BROCHHAFN BULLETIN Vol. 52 - No. 44 November 20, 1998 **BROOKHAVEN NATIONAL LABORATORY**

Katcoff Awarded 1998 Seaborg Medal **By American Nuclear Society**

Seymour Katcoff, who retired from the Chemistry Department in 1989 and now holds a guest appointment as a research collaborator in Chemistry, was awarded the 1998 Glen T. Seaborg Medal on November 17 by the American Nuclear Society (ANS).

Established in 1983, the Seaborg medal is one of the most prestigious awards given by the ANS. It recognizes individual excellence in research achievements in a field that has led to developing peaceful uses of nuclear energy.

The award honors Glen T. Seaborg, who won the 1951 Nobel Prize in chemistry for discovering plutonium and other transuranium elements, and for characterizing their chemistry.

"I am delighted that ANS has honored Seymour for his long and distinguished career in nuclear chemistry,' said Peter Haustein, who is a senior chemist at BNL and chair of the American Chemical Society's Division of Nuclear Science & Technology. "Many of the nuclear chemists at BNL have worked with Seymour over the years, and we greatly value his extraordinary enthusiasm and energetic approach to research problems."

Katcoff's outstanding contributions to nuclear chemistry include a determination of the various chemical and physical properties associated with fission reaction by-products.

During World War II, Katcoff worked on the Manhattan Project, during which he conducted radiochemical studies on fission products, the results of which became part of the wartime plutonium project record.

In related studies, Katcoff announced the discovery of three new radionuclides: barium-131, cesium-131 and barium-133.

At Los Alamos National Laboratory immediately after the war, he continued his study of the fission process, by accurately determining the range and mass of plutonium fission fragments in air.

Coming to BNL in 1948, Katcoff took on the task of isolating iodine-129, a little-known radioisotope. He not only isolated the radioisotope, but he also accurately determined its radioactive half-life of 17 million years, a discovery which at that time allowed scientists to calculate a plausible age for the elements involved in the Earth's creation. He later used BNL's accelerators and reactors to measure neutron cross sections and to study nuclear reactions of high-energy and heavy ions.

Besides research, Katcoff has devoted a significant part of his life toward improving public understanding of nuclear science and engineering.

In 1972 and 1973, he taught physical chemistry as part of the Brookhaven Semester Program. Later, while on leave from the Lab 1984-85, he taught general chemistry and environmental chemistry to undergraduates at the City College of New York.

His greatest achievement in the last decade has been to establish at Brookhaven an annual summer school in nuclear chemistry for undergraduates. Now in its tenth year, this school - the East-Coast counterpart of a similar school at San Jose University in California — has graduates who work in nuclear fields in research and industry nationwide.

Katcoff received a BS in 1940 in chemistry and a Ph.D. in 1944 in physical chemistry, both from the Univer-



Seymour Katcoff

sity of Chicago. After joining BNL in 1948, Katcoff spent his first sabbatical year, 1958-59, as a Weizmann Fellow at the Weizmann Institute of Science in Israel. He returned to the Weizmann Institute in 1967 on his second sabbatical, as a Guggenheim Fellow.

A decade later, he was invited to work on muon-induced nuclear reactions at the Swiss Nuclear Institute and radiochemical studies at the Institute of Nuclear Chemistry, University of Mainz, Germany.

Katcoff is a member of the American Physical Society and American Chemical Society. — Amena Saiyid

BNL Retiree Jim Richards Honored for 'Critical Contribution' To Nuclear Medicine, by Pioneering the Use of Technetium-99m

For pioneering the medical use of technetium-99m — which is now the radiotracer most used in the world of nuclear medicine for the diagnosis of disease - BNL retiree Powell "Jim" Richards was honored this October 16 in Petten, The Netherlands. There, the European subsidiary of the U.S. pharmaceutical-maker Mallinckrodt, Inc., dedicated its new molybdenum processing plant to him.

As the plaque on the new building explains, Richards is being recognized for "his scientific contributions and unceasing efforts leading to the introduction, development, and use of technetium-99m as an imaging isotope in diagnostic nuclear medicine

Today, technetium-99m-labeled compounds are used in approximately 85 percent of the world's diagnostic scanning procedures, to image, among other organs, the heart, liver, spleen and bone marrow. Last year, nuclearmedicine procedures involving technetium-99m numbered 10 million in the U.S., 5 million in Europe, and 4 million in Japan.

In fact, the most recent new application for technetium-99m was reported in October's New England Journal of Medicine: Physicians at the University of Vermont inject technetium-99m into breast tissue surrounding breast-cancer tumors to locate infected lymph nodes quickly and precisely before surgery.

By bringing nuclear medicine's attention to technetium-99m, Richards not only helped revolutionize the field, but also laid a foundation for the routine clinical use of many other radioisotopes for diagnostic imaging. Among the radiotracers developed at BNL is the UltraTagRBC red blood-cell labeling kit, which uses technetium-99m and is marketed worldwide by Mallinckrodt. (continued on page 2)



(From left) BNL's late Walter Tucker, and Powell Richards, seen in 1983 standing next to a display describing their work.



(From left) **Powell Rich**ards, Shirley **Richards**, and Suresh Srivastava, pictured after the ceremony during which Mallinckrodt dedicated its new molybdenum processing plant (background) in Petten, The Netherlands, to **Powell Richards**

Dr. Bond Goes to Washington: **On Assignment at OSTP**

After the first of the new year, Peter Bond, who is Special Assistant to the Director, will begin a one-year assignment as a senior policy analyst in the White House Office of Science & Technology Policy (OSTP) in Washington, D.C.

Now headed by the President's Science Advisor Neal Lane, OSTP was established in 1976 to provide the President with timely and informed advice on U.S. science and technology policy, issues, and budgets. In addition to addressing science and technology, OSTP studies matters regarding the environment, and national security and international affairs. OSTP's four divisions are staffed mostly with people on assignment from other federally funded agencies and institutions.

Within OSTP's Science Division, Bond will be studying issues, writing policy papers, and giving advice on subjects within the division's domain. These topics include: reforming the federal laboratory system, improving the partnership between universities and the federal government, and increasing the representation of minorities and women in science and technology. (continued on page 2)

Veterans Day 1998 A Salute to the History of Camp Upton



BNLers and local veterans salute the American flag at a November 10 ceremony announcing Bldg. 184 as the future home of the Camp Upton Historical Collection. From left, BNL Deputy Director for Operations Tom Sheridan, Director John Marburger and DOE Brookhaven Group Manager George Malosh stand with members of the Rocky Point chapter of the Veterans of Foreign Wars (VFW). During World War I, the U.S. Army established Camp Upton in Yaphank as a cantonment for the 20th Infantry. During World War II, many of today's local VFW members and thousands of others were inducted into the Army at Camp Upton, which in 1947 became the BNL site. Some local veterans revisited memories of Army life before and after the ceremony, viewing some of the many artifacts and photos that make up BNL's collection. Soon, renovations will begin on the front of Bldg. 184, the former Camp Upton chapel, to turn it into a display space. By next spring, Janet Tempel and her staff in the Museum Programs Group of the Community Relations Office will be ready to offer Lab visitors tours through Camp Upton's rich history. The library annex will remain in the building, with access through a side door. - Kara Villamil

Technetium-99m (cont'd.)

"The introduction [of technetium-99m and molybdenum-technetium generators] in the early 1960s by Powell Richards and the radiopharmaceutical group at BNL revolutionized clinical nuclear medicine," stated James Fletcher, President of the American Society of Nuclear Medicine. "It is hard to conceive of where nuclear medicine would be today without his critical contribution."

"Powell Richards is a true pioneer in his field," said Rudolf Scholte, who is Mallinckrodt's European Vice President for strategic marketing in nuclear medicine. "He was fortunate to find himself working at a laboratory where his creativity and vision were encouraged. Mallinckrodt is fortunate to have had such a fruitful collaboration with BNL. And people everywhere are more fortunate than they may know to have access to the life-saving benefits that technetium-99m provides."

"I am very pleased that Powell Richards was honored by Mallinckrodt for his past accomplishments at BNL that led to the introduction of technetium-99m, the most widely used isorepresented at the ceremony by Peter Paul, the Lab's Deputy Director for Science & Technology. "BNL feels equally honored and proud of its continuing accomplishments in the field of nuclear medicine, progress that has contributed to improved health care and patient health worldwide."

Along with Powell Richards and his wife Shirley Richards, and Peter Paul, the other BNLer who attended the dedication ceremony was Suresh Srivastava, who heads the Radionuclide & Radiopharmaceutical Research Group in the Lab's Medical Department.

"I am delighted that Mallinckrodt has honored Jim by dedicating this facility to him," says Srivastava. "While at Brookhaven, Jim inspired all those who worked with him and was a great mentor. So I am glad that I had the opportunity to work with him. He can be assured that BNL's radiopharmaceutical program continues to thrive, by developing new isotopes for treating and diagnosing cancer and other diseases."

In addition to Richards and Srivastava, others at BNL who had contributed to the development of the technetium-99m generator and other radiopharmaceuticals using technetium-99m include: Harold Atkins, the late James Baranowsky, Edward Deutsch, William Eckellman, Margaret Greene, Paul Harper, Katherine Lathrop, Elliot Lebowitz, the late Archie Macauley, George Meinken, Terry Smith, Louis Stang, and the late Walter Tucker.

Peter Bond

"While I'm there, I hope to contribute some sensible advice, as well as gain experience useful to Brookhaven in the long run," says Bond.

(cont'd.)

With a 1969 Ph.D. in physics from Case Western Reserve University and after a post-doc at Stanford University, Peter Bond joined the Lab in 1972 as an assistant physicist, beginning his BNL career in basic nuclear physics research. Promoted to a senior physicist in 1986, he served as **Chairman of the Physics Department** for ten years, 1987-97. In May 1997, Bond was appointed Brookhaven's **Interim Deputy Director of Scientific** Programs, and, that July, he became the Lab's Interim Director. After BSA became the Lab's new management and operating contractor on March 1 of this year, Bond was named to his present position.



Peter Bond

While on assignment, Bond will remain a BNL employee and will commute to and from Washington.

Holiday Notes

In observance of Thanksgiving, the Lab will be closed on Thursday and Friday, November 26 & 27. As a result, the following schedules will be in effect:

• **Brookhaven Bulletin** — There will be no Bulletin next Friday; the next issue will be published 12/4, with a classified ad deadline of noon on Wednesday, 11/25.

• **Credit Union** — The Teachers Federal Credit Union branch on site will be closed 11/26, but open 11/27, 8:30 a.m.-4:30 p.m. The automatic teller machine in Berkner Hall will be open throughout the holiday.

• Food Service — The cafeteria will be closed Thursday through Sunday, 11/26-29. The Brookhaven Center Club will be closed Thursday-Saturday, 11/26-28; it will reopen on Sunday, 11/29, 5-9 p.m.

• **Gym & Pool** — Both will be closed Thursday-Sunday, 11/26-29. Their usual schedules will resume on Monday, 11/30.

• Omega Leisure Travel Office — This will be closed 11/26 & 27.

• **U.S. Post Office** — The Upton branch of the U.S. Postal Service will be closed on 11/26. On Friday, 11/27, mail will be delivered to post office boxes, and window service will be available from 8 a.m. to noon.

was the first to suggest to the world, in proceedings from a 1960 Rome, Italy, symposium, that technetium-99m would be a perfect radioisotope for medical use.

Radioisotopes are radioactive forms of chemical elements which share similar properties with their nonradioactive cousins. Since the advent of the medical use of technetium-99m, radioisotopes have been developed for diagnostic imaging, treating diseases including cancer, and measuring physiological functioning. Usually administered intravenously, radioisotopes localize in specific tissues or organs in the body and, as a result of the radiation released, are traced using an external detector.

Richards based his recommendation to the nuclear-medicine community on the ideal properties of technetium-99m: It has a short half-life of six hours, emits gamma rays of an appropriate energy for imaging by what is called an Anger camera, and does not damage the biological system that it is used to image.

And so, the first medical researcher to use technetium-99m became BNL's Claire Shellabarger of the Medical Department, who employed it to study the thyroid. and Argonne Cancer Research Hospital — as a result of a plane ride that Harper had taken with Richards to the 1960 Rome symposium.

In 1958, BNL declined to file a patent for this device because, as was noted in a memo, "We are not aware of a potential market for technetium-99 great enough to encourage one to undertake the risk of patenting in hopes of successful and rewarding licensing." Due to this decision and growing worldwide medical demand for technetium-99m, commercial suppliers took over the production and distribution of technetium-99m generators from BNL in 1966.

Today, Mallinckrodt is one of five major pharmaceutical manufacturers that make 90 percent of the technetium generators sold to hospitals and nuclear-medicine centers around the world. In the U.S., for example, a hospital must have its own generator or access to one to be accredited by the American Hospital Association.

As a result of establishing molybdenum-production facilities at a Dutch-owned nuclear reactor in Petten and opening its own new molybdenum processing plant nearby, Mallinckrodt

tope in nuclear medicine," said BNL Director John Marburger, who was



The first technetium-99mm generator developed at BNL, circa 1958, shown without shielding.

Technetium-99m at BNL

Codiscovered in 1936 by 1951 Nobel Prize winner Glen Seaborg (see story on Seaborg Medal on page 1) and 1959 winner Emilio Segrè, technetium is an artificially made chemical element. Technetium-99m is one of its radioactive isotopes produced, among other ways, by the decay of molybdenum-99, a decay scheme which was first determined by BNL's Maurice Goldhaber in 1952.

Richards, who retired in 1983 as head of Medical's Radionuclide & Radiopharmaceutical Research Group, Richards encouraged its use in medicine because technetium-99m could be easily produced in a simple but elegant chemical generator. First conceived of by BNL's late Walter Winche and first developed in the mid 1950s by Walter Tucker and Margaret Greene, that generator involves a novel scheme to separate the "parent" molybdenum from the "daughter" technetium.

Around the time of the generator's development, Richards was put in charge of BNL's radioisotope production and, as a result, was introduced to and began extolling the properties of technetium-99m to the nuclear medicine community through symposium presentations, published papers, and individual discussions.

The first order for a technetium-99m generator came in 1961 from Paul Harper of the University of Chicago is now able to meet all of its own needs for that parent of technetium.

In 1976, Richards patented a kit that he had developed to label red blood cells with technetium-99m, work that was refined and patented again in 1988 by Srivastava and company.

Since a 1989 agreement between BNL and Mallinckrodt Medical, B.V., in The Netherlands, that kit's technology has been exclusively licensed to Mallinckrodt, which developed it further and has been marketing the kit worldwide as UltraTagRBC since 1991.

As Richards, Tucker and Srivastava concluded in 1982: "The important role that technetium-99m has played in shaping the field of diagnostic nuclear medicine has been clearly established and remains undisputed. In fact, the statement that nuclear medicine to a large extent owes its emergence and existence to technetium-99m would not be an exaggeration."

Give Thanks for Wild Turkeys on Site Thanksgiving Day Parade

Wild turkeys on site don't trot; they parade unhurriedly each morning from approximately 7 to 9 a.m. around the Water Treatment Plant, Bldg. 624, at the corner of Upton Road and Cornell Avenue.

"For about a month, they've been coming here for a drink at the recharge basin," said Chris Hanley, Plant Engineering Division, who works at the plant. "They have a regular routine — after drinking and wandering around for a while between this building and the air-stripping tower, they cross Upton Road and go off into the woods.

Hanley recalled seeing a similar group of turkeys at this pool last year, and others, the year before that, at another pool further east on site.

Turkey sighting is becoming more frequent at the Lab, mostly due to a program of the New York State Department of Environmental Conservation (NYSDEC), to reintroduce a native species that had been wiped out on Long Island into what used to be its natural habitat.

Harry Knoch, who is NYSDEC Regional Wildlife Manager, explained that reintroducing wild turkeys throughout New York and the Northeast is one of the major success stories of modern wildlife management. As part of a trap-and-transfer program, he said, biologists trap wild birds and release them to settle in a suitable habitat elsewhere.

Before the 1960s, people tried releasing birds raised on game farms, but they did not take to the wild. In the mid-60s, biologists started relocating birds that had wandered from Pennsylvania, moving them into many other states and Cana-

dian provinces. Said Knoch, "In

1993, we released 49 wild turkeys from upstate, about half of them near Montauk, and the rest in Southaven Park, south of BNL. They did well, and, in 1994, we repeated the program with 25 birds. The transfers have succeeded — birds are regularly reported from areas around the release sites."

To help in this effort, Jan Naidu of BNL's ES&H Services Division, is noting wild turkey sightings at BNL for NYSDEC's Knoch and Jim McDougal.

"Through Roy McWilliams and his Site Maintenance Group in the Plant Engineering Division, we have been able to report wild-turkey sightings at least 11 other locations, with dates, times and numbers in the flocks," said Naidu. "Most of the sightings to date have been made by Site Maintenance and the AGS Rigging Group, and we will continue to report data.'

As reported in "Long Island, Our



Story," in Newsday, November 18, 1998, wild turkeys used to be common on the Island. Author Irene Virag quotes from the travels of a Daniel Denton, who described Long Island wild turkeys in 1670.

"It's good to know that we can recreate some of the conditions that our early settlers experienced," commented DEC's Knoch. "At some point, there will be a wild-turkey surplus and we will have to keep a balance, which is not easy. But, we believe it is worthwhile to have native wild turkeys once again on Long Island."

Since wild turkeys are yet in surplus, BNL employees who enter the site via the North Gate should drive extra carefully on Upton Road between 7 and 9 a.m. Therefore, the human rush to work should not disturb the turkeys' morning parade.

– Liz Seubert

Coming Up

The Stony Brook Opera Ensemble will perform at Berkner Hall on Thursday, December 10, at 8 p.m. The program includes a children's Christmas opera, "Amahl and the Night Visitors," and highlights from other operas. The concert is free, but donations will be gratefully accepted to help fund future events.

BERA News

The BERA Sales Office in Berkner Hall is open 9 a.m.-1:30 p.m., Tuesday-Friday. For more information, contact Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873. **Toy Drive Starts November 24**

For the fourteenth year, BERA will participate in the annual toy drive organized by Brookhaven Town to provide happy holidays for needy youngsters. From Tuesday, November 24, to Friday, December 18, bring new toys for children of all ages infants through teens — to the BERA Sales Office.

BERA Book Fair

On Thursday and Friday, December 3 & 4, BERA will again sponsor a book fair in Berkner Hall, featuring fun reading ranging from children's stories to cookbooks to New York Times bestsellers.

These new, hardcover books will be sold at a 50-75 percent reduction. They will be in stock, ready for immediate purchase at the fair. Gift items will also be available. Master Card and Visa will be accepted for payment.

NYC Bus Trip on December 5

Tickets, at \$18 per person, are now on sale for the "Do Your Own Thing" bus trip to New York City on Saturday, December 5. The bus will leave the Brookhaven Center at 10 a.m. and leave the city at 7 p.m., with the drop-off and pickup location at Rockefeller Center, at Fifth Avenue and 50th Street.

Computer Training

An additional Microsoft Outlook class is scheduled for November 25.

Other classes scheduled by the Computing & Communications Division (CCD) in December are:

	,	
1	2/8	EXCEL, beginner
1	2/9	PowerPoint, beginner
1	2/10	Windows 95, basics
1	2/14	Word, beginner
1	2/15 & 16	ACCESS, beginner
1	2/17	Word, intermediate

To register, or for more information, contact Pam Mansfield, Ext. 7286, or pam@ bnl.gov.

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, November 23, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. There will be a meeting for shift workers at 3 p.m. at the union office. The agenda includes regular business, committee reports, and the president's report.

To Your Health

Healthline: Be Flexible

On Tuesday, November 24, exercise physiologist Susan Williamson will hold a 'Flexibility Workshop" at noon in the Brookhaven Center. Workshop participants will stretch with her and get the benefit of her advice. Sponsored by the Health Promotion Program of the Occupational Medicine Clinic, the workshop is free of charge. To register, before November 24, return the bottom portion of the flier recently sent to all employees to Mary Wood, Bldg. 490.

Outreach: Show Me the Money

To address the way attitudes, emotions and beliefs concerning money affect behavior, clinical psychologist Jonathan Hoffman will discuss "Emotional Intelligence and Money" at the next Outreach workshop

Sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic, the talk will be given on Tuesday, December 1, at noon in Berkner Hall. Audiocassettes of the talk will be available at the Research Library, Bldg. 477.

To register for this workshop, return the completed bottom portion of the Outreach flyer sent to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490, by Monday, November 30.

Give to the United Way

The 1998-99 BNL United Way Fund Drive kicked off on Thursday, November 19. Pledge cards will be sent to all employees, and Tirre Farmer, Plant Engineering Division, who is coordinator of this year's campaign, has high hopes that Lab employees will give generously.

Used by one in every three Long Islanders, the over-160

services agencies ensure that whenever people need outside assistance – guid-

ance for youth, care for seniors, training for the disabled — help is at hand.

"Last year, our pledge goal was \$90,000, and our final total of over \$100,000 ranked ninth in Long Island among noncorporate donors," reported Farmer. "However, that \$100,000 was contributed by just 21 percent of our employees.

"This year, we have set the goal for \$100,000, but my real goal is to get donations from everyone," continued Farmer. "If the other 79 percent of BNL staff each gave even \$2 a week, or a

small, one-time gift of \$10 or \$20, it would make a difference. Just \$6 can provide tutoring for a child at risk of dropping out of school, or, for \$25, a homeless person can be sheltered."

Many people do not give to the Lab United Way fund because they are already supporting charities elsewhere, Farmer explained.

> "But, I am asking all that BNL's gift to Long Island's United Way not only helps thousands of

people, it is also one symbol of the Lab's community involvement," he said. "Every contribution we make to the fund, over and above what we give privately, helps demonstrate publicly that BNL cares about the community. So, please, let's all make that extra effort to make a pledge - return your pledge card right away."

Flexible Spending

Monday, November 30, is the dead-

United Way-supported LONG ISLAND'S employees to consider

UNITED WAY

Wanted: B-Ball Players

For games starting in January, basketball teams are being set up. To sign up as a player, put your name on the sign-up sheet in the gym. To become a captain, call Jim Desmond, Ext. 4837.

ROXHANEN

Media & Communications Office for the employees of BROOK HAV EN NATIONAL LABO RATORY

MARSHA BELFORD, Editor UZ SEUBERT, Assistant Editor

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Calling All Carolers

The BNL Choral Group will present its annual holiday concert in the cafeteria at the holiday luncheon to be scheduled just before Christmas. All employees and retirees are welcome to join the group, and sopranos, altos, tenors and basses are needed. To read music is not essential; to sing in tune is highly prized.

Rehearsals will be held from noon to 1 p.m. as follows: Tuesday, December 1, in the North Room, Brookhaven Center; Thursday, December 3, in Room A, Berkner Hall. All other rehearsals, on Monday, December 7; Thursday, December 10, Tuesday, December 15. and Thursday, December 17, will be in Berkner Hall auditorium. For more information, call Kara

Villamil, Ext. 5658, or Liz Seubert, Ext. 2346.

line for establishing a flexible spending account for health care and/or dependent care for 1999. Obtain enrollment forms from the Benefits Office, Human Resources Division, Bldg. 185.

1999 Lab Holidays

Holiday

New Year's Day Floating Holiday (Martin Luther King Jr. Day) Presidents' Day Memorial Day Independence Day Floating Holiday Labor Day Veterans Day Thanksgiving Day Day After Thanksgiving Christmas Eve Christmas Day

Holiday Observed: Day Date Friday January 1 Monday January 18 Monday February 15 May 31 Monday Monday July 5 Tuesday July 6 Monday September 6 Thursday November 11 Thursday November 25 Friday November 26 December 23 ($^{1}/_{2}$ day) Thursday Friday December 24

Fall Festival of Art Berkner Hall, Room B Monday, November 23, through Wednesday, November 25 11:30 a.m. to 1:30 p.m. Evening Reception with free refreshments: Monday, 11/ 23, 5 to 7:30 p.m. sponsored by the BNL Art Society

Defensive Driving

The Environment, Safety & Health Services Division will offer a six-hour defensive driving course in two 3-hour classes to be held on December 15 and 16, from 6 to 9 p.m., in Berkner Hall. Completing the course entitles participants to a discount on vehicle insurance and to have up to four points deducted from their driving records.

The fee is \$20 per person. To register, call Scott Zambelli at 249-3000, Ext. 5877.

DCP Help Desk

The Division of Contracts & Procurement (DCP) has established a help desk to assist requisitioners with their procurement questions. To reach the help desk, phone Ext. 34322, fax Ext. 5499 (and note "Attention: Help Desk"), or e-mail dcphelp@bnl.gov.

Arrivals & Departures

Arrival	S
f	

Percefoni Doufou	Chemistry			
Lars A. Ewell	Physics			
Pransejit Ghosh	Chemistry			
Martin Kesselman	AGS			
Evangelia G. Moshopoulou Physics				
Cecilia Sanchez Hanke	NSLS			
Ronald J. Schroeder	AGS			
Jinhu Song	AGS			
Departures				

Robert M. Burkhardt AGS Simon C. Durrant Physics Caroline F. Kramer ES&H Services Lawrence E. Rosenberg ... Cent. Shops



Placement Notices

The Lab's placement policy is to select the bestqualified 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. address accelerator physics design issues, develop high-level controls software and participate in accelerator commissioning. Under the direction of S. Peggs, Relativistic Heavy Ion Collider Project.

MK7830. SCIENTIST POSITION - Requires a Ph.D., experience in instrumentation development for accelerator and experimental beam-line systems, expertise in ultrahigh vacuum technology, knowledge of the interface of accelerator systems with beam-line operations, and demonstrated capability to collaborate on cross-disciplinary projects and establish independent research programs. Strong mechanical background preferred. Under the direction of E. Johnson, National Synchrotron Light Source Department.

NS7058. ENGINEERING POSITION - Requires advanced degree in radiation protection, radiological sciences, nuclear engineering or the equivalent; five years' occupational radiation protection field experience, and three years' experience as a RAP team captain. Computer proficiency, excellent communication skills and familiarity with DOE and other federal requirements for radiological operations and transportation are necessary. Duties will include serving as the Region 1 contractor-response coordinator and interacting with coordinators from seven other RAP regions. Environment, Safety & Health Services Division.

NS7570. ENGINEERING/SCIENTIFIC POSITION -Requires an advanced degree and a minimum of three years' experience in one or more of the following areas: international or domestic nuclear safeguards, nuclear nondestructive and destructive assay measurement technology, containment and surveillance (C/S) technology, system analysis and technical project management. Excellent communication skills are necessary, as is the ability to accept a two-year assignment in Vienna, Austria. Ability to obtain/maintain a DOE security clearance is required. Will provide technical management oversight on projects performed by outside vendors to benefit the Safeguards Department of the International Atomic Energy Agency in Austria. Department of Advanced Technology.

NS7727. PHYSICS ASSOCIATE POSITION - Requires BS in physics or related field, excellent communication skills and the ability to work rotating shifts. Experience in high-power pulsed power supplies, digital electronics, computer controls and programming, as well as laboratory test and measurement techniques, is desirable. Duties include operating and troubleshooting the AGS accelerator complex for the experimental physics program and participating in the RHIC/ AGS emergency response team. Alternating Gradient Synchrotron Department.

DD8036. BUDGET POSITION - (reposting) Requires a BS in accounting/finance or a relevant discipline, several years' accounting/finance experience, and knowledge of spreadsheet and database applications (Excel, Access). Practical experience in network administration is a plus, as is familiarity with activitybased cost accounting and/or construction accounting. Will be responsible for variance analysis of sales, labor and overtime activities, and assisting in rate developments and all aspects of the budget cycle. Plant Engineering Division.

DD7810. TECHNICAL POSITIONS - (term appointments) Requires a BS in a physical science (physics, chemistry or engineering), excellent communication skills, and a demonstrated ability to learn to operate complex apparatus and computer software. Under general supervision, will assist users in the execution of x-ray diffraction experiments at the structural biology beam lines of the National Synchrotron Light Source. Responsibilities include the maintenance and repair of apparatus, as well as the performance of routine computer operations. Experience in operating UNIX computer operating systems and electromechanical debugging and troubleshooting is desirable. The ability to work shifts is required. Biology Department

DD7812. ENGINEERING POSITION - (term appointment) Requires a BS in electrical engineering or equivalent experience. Will support facility upgrades for the structural biology beam lines at the National Synchrotron Light Source. Responsibilities include: the design and implementation of digital and analog circuitry; low-level programming of various control systems; maintenance and repair of existing electrical and electronic systems, including stepping motor control systems, NIM and VME-based electronic system, and various special-purpose circuits; and participation in ongoing upgrades of motion-control and data collection systems involving the installation of commercial control and power systems. Requires demonstrated experience with TTL and simple analog design techniques, programmable gate array design and programming, and knowledge of C and/or Intel assembly and gate array programming languages. Working knowledge of AutoCAD and experience with a major electronic design simulator (SPICE) desirable. Biology Department.

NS7514. BUDGET POSITION - Requires bachelor's degree in business administration or the equivalent work experience, and experience in the preparation and monitoring of budgets, proposals and monthly

LABORATORY RECRUITMENT - Opportunities for Laboratory employees

DD8048. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent, good oral and written communication skills, ability to work under pressure and strong organization skills. Familiarity with WordPerfect 8, MS Word, PowerPoint, Visio, Web requisitions (PeopleSoft), IPAP and BNL travel systems required, as is the ability to handle multiple tasks and prioritize work. Will perform a variety of secretarial duties, including scheduling meetings, preparing correspondence, tracking commitments, handling telephones and filing. Environmental Management Directorate.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates

MK7813. POSTDOCTORAL RESEARCH ASSOCIATE POSITION - Requires a Ph.D. in the biological or chemical sciences, with a background in structural biology and/or computing highly desirable. Work will involve the construction of an object-oriented database along with a query system that will assist in gaining a deeper understanding of the action modes of toxins at the cellular, subcellular and molecular levels. The database will support queries to help studies on the use of toxins as tools to probe numerous functions and architectural components of eukaryotic cells. Under the direction of S. Swaminathan, Biology Department.

MK7872. POSTDOCTORAL RESEARCH ASSOCI-ATE POSITION - Requires a Ph.D. in accelerator, highenergy or nuclear physics, and strong proficiency in accelerator hardware and/or software. Will work within the Accelerator Physics Group of the RHIC Project to cost reports, and labor cost distribution. Excellent communication and computer skills are required; familiarity with Lab accounting procedures and administrative systems is desirable. Budget Office.