

U.S., Japan Hail Opening of RIKEN-BNL Research Center

A new physics research center sponsored by Japan and the U.S. was officially established at BNL on September 22, with speeches by dignitaries from both countries.

The RIKEN BNL Research Center, which will be housed in Bldg. 510, will foster research in the area of physics relating to BNL's Relativistic Heavy Ion Collider, which will be commissioned in late 1999.

Among those who heralded the inauguration of the Center during Monday's ceremony were: Akito Arima, President of the Japanese Institute of Physical & Chemical Research, or RIKEN, which is funding the Center; Interim BNL Director Peter Bond; Minister Seiji Kojima of the Embassy of Japan; the Center's Director, T.D. Lee, who is University Professor and Enrico Fermi Professor of Physics at Columbia University and a Nobel laureate; Peter Rosen, Associate Director of the U.S. Department of Energy's Office of Energy Research; and George Rupp, President of Columbia, where the Center's \$1.8-million supercomputer is being assembled.

"The inauguration of the RIKEN BNL Research Center marks a major step forward in the cooperation between Japanese and American scientists and national laboratories," said Rosen. "Just as science itself transcends international boundaries, so will this Center and the knowledge



Roger Stoutenburg

As Akito Arima, President of Japan's RIKEN laboratory, hands a plaque encribed with the words "RIKEN BNL Research Center" in Japanese to the Center's new Director, Columbia University Professor and Nobel laureate T.D. Lee, others who attended the Center's inaugural ceremony on September 22 look on, including: (front row, far right) Peter Rosen, Associate Director of the U.S. Department of Energy's Office of Energy Research; (second row, from left) Interim BNL Director Peter Bond; Minister Seiji Kojima of the Embassy of Japan; (behind Kojima) George Rupp, President of Columbia; and Satoshi Ozaki, Head of the Relativistic Heavy Ion Collider Project.

that it will produce. We are pleased that Long Island can be the home of such an important Research Center."

Arima added, "The Center is clearly a highly significant landmark in RIKEN's efforts to promote international collaboration."

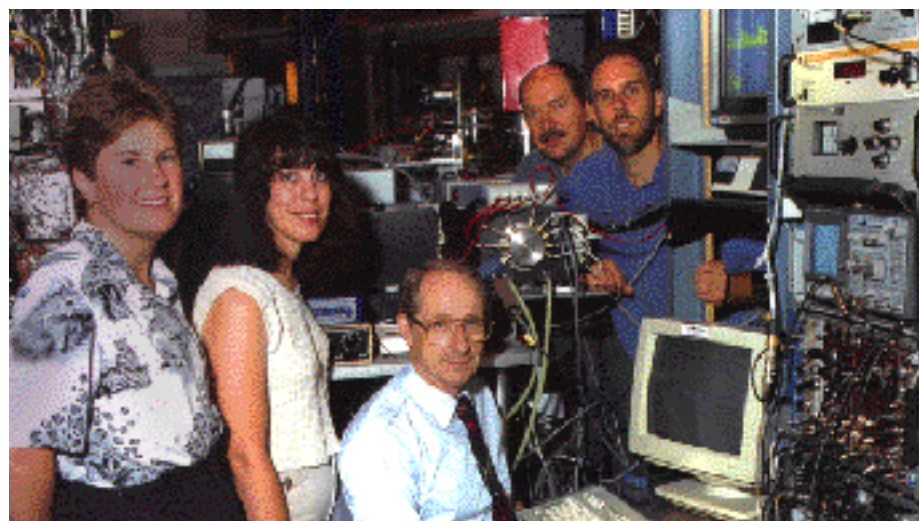
In his remarks, Bond mentioned the vital role that former BNL Director Nicholas Samios had played in the formation of the Research Center. "It was Nick who first talked to Professor Arima about the possibility of the Center, and it was Nick who helped convince T.D. Lee to become the Center's Director," he said.

RIKEN has provided \$2 million for fiscal year 1997 to get the Center started, and the Japanese lab has committed to even greater funding in the future. RIKEN has also commissioned the building of the Center's supercomputer under the supervision of Columbia University physicists.

At 0.6 trillion calculations per second (teraflops), the computer will be one of the most powerful in the world, and it will be dedicated to helping the Center's physicists calculate the interaction of matter with great precision. When completed later this year, it will be housed in BNL's Computing & Communications Division and be used in tandem with Columbia's new 0.4-teraflop machine.

Already, the Center has hired a staff
(continued on page 2)

BNL's Fluorescence Omnilyzer Wins 1997 R&D 100 Award



Roger Stoutenburg

At the National Synchrotron Light Source, John Sutherland, who was leader of the team that developed BNL's Fluorescence Omnilyzer, sits at the controls of the device, surrounded by its co-developers (from left): Lisa Kelly, a U.S. Department of Energy distinguished postdoctoral fellow who is currently an assistant professor of chemistry at the University of Maryland, Baltimore County; Denise Monteleone, Biology; Krzysztof Polewski, a visiting professor from the Agricultural University of Poznan, Poland; and John Trunk, Biology. Not shown is co-developer Michael Mellon of Quantar Technology, Inc.

On Thursday, September 25, BNL was awarded a 1997 R&D 100 award for the Fluorescence Omnilyzer, a research tool for biochemists, structural biologists and solid-state physicists that was developed by a team which was led by John Sutherland of the Biology Department and included Quantar Technology, Inc., of Santa Cruz, California.

Presented this year at Chicago's Museum of Science & Industry, R&D 100 Awards are given annually by *Research & Development* magazine for the year's top 100 technological achievements — innovations that have transformed basic science research into useful products.

The BNL and Quantar-developed Omnilyzer detects fluorescent light that is emitted by a material within a few billionths of a second after it has been excited by light of a shorter wavelength and, hence, a higher energy.

Like many conventional single-photon counting detectors, the Omnilyzer records the time that each light particle is detected. Unlike conventional detectors, however, the Omnilyzer also records both the wavelength and the polarization of the detected light — all to an accuracy of about 100 picoseconds, which is one tenth of one billionth of one second.

The Story Behind the Name

Sutherland explained that the Fluorescence Omnilyzer — which can detect and characterize up to 50,000 photons per second — "can tell you almost everything that you might want to know about fluorescence emission from a sample. That's how it got its name. I became tired of saying the whole list of things that it analyzed, so I called it an Omnilyzer."

The Omnilyzer is one of the detectors available to users of beam line U9B at BNL's National Synchrotron Light Source (NSLS), where it is used in studies of
(continued on page 2)

Long Trace Profiler II Takes Federal Tech-Transfer Award

A Special Award for Excellence in Technology Transfer was presented this spring to Peter Takacs, who heads the Optical Metrology Laboratory in BNL's Instrumentation Division, and his industrial partner, Manfred Grindel, President of Continental Optical Corporation, a small manufacturer of precision optical instruments in Hauppauge.

Takacs and Grindel were so recognized by the Federal Laboratory Consortium (FLC), which promotes and coordinates technology-transfer activities — the business of transforming basic research into commercial products — for more than 500 research and development centers within 16 fed-

eral agencies.

Takacs and Grindel were among the 30 recipients of the award honored at the annual FLC meeting in April 15. The research partners won for having developed the Long Trace Profiler II (LTP II), which has become a laboratory standard for measuring the shape of synchrotron mirrors.

"In 1993, the original LTP won two prestigious awards — an R&D 100 award from *Research & Development* magazine and a Circle of Excellence Award given by the journal *Photonic Spectra*. Since then, I have been very fortunate to continue its development with Manfred Grindel through two
(continued on page 3)

Dorry Tooker of BNL's Office of Technology Transfer, who is the Lab's representative to the Federal Laboratory Consortium, congratulates Manfred Grindel (center), President of Continental Optical Corporation, and BNL's

Peter Takacs, Instrumentation Division, for the Special Award for Excellence in Technology Transfer that they earned for having developed the Long Trace Profiler II, which has become a laboratory standard for measuring the shape of synchrotron mirrors.



Roger Stoutenburg

Enrollment Open for Medical & Dental Plans

Until October 31, eligible employees working 20 or more hours per week may make changes to their medical and dental coverages: Employees may join a medical and dental program, change from one program to another, add or drop family members covered, or drop coverage entirely.

Also until October 31, retirees and participants on long-term disability may make changes to their medical coverage.

Coverage changes made during the open-enrollment period will become effective January 1, 1998. Employees who do not want to change their coverages at this time do not have to do anything for them to continue.

Your Choice of Medical Programs

The medical programs available to eligible employees are: the Medical Insurance Program administered by CIGNA; two health-maintenance organizations (HMOs): Vytra Healthcare and U.S. Healthcare; and two point-of-service (POS) programs: CIGNA and North Shore-HIP Health Partnership. Employees who enroll in any of the medical programs must pay a contribution for their medical insurance coverage.

In an HMO, employees receive medical services from physicians and health-care facilities within that HMO's provider network. There are no claim forms to submit, and many services are covered, including physician visits, well-baby care, surgery, x-rays, hospitalization, diagnostic tests and prescription drugs. Some HMOs require a copayment at the time services are rendered.

In a POS program, health care is provided through a network of physicians and health-care facilities, but provisions are made for providers who are not in the network. There are no claim forms to submit for care provided within the network. For out-of-network reimbursement, employees must submit claim forms.

Under the Medical Insurance Program administered by CIGNA, employees choose their physicians and health-care facilities. To be reimbursed for covered medical expenses, employees must submit claim forms to CIGNA.

Two Dental Plan Options Available

The dental plans available to eligible employees are two: the CIGNA Dental Health Plan, and the Dental Assistance Plan administered by Eastern Benefit Systems. Employees who enroll in either of the dental plans are required to pay a contribution for the dental insurance coverage.

Under the CIGNA Dental Health Plan, there are no deductibles, no maximum benefits and no claim forms to submit. Dental services are provided through a network of participating dentists. Many preventive and basic services are covered in full. Restorative and orthodontic services are based on a fee schedule.

Under the Dental Assistance Plan administered by Eastern Benefit Systems, employees may choose any dentist, and preventive, diagnostic, basic and major dental services are based on a fee schedule. Orthodontia for dependent children is covered at 50 percent of the reasonable and customary charge.

Claim forms are required for reimbursement. The plan has a \$25 individual and \$75 family calendar year deductible for basic and major dental services. The maximum benefit is \$1,000 per person per calendar year for non-orthodontic services, with a separate \$1,000 lifetime maximum per child for orthodontia.

Plan Representatives on Site Next Week

To help employees decide which medical and dental plans are right for them, representatives from all the available plans will be in Berkner Hall from 11 a.m. to 2 p.m. on Wednesday, October 8; Thursday, October 9 during Healthfest '97; and from 11 a.m. to 1:30 p.m. on Tuesday, October 21, and Wednesday, October 29.

Literature will be available, including sheets comparing the programs, and lists of physicians and facilities participating in the medical HMOs and POS programs, and the CIGNA Dental Health Plan.

Employees who want to change their medical or dental coverage must contact Muriel Pfeiffer, Bldg. 185, Ext. 2877, Monday through Thursday, 8:30 a.m. to 1 p.m., to obtain the required forms, and they must return them to her by Friday, October 31. Representatives from the Benefits Office will also be at Berkner Hall at the times and dates above, to answer any questions.

Changes can be made only during the annual open-enrollment or when a qualifying event occurs. Qualifying events, such as the birth or adoption of a child, marriage, divorce or legal separation, loss of dependent status, or spouse's gain or loss of employment, allow employees to make certain changes to their coverage within 30 days of the event.

RIKEN BNL Center (cont'd.)

of five young theoretical physicists and several visiting senior scientists. It will soon host close to 30 scientists each year, including postdoctoral and five-year fellows and visiting scientists. Its research focus will begin with theoretical physics, but will expand to include experimental studies relating to RHIC.

Said Lee, who won his Nobel Prize in Physics in 1957 for theoretical research done while visiting BNL in 1956, "The Center will be dedicated to the study of all aspects of strong interactions through the nurturing of a new generation of young physicists."

RIKEN has already contributed greatly to BNL's physics programs, through a 1995 agreement to fund a \$20 million project to add the world's highest-energy polarized proton beam capability to RHIC.

RIKEN, a multidisciplinary lab like BNL, is located north of Tokyo and is supported by the Japanese Science & Technology Agency. — Kara Villamil

This April, RIKEN and BNL signed an amendment to the memorandum of understanding regarding the establishment of the RIKEN BNL Research Center, to refine the definition of the Center's purpose and research scope, and to agree that the specifics on the Center's operation and maintenance would be spelled out in an implementation agreement. Those involved in the signing at the Lab included: (standing, from left) Hank Grahn, BNL's Associate Director for Administration; then Physics Department Chairman and now Interim Director Peter Bond; Thomas Kirk, Associate Director for High-Energy & Nuclear Physics; (seated, from left) Satoshi Ozaki, Head of the Relativistic Heavy Ion Collider Project; then Laboratory Director Nicholas Samios; and RIKEN BNL Research Center Director T.D. Lee, Columbia University. — photo by Roger Stoutenburgh



In Memoriam: Glenn Rackett, PE

Glenn G. Rackett, who had been a refrigeration & air-conditioning engineer in the Plant Engineering (PE) Division since joining BNL on October 23, 1989, died this August 22, after a long illness. He was 42 years old.

Though he had been seriously ill for some time, Tony Mendez, Rackett's supervisor in PE's Air Conditioning Shop, said, "He never complained. He just kept on with his normal routine."

As his normal routine, Rackett primarily handled the air-conditioning requirements of the Alternating Gradient Synchrotron (AGS), which Mendez called "one of the most technically demanding sites at the Lab."

"Glenn was my best troubleshooter," Mendez said. "He was very, very meticulous. There wasn't anything he couldn't fix or troubleshoot. He made my job easier."

Rackett was also a mentor to his coworkers. "Any time any of the younger mechanics needed help, they would go to him because he had the expertise on almost every kind of equipment," said Mendez.

Although it has been over a month since Rackett's passing, Mendez said, "Everyone on the job is still in shock because they just can't believe it. We deeply miss him and his good sense of humor. It's a real loss to our group."

A resident of East Marion, Glenn Rackett is survived by his father Gordon, who had retired from the AGS Department in 1989; mother Nathalie;



Glenn G. Rackett

sister Susan Rackett-Rossetti, who works in BNL's Safeguards & Security Division; and sister Laretta Rahmes, of Florida.

Contributions in Rackett's memory may be made to: Memorial Sloan-Kettering Cancer Center, PO Box 750, New York NY 10131-0304, or Covenant House, Times Square Station, PO Box 731, New York NY 10108-0731.

Correction

In the In Memoriam in the Brookhaven Bulletin of August 8, 1997, the late Stephen C. Biemer's name was incorrectly spelled as Steven. The Bulletin apologizes for any distress that this mistake may have caused.

Omnilyzer (cont'd.)

proteins, DNA and other biological samples; in chemical research; and to identify defects in semiconductors.

Other potential uses of the new detector include *in vivo* biomedical research, clinical diagnosis, and atmospheric research and monitoring.

The Omnilyzer detects fluorescence induced by rapidly pulsing ultraviolet (UV) or visible light from the UV ring of the NSLS, and, thus, records the time-course of fluorescence and polarization for all wavelengths in an emission spectrum. It can also be used with certain types of pulsed lasers.

"Simultaneous detection of the time course and polarization of fluorescence for all wavelengths is crucial for certain studies of biological specimens that emit weak fluorescence, or that can be destroyed by the light required to excite the fluorescence," said Sutherland. "In such cases, we need to detect fluorescence efficiently over a broad spectrum, while shining as little light on the sample as possible — and the Omnilyzer can do the job."

A second Omnilyzer system is being installed at a synchrotron light source in Heife, China, by scientists who visited beam line U9B in 1996.

The Omnilyzer was developed over the past five years by Senior Biophysicist Sutherland and a team that includes: Michael Mellon, president of Quantar Technology, Inc.; Lisa Kelly, Biology and University of Maryland, Baltimore County; John Trunk, Biology; Kyzysztof Polewski, Biology and Institute of Physics, Agricultural University in Poznan, Poland; and Denise Monteleone, Biology.

In 1987, Sutherland's group won another R&D 100 award for a device called IMAGESystem, which records fluorescence of DNA and other biomolecules that have been separated by gel electrophoresis, which is a standard research technique. This type of imaging system has become widely used in molecular biology.

In developing the Omnilyzer, Sutherland found that one of its important components, a position-sensitive, single-photon photomultiplier, could be obtained commercially, although it would need modifications to accommodate his design — and thus began the collaboration with Quantar.

Said Sutherland, "Assembling all the components and getting them to work together took a long time, in part because we all had other research or development projects as our priorities. We succeeded because my colleagues were willing to pitch in when needed. The wide range of scientists who have already used the Omnilyzer has been particularly gratifying."

This summer, users ranged from biophysicists from the State University of New York at Stony Brook, who studied the folding of proteins, to solid-state physicists from IBM and Japan, who used the Omnilyzer to characterize defects in semiconductors.

The UV user facility at beam line U9B is supported by the U.S. Department of Energy's Office of Basic Energy Research. "Having chemists and materials scientists use the Omnilyzer lets us repay a small part of what the biology community owes Basic Energy Research for their many years of NSLS support," Sutherland concluded.

Outreach Workshop How to Cope With Workplace Transition

As all BNLeers await the U.S. Department of Energy's decision on the Lab's next contractor and on the future of the High Flux Beam Reactor, many are feeling the results of the recent changes in their workplace and the effects of these unpredictable times in their daily lives.

"Coping With Workplace Transition" will be discussed at noon next Friday, October 10, in Berkner Hall during the next Outreach workshop sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic.

To be presented by clinical psychologist Val Brown, the workshop will offer techniques and approaches that have been proven to be effective in helping workers cope with overwhelming changes in the workplace.

To register for the workshop, complete and return the bottom portion of the Outreach flyer being sent to all employees to Staff Psychologist Dianne Polowczyk, Bldg. 490. For more information about EAP and its Outreach workshops, call Ext. 4567.

Forums on HFBR Future

Monday, October 6

The second information session regarding the decision-making process that the U.S. Department of Energy (DOE) is undertaking to determine the future of the High Flux Beam Reactor (HFBR) will be held from 6 to 8 p.m., at the Dayton Avenue School in Manorville. All are invited. Community input from this and the other sessions, along with an environmental assessment, scientific appraisal and budgetary considerations, will be used by Energy Secretary Federico Peña in making his January 1998 decision whether to have DOE work toward restarting or decommissioning the HFBR.

Thursday, October 9

An informational forum on the HFBR decision-making process is being held for the Community Work Group, which was organized in January 1996 to provide an interface with the community for BNL, at 7 p.m. in the cafeteria of the Longwood Junior High School. The forum is being hosted by the Affiliated Brookhaven Civic Organizations (ABCO), which came out in favor of DOE's decision-making process for determining the HFBR's future (see Brookhaven Bulletin of September 26, 1997). All are invited.

Arrivals & Departures

Arrivals

Stephen J. Maloney.....Director's Office
Andrzej Prus-Czarnecki.....Physics
Stephen P. Ashworth.....Applied Science

Departures

This week's departures will be listed in next week's Brookhaven Bulletin.

Practice EDITH Next Week — Your Life May Depend Upon It

At 7 p.m. next Wednesday, October 8, take the time with your family to yell "fire" and practice EDITH.

Next week, October 5-11, is Fire Prevention Week in the United States, and, as part of this annual event, the Suffolk County Fire Safety Educators Association (SCFSEA), in cooperation with county fire departments, is encouraging everyone in Suffolk to stage a exit drill in the home, or EDITH.

"Although many families have practiced exit drills, many haven't. So, the time is 7 p.m. next Wednesday for everyone in every neighborhood in Suffolk County to learn how to exit safely from their houses in case of fire," says BNL's Joe Jahelka, who is an industrial safety instructor in the Lab's Safety & Environmental Protection Division, as well as the Southern Director of the New York State Fire Safety Educators and past President of SCFSEA.

At that time on that date, all Suffolk fire departments will sound one long blast of their sirens, to signal the start of the county-wide EDITH drill.

The drill is being held in the evening because: "During nighttime fires, more lives are lost because people who are just awakened are disoriented in the dark and panic while attempting to exit their home," explains Jahelka. "The best way to avoid panicking during home fires is for every person to know two emergency exits, especially from their bedroom, and to practice these routes several times a year."

But, says Jahelka, a family's exit drill must begin before 7 p.m. — with planning. First, a family must draw their home's floor plan for each floor on which family members sleep, marking doors, stairs, hallways, and rooftops that could be used in making an escape from fire. Each room should have one regular and one emergency exit marked on the plan.

In planning, families must consider

the special needs of young children, older people and those with impairments who need assistance.

Then, check windows to see if they can open and are large and low enough. Suggests Jahelka, "While you are at it, check your smoke detector to see that it is operating and change its batteries if you don't do it regularly," when you change your clocks.

Finally, designate an outside family meeting place that is a safe and reasonable distance from the house, preferably somewhere where a call can be made to the fire department or a fire alarm can be pulled.

Earlier in the evening before the drill, Jahelka suggests having a family meeting, during which family members are reminded to: sleep with their bedroom doors closed to keep the heat and smoke of a fire out; learn what their smoke detector sounds like and find a way to supplement that alarm such as by yelling; and not waste time getting dressed, gathering valuables or looking for pets.

Immediately before the drill, Jahelka says, you should get into his or her bed. When your local fire department sounds its sirens, have your family sound your smoke detector and the supplemental alarm. At that point, everyone should drop out of bed, stay low and feel the door for heat and brace your shoulder against the door before opening it.

Says Jahelka, "You should hold the drill twice: The first time everyone should exit normally; the second time, everyone should pretend the doors are hot and use their alternate exits." Finish both drills by gathering everyone at the meeting point and simulate calling the fire department.

After the drill, "have a debriefing to discuss what lessons you have learned, so you can revise your plan for the future," Jahelka concludes.

For more information on EDITH, stop by the BNL Fire/Rescue Group's display at the Lab's Healthfest fair next week.



BNL's Healthfest '97 Starts This Monday

During BNL's 50th anniversary year, Healthfest '97 — the Lab's fifth celebration of personal health, fitness and safety — will kick off this Monday, October 6, with a 2-mile Employee Fitness Walk, followed by a 5-kilometer Employee Fitness Run on Tuesday, October 7. Both will be preceded by an aerobic stretch. The Health, Fitness & Safety Fair will take place in Berkner Hall on Wednesday and Thursday, October 8 & 9, at 11 a.m. until 2 p.m.

To sign up for those events and health screenings requiring registration, see the Healthfest flyer mailed to all employees, Healthfest brochures found around site, or call Health Promotion Specialist Mary Wood, Ext. 5923.

Get Discounts at BJ's

To offer BNL employees discounted memberships, representatives of BJ's Wholesale Club will be in the lobby of Berkner Hall on Tuesday, October 7, from 11 a.m. to 1:30 p.m. BJ's usual fee is \$30+tax for a 12-month membership; BNL employees pay \$25+tax for a 15-month membership, with two household cards. BJ's has outlets in Riverhead, Islandia and Farmingdale.

Long Trace Profiler II (cont'd.)

CRADAs [Cooperative Research-and-Development Awards] with Continental Optical," commented Takacs. "So, it is particularly gratifying to see the LTP II recognized by the FLC."

Synchrotron machines, such as the two at a BNL's National Synchrotron Light Source (NSLS), use unconventional, specially shaped, precision mirrors to focus intense beams of x-rays, ultraviolet or infrared light onto samples to obtain data during scientific experiments. The more perfect the mirror, the better the focus of light onto the sample — and the more accurate the data for researchers in such varied fields as biology, physics, chemistry, medicine and materials science.

To ensure that synchrotron mirrors are as smooth and flawless as possible, the LTP can check them with an accuracy of billionths of a meter.

The LTP, a prototype for the LTP II, was invented in 1987 by Takacs and BNL's Shi-Nan Quian, then of the University of Science & Technology in China. Under two CRADAs, Takacs then helped Continental Optical to develop the LTP II for commercial use.

Continental Optical, which holds the exclusive license for the invention, has marketed the device to synchrotrons around the world. Also, the company is developing the LTP II further, under funding from the National Aeronautics & Space Administration, for use in the manufacture of x-ray telescope mirrors.

This is the tenth FLC award for the Lab since 1985 and Takacs's second FLC win: In 1989, with Eugene Church, who has since retired from the Army Armament RD&E Center, Takacs won the award for developing new techniques for measuring the surface roughness of x-ray mirrors used in synchrotrons.

In 1992, Takacs was presented with BNL's Research & Development Award, which honors employees for their contributions to the Lab's R&D mission. He was cited for significant contributions to the metrology of mirror surfaces, and for developing techniques and instrumentation for characterizing x-ray mirrors used at synchrotron radiation sources, benefiting experimentalists and mirror manufacturers worldwide.

Ideas Wanted for 50th Anniversary Time Capsule

As one of the final events of the Lab's golden-anniversary celebration, two 50th anniversary time capsules will be entombed on site in December — to be unearthed and opened during 2047, BNL's 100th anniversary year.

One capsule will hold memorabilia from the Lab's departments and divisions, while the other will contain mementos from employees and retirees. To determine what should be placed within each capsule, employees and retirees are now asked to put their thinking caps on and, since space is at a premium, to think small. Send your big ideas that translate into small objects to Patti Bender, time-capsule project coordinator, Bldg. 134C, Ext. 3145.

Wanted: Info on Tritium Release

On July 29, BNL issued a press release noting that the Lab had measured "unexpected levels of tritium at its sewage treatment plant. The tritium concentration in the sewage effluent peaked [that] week between Thursday and Friday at a high of about 67,000 picocuries per liter (pCi/L), well above what is normally measured in the effluent" and about three times the Environmental Protection Agency's drinking water standard. Since then, as Interim BNL Director Peter Bond had informed all Lab employees, guests and users in a memo on September 25, the cause of the spike has been under review by the U.S. Department of Energy (DOE), BNL and the Suffolk County Health Department.

"To date neither a cause nor a source has been determined," said Bond. "The review has now been expanded to include members of the DOE Chicago Operations Office's Safeguards & Security Section and the DOE Headquarters Office of Enforcement & Investigations [EH-10]."

Anyone with any knowledge of any intentional or inadvertent release of tritium to the sewage system is asked to call either Russ Reaver, Manager of BNL's Safeguards & Security Division, Ext. 7759; Susan Foster, BNL's Employee Safety Concerns Coordinator, Ext. 2888; or DOE's Employee Concerns Hotline at (800) 701-9966. Callers are assured that confidentiality and anonymity will be maintained.

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Bowling

Purple and White League

9/18: M. Meier 246/225/208/679 scratch series, J. Zebuda 241/209/621 scratch, B. Mullany 227/222/637 scratch, E. Sperry IV 214/203/602 scratch, M. Guacci 259/627 scratch, R. Eggert 222/603 scratch, Doug Fisher 230, J. McCarthy 228, R. Raynis 224, D. King 215, J. McCaffrey 203, A. Epple 196, N. Fewell 188, S. Logan 183, P. Manzella 183, D. Keating 182, D. King 179, T. Mehl 178, G. Riker 178, M.G. Meier 175, K. Conkling 170.

Wanted: Men Bowlers on Tuesdays

The mens' bowling league is desperately seeking bowlers for Tuesday night in Port Jefferson. You do not have to be a great bowler, just a willing one! For information, contact Debbie Botts, Ext. 3888, or Tracy Blydenburgh, Ext. 4422.

Full-Text Electronic Physics Journals

The full text of the journals of the American Physical Society and the American Institute of Physics to which BNL subscribes are now available free on line.

For a list of the electronically available journals with links to the full text, access BNL's homepage on the World Wide Web. Then click on the hypertext link Library Services, scroll down to Electronic Subscriptions and select Full-Text Journals. Since this material is copyrighted, it cannot be distributed. For more information, contact Madeline Windsor, Information Services Division, Ext. 5069.

Weight Watchers

Registration for the next on-site, lunchtime Weight Watchers series will be held on Wednesday, October 8, from noon to 1 p.m. in the South Dining Room of the Brookhaven Center.

This time, Weight Watchers is offering a new approach to weight loss: Called *1-2-3 Success!*, it is based on what is called the POINTS food system, which rates foods based on the combination of calories, fiber and fat.

The class will meet on Wednesdays for eight to ten weeks, depending upon the number of people who sign up. Since the Lab pays \$10 per participant, the fee is \$89 per person. For more information, call Health Promotion Specialist Mary Wood, Ext. 5923.

International Festival Needs Your Talent

As part of the Lab's 50th-anniversary celebration, an International Festival of the arts will be held on Thursday, November 20, from 5 to 9 p.m., to showcase the talents of employees and their family members.

The festival will feature dance, song, music, costumes, arts & crafts, folklore and more. Organized by BNL's Diversity Office as a celebration of employees' different cultures, countries of origin, ethnic backgrounds and traditions, the Festival needs performers and participants, as well as planners and organizers. To volunteer your talents, contact Nanci Hoey, Ext. 2821.

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>.

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

SCIENTIST - With several years' experience in high-energy or relativistic heavy-ion physics, to join the STAR collider detector experiment at RHIC. Proficiency in the design and development of HENP software in C++ and/or Java is required. Experience developing and operating on-line software for HENP experiments is required. Experience in the design, development and implementation of on-line software for large modern physics detectors' infrastructure, and in UNIX and NT environments preferred. Contact: Timothy Hallman, Physics Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD2265. ADMINISTRATIVE POSITION - Requires an AAS in accounting or equivalent experience and significant experience in computing applications. Knowledge of Lab policies and procedures, and familiarity with IPAP/JCARS and concepts of the People Soft accounting system highly desirable. Responsibilities will include coordinating various administrative activities relative to departmental budget and reporting controls. Physics Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD2263. COMPUTER ANALYST POSITION - Requires a BS in computer science with several years' experience in relativistic heavy-ion or high-energy physics. Strong proficiency in large-scale design and software development for modern physics detectors using C++ is essential. Experience in developing large HENP codes for the NT environments is required. Responsibilities will include the design, development and implementation of off-line software and analysis framework, including visualization and analysis tools. Physics Department.

DD6407. EXPERIMENTAL MACHINISTS - Works on various materials from prints, sketches or verbal instructions. Sets up and operates machine tools, and performs benchwork on jobs where standards of operation may require unique application. Performs layout, preparation, measurement, setup, assembly and installation. Makes own tools, performs maintenance incidental to operation of machines and may specialize. Central Shops Division.

DD4065. ELECTRICIAN A - (term appointments) In accordance with the national electrical codes or as otherwise directed, and under minimum supervision, lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. May be required to perform similar duties on other-than-maintenance-division equipment and facilities. Plant Engineering Division.

DD4064. METAL WORKER, MAINTENANCE A - (term appointment) Under minimum supervision, constructs and installs a variety of metal equipment needed in plant maintenance such as sinks, gutters, ventilating hoods, stands, hangers, etc. Lays out own work, makes own patterns from prints, sketches or verbal instructions. Sets up and operates machine tools and tinsmithing machines, and also performs benchwork in the fabrication and finishing of metal or associated products. Performs layout, preparation, measurement, assembly and installation. Performs necessary brazing, welding and silver soldering incidental to the job. Makes own templates, sharpens tools and performs maintenance incidental to operation of machines. Plant Engineering Division.