BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

339th Brookhaven Lecture

New Method Makes Asbestos Harmless

The mineral asbestos has been used extensively since ancient times because of its unique thermal insulation and other properties. During World War II, asbestos insulated naval vessels and was later used as fire protection in high-rise structures, schools and other buildings.

In the early 1900s, however, asbestos was first implicated in increased risk of certain lung diseases, including lung cancer, among asbestos workers. In 1986, the U.S. Environmental Protection Agency (EPA) required that asbestos be removed from schools, at a cost of $3 billion. Some 750,000 U.S. public and commercial buildings contain asbestos, and the estimated abatement effort would cost $100 billion.

But that's old news.

Now, by using a new method of asbestos abatement developed by a joint BNL and W.R. Grace & Co. collaboration, the cost could be cut by an estimated 50 to 60 percent.

To talk about this new method, Leon Petrakis, a senior scientist in the Department of Applied Science (DAS) who led the BNL asbestos research team, will give the 339th Brookhaven Lecture, "Rendering Asbestos Harmless." Introducing the speaker in Berkner Hall at 4 p.m. on Wednesday, October 21, will be DAS Chair James Davenport.

Petrakis will discuss the history of asbestos, as well as the scientific developments that led to the new product, which makes asbestos environmentally benign without diminishing its fireproofing capability. The new technique uses a foam that is applied onto asbestos-containing fireproofing. The foam chemically digests asbestos fibers, dissolving them into harmless materials.

In full-scale tests, Grace and Brookhaven confirmed that using the new product would reduce asbestos to less than 1 percent of the treated fireproofing's weight, which is the EPA's definition of non-asbestos materials. The new method was first used commercially by LVI Environmental, Inc., New York City, in August of this year, under a license from W.R. Grace & Co.

Roger Stoutenburgh

Leon Petrakis

Leon Petrakis earned a B.S. in chemistry from Northeastern University in 1958, and a Ph.D. in physical chemistry from the University of California, Berkeley, in 1961. Before he joined BNL, his career path had included positions with the National Research Council of Canada, the University of Maryland, the University of Pittsburgh, DuPont Company, and Gulf Research & Development Company, as well as visiting professorships at the University of Paris, France, and the University of Athens, Greece.

In 1989, Petrakis joined Brookhaven as DAS Chair. He assumed his current position in 1994.

The author or editor of six technical books, Petrakis has published over 130 peer-reviewed scientific papers, and a historical novel in Greek, his native language, about growing up in Nazi-occupied Europe. He directed two NATO Advanced Study Institutes, and he was a member of the editorial board of the American Chemical Society's *Advances in Chemistry* series.

Coffee will be served in the lobby before the lecture, and refreshments will be offered afterwards. To join the lecturer for dinner at La Plage restaurant, Wading River, call Gail Brown, Ext. 5850. — Diane Greenberg

Retiree's Contributions To Nuclear Medicine Being Honored Today

For his contributions to nuclear medicine, Powell "Jim" Richards, a 1983 retiree from the Medical Department, is being honored today, October 16, by Mallinckrodt Medical. The pharmaceutical firm is dedicating a new building to him at its European headquarters in Petten, The Netherlands.

Working with his Lab colleagues in the 1950s and 60s, Richards developed the production and applications of technetium-99m, a radioactive isotope which, until 1966 when demand grew too great, was exclusively distributed by BNL and is now used in over 85 percent of diagnostic imaging procedures in the U.S.

Extending this work, Medical Department researchers developed and perfected a medical kit that is easily used in clinical practice to label red blood cells with technetium-99m efficiently and effectively. As a result of this technology transfer, Mallinckrodt now markets this kit as UltraTagRBC.

Read more in next week's Bulletin about Richards and his collaborative work on technetium-99m which has led to his being honored by Mallinckrodt.

Nobel Lecturer at USB

Winner of the 1997 Nobel Prize for Physics William Phillips will speak on "Time, Einstein, and the Coldest Stuff in the Universe," the first talk in the State University of New York at Stony Brook's (USB) current Provost's Lecture Series, at 5 p.m. on Monday, October 19, at USB's Student Activities Center auditorium.

BSA Awards Tenure to Five BNL Scientists

Stephen Peggs, Relativistic Heavy Ion Collider Project

Five Brookhaven scientists were granted tenure by the Brookhaven Science Associates Board, effective August 1. The five scientists are: Jeffrey Coderre, Medical Department; Yu-Shin Ding, Chemistry Department; John Gatley, Medical; Stephen Peggs, Relativistic Heavy Ion Collider Project, and José Rodriguez, Chemistry. The following article on Peggs is the fourth in a series to appear over five issues of the Brookhaven Bulletin, which started August 28, to discuss the work of each of the new tenure recipients, in alphabetical order.

Stephen Peggs, a physicist in the Relativistic Heavy Ion Collider (RHIC) Project, was recommended to receive tenure based on "the outstanding and creative contributions to the design, development and improvement of the RHIC collider and the commissioning of its vital systems, as well as his eminent status in the accelerator community," stated RHIC Project Director Satoshi Ozaki.

In addition to his role in RHIC, Peggs heads the national accelerator physics efforts being made as part of the U.S. contribution to the building of the Large Hadron Collider (LHC) at CERN, Switzerland.

"Stephen Peggs is a scientist with a high level of leadership quality and a broad and deep understanding of accelerators, both in design and operation," continued Ozaki. "He is an important asset to our Laboratory."

Peggs was graduated from Oxford University with his M.S. in physics in 1975 and received his Ph.D. in accelerator physics from Cornell University in 1981. He continued at Cornell for ten months as a postdoctoral fellow, working on beam dynamics and lattice topics.

Transferring to CERN for two years as academic fellow, Peggs performed operational and theoretical studies related to proton-antiproton storage at the Super Proton Synchrotron (SPS).


Roger Stoutenburgh

Stephen Peggs

On his return to Cornell for six months in March 1984, he worked on the early operations of the Cornell Electron Storage Ring (CESR).

In November 1984, Peggs joined the Superconducting Super Collider (SSC) Central Design Group at Lawrence Berkeley Laboratory. During the following five years, Peggs worked on many aspects of the SSC design and contributed extensively to the conceptual design report. At this time, he was also cospokesperson for the nonlinear beam-dynamics experiment 778 at the Tevatron, Fermi National Accelerator Laboratory (Fermilab).

In 1989, Peggs transferred to Fermilab to head the Accelerator Physics Department in the Accelerator Division. His responsibilities included the design of the lattice for the main injector, the continuation of theoretical and experimental beam-dynamics studies in the Tevatron, and the development of a cluster of 30 UNIX workstations.

This experience uniquely qualified him, observed Ozaki, for his responsibilities with the RHIC Project, which he joined in September 1992.

As Head of the RHIC Project's Accelerator Physics Group, Peggs has directed the work of about a dozen accelerator physicists and has been responsible for many aspects of the collider's design, engineering specifications and commissioning.

In addition to being recognized internationally for his theoretical knowledge of beam dynamics in accelerators and colliders, "Peggs has also shown rare skill in combining theoretical expertise with the practical requirements needed in a construction project" noted Ozaki.

According to Ozaki, Peggs' princi-

(continued on page 2)

Outreach Workshops

Chemical, Behavioral Addictions

The public generally understands addiction to involve out-of-control use of chemical substances, such as alcohol or drugs. News reports of inappropriate sexual conduct, however, have led many to wonder if such repetitive conduct can also be considered an addiction.

According to many mental health professionals, the term addiction does indeed describe the likes of gambling, overeating and engaging in sex when those behaviors: are performed impulsively and/or compulsively; are continued despite adverse consequences such as loss of money, impact on health, and/or public humiliation; and preoccupy the person to the detriment of other essential life activities, relationships and personal goals.

To understand the definition and key elements of any addiction, whether chemical or behavioral, the Employee Assistance Program (EAP) of the Occupational Medicine Clinic is holding a two-part Outreach workshop.

To be given by addictions counselor Michael Ruis, the first workshop will cover "Chemical Addictions" on Tuesday, October 20, while the second workshop will focus on "Behavioral Addictions" on Wednesday, October 21. Both talks will be given at noon in Berkner Hall.

A nationally accredited addictions counselor, Michael Ruis is the director of Passages Counseling Center, a network of outpatient chemical dependency treatment programs in Suffolk County.

To attend one or both of these workshops, return the completed bottom portion of the Outreach flyer to be sent to all employees. For more information about EAP and its Outreach workshop series, call Ext. 4567.

Nelson Cause First Management Intern For Laboratory Facilities, Operations

Nelson Cause (left) is getting an inside look at how the Lab's facilities and operations management functions, as the Lab's first management intern. Michael Bebon (right), Assistant Laboratory Director for Facilities & Operations, initiated the pilot internship program to provide career development and personal growth opportunity for people on a management track or for those with a few years of management experience. Eligibility requirements for the one-year management-training program include a bachelor's degree and a minimum of five years of experience within BNL's facilities and operations. Cause was graduated from Southampton College in 1987 with a B.S. in accounting, and he had worked for a Long Island accounting firm before joining Brookhaven in 1991 as an administrative services assistant in the Plant Engineering (PE) Division. When selected for the internship, he was serving as a PE budget specialist.

Roger Stoutenburgh

Inside Info

Fred Petschauer was named Deputy for Special Projects for Michael Schlender, Assistant Laboratory Director for Environmental Management (EM), effective March 23. Since August 1995, Petschauer had been the Operations Manager for BNL's Waste Management Division.

As EM Deputy for Special Projects, Petschauer is currently assigned as the Project Manager for the Brookhaven Graphite Research Reactor, which is being fully characterized in preparation for final disposition.

An additional responsibility is Petschauer's membership in a Price Anderson Amendment Act working group, looking into potential violations of quality assurance and radiation protection at the Lab. He will also handle other issues that cross the organizational boundaries of the Waste Management (WM) and Environmental Restoration Divisions.

Coming to the Laboratory in August 1995, Petschauer started as a project engineer in BNL's then Safety & Environmental Protection Division.

Before coming to BNL, he had earned a B.S. in physics and mathematics at Ramapo College of New Jersey. Subsequently, he gained 20 years of experience in project management, health physics and decommissioning through working at commercial nuclear facilities, including the Shoreham Nuclear Power Plant, where he had served as Plant Manager of the decommissioning project.

More Service Awards

The following employees celebrated BNL service anniversaries during the month of September, but were inadvertently omitted from the list published last week:

10 Years

Thomas Y.F. Tsang ..... Instrum.
Frank J. Zafonte ..... ES&H Services
Christopher Zarcone ..... AGS
Yimei Zhu ..... Applied Science
Emil P. Zitvogel ..... NSLS

Hospitality Committee: Cooking Exchange 10/22

On-site residents are invited to bring a dish to share with company to the next meeting of the Hospitality Committee's Cooking Exchange, which will be a potluck luncheon on Thursday, October 22, from noon to 1 p.m. in cottage 24. For more information, call Julie Kin-Zajonz, 929-0405.

Steve Peggs (cont'd.)

pal accomplishment at RHIC has been his leadership in converting the basic conceptual lattice layout into the detailed technical design and specification.

Other RHIC design features that can be attributed to Peggs' vision are: the magnetic correction scheme, both linear and nonlinear; the gamma transition jump scheme, which stabilizes both the beam sizes and machine tunes during the jump of RHIC's unique transition phase; and the layout of what is called the low-beta interaction region.

He is listed as author or coauthor of approximately one-third of the 160 internal RHIC Project Accelerator Physics Notes which have appeared to date.

As an accelerator physicist, Peggs's ability to interact at a practical level with the superconducting magnet builders — he is co-chairman of the RHIC Project magnet-acceptance committee — has resulted in a highly innovative treatment of magnet tolerances, based on a dynamic interaction between the machine and the magnets. His paper "Feedback Between Accelerator Physicists and Magnet Builders," which he presented at the 1995 Lausanne LHC Beam Dynamics Conference, is being used as a model for the LHC program at CERN.

A secondary accomplishment has been Peggs's work in developing an integrated design of the RHIC control system prior to machine start-up, using an advanced approach that he had advocated at the SSC. Managing the flow of data in the control of a collider with superconducting magnets presents a challenge that Peggs proposed resolving with original software applications that results in the highest level of accelerator control. His concepts have been extremely effective, as seen, for example, in the successful execution of the RHIC sextant test in January 1997.

"While major integrated system tests of this kind require many other elements to perform well for their success — the Alternating Gradient Synchrotron as an injector to mention just one — the fundamental strength of Stephen Peggs's concepts together with his implementation strategy represent a major accomplishment," Ozaki commented.

Finally, Peggs has assumed the task of planning the collider-beam commissioning activities and their coordination with the start-up of the experimental program, involving many research groups from the Lab and elsewhere.

In addition, Peggs has been studying the conceptual development of the next generation of large hadron colliders. He chaired the lattice working group at the July 1994 Indiana workshop on future facilities, and he has continued this work over the past few years in looking at aspects of machine designs based on next-generation superconducting magnets.

Peggs is a member of the U.S. National Steering Committee for Future Hadron Colliders. He has chaired many other workshops and presented many papers at conferences, as well as being an active member of the BNL working group on magnet research and development.

Computing Corner

Sign Up for E-Mail News Service

Are you missing important BNL news?

If you want to receive all of BNL's press releases by e-mail, then register for the service provided by the Community Involvement & Public Affairs Division and the Computing & Communications Division (CCD). Nearly 750 BNLers already have!

The service automatically mails BNL news releases, announcements, reminders, and late-breaking developments only to subscribers. Those who don't subscribe receive only the most urgent items, which will continue to be sent to all e-mail users at BNL.

Unlike broadcast e-mail, this subscription service is available to retirees and others outside the Lab's e-mail system.

To subscribe, start a new e-mail message to the address ListProc@bnl.gov. The only words in the body of the message should be: subscribe BNL-ANNOUNCE-L [your name]

In other words, type your full name after you type BNL-ANNOUNCE-L. Send the message. If you encounter problems, then an error message will direct you what to do next.

If you have a news item that you would like to send to the subscriber list or the entire e-mail community, then e-mail it to pubaf@bnl.gov.

See Computing Display, New Supercomputer

On Monday, October 19, from 11 a.m. to 2 p.m., all BNLers are invited to an open house in the Brookhaven Computing Facility, Bldg. 515.

There, CCD staff will showcase the Laboratory's display for the upcoming Supercomputer '98 conference and give visitors a chance to see the new RIKEN QCD supercomputer, which is the fastest multipurpose, noncommercial supercomputer in the world.

Year 2000 Approaches: Are You Ready?

As the year 2000 approaches and as the possibility of computer glitches caused by the date change looms, BNL needs the help of every computer-using employee to avoid such problems.

For those who use a computer at work, the Year 2000 (Y2K) project team has developed a document that describes their responsibility for addressing the Y2K problem. The document can be found on the Web at www.y2k.bnl.gov/briefing.html, or obtained by calling Samantha Lin, Ext. 3471.

Take a moment to review the instructions and fill out the form. Address any questions to department and division Y2K representatives, or to the Y2K project team through Peggy Sutherland, Ext. 3131.

PPO or HMO or POS: Enrollment Reminder

Effective January 1, 1999, the CIGNA medical-insurance indemnity plan and the CIGNA point-of-service plan are being replaced with a preferred provider organization (PPO) program administered by CIGNA.

Therefore, employees who are currently enrolled in either of those CIGNA plans are reminded that, during open enrollment for medical, dental and reimbursement-account benefits, they must decide whether they want to: sign up for the new PPO plan; or join the Vytra Healthcare or Aetna US Healthcare health-maintenance organizations (HMO); or become part of the North Shore-HIP Partnership point-of-service (POS) plan.

Since the enrollment period ends October 30, employees now enrolled in CIGNA and others who wish to change their plans must complete the necessary medical-insurance enrollment forms and return them by the last work day of this month to ensure the proper coverage beginning in 1999.

For forms or more information about medical or dental plans, or health-care or dependent-care reimbursement accounts, contact Muriel Pfeiffer, Ext. 2877, Monday through Thursday, 8:30 a.m. - 1 p.m. Return completed forms to Pfeiffer, Bldg. 185, by October 30.

Deadlines for Bulletin And Weekly Calendar

Deadlines for submitting material for the Brookhaven Bulletin and the Weekly Calendar are as follows:

Brookhaven Bulletin

Classified ads, club notices and other short items are due noon on Friday before the Friday of publication. For coverage of research, events or other activities, contact the Editor, Marsha Belford, Ext. 5053, e-mail belford@bnl.gov, well beforehand.

Weekly Calendar

Submittal deadline is noon on Tuesday before the Monday of publication.

Cell Phone Demos

Bell Atlantic Mobile will be in Berkner Hall on Wednesday, October 21, from 11 a.m. to 2:30 p.m., to offer its special cellular-phone corporate-discount plan to BNL employees. For more information, call Paula Bohacik, 662-5638.

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On Thursday, October 22, from 11 a.m. to 3 p.m. in Berkner Hall, CTP Wireless World will discuss the special AT&T Wireless Services corporate rate it is offering BNL employees, with airtime rates of 20 cents per minute and a monthly access charge of $19.99, This includes: 40 minutes of airtime, 20 percent off airtime charges; several free digital features, and a choice among four free digital phones.

For more information, call Michael Weisinger or Dennis Lamm at 585-2900.

The American Brass Quintet

BSA Initiates New Concert Series With American Brass Quintet

BSA will begin its new concert series with a performance by the American Brass Quintet, the longest continuously performing brass quintet in North America. The group, founded in 1960 and called "The High Priests of Brass" by *Newsweek*, will perform a concert in Berkner Hall on Sunday, October 18, at 7:30 p.m.

The American Brass Quintet has performed in virtually all of the world's major cities, concert halls, and major music festivals. The group is ensemble-in-residence of both The Juilliard School of Music and the Aspen Music Festival.

The program for the October 18 concert consists of: Elizabethan consort music, brass band favorites, and Monteverdi Madrigals edited by American Brass Quintet trumpet player Raymond Mase; Victor Ewald's Quintet No. 1; and contemporary works by Anthony Plog and Eric Ewazan.

Concert tickets, which cost $10 for adults and $5 for students, may be purchased in advance from Paul Freimuth, Bldg. 463, Ext. 3350, or at the door on the evening of the concert. No reservations are taken, so arrive early for the best seats.

The quintet will also give a master class in brass chamber music performance, for local student ensembles. The class runs from 2 p.m. to 4:30 p.m. in Berkner Hall on Sunday afternoon, preceding the concert. All are invited to attend this entertaining and informative event free of charge. No reservations are necessary.

All Invited to BWIS Annual Wine & Cheese

All are invited to Brookhaven Women in Science's (BWIS) annual Wine & Cheese Party, on Thursday, October 22, from 5 p.m. to 7 p.m. in the Physics Seminar Room lobby.

BWIS holds this free social event annually to acquaint BNLers and facility-users who may be prospective BWIS members — both women and men — with the group and its accomplishments, activities and goals. BWIS will also introduce its new board members.

Party Hardy With BERA

Halloween Madness

Ghosts, witches, pumpkins and a whole lot of ghoulish fun lie in wait for everyone who flies in on their broomsticks to BERA's first annual Halloween Madness Costume Party. To be held on Friday, October 30, 6-11 p.m., at the Brookhaven Center, the party will feature dance music by E.T., door prizes, and awards for the best costumes. Admission is $5 per person, and a cash bar and refreshments will be available.

Commit to the Holiday Bash

BERA has scheduled its annual Winter Holiday Party for 1998 on Friday, December 11, at the Rock Hill Country Club in Manorville. The bash will begin at 6 p.m. and feature a sit-down dinner and music by E.T., and all who will attend are asked to dress their holiday best.

While this date is two months away, BERA needs a commitment by the end of this month from an adequate number of BNLers to make this event a go. Once they go on sale, tickets will only be available in advance of the party.

Therefore, before Halloween, those interested in attending the BERA Winter Holiday Party are asked to send their names and the number of tickets that they will purchase to Charles Gardner, Bldg. 911A, or e-mail chuckg@bnl.gov.

Healthfest '98 Run Rescheduled for 10/20

Attention all those who had signed up to run or help on the course of the 5-kilometer Healthfest Fitness Run, which was postponed on Tuesday, October 13: the event has been rescheduled for Tuesday, October 20.

To take place rain or shine, the 3.1-mile run around the site will start at the Biology Department, Bldg. 463, beginning at 12:10 p.m. For more information, call Health Promotion Specialist Mary Wood, Ext. 5923.

Arrivals & Departures

Arrivals

Matthew L. Ceglia ..... AGS
Warren J. Fredricks ..... AGS
Michele M. Hall ..... Comput. & Comm.

Departures

Serguei A. Brazovski ..... Physics
Karen Furenlid ..... Instrum.
Donna M. Ormandy ..... Plant Eng.

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MARSHA BELFORD, Editor
LIZ SEUBERT, Assistant Editor
Bldg. 134, P.O. Box 5000
Upton NY 11973-5000
Tel. (516) 344-2345; Fax (516) 344-3368

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.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD8033. CLERICAL POSITION - (term appointment) - Requires previous relevant office experience and experience with data entry in Microsoft Office 97 (Word, Excel, and Access). Under close supervision, will provide data entry support to several groups within the Division. Plant Engineering Division.

DD3577. ACCOUNTING POSITION - (reposting) Requires a bachelor's degree in accounting, finance or business administration, and professional accounting experience and knowledge of generally accepted accounting principles (GAAP). Knowledge of spreadsheet program (Lotus/Excel), proficiency with personal computers, extensive experience with computerized business systems and processes, and proven analytical skills necessary. Under general supervision, duties will include: analyzing complex accounting transactions, schedules and statements; assisting in special studies and projects as requested; preparing financial reports; maintaining and controlling routine accounting records; and performing routine clerical office functions. Financial Services Division.

(continued on page 4)

Wanted: BNL Art for Fall Show

Attention BNL artists and sculptors: your finest fine art is needed for the BERA Art Society's upcoming Fall Festival of Art, to be held at Berkner Hall from Monday to Wednesday, November 23-25, daily from 11:30 a.m. to 1:30 p.m., with an evening reception from 5 to 7:30 p.m. on Monday, November 23.

BNL employees, their family members 15 years and older, retirees and guests of BNL may all contribute. More than one piece may be entered by an exhibitor, to be shown as space permits. All pictures must be ready to hang.

Bring exhibits for the show to Berkner Hall, Room B, the afternoon of Friday, November 20. For the catalog, complete two forms for each work to be entered and return them by Friday, November 6, to Robert Chrien, Bldg. 510A. More forms are at the BERA Store, Berkner Hall. Copies are acceptable.

Entry for Fall Festival of Art Show, November 23-25, 1998

Name and home phone of artist.....

BNL phone..... BNL contact.....

Title of work.....

Medium (oil, pastel, tapestry, wood, etc.).....

Size.....

Please print clearly and return to Robert Chrien, Bldg. 510A, by November 6.

Classified Advertisements (cont'd.)

DD3229. SECRETARIAL POSITION - Requires an AAS degree in secretarial science or equivalent experience, and excellent organization, communications and PC skills. Familiarity with WordPerfect 8.0, spreadsheets, graphics software, IPAP, INFORM, and knowledge of Lab policies and procedures required. Responsibilities will include instituting a new file system, which will include learning a new log-in system, and filing and distributing reports. Additional duties include performing inventory and updating the INFORM system. Environmental Restoration Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD7315. TECHNICAL POSITION (crane inspector, reposting) - Will perform inspections of overhead cranes, hoists and mobile lifting equipment; witness acceptance/load tests for new cranes; develop and update procedures for material-handling operations; and develop and implement training programs related to material handling. Will also be required to perform construction-safety inspections and evaluate rigging plans. Must have significant experience and training in crane and hoist inspections, and rigging safety, as well as good communication, interpersonal and computer skills, such as MSWord or WordPerfect, Access and Excel. Plant Engineering Division.

NS7587.* PROGRAMMER/ANALYST POSITION - (reposting) Requires a BS in computer science, physics, or related field, with experience in database management and software development. Experience in a scientific environment is preferable. Creativity and good problem-solving skills needed to participate in database administration, data management, development of database interface tools, and other programming tasks for an accelerator-controls environment. Sybase experience desirable. Experience in C, C^{++}, Java, or Perl languages is a plus. Alternating Gradient Synchrotron Department.

DD7868.* DESIGN POSITIONS - (term appointments) Requires significant mechanical drafting/design experience on superconducting magnets, and proficiency in AutoCAD release 12 or later version, Mechanical Desktop release 2 preferred. Must be able to perform professional-level design functions. Background should include a thorough understanding of engineering fundamentals, machine design, machine shop procedures, Mil-Std 100E and ASME Y14, 24M-1989. Knowledge of RHIC Design Standard DS-1 is a plus. RHIC Project.

DD3225.* TECHNICAL POSITION - Requires a BS in geography, cartography or geology, or equivalent experience. A working knowledge of UNIX, ArcView (any platform), and Adobe Illustrator or similar graphics package is highly desirable. Responsibilities include: the design and production of maps for technical, management and community-relations staff; maintenance of an existing GIS link to an Oracle database; and provision of CAD support to staff hydrogeologists. Environmental Restoration Division.

DD7723.* DESIGN POSITION - Requires the ability to perform mechanical design functions, with a working knowledge of: engineering fundamentals, machine design, shop practice, and welding and vacuum systems. Must be familiar with ANSI Y14.5-1982. Will be responsible for projects from conceptual layouts to detailed working drawings. Experience with AutoCAD, Windows NT/Unix necessary. Knowledge of Pro-Engineer/Mechanical Desktop desired. Alternating Gradient Synchrotron Department.

DD3231.* ADMINISTRATIVE POSITION - Requires a BS degree in a relevant discipline and demonstrated experience in managing cost/schedule control systems; DOE program experience highly desirable. Requires advanced knowledge of the principles, techniques and practices of project management and project controls. Broad knowledge of estimating, budgeting, scheduling and accounting, cost management, and control systems required. Requires experience with a wide variety of the software tools used to perform these project-control functions, as well as strong leadership and communication skills. Experience with CERCLA/RCRA environmental programs is highly desirable. Will develop and manage program budgets and funding requirements for ERD, and coordinate with other divisions on related budget and schedule topics. Environmental Restoration Division.

DD7053.* TECHNICAL POSITION - Requires significant health-physics experience, respirator qualification, and either DOE RCT qualification or NRRPT registration. Additional requirements include the ability to obtain and maintain a security clearance, and 40-hour Hazwoper training. Will provide health physics support to the environmental upgrade projects at the High Flux Beam Reactor, and experimental programs at the Brookhaven Medical Research Reactor. Environment, Safety & Health Services.

DD7054.* ENGINEERING POSITION - Requires MS degree in nuclear engineering or health physics, and significant operational experience in nuclear power plant or facility decommissioning. RCT and RCT supervisor qualification, certification by the American Board of Health Physics, and familiarity with the MARSSIM characterization process are highly desirable. Responsibilities will include the Brookhaven Graphite Research Reactor stabilization and deactivation project. Will assist technical staff in performing surveys and reviewing survey results. Will issue personal-protective equipment, prepare radiological work permits, and assist the Project Manager as required. Environment, Safety & Health Services Division.

NS3357. QM PROGRAM COORDINATOR - (reposting) Requires a bachelor's degree in quality management or organizational development, or equivalent, and at least five years' experience in developing and implementing quality-management programs. Strong communication, presentation and computer skills are essential, including MS Word or WordPerfect, EXCEL, ACCESS, PowerPoint and Internet services. Responsibilities include: designing and developing quality-improvement projects; conducting QA assessments; supporting program managers in development and implementing procedure; and reviewing and analyzing mission, organizational design and management structure. Plant Engineering Division.

NS7056. ENGINEERING POSITION - Requires bachelor's degree in science or engineering, and several years' experience in system-safety programs. Excellent oral and written communication skills are necessary; CSP certification and/or PE license is desirable. Will assist project management in design criteria review, analysis, test, and approval of lifting fixtures; safety review of equipment design and cryogenic safety. Will also assist in construction-safety program implementation, and coordination of interdisciplinary review of projects. Environment, Safety & Health Services Division.

NS8020. ENGINEERING POSITION - Requires a bachelor's degree or equivalent in a technical discipline, and several years of experience implementing QA programs in a nuclear or non-reactor nuclear facility. Working knowledge of applicable local, state and federal statues, codes and standards, i.e., ISO 14000 and 10 CFR 830.120 and 10 CFR 835, is required. Good computer and communication skills are necessary. Responsibilities will include the preparation/maintenance of the Waste Management Division QA program; performing internal and external assessments; assisting management in evaluating and coordinating corrective actions; coordinating compliance with DOE safety requirements; maintaining the Nonconformance Tracking System; implementing Price Anderson Amendments Act requirements; and ensuring required records are complete. Quality Management Office.

NS7238. PUBLIC AFFAIRS REPRESENTATIVE POSITION - Requires a bachelor's degree in an appropriate field, and several years' experience in a public affairs environment. Excellent oral and written communication skills as well as the ability to work under pressure and the ability to grasp complex concepts quickly are necessary. Will develop and implement community-involvement and community-outreach programs. Will assist with the coordination of community requests and responses. Will organize meetings and assist with community briefings. Community Relations Office.

MK8107. MANAGER, INFORMATION TECHNOLOGY DIVISION - Requirements include an advanced degree in a scientific discipline, preferably computer science, applied mathematics or physics; and extensive technical knowledge and experience directing a staff in support of scientific research at a large technical facility. May be required to obtain and maintain a security clearance. Will have management oversight for the entire BNL network; the BNL Computing Facility, with requirements that range from computer design and construction to software development; and facilities such as the visualization laboratory and video-conferencing. Will also have other accountabilities in the areas of computer training, research operations and diagnostics, maintenance and repairs. In addition, will be responsible for the planning, coordination, direction, and safety of the Division, and the development and administration of policies, procedures and practices to achieve the assigned goals consistent with BNL's IT strategic vision. Information Technology Division (at present the Computing and Communications Division).

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* reposted due to error in last week's Bulletin.