

## U.S. Patent No. 6,179,897

### Better Built Metal Oxides

BNL Senior Chemist John Larese and retired BNL Chemist Walter Kunnmann were recently issued U.S. Patent No. 6,179,897 for a novel way of making metal oxides.

This class of compounds, which includes magnesium oxide — a key ingredient of numerous products, including the stomach-settling formula Milk of Magnesia™ — and zinc oxide — famous for its place on lifeguards' noses — is commonly used in catalysts and cosmetics. It is important to the growing field of nanotechnology.

The Kunnmann/Larese method for making metal oxides avoids some of the problems of traditional methods, "and allows greater control of the particle size and chemical composition of the product," says Larese.

One key difference: while the traditional method requires processing a molten metal at high temperature, the newly patented method entirely avoids the dangers and difficulties of working with the liquid phase.

*"I can't even imagine all the potential uses of this technique."*

Instead of transforming the solid metal to its liquid state and then to the vapor phase, "We combine the metal with graphite in a vessel and heat it to form an intermediate compound, a metal carbide," says Larese. Then the scientists apply more heat to decompose

the metal carbide. The metal gets released as a vapor, which can then be oxidized to form a pure metal oxide powder.

Because the heat can be added in a controlled fashion, the scientists can vary the va-

*"The excitement is going to be in discovering the things that other people haven't thought of."*

por density. The more dense the vapor, the larger the particles they make. As a result, they can produce metal oxide powders with uniform particle sizes anywhere from 5 to 500 nanometers.

The method also allows the scientists to add other elements such as chromium, iron, copper, and nickel to make more complex particles. These additives, or "dopants," can alter the electrical, optical, and magnetic properties of the final product, so that it can be tailored for a variety of uses.

"For example, adding chromium as a dopant to magnesium oxide has resulted in a material that breaks apart certain nitrogen oxides one hundred times better than commercially available magnesium oxide," Larese says.

This reaction is important in smokestack scrubbers that aim to prevent nitrogen oxide pollutants from getting into the atmosphere.

In addition, learning how to deposit metal clusters and

(continued on page 2)



### Proposed Treatment Blocks Craving Triggered by External Cues

*Treatment may help diminish addicts' tendency to relapse*

Addicts often crave drugs when they visit places where they have routinely used drugs. New research at BNL suggests that the reason could be all in their heads. The BNL scientists and their collaborators found that, in animals, such environmental cues trigger measurable increases in brain dopamine, a chemical closely linked with addiction.

The good news, according to the same study, is that a therapeutic agent the scientists have been studying as a potential treatment for addiction completely blocks this environmentally triggered increase in dopamine.

These findings extend the potential value of this therapeutic agent, known as GVG (or gamma-vinyl GABA), which the Brookhaven team has previously shown to be effective at blocking the neurochemical and behavioral effects of addictive drugs such as cocaine, nicotine, methamphetamine, and alcohol.

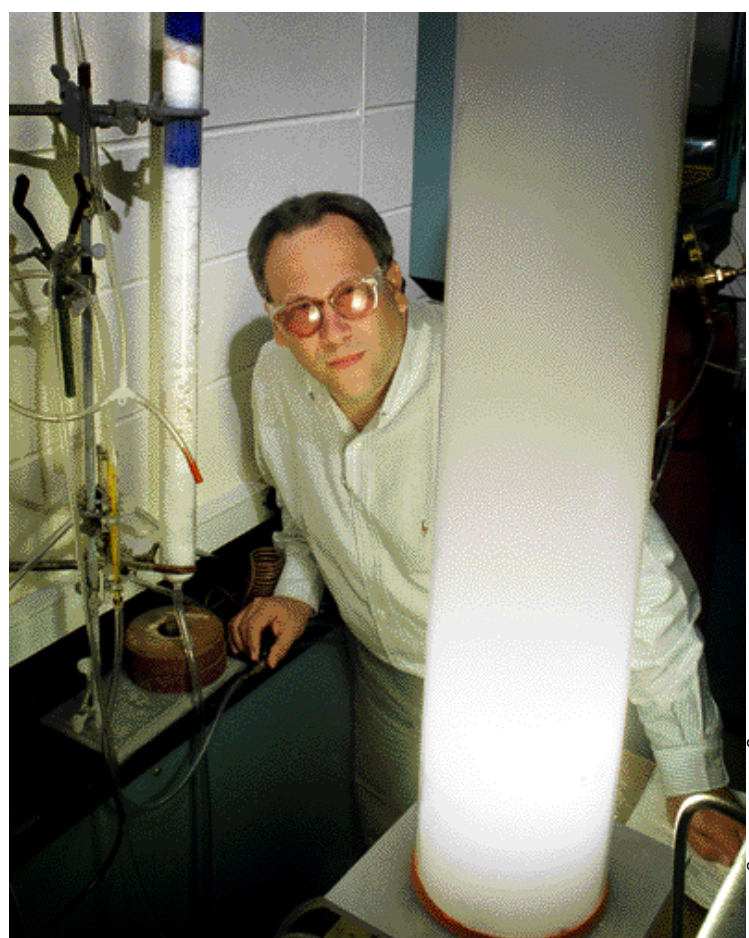
"This is the first therapeutic agent that successfully combats three major components of drug addiction — the neurochemical and behavioral effects of the drug itself and the neurochemical changes triggered by drug-related environmental cues," says Stephen Dewey, Chemistry Department, who leads the GVG research team, which for this study also included: Madina Gerasimov, Wynne Schiffer, and Douglas Marsteller, all of Chemistry; Eliot Gardner of the Intramural Research Program at the National Institute on Drug Abuse; Ian Lennon and Stephen Taylor of Chirotech Technology Limited, UK; Charles Ashby Jr., St. John's University; and Jonathan Brodie, New York University School of Medicine.

The research was published in the March 7, 2001 issue of the *European Journal of Pharmacology*.

This study was funded by DOE, with the National Institute of Mental Health, part of the National Institutes of Health.

For a more detailed account of the research, go to: <http://www.bnl.gov/bnlweb/pubaf/pr/bnlpr030701.htm>.

— Karen McNulty Walsh



John Larese is seen with the apparatus for the patented Kauffmann/Larese method of building metal oxides. At left is a gas-drying column, in front is the vessel in which the oxide is being produced.

### Meinhold Awarded Sklodowska-Curie Medal For Radiation Protection Contributions

The Society in Tribute to Maria Sklodowska Curie has awarded Charles Meinhold the Maria Sklodowska-Curie Medal for his outstanding contribution to the development of international standards of radiation protection.

Retired in October 2000 after almost 44 years at BNL, Meinhold is president of the National Council on Radiation Protection and Measurements (NCRP) and a guest scientist in BNL's Nonproliferation & National Security Department.

Meinhold will receive the medal in Warsaw, Poland, on April 20, at a ceremony to commemorate the centennial of Sklodowska-Curie's discovery (with Pierre Curie and Gustav Bémont) of the radioactive elements radium and (with Pierre Curie) polonium. Sklodowska-Curie was the first person to receive two Nobel Prizes, in 1903 and 1911.

Founded in 1994, the society is a voluntary, nonprofit organization of over 220 members who promote information about Sklodowska-Curie's life and scientific accomplishments, with particular emphasis on her Polish heritage and her contribution to radiation oncology.

"I am honored by having been chosen for this award," said Meinhold. "I have been in the field of radiation protection for almost 45 years. It's an exciting field, and I am glad to have been able to make contributions to it in the public interest."

At the Warsaw ceremony, Meinhold will deliver a lec-

ture titled "Radiation Protection: Yesterday, Today and Tomorrow." According to Meinhold, basic regulations for dose limitation had not changed from the early 1920s to the early 1970s, but, in the last quarter century, new data

have brought about stricter regulations.

Meinhold received his B.S. in physics from Providence College in 1956 and was an Atomic Energy Commission Fellow in radiological physics at the University of Rochester, 1956 to

1957. Joining BNL's Health Physics Division as a junior health physicist in 1957, he rose to head the Safety & (continued on page 2)



Charles Meinhold

Roger Stoulenburgh 3-517-341



Calendar  
of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (\*) have an accompanying notice in this week's Bulletin.

— EACH WEEK —

**Tuesdays: Welcome Coffee**  
10-11:30 a.m. Rec. Bldg. Newcomers meet friends. Mimi Luccio, 821-1435.  
— Hospitality event

**Wednesdays: On-Site Play Group**  
9:30-11:30 a.m. Rec. Bldg. Parents meet while children play. Free, drop in any time. Monique de la Beij, 399-7656.  
— Hospitality event.

**Wednesdays: beg.-adv. Dance Lessons**  
6-9 p.m., Brookhaven Ctr. North Ballroom, Marsha Belford, Ext. 5053.

**Wednesdays: Yoga Practice Sessions**  
12:10-12:50 p.m., Rec. Bldg., free. Ila Campbell, Ext. 2206.

**Tues. & Thurs: Aerobic Dance**  
5:15 p.m., Rec. Bldg. \$4 per class or \$35 for any ten classes. Pat Flood, Ext. 7886; or Susan Monteleone, Ext. 7235.

**Mon., Tues., & Thurs: Kickboxing**  
noon-1 p.m., Mon. & Thurs. and 5:15-6:15 p.m., Tues. & Thurs. Mary Wood, Ext. 5923, or wood2@bnl.gov.

— NEXT WEEK —

Tuesday, 4/10

**Sprint PCS Demo**  
10 a.m.-2 p.m., Berkner Hall Cell phone selections, free gifts. Scott Dittmar, 431-8295.

**\*Healthline Lecture**  
noon-1 p.m., Berkner Hall Cecil Vaseky - "Preventing and Living With Osteoporosis." Mary Wood, Ext. 5923.

Wednesday, 4/11

**Divorced & Separated Support Club**  
noon, Berkner Hall, Room A. Two-weekly meeting. Mary Campbell, Ext. 4776, maryc@bnl.gov.

**Rifle & Pistol Club Meeting**  
Noon, Bldg. 535A Conference Room. Jim Durnan, Ext. 5993; Sue Foster, Ext. 5529; club hotline, Ext. 2658; club Web page, www.berahome.bnl.gov/clubs/rpc/rpc.html.

Thursday, 4/12

**BERA Bridge Club**  
7 p.m., Berkner Hall cafeteria Morris Strongson, Ext. 4192, mms@bnl.gov.

Friday, 4/13

**GLOBE Meeting**  
For information about the gay and lesbian club's monthly meeting and meeting location: Mike Loftus, Ext. 2960, or Chris Gardner, Ext. 4537.

Science Inspires Art

RHIC STARburst Transformed Into Chinese Embroidery

In a fusion of science and art, the now familiar RHIC STARburst has been spectacularly recreated in fine silk and shimmering colors by the Suzhou Institute of Embroidery Research, Suzhou, China.

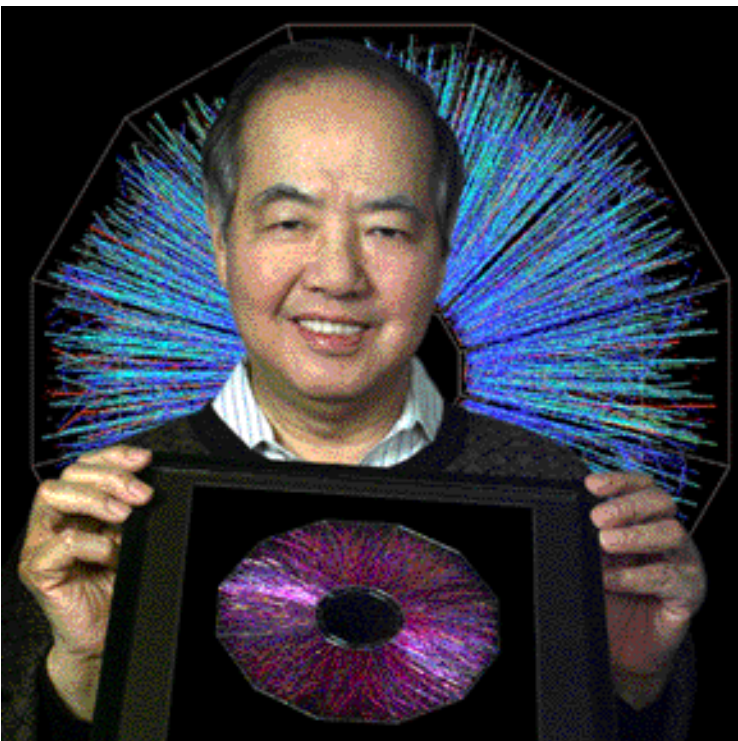
This unique creation, one meter square, will be one of approximately 600 art works inspired by science from all China and worldwide in the "Art and Science" exhibition which will open in Beijing, China, on May 31.

The RHIC STARburst shows the tracks of thousands of particles electronically recorded by the STAR detector during one of the first collisions of the two beams of heavy ions in the Lab's Relativistic Heavy Ion Collider (RHIC).

How did a RHIC event turn into Chinese embroidery?

It's a small world. The Art and Science exhibition was the idea of Nobel Prize winning physicist T.D. Lee, University Professor at Columbia University and Director of the RIKEN BNL Research Center here at the Lab.

Last November, while in Shanghai at a conference on education, Lee took with him a RHIC STARburst photo. About 50 miles west of Shanghai lies Lee's 2,500-year-old hometown of Suzhou, a cultural center famed throughout the history of China — and



Roger Stoulenburgh

T.D. Lee holds the Suzhou Institute of Embroidery Research's first silk-embroidered model of the RHIC STARburst, which is also seen in the background poster. For color, see [www.pubaf.bnl.gov/bulletin.html](http://www.pubaf.bnl.gov/bulletin.html).

home of the Suzhou Institute of Embroidery Research.

Lee invited the Institute Director, Zhang Mei-Fong, to see the RHIC photo as a possible inspiration for a new embroidery.

"When I returned to BNL, I sent her a copy of the RHIC poster (shown behind Lee in the photo). By the time I revisited China in early January, she had had a model made [see photo]. Since the work was so suitable,

she then proceeded to order the work for the one-meter-square version."

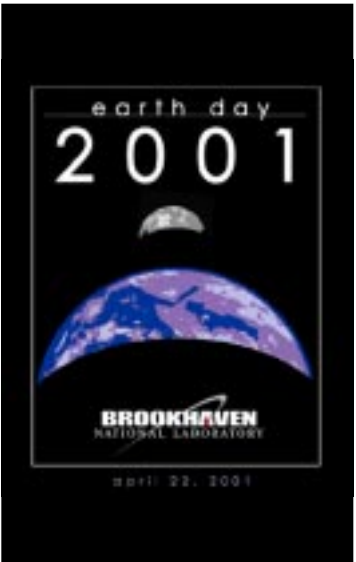
Lee explained that the large embroidery will probably be shown with light playing on the surface to reflect off the luster of the silk. Like the model, the large version can be seen from both sides, enhancing the effect on the viewer of a burst of energy, exploding outwards in countless threads of excitement.

Patent (cont'd.)

molecules of various sizes on the surface of tiny powder particles may have applications in many other areas of materials science where scientists are trying to manipulate the physical properties of materials by creating or controlling nano-scale structures.

"I can't even imagine all the potential uses of this technique," Larese says. "Our goal right now is to explore the range of materials we can produce by this method. The excitement is going to be in discovering the things that other people haven't thought of."

This research was funded by DOE. — Karen McNulty Walsh



See the Calendar of Laboratory Events for Earth Day activities taking place this month.

Meinhold Awarded Curie Medal (cont'd.)

Division, 1972 to 1988. In 1988, as a senior physicist, Meinhold moved to the Department of Advanced Technology (DAT) to head the Radiological Sciences Division.

In 1991, Meinhold became President of the NRCP and was named DAT Deputy Division Head. He began dividing his time between BNL and NCRP in Bethesda, Maryland. Meinhold is also a longtime member of the International Commission on Radiological Protection (ICRP), and he had been the ICRP's vice chair from 1993 to 1997. He is a fellow of the Health Physics Society and has also served as President of the

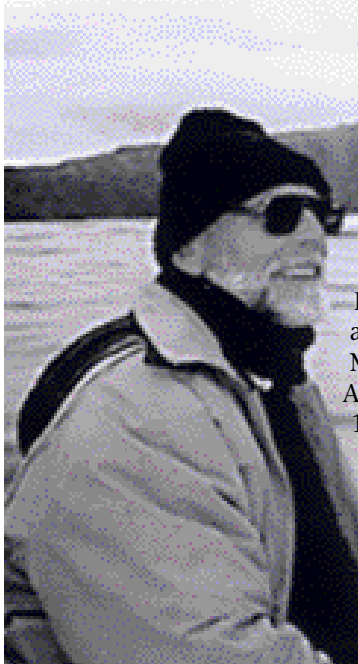
Cosponsoring the exhibition with Lee is Wu Guan-Zong, one of China's best known painters, and part of the funding will be supplied by the United Nations Educational, Scientific, & Cultural Organization. In only five months, the extraordinary feat of setting up the show, including selecting most of the pieces and organizing their display, is being accomplished by the Qing Hua Academy of Art in Beijing.

Among other items that may be exhibited will be several photographs of BNL research that could be viewed as artistic science and scientifically inspired art. These will be featured in future Bulletins.

Other U.S. institutions have been asked to contribute. Stanford Linear Accelerator (SLAC) is sending the SLAC "tree" — a beautiful, tree-like form that appeared inside a lucite slab that had been bombarded by a high energy electron beam at SLAC.

Physicist Lee is also artist Lee — the front page of the Bulletin, December 17, 1999, showed his interpretation of the Big Bang as the boundless freedom of a great bird, its wings clouding into the sky. "Through this exhibition, we are hoping to show the correlations between science and art," said Lee. — Liz Seubert

Forsyth Awarded Blue Water Medal



Retiree Eric Forsyth, formerly Accelerator Development Department Chair, has been awarded the 2000 Blue Water Medal by the Cruising Club of America. Presented annually since 1923, the medal recognizes "a most meritorious example of seamanship, the recipient to be selected among amateurs of all nations." Recent recipients include Eric and Susan Hiscock, Sir Francis Chichester, Eric Tabarly, and Hal Roth.

Forsyth won the medal for a remarkable voyage in his 42' sloop to Antarctica from his home port at Patchogue, Long Island, via the Panama Canal; Galapagos Islands; Easter Island, Puerto Montt, Chile; and after Port Lockroy on the Antarctic Peninsula to South Georgia Island; Tristan da Cunha; South Africa; and returning home by way of St. Helena, Barbados, St. Martin, and Bermuda. This was a 21,784-mile voyage, completed in ten months with a crew that varied between one and two young men.

Furthermore, Forsyth wrote copious descriptions of his entire cruise, including a special guide to the Patagonian pas-

sages, . . . mileage of each segment, fuel consumption, and all the features of the land and nature encountered, the award description said.

Many BNLers will remember attending the talk Forsyth gave at the Lab last year about his voyage (see Bulletin of March 24, 2000).

Forsyth's most recent cruise, starting in June, 2000, took him from New York to Iceland, the High Arctic, Spitzbergen, Norway, Scotland, Iceland, Portugal, and the Caribbean. Chris Focken-berg of Chemistry was a crew member on the leg from New York to Iceland. For more information, see [www.yacht.fiona.com](http://www.yacht.fiona.com).



# Spotlight Awards

For extending short-term, extraordinary efforts in response to the needs of their departments or divisions, the following 175 BNL employees were honored with after-tax \$500 Spotlight Awards during fiscal year 2000:

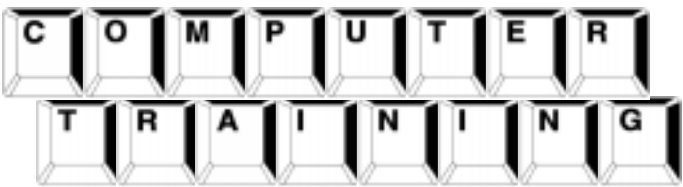
- COLLIDER-ACCELERATOR DEPARTMENT**  
Richard Anderson (received two), John Butler, Martin Candito, Jr., Nils Danielson, Roger Davis, Charles DeLaParra, David Derryberry, Harold Dorr (received two), Sheikh Farooq, Joseph Greco, Patricia Hein, Gary Herbst, Terence Higgins, Matthew Kessler (received two), Nikolaos Laloudakis, Ann Lamberti, Jonathan Laster, Mark Lavery (received two), Penny LoPresti, Daniel Martin, Aljosa Marusic, William McKeon, Mark McNeil, Paul Mickaliger, John Moore, Lisa Morrello, Seth Nemesure, Patricia O'Grady, Roland Overton, Dennis Remski, Kenneth Riker, Jr., Kenneth Rogers, Christopher Salat, Scott Seberg (received two), Freddy Severino, Richard Spitz, John Stehle, Joseph Sullivan, Louis Tenreiro, Charles Trabocchi, Edward Ulrich, Victor Usack, Stephen Valentino, Emil Varrichio, Alan Weston (received two), Charles Whalen, Christopher White, Thomas Wozniak, and Bernard Yatauro.
- SUPERCONDUCTING MAGNET DIVISION**  
Steven Bubka, Frank Cetero, Sebastian Dimaiuta, Joseph Famiglietti, Richard Felter, Patrick Harris, Richard Jackimowicz, Toby Levine, Michael Morrow, Andrew Sauerwald, and William Themann.
- INFORMATION TECHNOLOGY DIVISION**  
Maria Gatz, Beth Gilman, Julie Pergan, Marcia Swiss, and Christopher Weaver.
- BUSINESS SYSTEMS DIVISION**  
James Marron, Matthew McCall, and Debra Vidale.
- BIOLOGY DEPARTMENT**  
Paula Bennett and Kathryn Folkers
- BUDGET OFFICE**  
Donna Jean Chiossone and Shantilata Subudhi.
- CHEMISTRY DEPARTMENT**  
John Barry, Richard Becker, David Comstock, Stephen Howell, Conrad Koehler, Jr., and Lee Walcott.
- ALD, ENERGY, ENVIRONMENT & NATIONAL SECURITY**  
Patricia Carr, Barbara Carreras, Eileen Fredrickson, Bridget Geib, Louis Gerlach, and Nancy Lofaro.
- ALD, ENVIRONMENTAL MANAGEMENT**  
Gina Bernard.
- ALD, ESH&Q**  
Sherry Johnson and Karen Ratel.
- ALD, FINANCE & ADMINISTRATION**  
Sylvia Mouzakes.
- ALD, LIFE SCIENCES**  
Barbara Coughlin-Byrne.
- ENVIRONMENTAL SCIENCES DEPARTMENT**  
Richard Wilke.
- EMERGENCY SERVICES DIVISION**  
Sheila Bubka.
- PLANT ENGINEERING DIVISION**  
Peter Abrams, Oscar Blevins, Kenneth Kentoffio, Denise Miesell-Bingham, Donna Pfeiffer, Dennis Robertson, and Stephen Waski.
- ENVIRONMENTAL RESTORATION DIVISION**  
Judy Badal, Maria Beckman, Noel Blackburn, Jennifer Clodius, Thomas Doyle, Mary Smith-Phraner, and Frank Tramontano.
- ENVIRONMENTAL SERVICES DIVISION**  
Marcia Allocco.
- FISCAL SERVICES DIVISION**  
Doreen Hallinan, Marie-Luise Hobson, Linda Jones, Barbara Juliano, Mildred Laster, Maureen McDonnell, Donna Rubino, Dawn Schick, and Linda Sinatra.
- INFORMATION SERVICES DIVISION**  
Kathryn Lancaster.
- INSTRUMENTATION DIVISION**  
Donna Grabowski.
- NATIONAL SYNCHROTRON LIGHT SOURCE DEPARTMENT**  
Robert Chmiel, Linda Feierabend, Gary Frisbie, Michael Fulkerson, James Garri-

- son, Robert Harrington, Kenneth Koebel, Laura Miller, Eileen Pinkston, Mihai Radulescu, and Thomas Seda.
- MEDICAL DEPARTMENT**  
Noelwah Netusil and Joan Terry.
- ENERGY SCIENCES AND TECHNOLOGY DEPARTMENT**  
Yusuf Celebi.
- OCCUPATIONAL MEDICINE CLINIC**  
Janet Sikora.
- COMMUNITY INVOLVEMENT, GOV'T & PUBLIC AFFAIRS**  
Eloise Gmur and Dolores O'Connor.
- HUMAN RESOURCES DIVISION**  
Marilyn Pandorf.
- PHYSICS DEPARTMENT**  
Marjorie Chaloupka, Jason Farrell, August Hoffmann, Robert Liegel, Elizabeth Mogavero, Richard Rothe, Kenneth Sexton, Jacqueline Timko, and Steven Warhol.
- PROCUREMENT & PROPERTY MANAGEMENT DIVISION**  
Roseann Callister, Nancy Harris, and Rosalie Piccione.
- REACTOR DIVISION**  
Steven Bugros, Thomas Daniels, Deborah Doyle, John Fish, Stephen Jao, Daniel Jenkins, Raymond Lo Presti, Michael Pankowski, Richard Savage, Charles Schuster, Richard Scott, Carol Bell, Donald Farnam, Laura Jones, Dorian Mergen, Lee Michel, Joyce Moore-Harding, and Roger Thompson.
- CENTRAL SHOPS DIVISION**  
Dennis Malloy and Michael Palumbo.
- SAFEGUARDS & SECURITY DIVISION**  
Vicki Feldman, Nancy Griffin, and Melinda Markstaller.
- INTELLECTUAL PROPERTY & INDUSTRIAL PARTNERSHIPS**  
Michael Furey and Darcy Mallon.
- WASTE MGMT. DIVISION**  
Francine Donnelly, John Moroney, and Gary Olsen.

## Brookhaven Lecture

On Wednesday, April 18, at 4 p.m. in Berkner Hall, Mark Baker, Chemistry Department, will give the 363rd Brookhaven Lecture. He will talk about RHIC physics. All are invited.

Dosimetry badges will be exchanged today, Friday, April 6. Remember to place your badge in its assigned rack space before leaving work today.



The following PC training classes have been scheduled for April and May:

- April 24 ..... Excel – beginner
- April 25 ..... PowerPoint – beginner
- April 30 ..... FrontPage – beginner
- May 3 ..... Word – beginner
- May 10 & 11 (two-day class) ..... Access – beginner
- May 16 ..... Word – intermediate
- May 17 ..... PowerPoint – intermediate
- May 23 ..... Excel – intermediate
- May 24 & 25 (two-day class) Project – intermediate
- May 30 & 31 (two-day class) ..... Word – advanced

To register for classes, submit a training request form, and an ILR, or Web requisition for the appropriate amount, to Pam Mansfield, Bldg. 515. When the form is received, your name will be placed on a waiting list. All classes are scheduled based on the number of requests received. For more information, registration forms, and class schedules, visit the ITD training page at <http://training.bnl.gov/>.

## BNL Walking Club

The Lab community is invited to join the BNL Walking Club to participate in an upcoming Spring walk and other events. Health Promotion Specialist Mary Wood, who runs the club, can provide you with routes to follow at BNL, or you can use your own routes at the Lab or at home. All walking counts as healthful, she says, except for those steps toward the refrigerator!

Members will periodically receive exercise tips and other helpful health information as well as news of scheduled talks. Wood is now updating the club distribution list. If you are interested, contact her at Ext. 5923 or [wood2@bnl.gov](mailto:wood2@bnl.gov).

## Spirit Dinner Cruise, 7/3

Celebrate Independence Day by cruising around Manhattan on Tuesday, July 3. See Ellis Island, the Statue of Liberty, and other Manhattan landmarks. The BERA-sponsored bus will leave the Brookhaven Center at 4 p.m. Tickets cost \$75 each and include bus transportation, cruise, buffet dinner, and entertainment. Buy tickets from: Andrea Dehler, Ext. 3347; Rosalie Piccione, Ext. 3160; or M. Kay Dellimore, Ext. 2873.

## Noon Recital, 4/11

On Wednesday, April 11, at noon in Berkner Hall, violinist Vesco Gellev, clarinetist Vadim Lando, and pianist Pippa Borisy will perform works by Bartok, Stravinsky, and Schoenfield. The concert is free and open to all.

## Investment Counseling

A Fidelity Investment Representative will be at the Lab on Monday, April 30, to hold individual sessions with employees interested in learning more about their retirement-savings and investment options. To schedule one of the 45-minute appointments, call (800) 642-7131.

## Arrivals & Departures

### Arrivals

Jamie V. Gallagher ..... Fiscal Svcs.

Markus J. Hucker ..... Physics

James P. Kirby ..... Chemistry

Robert J. Metz ..... Env. Services

Vasili Perebeinos ..... Physics

Vivian Stojanoff ..... NSLS

Norihiko Takeda ..... Chemistry

Michael J. Schueller ..... Chemistry

Xiao-Ying Yu ..... Applied Science

### Departures

George Capetan ..... C-A

Louis Evers Jr. .... Reactor

Robert MacGregor ..... Chemistry

Andrzej Olszewski ..... Chemistry

Jaimie O'Malley ..... Plant Eng.

Margaret Seuling ..... Fiscal Svcs.

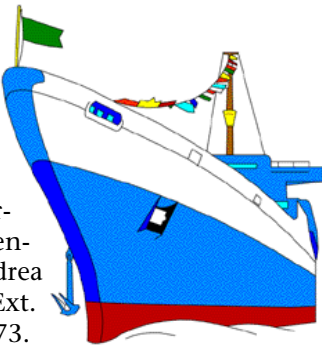
Robert Wheeler ..... Physics

## Healthline Lecture Series Osteoporosis, 4/10 Flexibility, 4/20

Sponsored by the Health Promotion Program, two noontime Healthline Lecture events are coming up: On Tuesday, April 10, in Berkner Hall, Cecil Vanseky, a certified nurse practitioner, will present Part I: "Preventing and Living with Osteoporosis;" on Friday, April 20, in the Brookhaven Center North Room, Susan Williamson, MA, ATC, will present Part II: "Maintaining Flexibility Workshop."

In osteoporosis, the bones gradually deteriorate, becoming vulnerable to fracture. Between 7 and 8 million Americans have the disease, while 17 million more are at risk, according to the National Osteoporosis Foundation. Venseky will cover the cause of osteoporosis and how to diagnose, treat, and — most important — prevent it.


These programs are free and open to the public, as well as to the Lab community. Both events will be audiotaped and made available on cassettes in the Research Library. For more information, contact Mary Wood, Ext. 5923.



## Calendar

(continued)

### Sunday, 4/15

**Easter Egg Hunt** 

10:30 a.m., Rec. Bldg. Participants should bring 20 plastic eggs per child, each filled with a treat — no hard candy, please — and a snack to share.

Monique de la Beij, 399-7656.

### —WEEK OF 4/16—

#### All Week

#### Earth Day Activities

Berkner Hall Lobby, BNL Recycling Presentation. For complete Earth Day information, see [www.bnl.gov/eday.htm](http://www.bnl.gov/eday.htm)

### Wednesday, 4/18

#### Brookhaven Lecture

4 p.m., Berkner Hall. Mark Baker will talk about RHIC physics.

#### Earth Day Activities

Wed.-Sun., Berkner Hall Lobby, Site Environmental Report poster entries.

### Thursday, 4/19

#### Earth Day Activities

10 a.m.-2 p.m. Berkner Hall parking lot, Alternative Fuel Vehicle Displays.

noon-2 p.m., Berkner Hall Lobby, Office Swap.

3:30 p.m., Berkner Hall, Environmental Awards and Site Environmental Report art-contest winners.

4 p.m., Berkner Hall, Earth Day speaker Richard Wolfson presents "Energy & Environment: Sustainable Future or Global Demise?"

For complete Earth Day information, see [www.bnl.gov/eday.htm](http://www.bnl.gov/eday.htm)

### Friday, 4/20

#### Healthline Lecture & Workshop

noon-1 p.m., Berkner Hall Susan Williamson will present "Maintaining Flexibility Workshop." Mary Wood, Ext. 5923.

### Saturday, 4/21

#### \*Atlantic City Bus Trip

\$25 per person. Bus to Resorts Hotel/Casino. 8 a.m.-10:30 p.m. Tickets at the BERA Sales Office. Andrea Dehler, Ext. 3347.

### Sunday, 4/22

#### Earth Day Activities

10 a.m., 4-mile race

11 a.m., 1/2-mile Fun Run Peter Pohlot, Ext. 5660.

8 a.m.-noon, Berkner Hall Lobby, Environmental Displays Demonstrations by BNL researchers:

—Absorbed Natural Gas-Powered Vehicles, J. Wegrzyn

—Home Heating Firing Bio-fuels, T. Butcher

For complete Earth Day information, see [www.bnl.gov/eday.htm](http://www.bnl.gov/eday.htm)

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Please enter the information for each event in the order listed above (date, event name, description, and cost) and send it to [bulletin@bnl.gov](mailto:bulletin@bnl.gov). Write "Bulletin Calendar" in the subject line.

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 list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at [www.bnl.gov/JOBS/jobs.html](http://www.bnl.gov/JOBS/jobs.html).

**LAB RECRUITMENT** - Opportunities for Laboratory employees.

DD8988. SR. ADMINISTRATIVE SECRETARY (A-3) - Will handle all administrative details for the RHIC Computing Facility. Major responsibilities include domestic and foreign travel, extensive credit card usage, processing of web requisitions and ILRs, organizing reviews and workshops. Must have demonstrated skills in expediting the procurement process, i.e., direct interaction with vendors as necessary. Comprehensive knowledge and understanding of the recruitment process and proven skills in handling items of a sensitive nature with discretion is required as well as being detail oriented and experienced in working independently within established procedures. Requires an excellent working knowledge of BNL policies and procedures, and proficiency in the use of Excel and Microsoft Word. Physics Department.

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

MK9144. MEDICAL FELLOW - Requires an MD degree with clinical experience to participate in NIH and DOE sponsored research focusing on the application of PET imaging studies. Will contribute to the human subject studies by conduction subject screening, subject evaluation and examinations, assisting with research procedures, data analyses and manuscript preparations. Under the direction of G.-J. Wang, Medical Department.

MK2242. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in microbiology or a related field with a background in biochemical physiology and ecology, experience in anaerobic microbial techniques, laboratory and field investigations of microbial transformation of metal contaminants. In addition, candidates should have experience in the use of analytical and chemical equilibrium approaches for speciating metals complexed with organics. Research involves mechanistic and biotransformation studies on transition metal-organic complexes in anaerobic sulfate-reducing environments, and is supported by the Office of Environmental and Biological Research, NABIR Program. Under the direction of A. Vairavamurthy, Environmental Sciences Department.

NS7935. ENVIRONMENTAL SCIENCE ASSOCIATE III (P-3) - Requires a BS in science/engineering, excellent oral and written communication skills, a general understanding of environmental science, knowledge of pc hardware/programs, the ability to work independently, and knowledge of and experience with mechanical/electrical systems. The ability to perform routine maintenance, troubleshoot, and formulate solutions to minimize experiment downtime is essential. Must be able to climb towers to heights of 100 feet and be willing to accept a flexible work schedule with protracted hours (including weekends). Will interact with scientists, tradespeople, and other professionals in the operation and maintenance of the Forest Atmosphere Carbon Transfer and Storage facility (FACTS-1) located in the Duke University Research Forest in Chapel Hill, NC. Environmental Sciences Department.

Atlantic City, 4/21

Join the BERA bus trip to Resorts Hotel/Casino on the Atlantic City Boardwalk, on Saturday, April 21. Depart from the Brookhaven Center promptly at 8 a.m. and return at 10:30 p.m. Tickets, on sale at \$25 at the BERA Sales Office, include some coin return, and movies, games, and free doughnuts on the bus.



Pool/Gym Update

The Swimming Pool/Gym (Men's Locker Room) Complex will not re-open until June 1, as more construction was needed than originally planned.