BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

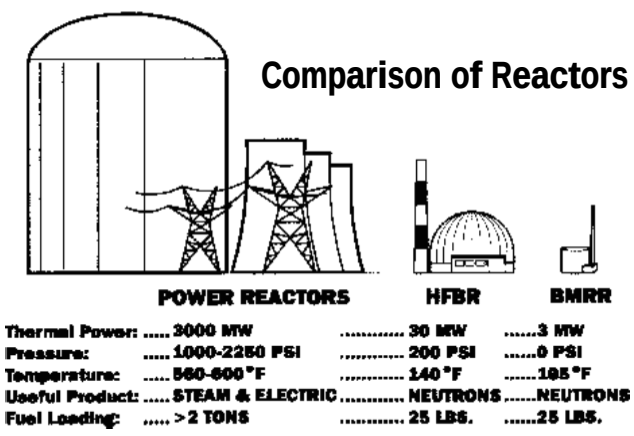
BNL's Reactors Discussed at Meeting of Community Group

As reported by the Bulletin last week, the Community Work Group met at Berkner Hall on Thursday evening, May 23, to hear an overview on BNL's two research reactors — the High Flux Beam Reactor (HFBR) and the Brookhaven Medical Research Reactor (BMRR).

Organized by community members in January to serve as a conduit between BNL and the community, the community group has had numerous meetings both on and off site to consider various environmental issues, including groundwater contamination caused by the Lab; county, state and federal environmental regulations; and public water supplies.

Last week's program on BNL's reactors was subdivided into six sections: experimental programs, description of reactors, environmental monitoring, safety analysis, emergency planning and future plans.

John Axe, Head of BNL's Center for Neutron Science, began with a summary of experimental programs at both reactors. According to Axe, about 300 researchers from around the country use the reactors, whose function is to produce neutrons for research. He described the benefits of research reactors, such as the development of medical isotopes and improved cancer therapies, biomedical applications, better materials and basic research.



Vital to Research & Medicine

Axe cited examples of beneficial research at BNL's reactors, such as the medical isotope technetium-99m, used in 10 million nuclear medicine procedures annually in the U.S. alone; boron neutron capture therapy for brain tumors, now being tested by a second round of clinical trials; research leading to clot-dissolving chemicals; and polymer "sponges" to clean oil spills, being studied by Exxon.

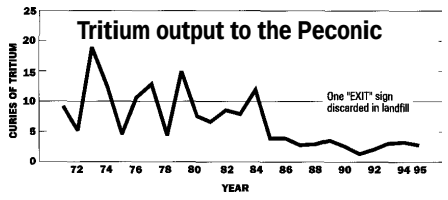
David Rorer, Reactor Division Manager, presented an overview of BNL's reactors, starting with a description of how they work, how they are controlled, and how they compare with power reactors.

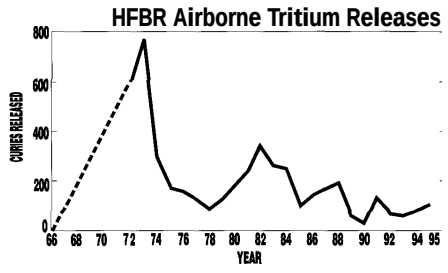
Small Reactors, Tiny Emissions

He pointed out, for example, that the HFBR is 100 times smaller than a power reactor; operates at pressures 5-10 times lower than a commercial plant; and runs at a temperature of 60°C (140°F), In contrast, the boiling point of water is 100°C (212°F).

Speaking to environmental emissions, Rorer said the BMRR emits argon-41, a radioactive gas with a half life of 1.8 hours. The HFBR emits tritium, which has a half life of 12.3 years.

Tritium from the HFBR is released either as a gas, via the 300-foot red-and-white stack next to the HFBR dome, or as a liquid, to the Lab's sewage treatment plant. In either case, tritium releases from the HFBR have been steadily reduced over the years:





Picking up a water bottle, Rorer graphically displayed the average quantity of tritiated water released to the Peconic riverbed each year — one liter.

What do these emissions mean? Health Physicist Gary Schroeder, from

(continued on page 2)

Review Showcases Programs for Women At DOE Labs

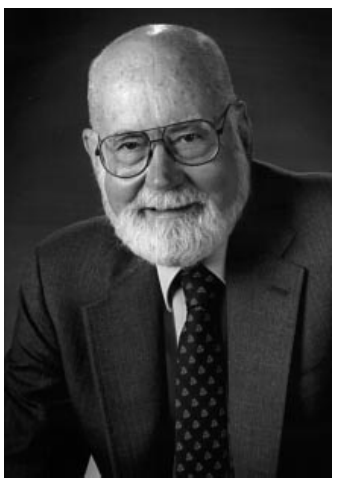
The 5th U.S. Department of Energy (DOE) Review of Laboratory Programs for Women was held at BNL May 6-8. Co-chairs were: (center back) Victoria McLane, BNL, and (right) Dori Barnes, Princeton Plasma Physics Laboratory. They are shown with (left) Abbie Layne, from DOE's Morgantown Energy Technology Center, who, with McLane, is co-chair of the DOE Points of Contact Committee, and (seated) dinner speaker Joyce Justus, Office of Science and Technology Policy, Executive Office of the President. (See story on page 2.)

— Photo by Roger Stoutenburgh

Van Slyke Distinguished Lecture

Bone-Marrow Transplantation: A History and Update

Bone-marrow transplantation, also known by the medical term hematopoietic cell transplantation, was first developed in the 1950s for the treatment of leukemia and irradiation accidents. Over the last half-century, new knowledge of genetics and the development of anti-rejection drugs have led to the successful use of bone marrow transplants for a wide variety of diseases.



E. Donnall Thomas

One of the world's most eminent experts on bone-marrow transplants will offer new insights on the subject in the next Donald Van Slyke Distinguished Lecture on Wednesday, June 5, at 4:30 p.m. in Berkner Hall. Nobel laureate E. Donnall Thomas, Professor Emeritus of Medicine at the University of Washington School of Medicine and a member of the Fred Hutchinson Cancer Research Center in Seattle will deliver a lecture entitled "Past Breakthroughs and New Frontiers: Hematopoietic Cell Transplantation."

In addition to providing a brief history of the subject, Thomas will report on research on bone-marrow transplants now under way at the Fred Hutchinson Center and describe related research in gene therapy for the treatment of genetic disorders.

E. Donnall Thomas earned his B.A. in 1941 and his M.A. in 1943 from the University of Texas, and his M.D. in 1946 from Harvard Medical School.

He was professor of medicine with the University of Washington School of Medicine in Seattle since 1963, earning the status of Professor Emeritus when he retired in 1990. He was also head of the school's division of oncology until 1985. Concurrently, from 1974-89, he was director of medical oncology at the Fred Hutchinson Cancer Research Center, and, from 1982-89, associate director of clinical research programs at the center, where he is currently a member.

(continued on page 2)

Brookhaven Women in Science Seminar

Art Conservation: A Chemist's View

There's a fine line between science and art, and Suzanne Quillen Lomax crosses it every day in her position as an organic chemist with the National Gallery of Art in Washington, D.C.

Lomax will discuss her investigations into the identity and aging behavior of artists' materials when she delivers the next Brookhaven Women in Science seminar. Her talk on "Art Conservation: A Chemist's Perspective," will be held on Wednesday, June 5, at 11 a.m., in the Hamilton Seminar Room of the Chemistry Department, Bldg. 555. Refreshments will precede the lecture.

Suzanne Quillen Lomax

The National Gallery of Art is one of about a dozen museums in the U.S. that have conservation science departments. The nine scientists in its Scientific Research Department apply various techniques to the examination of paintings and sculpture.

For example, the scientists use a polarizing microscope to view cross sections of a painting to understand its different layers; polarized light microscopy and x-ray diffraction to identify pigments, understand materials and methods, and pinpoint art periods; x-ray diffraction to examine corrosion products, accretions and efflorescence on sculptures; and infrared reflectography and x-radiography to image lower layers of paintings.

In discussing these techniques, Lomax will present examples from the National Gallery's collection.

She will also talk about research projects aimed at developing new techniques for analyzing artists' materials.

Suzanne Lomax received her Ph.D. in organic chemistry in 1984, from the University of Maryland, then performed her postdoctoral research at Northwestern University. Before joining the National Gallery of Art in February 1986, she worked in the Office of Toxic Substances of the Environmental Protection Agency.

To join Lomax for a luncheon following her lecture, contact Louise Hanson, Ext. 7709 or 5849, or e-mail hanson2@bnl.gov. — Anita Cohen

Review Showcases Programs for Women at DOE Labs

From mentoring younger women at the start of their careers to providing child-care centers that allow parents to pursue their careers knowing their children are well cared for, programs that address the special needs of women were in the spotlight May 6-8, when BNL hosted the 5th U.S. Department of Energy (DOE) Review of Laboratory Programs for Women.

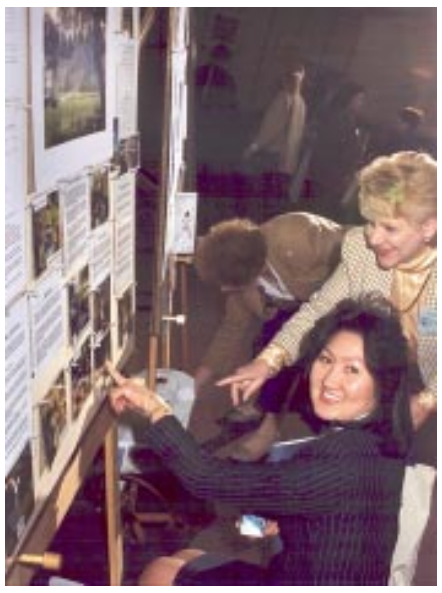
With the theme of "Showcasing Our Successes, Sharing Our Stories," the review was co-organized by Brookhaven and the Princeton Plasma Physics Laboratory (PPPL) and drew some 90 participants from 24 DOE or DOE-contractor facilities. Co-chairs of the organizing committee were BNL's Victoria McLane and Dori Barnes of PPPL, while BNL's Frances Ligon and Nina Leonhardt served respectively as Deputy Chairs for Administration and Programs.

"I saw so much energy and enthusiasm throughout the meeting," said McLane. "The women were energized by what they were learning and by networking with other participants."

In addition to focus groups and poster presentations on various laboratory programs, the review featured a number of speakers who approached the subject from various angles:

• **Antoinette Joseph**, Director of the Office of Laboratory Policy and Infrastructure Management in DOE's Office of Energy Research, addressed participants about the need to stay focused on goals.

• **Martin Blume,** BNL's Deputy Director, spoke of the status of some Lab programs. "We hope to add to the Child Development Center, because it is oversubscribed," he said, adding that Brookhaven is also working on programs in telecommuting and flex time.



Reviewing one of the 25 poster presentations that conference participants displayed in Berkner Hall are BNL's Susan Eng Wong (bottom), who chaired the review's Oral Presentation Committee, and Veronica Evans, one of BNL's seven official participants.

• **Cherri Langenfeld**, Manager of DOE's Chicago Operations Office, commented that, to move forward, the DOE laboratories need women's support, saying, "We have to be more responsible for our own careers, and we have to work together to make that possible for other women."

• **Martha Krebs**, Director of OER, looked at the future for all men and women in science, in terms of current budgets. "If we don't come together and stand together, these institutions that we care about, these programs and science that we love will not move forward," Krebs said.

Additionally, said Krebs, "Talking about what we do and why we love to do it is something that is an obligation and a responsibility, and something that I think is now part of our job description."

• **Jacqueline Cooke**, Administrator for Region I of the U.S. Department of Labor (DOL) Women's Bureau, spoke of DOL's nationwide Working Women Count survey, which found that, in terms of advancing in the workplace, "For many women, a glass ceiling is not even in view above them. It is instead a sticky floor on which they have become stuck."

Cooke also described DOL's Working Women Count Honor Roll, which will include organizations that fulfill their pledges to help women in the workplace. BNL has pledged to institute a training program to address gender differences in the workplace (already initiated, this program was discussed in the Brookhaven Bulletin of May 3, 1996), and to develop cultural awareness sensitivity training.

• Science education writer **Sheila Tobias** announced, "The good news is that we're moving the women in — they're in the pipeline and doing a great job. The bad news is that there are fewer scientific jobs. If women are going to continue to advance in science, we are going to have to solve the jobs problem in new and imaginative ways — because if we wait for the leadership to do it, it won't be new or imaginative, and it won't work."

One solution, Tobias indicated, would be for scientifically trained people to take up roles in policy, legal affairs and the media. "These types of careers are just as important to the nation as those who practice their science in the lab," she said.

• **Sylvia Monlyn**, Director of DOE's Office of Strategic Planning, Budget and Program Evaluation, addressed the need for continuing programs in diversity: "Until women fully participate, we have to continue to monitor and review the programs."

• **Joyce Justus**, Assistant Director for Social and Behavioral Science and Education in the Office of Science and Technology Policy, Executive Office of the President, spoke at the conference dinner on May 7, stating, "America in the 21st century cannot afford to waste any of its people — men or women, green, pink or purple. . . . We must provide the mentoring and nurturing necessary for [young women] to take their places among the leaders. . . . Yes, it's important to reduce wasteful spending, but it's also important to make investments in our future . . ."

And, in introducing Justus' talk, **Sue Davis**, BNL's Associate Director for Reactor, Safety & Security, summed up the meeting's raison d'être: "We've come a long way in our journey to achieving recognition and partnership, but we still have a long way to go."

To view videotapes of the various talks at the review, contact McLane, Ext. 5205. — Anita Cohen

Coming Up

Sir John Maddox, editor emeritus of the prestigious scientific journal *Nature*, will deliver the 25th George B. Pegram Lecture Series on Tuesday, Wednesday and Thursday, June 11, 12, and 13. Collectively titled "Science in the 21st Century: New Issues and Old Questions," the lectures will be held at 8 p.m. each evening in Berkner Hall.

Over the course of the three evenings, Maddox will identify scientific problems that will spill over into the next century, describe research programs that will be needed for their resolution, and discuss recent changes in the organization of science, as well as their consequences. The three lectures are titled "Perspective and Prospect," "Understanding Living Things," and "Improving on the Real World."

BNL's Reactors (cont'd.)

the Safety & Environmental Protection (SEP) Division, spoke in more detail about the releases.

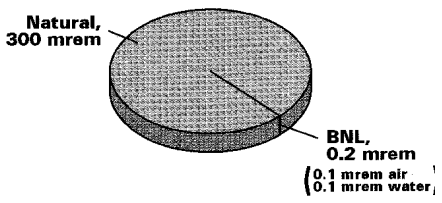
In 1994, the year for which the latest data are available, the tritiated water from the HFBR, monitored at the Lab's sewage treatment plant outfall on the Peconic River on site, averaged 1,700 picocuries per liter (pCi/l). Schroeder compared that release to the U.S. Environmental Protection Agency (EPA) drinking water standard of 20,000 pCi/l. In terms of dose to the body, he quantified the tritiated water release as 0.1 millirem a year, assuming a direct ingestion of two liters per day of the sewage plant effluent at the outfall.

As for annual dose from air releases, Schroeder described the airborne tritium from the HFBR as 0.0005 millirem and the airborne argon-41 from the BMRR as 0.1 millirem, both well within the EPA airborne dose limit of 10 millirem for an individual at the BNL site boundary.

Schroeder then summarized the annual radiation dose from BNL as 0.1 millirem from air, 0.1 millirem from water and 0.8 millirem from fish from the Peconic River, for a total of 1 millirem. He compared that 1 millirem to the 300 millirems that an individual receives annually from "background" natural sources such as cosmic radiation, terrestrial radiation, radon and food.

As an aside, Schroeder commented that the BNL dose is so small that it is not directly measurable with instruments.

The next presentation, by Raymond Karol of the Reactor Division, dealt with safety analyses for both reactors. Karol stated that, under federal guidelines, the risk of living near the BNL site must be less than 0.1 percent of all everyday risks. In actuality, he said,



The annual radiation dose an individual could receive from BNL's reactors' emissions to air and water, as compared to the dose received from natural sources.

the risk from the HFBR is estimated to be at least a hundred times lower than the 0.1 percent goal.

He also discussed the various factors that prevent releases, such as automatic and redundant shutdown mechanisms, reactor design that inherently limits power increases, and routine inspections and training. Karol described how releases are mitigated, for example, by exhausting air first through filters. And he explained how safety analyses are carried out, ending with a description of the review process that includes outside, independent safety evaluations.

Next, Frank Marotta, SEP Emergency Services, gave an overview of BNL's capabilities in responding to chemical and radiation emergencies, medical emergencies and fires. He also listed the mutual-aid agreements between BNL and various emergency groups on Long Island.

Marotta then described BNL's response to the TRISTAN fire, which occurred in 1994 at an experimental station within the HFBR building. He talked about the Lab's emergency plan, the facilities equipped to handle emergencies and BNL's emergency management organization.

Marotta also mentioned the federal Radiological Assistance Program, or RAP, which provides assistance in the event of radiological incidents. The RAP team that covers the 11-state region that includes New York is headquartered here at BNL.

Michael Brooks, Deputy Associate Director for Reactor, Safety and Security, made the evening's final presentation, outlining future plans for both reactors.

Of the BMRR, he said research would continue in the development of a treatment for brain and other cancers, with the possibility of long-term use as a patient-treatment center.

On the HFBR, he described improvements being considered to increase its research capacity. These include replacing the reactor vessel, increasing the number of beam lines and restoring the reactor's power level to 60 megawatts, up from its current level of 30 megawatts.

Brooks also spoke of a commitment by BNL to examine additional opportunities for effluent reduction. He said that, coupled with future improvements to the HFBR, the Lab would examine options for engineering systems to reduce emissions.

The six presentations were then followed by a lengthy question-and-answer period. The questions covered a wide range of topics, from spent fuel shipments, to the TRISTAN accident, to environmental monitoring of argon-41. — Mona S. Rowe

Van Slyke Lecture (cont'd.)

Among numerous professional honors, Thomas shared the 1990 Nobel Prize in Medicine or Physiology with Joseph Murray, for their discoveries concerning organ and cell transplantation in treating human disease.

Named in honor of the late Donald Van Slyke, BNL's Associate Director for Life Sciences, 1948-51, this lectureship is funded by private sources, with a donation from Associated Universities, Inc. — Diane Greenberg

Here & There

With seed funding of $500,000 from the New York State Science and Technology Foundation, **James Powell** and **Morris Reich**, both senior engineers in the Department of Advanced Technology, organized an initiative last year to help bring the crumbling U.S. infrastructure into the 21st century (see Brookhaven Bulletin, December 1, 1995).

Now Powell and Reich are trying to bring their ideas on future infrastructure technologies to fruition. At a colloquium at Columbia University on Monday, June 3, they will speak on the new infrastructure technologies being developed at BNL.

The colloquium is sponsored by the New York Building Congress, Inc., and a consortium called the National Infrastructure Center for Engineering Systems and Technology Initiative, which was founded by Powell and Reich. About 160 experts involved in the construction and repair of infrastructure systems are expected to attend the colloquium, with the goal of arriving at some decisions on how to best rebuild the nation's infrastructure in the present climate of very limited budgets. — Diane Greenberg

BNL Police Bicycle Patrols Begin on Monday

In addition to its routine, 24-hour-a-day patrols around site, the BNL Police Group of the Safeguards & Security Division will begin cruising the Lab's central areas — on bicycle. Beginning Monday, June 3, patrol officers will be seen pedaling Trek mountain bicycles around the center of the site.

"The objectives of the new bicycle patrol are to be more proactive in our approach to enforcement and property protection, and to be more accessible to the Laboratory community," explains Police Captain Michael Delph, who is the Police Group's Training Coordinator.

Before this program was instituted, Delph and the Group's exercise physiologist, Joanne Giambalvo, looked into various aspects of the bicycle patrols: their usefulness at other sites, campuses and municipalities including Suffolk and Nassau Counties, and New York City; the necessary training and equipment; and their impact on the health and safety of the pedaling patrol officers.

As Delph learned, bicycle patrols do meet the stated objectives and are part of community-policing efforts nationwide. In fact, a Law Enforcement Bicycle Association (LEBA) exists to provide training for bicycle patrols, standardize bicycle-patrol training and certify patrol officers for this type of police duty.

From May 13 to 17, the first four BNL patrol officers — Brian McCarrick, Mark Opisso, Richard Sanniola and Jamie Sims — received bicycle-patrol training by LEBA-certified instructors from the Suffolk County Police Academy.

Patrol officers in BNL's Police Group who are the first qualified for the newly established bicycle patrol: (from left) Richard Sanniola, Brian McCarrick, Mark Opisso and Jamie Sims.

Photos on these pages by Roger Stoutenburgh

While the BNLers already knew how to ride and shift a multiple-gear bicycle, they were instructed on physical fitness, nutrition, equipment fitting, mountain-bike riding techniques, patrol procedures and bicycle maintenance. Having completed the intensive course, the four received certification from the Suffolk County Police Department and LEBA.

The bicycle patrol will cruise BNL's main streets and byways on 21-speed black mountain bikes labeled POLICE. The bicycles have titanium frames and were customized with the manufacturer's police package, which includes a 45-watt lighting system for night patrols.

The four will wear a bicycle-patrol uniform designed for their safety and comfort: cycling shorts, sneakers and cycling gloves. Also, BNL officers on bicycles will wear helmets approved by the American National Standards Institute and the Snell Memorial Foundation, which conduct safety testing.

To ensure the officers' health, candidates for bicycle duty are screened for preexisting conditions that would preclude their participation in the bicycle patrols. The candidates then undergo physical evaluation, to determine bicycle-training guidelines. BNL's patrol officers are required by the U.S. Department of Energy to prove their fitness annually, by being timed in a half-mile run and 40-yard dash. To stay fit for duty, the group works out under Giambalvo's guidance.

"Within the U.S. Department of Energy community, BNL is the first to institute bicycle patrols and, anticipating their success, we hope to train additional officers, as well as expand the bicycle patrol's responsibilities to include assistance in the crime-prevention program," concludes Delph.

— Marsha Belford

50 YEARS AGO THIS WEEK

This series, which recounts the earliest days of Associated Universities, Inc. (AUI), and BNL, will run as appropriate throughout 1996 and 1997, the 50th anniversary years of AUI and BNL, respectively.

• **May 31, 1946** — The Initiatory University Group's (IUG) Planning Committee meets, and IUG issues a proposed program for the new research laboratory in the Northeast. The proposed program revolves around special tools for nuclear research that are beyond the capacities in expense and staffing of individual state or privately endowed institutions.

Since the nuclear reactors at Chicago, at Los Alamos in New Mexico and at Oak Ridge in Tennessee are not readily accessible to scientists in the northeastern states, the construction of one or more nuclear reactors is an essential part of the new laboratory's program. And accelerators are needed for further investigation of nuclear forces in the billion-electron-volt energy region.

Extensive investigation is required, however, to determine exactly which types of reactors and accelerator should be constructed at the new lab, to supplement and advance the research programs of the surrounding institutions. Subcommittees on Nuclear Reactors and Electronuclear Machines are studying these questions, and their reports underlie the decisions incorporated in the proposed program.

• **June 1, 1946** — At a full IUG meeting, the draft of the proposed program is approved, and Robert Bacher of Cornell is elected chair of IUG.

Following IUG's May 18th recommendation that the Subcommittee on Incorporation include one member from each of the sponsoring universities, this subcommittee now includes: George Pegram, Columbia; Arthur Adams, Cornell; Edward Reynolds, Harvard; P. Stewart Macaulay, Johns Hopkins; Joseph Killian, Massachusetts Institute of Technology; William DuBarry, Pennsylvania; George Brakeley, Princeton; Raymond Thompson, Rochester; and Edmund Sinnott, Yale.

Having conferred with legal counsel, this group reports that a draft for incorporation in New Jersey is nearly complete. New Jersey had been selected both because a number of probable sites were located there and because certain legal provisions made this incorporation most expedient. The Planning Committee agrees that it is acceptable to incorporate with the original nine universities, more to be added later if desirable, and the subcommittee is asked to proceed with plans for incorporation in New Jersey.

• **June 6, 1946** — At a meeting of the Subcommittee on Incorporation, the name Associated Universities, Inc., or AUI, is adopted for the new corporation.

But considerable history precedes that final decision: George Pegram had used "Universities, Inc." in drafting a possible scheme of organization in March. The legal counsel submitted a list of possibilities, including, in addition to AUI, "University Institute of Research," "Atlantic University Research" and "University of Advanced Research." Pegram had also recorded a number of experimental abbreviations, including "Univas, Inc.," "Nures Corp." (*nu*clear *re*search), and "Pyjohmitch Corp" and "Phytch Corp.", formed from the initials of the nine universities.

(To be continued on June 14.)

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ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

Bldg. 134, P.O. Box 5000
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Tel. (516) 344-2345; Fax (516) 344-3368

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

Arrivals & Departures

Arrivals

Dermot P. Fitzgerald.....AGS
James F. Trombacco..Safety & Env. Prot.

Departures

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

Timothy E. Reaves.....Comp..& Comm.

Dosimetry badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

Around Site

Ring Road Block

For the next two months, equipment for the PHENIX experiment will be temporarily stored on Ring Road at the Relativistic Heavy Ion Collider. During that time, BNLers should avoid that area if at all possible.

Improvements at Intersection Of Brookhaven & Center

Beginning Monday, June 3, the Plant Engineering Division will begin a number of improvements at the intersection of Brookhaven Avenue and Center Street. During most of the month that the work is scheduled to be done, the intersection will be open, but those driving in the area should be particularly careful and stay alert for activity and/or detours related to this project.

The intersection improvements include:

• new asphalt paving,
• a new sidewalk that will join the Center Street entrance to Bldg. 179 with the existing sidewalk that now stops at the southeast corner of Brookhaven Avenue,
• a streetlight on the northeast corner to illuminate the intersection,
• all-way stop signs, stop lines, crosswalks and sidewalk ramps at all four corners,
• painted stripes on Center Street to establish lanes,
• designated parking spaces in the southernmost row of the parking lot north of Bldg. 179 — three marked for Director's Office visitors only and four allocated for 30-minute parking,
• signs directing visitors to the Director's Office and visitors' parking spaces, and
• repainted curbs along Brookhaven Avenue and Center Street designating no-parking areas.

Archery Club

The BERA Archery Club will next meet on Thursday, June 6, at noon, in the large seminar room, Bldg. 515. New members are always welcome. For more information, call Bill Schoenig, Ext. 2377.

Circulate Your Blood!

A three-day blood drive will be held Wednesday, Thursday and Friday, June 19-21, from 10 a.m. to 3 p.m. in the Brookhaven Center.

Two pledge cards will be sent to each employee so that friends or relatives may also join the BNL campaign. Those signing up to give blood will also find a box on the pledge card that they may check if they are interested in possibly donating bone marrow at a future date.

For more information about any aspect of donating blood, call Blood Drive Chair Susan Foster, Ext. 2888, or contact the appropriate Blood Drive Captain listed below:

Dept.	Captain	Bldg.	Ext.	Dept.	Captain	Bldg.	Ext.
AGS	Letesha Smith	911A	4772	FSD	Doreen Hallinan	134B	2457
	Pete Stillman	911A	7520		Michael Seidman	459	2242
ASD	Sylvia Mouzakes	179B	2531	HR	Marsha Kipperman	185	2871
	Michael Guacci	211	2976	Instr.	Raymond Dumont	535B	4243
AUI	Elliott Levitt	134A	2495	ISD	Jack Laurie	197B	7640
Bio.	Richard Sautkulis	463	3386		Celeste Samuels	477	7692
CCD	Ronald Yuhas	515	2000	Med.	Marta Nawrocky	490	3592
Chem.	Jean Petterson	555A	4302	NSLS	Nancye Wright	725B	7976
CSD	Richard Spellman	462U	3351		Kathy Loverro	725C	7188
DAS	Betty Ivero	179A	2452	OMC	Maureen Sacker	490	3671
	Claire Lamberti	318	3051	PE	Marilyn Johnson	134C	2546
	Melissa Collichio	318	2956		Marilyn Zane	134C	5075
	Maggie Marsch	426	3275		Ron Mulderig	326	3084
	Arlean Vanslyke	490D	2387		Tirre Farmer	452	3288
	Maryann Larese	480	3508	Phys.	Liz Mogavero	510A	3940
	Fran Donnelly	526	4835		Sandy Asselta	901A	4550
	Eileen Morello	815	4519	Reac.	Randi Vogt	120	4043
DAT	Barbara Kponou	130	2630		Nick Houvener	750	4436
	Susan Monteleone	130	7235	RHIC	Mary Campbell	1005	2719/
	Susan Carlsen	197C	7647				3220
	Theresa Legault	197C	3377	SEP	Sheila Bubka	51	3144
	Kara DeCastro	475B	3643		Diana Fisher	535A	5735
	Marjorie Chaloupka	475C	2746		Michael Carroll	599	2351
	Karen Wagner	703M	3122	S&SD	Sharon Jones	30	2493
	Grace Webster	830	5062		Tom Gilbert	50	2235
DCP	JoAnn Reed	355	7009		Mindy Markstaller	50	2280
DO	Janet Sillas	134	2345		Rich Rossetti	50	2231
DOE	Clare Appleton	464	7812		Ted Heuer	801	5645

Outreach Workshop
Addictions and Compulsions

Alcohol, drugs, sex, gambling, work, food, money, power.

What do all of the above have in common? They each can be the center of a person's impulsive and/or compulsive activity — behavior which can not only distress the person involved in it, but also can threaten the person's relationships, job and even life.

"Addictions and Compulsions in Everyday Life" will be discussed by clinical psychologist Stephen Viani at the next Outreach workshop. Sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic, the workshop will be held on Tuesday, June 4, from noon to 1 p.m. in Berkner Hall. All are invited, and the talk will be available afterwards on audiocassette in the Research Library, Bldg. 477.

Steven Viani, Ph.D., is the Administrator of Cornerstone Continuous Care, an outpatient drug and alcohol treatment program in Garden City. He is the former Program Director of Phoenix House in New York City and former Director of Psychological Services of the Project Return Foundation, New York City.

To register for this workshop, return the completed portion of the Outreach flyer recently sent to all employees to Dianne Polowczyk, Bldg. 490, by Monday, June 3. For more information about EAP, call Ext. 4567.

Handball Club

For some real action *and* good exercise, join the BERA Handball Club. From noon to 1 p.m., the club plays on courts located at the southeast end of the warehouses on Railroad Street. Employees, guests and summer visitors are welcome. For more information, call Manny Grau, Ext. 6328.

Bowling Party

Today is the last day to buy tickets for the BERA Bowling League's annual awards party, to be held at Rock Hill Country Club on Friday, June 7, from 6 to 10 p.m. For tickets at $10 for league members and $15 for guests, contact Debbie Botts, Ext. 3888.

Sam's Reps on Site

Representatives from Sam's Club, a nationwide members-only, discounted-merchandise warehouse with a location in Medford, will be in Berkner Hall on Tuesday, June 4, from 11:30 a.m. to 1 p.m. They will provide information about the club and sign up new members for $25 per person plus tax; a secondary membership card costs $10 plus tax.

Equipment Demos

On Wednesday, June 5, from 10 a.m. to 2 p.m. in Berkner Hall, Hewlett-Packard will hold a technology expo showcasing its newest test and measurement products. These include: rf network analyzers, spectrum analyzers, portable logic analyzers, digital oscilloscopes, bench-test instruments, modular measurement systems, vector signal analyzers, and reconfigurable modular instrumentation.

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On Thursday, June 6, from 11 a.m. to 2:30 p.m. in Berkner Hall, 3M will conduct a product show featuring its state-of-the-art visual communication systems. These include: an 11,000-lumen overhead projector and a multimedia projector, which takes data from computers and VCRs, and can be operated with the room lights on. 3M will also display a variety of office supply products, and samples of certain products will be distributed.

Golf Tournament

The BERA Golf League will host a two-person-team tournament on Friday, June 7, at Calverton Links. Tee-off will be from noon to 2 p.m. Members and nonmembers are welcome. For more information or entry forms, contact Gordon Rawn, Ext. 7095, or e-mail rawn@mail.sep.bnl.gov.

Strut Your Stuff

Monday, June 3, is the registration deadline for BNL's first Spring Walk — a 2-mile, on-site fitness excursion for all employees, scheduled rain or shine for Thursday, June 6. Organized by the 1996 Healthfest Planning Committee and sponsored by the Director's Office, the at-your-own-pace walk begins at noon in front of the Science Education Center, Bldg. 438, Get there early — at 11:45 a.m. — and join the BNL Aerobics Club in a pre-walk stretch.

The first 200 registered participants will receive an incentive award, so act now by returning the bottom portion of the yellow flyer recently sent to all employees to Mary Wood, Bldg. 490.

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 Human Resources Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Human Resources, 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 (344-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then select "Scientific Personnel Office " for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

NS 9635. ADMINISTRATIVE POSITION - Requires a bachelor's degree or equivalent in business administration and several years' experience with business-systems software administration in an in-plant printing environment. Responsibilities include development, implementation and maintenance of the Division's InfoNet system, which handles job estimating, invoicing and job tracking functions. Will provide user training and assistance in routine operations, as well as administering the Division's computer security, property management and telecommunications programs. Information Services Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 6182. TECHNICAL POSITION - (term appointment) Requires an AAS in electromechanical technology or equivalent, and experience in electrical and control wiring, 480 Vac, and the design and installation of control circuits. The ability to work from prints, rough sketches and verbal instructions is necessary. Electronics experience, as well as experience with public address systems, desirable. Responsibilities will include hooking up and disconnecting beam-line magnets. (reposting) Alternating Gradient Synchrotron Department.