
Leonard C. Emma.....Waste Management
Helmer Emos.....Medical
Paul G. Falkowski.....App. Science
Maxim Y. Gorbunov.....App. Science
James G. Guppy.....Adv. Technology
Kenneth B. Kim.....Plant Eng.
Dorota Kolber.....App. Science
Zbigniew S. Kolber.....App. Science
Oswaldo Soto.....Plant Eng.
Ashok N. Vaswani.....Medical

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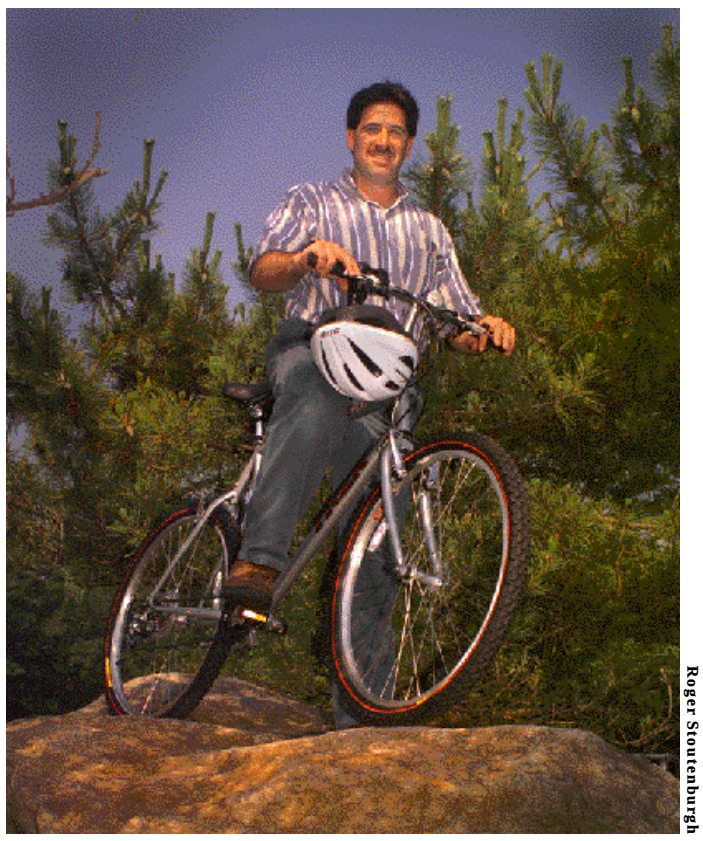
Kentoffio Wins Mountain Bike; 83 Percent Participate in Survey



Roger Stoutenburgh

Out of the 83 percent of employees — 2,570 out of 3,096 total — who filled out their Organizational Survey, Ken Kentoffio won the random drawing for the mountain bike offered as a survey-participation incentive.

While Kentoffio (pictured) of the Plant Engineering Division rode away with the bicycle, the other 2,569 employees who had filled out and filed their surveys are also winners, according to Lorraine Merdon, who chaired the Survey Steering Committee.

By participating in the survey, "Employees ensured that the results of this survey will present a statistically significant look at BNL, with all groups represented," Merdon explains. "The percentage of the response is excellent, especially for an institution of this size, and we thank the department and division contacts who distributed the survey, as well as each individual who took the time to participate."

The survey is now being analyzed by International Survey Research, the consultant that developed it. According to Merdon, survey results are expected to be delivered to Lab Director John Marburger by mid-August, after which they will be reported to the Lab community.

BERA Summer Offers

Tickets will be on sale, first-come, first-served, at the BERA Sales Office in Berkner Hall, Tuesday-Friday, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or M.Kay Dellimore, Ext. 2873.

- **Splish Splash and Save, Saturday, July 25**: BERA has a limited number of discounted tickets to Splish Splash, Long Island's water park, for July 25 only. For that day, you can pay $15 instead of $20 per person to splish and splash in tube rides, family rides and thrill rides; or stroll on the Boardwalk to buy food and ices. or play a game at the Arcade or shop. Splish Splash, located at exit 72 on the Long Island Expressway, is open from 9:30 a.m.
- **Summer Splash at BNL Center, Friday, July 31**: Eat, dance and relax with friends and co-workers at the first annual BERA Summer Splash! to be held rain or shine, 5:15-11 p.m. on the Brookhaven Center Patio; $5 per person includes admission, two hot dogs, a soda and music by deejay E.T.
- **Six Flags/Great Adventure, Saturday, August 8**: Enjoy Batman Ride, the Great American Scream Machine, the Viper and much more; $45 per person includes admission and round-trip bus transportation.

Don't Look Now!

The Safety Glasses Office, Bldg. T88, will be closed on Wednesday, July 15.

Summer Sundays Tours Start Sunday

Have a Hair-Raising Good Time At the Whiz Bang Science Show

The Lab's annual Summer Sunday tours for community members, Long Island tourists, and BNL employees and visitors start this Sunday, July 12, and you are invited to have a hair-raising good time during one of this summer's features — the Whiz Bang Science Show. Fun for children of all ages, the show is a lively, interactive demonstration of basic scientific principles (see photo), and it will be presented each Sunday of the tour season at 10:30 a.m., noon, 1:30 p.m. and 3 p.m. in Berkner Hall.

This season, each Summer Sunday will also offer an insiders' look at a different Laboratory facility — and this Sunday's mini-tour will be of the Medical Department, Bldg. 490, where research on improved methods of diagnosing and treating cancer is ongoing. Next Sunday, July 19, visit the Relativistic Heavy Ion Collider project, soon to be the world's highest-energy collider of heavy ions and the place where scientists will recreate the conditions of the universe immediately after the Big Bang.

In addition to the Whiz Bang Science Show and a mini-tour of a different facility, Lab tourgoers will get a guided bus tour of the entire site.

Running on Sundays through August 30th, tour hours are from 10 a.m. to 5 p.m., but participants must arrive before 3 p.m. For more information, call the Community Involvement & Public Affairs Office, Ext. 2345.

Pick a Student Today!

Today is the last day to choose one of the undergraduate students from the electronic applications submitted for the 1998 Fall Energy Research Undergraduate Laboratory Fellowships (ERULF) Program offered by the U.S. Department of Energy. Obtain address and passwords from the Office of Educational Programs (OEP), Ext. 4503, or from your departmental education coordinator.

Under the fall ERULF program at BNL, freshmen through senior undergraduates spend ten weeks — August 24 through December 11 — at the Lab doing research under the guidance of one or more BNL staff members. OEP will pay for the student's round-trip travel and stipend of $300 per week. The sponsoring department will pay housing costs of $108.50 per week.

Bldg. 480 Outage Starts 5 p.m. Today

The Electrical Maintenance & Services Group of the Plant Engineering Division has scheduled maintenance on the east and west substations serving Bldg. 480. As a result, there will be a planned outage in that building from 5 p.m. today, Friday, July 10, through 6 p.m. tomorrow, Saturday, July 11. If this presents any problems, then contact Bill Softye, Ext. 2802, or voice pager 2719.

Where's Waldo? Entries Due 7/17

If you can find Waldo in the historic BNL 50th-anniversary human formation photograph, then you may win one of the official, limited-edition, BNL-50 T-shirts, now on sale at $10 at the BERA Sales Office, Berkner Hall, Tuesday through Friday, 9 a.m. to 1:30 p.m.

Waldo originated in crowded, well-drawn scenes in children's books by Martin Handford. Waldo can also be found within BNL's 50th-anniversary photo, which is posted in Berkner Hall or found in the Bulletins of December 15, 1997, and June 19 and 26, 1998.

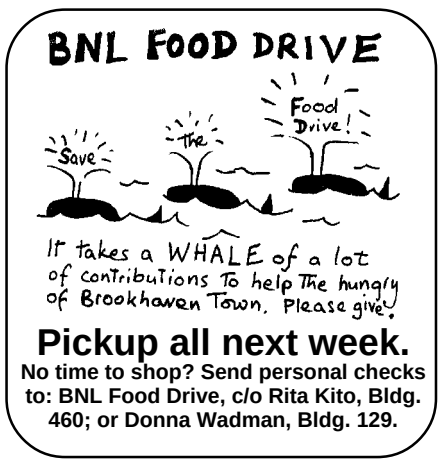
To enter, circle Waldo on one of those Bulletins or describe his location in a note. Send that with your name, Lab building and extension to the Brookhaven Bulletin, Bldg. 134, by Friday, July 17. A drawing from among the correct answers may win you a BNL-50 T-shirt — two, if you find yourself in the picture also.

So find Waldo now!

BNLers Give 286 Units

The spring blood drive held at BNL on June 16 & 17 yielded 308 BNLers who volunteered to give blood and 286 who were able to donate. As a result, 286 units of blood were collected to help stock the shelves of Long Island's blood banks.

For taking time out of their busy work days in to try to meet this community need, blood drive chair Susan Foster, Human Resources Division, thanks all who came out to give — including BNL's Director, John Marburger.



Softball

Results Reported as of July 3:

League E1		League M1	
Magnuts	6-1	Gour-Mets	7-1
Cobras	5-2	Happy Hour	6-1
Cleen Sweep	4-3	OER Wellheads	2-5
Blue Jays	3-4	Stingrays	1-7
Phoubars	3-4		
Scram	0-7	**League M2**	
League E2		Here for the Beer	3-2
Hammerheads	6-2	Odd Sox	3-2
Gas House Gorillas	5-3	Skeleton Crew	2-2
Mesocyclones	5-3	Ten Samurai	0-4
Rockets	5-3	**League E3**	
CCD	4-4	Bombers	5-2
Hy Tech	3-5	Sure Fire	5-2
Lights Out	3-5	Medical	3-4
Phase Out	1-7	Sultans of Swat	1-6

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered 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, disability or veteran status.

Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for 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; call the JOBLINE, Ext. 7744 (344-7744), for a complete list of all job openings; use a TDD system to access job information by calling (516) 344-6018; or access current job openings on the World Wide Web at http://www.bnl.gov/JOBS/jobs.html.

The following vacancies are exempt from the Director's hiring freeze.

SCIENTIFIC RECRUITMENT - Doctorate usually required. Send C.V. to M. Kipperman, Bldg. 185.

MK7419. POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry, with experience in organometallic and/or inorganic chemistry, and in handling air-sensitive compounds. Experience with NMR spectroscopy, organometallic synthetic procedures, kinetic and mechanistic studies, photochemistry and catalytic reaction is preferred. Collaborative research between the Photochemistry/Radiation Chemistry Group and the Homogeneous Catalysis Group will be encouraged, including new studies in aqueous organometallic chemistry. Under the direction of M. Bullock. Chemistry Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD7474. SECRETARIAL POSITION - (part-time) Requires a high level of competence in secretarial, organization and communication skills, and the ability to work under minimal supervision. Knowledge of IPAP, Inform, WordPerfect and MSWord also required. Primary duties will include processing NSLS publications and library organization. Will job-share as secretary to the Operations and Accelerator Test Facility Groups. National Synchrotron Light Source Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

MK7891. ASSOCIATE DIRECTOR FOR LIFE SCIENCES - Will assume line management responsibility for the Biology and Medical Departments, and provide oversight and planning for the life sciences throughout the Laboratory. Must have an international reputation, and the breadth and scope to promote a stimulating research-and-development environment across the range of life-science activities. Must be able to communicate effectively with scientists and staff, research sponsors and the public, and to facilitate cordial relationships with the State University of New York at Stony Brook and Cold Spring Harbor Laboratory. Director's Office.

NS7587. PROGRAMMER/ANALYST POSITION - (reposting) Requires an MS in computer science, physics or related field, with at least several years' experience in database management and software development. Experience in a scientific environment is preferable. Database design experience and good problem-solving skills are required. Experience in C, C++, Java or Perl languages is highly desirable. Sybase experience desirable. Will participate in database design and development of database interface tools for the accelerator-controls environment. Alternating Gradient Synchrotron Department.

NS6493. COMPUTER ANALYST POSITION - Require a BS in computer science or related discipline, several years' experience with Oracle RDBMS, UNIX (Solaris, Linux), NT, and experience with Perl, HTML/CGI and Visual Basic. Working knowledge of Windows 95 and MS Office products is highly desirable. Will develop and maintain database applications in support of Division operations, perform NT and UNIX system administration tasks and assist with administration of databases and networked applications. Environment, Safety and Health Services Division.

NS7386. DATABASE DEVELOPMENT ANALYST - Requires a BS in computer science or equivalent experience, and hands-on experience in logical and physical design and implementation of relational databases. Experience in client-server and/or distributed data architectures, data warehousing and working knowledge of Oracle and/or Sybase is necessary. Knowledge of object-oriented concepts and methodologies is a plus. Financial Services Division.

NS7422. CHEMISTRY ASSOCIATE POSITION - (term appointment) Requires an MS in chemistry or other appropriate discipline, to perform micro-dialysis studies. Will set up a new micro-dialysis system for the analysis of acetyl choline and perform some synthetic chemistry. Will administer anesthesia, perform surgery to implant micro-dialysis probes; administer drugs and perform HPLC, including peak analysis. Chemistry Department.

DD7703. TECHNICAL POSITIONS - (temporary positions) Under direct supervision, will perform cable installation. Agility, stamina and the ability to work at heights of up to 25 feet are required. Previous relevant experience highly desirable, as is the demonstrated ability to work as part of a team. Alternating Gradient Synchrotron Department.

DD7702. DRAFTING POSITION - (term appointment) Requires an AAS degree or equivalent work experience. Under minimum supervision, will perform non-routine drafting tasks. Must have an advanced knowledge of mechanical and electrical drafting procedures, and experience using AUTOCAD LT or AUTOCAD 13. Alternating Gradient Synchrotron Department.