

New Method Expands Tool Kit To Monitor Body Chemistry, Disease

Roger Stoutenburgh D1446608



Jacob Hooker

Scientists at BNL have devised a simple, fast method for adding a radioactive “tag” to formaldehyde, a common organic chemical. Using this labeled formaldehyde, scientists can now synthesize a whole new class of radiotracers, compounds that can be tracked by positron emission tomography (PET) scanners to monitor the movement and interactions of a wide range of chemicals in the human body.

A study describing the method was published online on July 4, 2008, by *Angewandte Chemie International Edition*. The research was funded by the Office of Biological & Environmental Research within DOE’s Office of Science, the National Institute of Biomedical Imaging & BioEngineering of the National Institutes of Health, a Goldhaber Fellowship at BNL, and by the German Academic Exchange Service.

“PET is an extremely valuable tool for understanding human physiology,” said chemist Jacob Hooker of the Medical Department, who led

the work. The research team includes Medica’s Joanna Fowler, and Matthias Schonberger and Hanno Schieferstein, both undergraduates at the University of Mainz, Germany, who participated in an exchange program in nuclear chemistry and research.

PET studies and radiotracers developed at BNL and elsewhere have greatly advanced scientists’ understanding of diseases such as cancer and the neurochemistry of drug addiction.

“But many if not most molecules people are interested in studying with PET cannot be radiolabeled right now,” Hooker said. “So there is a huge need for basic science to develop new strategies for making radiotracers. Our new method is part of that effort. It expands our tool kit of reagents and increases the number and types of compounds we can use to peer into the human body.”

Since formaldehyde is involved in many chemical reactions that lead to the synthesis of organic, carbon-chain

molecules, it has been a natural target for labeling because it can then be used to make other labeled organic compounds that can be administered to humans as radiotracers.

Several groups have devised ways to label formaldehyde using other methods, but they are not routinely used, said Hooker. “Our goal in designing a new route to carbon-11-labeled formaldehyde was to make it simple, efficient, and very easy to repeat.”

Quick reactions

Testing a variety of approaches, the BNL team devised a method using commercially available, inexpensive starting ingredients to produce carbon-11-labeled formaldehyde under mild conditions. The reactions require no special equipment and produce high yields after only a few minutes. This leaves sufficient time to incorporate the short-lived carbon-11 into useful radiotracers.

Some tracers Hooker envisions include new compounds to bind with types of brain-cell receptors that were previously “invisible” to PET. The team at BNL is also investigating ways to use carbon-11 formaldehyde to produce radiotracers for monitoring drugs, proteins, and enzymes that affect gene expression in cells.

— Karen McNulty Walsh
See www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=805. Also, a feature story on Hooker is on page 2.



Roger Stoutenburgh D2770708

NRC’s Peter Lyons, Brian Sheron Review Programs, Visit Facilities at BNL

Commissioner Peter B. Lyons of the U.S. Nuclear Regulatory Commission (NRC) visited BNL on July 28, as part of a regular program to visit DOE research laboratories. Brookhaven received \$11 million in funding from the NRC this fiscal year for projects relating to licensing of nuclear reactors for research and power plants, and analysis of their safety and performance.

Lyons was particularly interested in discussing work in digital instrumentation and controls and its interface with human factors, fire protections at nuclear plants, and seismic response in the event of earthquakes. The NRC is also interested in the potential for cutting-edge research in many fields and Lyons and his group also visited the STAR detector at the Relativistic Heavy Ion Collider, the Positron Emission Tomography facility and the Center for Functional Nanomaterials.

— Kay Cordtz

Pictured are: (back, from left) William Horak, Energy Sciences & Technology Department (EST) Chair, Michael Holland, DOE’s Brookhaven Site Office Manager, and David Diamond, EST; (front, from left) Doon Gibbs, Deputy BNL Director for Science & Technology, NRC Commissioner Peter Lyons, Brian Sheron, Director of the NRC’s Office of Nuclear Regulatory Research, Robert Bari, EST, and Creighton Wirick, Interim Associate Lab Director for Energy, Environment & National Security.

NSLS Hosts 2nd Annual Historically Black Colleges and Universities Workshop

Expanded in both attendance and duration, the 2nd annual National Synchrotron Light Source (NSLS) Historically Black Colleges and Universities Workshop (HBCU) focused on strengthening existing research ties between BNL and minority-serving schools as well as establishing new relationships. Held from July 23-25, the workshop attracted 17 participants from nine institutions to learn how to transform themselves and their students into successful synchrotron users. Also participating were representatives from the National Science Foundation (NSF) and DOE’s Office of Basic Energy Science’s Experimental Program to Stimulate Competitive Research (EPSCoR).

Participants in the workshop, which was organized by the NSLS and BNL’s Office of Educational Programs (OEP), were welcomed by Laboratory Director Sam Aronson, who stressed the importance of reaching out to potential minority scientists early in their careers.

“If you just start at the level of finished scientists, those who already have their Ph.D.s, the competition is so great that it’s hard to build a diverse work-



Workshop Participants

Joseph Rubino D1160708

force,” he said. “It’s much better to develop the scientists of the next generation when they’re undergraduates, or even earlier. It’s programs like these that are able to do that.”

BNL’s Diversity Office Manager Shirley Kendall told the participants that she has realized that a fair number of HBCU faculty and minority scientists have been exposed to the Lab through the user community, fellowships, internships, or visiting research programs.

“What we need to do is exactly what you’re already doing —

bring the graduate and undergraduate students to BNL,” she said, adding, “We won’t stop trying to make a difference in having you as a part of our community, because, without you, we can’t be certain we have the best talent. If we don’t have a scientific community that’s diverse in every way, we probably are not offering the world the best science.”

During the three-day workshop, the participants — about half of whom had never been to the NSLS — received basic information about synchro-

tron mechanics, specific NSLS beamlines and techniques, and future plans for science at NSLS-II, the Lab’s next-generation light-source project. In addition, NSLS staff members led a session on writing successful beam time proposals, and Sarah Lawrence College physicist Scott Calvin discussed possible avenues for developing a synchrotron curriculum for students.

At the end of the first day, the professors gave 10-minute presentations about their specific areas of interest, ranging from an-

ti-biotic resistance in aquatic environments to the intricate details of advanced x-ray detectors. They were then matched up with BNL scientists with similar research backgrounds, who gave focused tours of the experimental floor, helped identify which beamlines and techniques would best fit their research needs, and assisted in writing beam-time proposals related to their projects. The professors presented their proposals on the last day of the workshop.

“After last year’s workshop, many of the professors commented that there wasn’t enough time to build a long-term research collaboration with our staff,” said NSLS Chair Chi-Chang Kao. “This year, we added an extra day, and built in time for participants to present their research proposals for feedback. The idea is to have them leave here with a near-final proposal in their hands.”

In addition, the group participated in a videoconference with NSF program directors, and a teleconference with representatives from DOE’s EPSCoR. Both discussions touched upon scientific program information, administration, and the
see *HBCU* on page 3

CALENDAR OF LABORATORY EVENTS

- The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.
- Contact names are provided for most events for more information.
- Events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermediate, Advanced classes, various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894

Mondays: BNL Social & Cultural Club
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, alforque@bnl.gov

Mondays & Wednesdays: Pilates
5:15-6:15 p.m. Rec. Hall. Ext. 5090

Mondays & Thursdays: Kickboxing
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Ext. 8481

Mon., Thurs., & Fri.: Tai Chi
Noon-1 p.m., B'haven Cntr N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov

Tuesdays: Hospitality Coffee
10:30 a.m.-noon, Rec. Hall lounge. All welcome. Ext. 5090

Tuesdays: BNL Music Club
Noon, B'haven Center, N. Room. Come hear live music. Joe Vignola, Ext. 3846

Tuesdays: Knitting Class
2 p.m. Rec. Hall. All levels of skill. Ext. 5090 for information.

Tuesdays: Jiu Jitsu
6:30-7:30 p.m. Gym. All ages, 6 yrs. to adult. \$10/class, pay as you go. Tom Baldwin, Bldg. 452, Ext. 4556

Tuesdays: Toastmasters
1st & 3rd Tuesday of month, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. www.bnl.gov/bera/activities/toastmasters/

Tue., Wed. & Thu: Rec Hall Activities
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090

Tue., Thurs. & Fri.: Ving Tsun Kung Fu
Noon-1 p.m., B'haven Center, North Room. Taught by Master William Moy. Scott Bradley, Ext. 5745, bradley@bnl.gov

Tuesday & Thursday: Aerobic Fitness
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, flood@bnl.gov

Tuesday & Thursday: Aqua Aerobics
5:30-6:30 p.m., Pool. Ext. 5090

Wednesdays: On-Site Play Group
10 a.m.-noon. Rec. Hall. Infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238

Wednesdays: Ballroom Dance Class
B'haven Center, N. Ballroom. Instructor: Giny Rae. Starts September 12 and 19. Ext. 3845

Wednesdays: Weight Watchers
Noon-1 p.m. Michael Thorn, Ext. 8612

Wednesdays: Yoga
Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov

Wednesdays: LabVIEW
1:30-3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304

Thursdays: BNL Cycletrons Club
Noon-1 p.m., First Thurs. of month. Berkner, Rm. D. Toni Hoffman, Ext. 5257

Thursdays: Reiki Healing Class
Noon-1 p.m., Call for location. Nicole Bernholz, Ext. 2027

Fridays: Family Swim Night
5-8 p.m. BNL Pool. \$5 per family

Fridays: Family Gym Night
5-8 p.m. Family gym activities. Free

Fridays: BNL Social & Cultural Club
Noon-1 p.m., B'haven Center, S. Room, free beginners dance lessons. 7-11:30 p.m. N. Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, alforque@bnl.gov

CIGNA Representative

A CIGNA Healthcare representative is available as needed in Human Resources, Bldg. 400, or by phone to assist with claims issues you have been unable to resolve yourself through CIGNA's Customer Service number (1-800-CIGNA24). Mary Beth Kivlen will be available by appointment only. You will need to provide all pertinent documentation. To schedule, call the Benefits Office, Ext. 5126.

Jacob Hooker and the Chemistry of Competition

After Jacob Hooker received his Ph.D. in organic chemistry from the University of California at Berkeley, he had two more goals: to find his perfect job, and to compete in an Ironman competition. Hooker, who originally hails from North Carolina, had a keen interest in fundamental chemistry and thought he could be useful to the staff in the Center for Translational Neuroimaging (CTN) at the Lab. Lab scientist Joanna Fowler agreed, and last year she asked Hooker to join the CTN team.

During the day, Hooker spends his time developing novel methods to label molecules that can be used for neuroimaging to study root causes of addiction. "To synthesize a molecule and then visualize it in living systems is very seductive," said Hooker. "BNL is one of the few places in the world where this can be done. I'm already finding the work challenging and rewarding."

But, when he isn't working with molecules, Hooker is doing something else

he loves — training for long distance triathlon competitions, also known as the "Ironman." The competitions consist of a 2.4-mile swim, a 112-mile bike ride, and a 26.2-mile run. What's his motivation?

"Besides the self-satisfaction of completing the triathlon, I have a group of friends who also participate and we have a sort of personal competition among ourselves. It's all about getting together, cheering each other on, and having fun," said Hooker.

It's a rigorous training module. Hooker keeps active most of the time, but when he is training for a competition he will spend up to 30 hours per week and trains for up to six months prior to the competition.

Hooker will next compete in Panama City, Florida, this coming November. "Triathlons are a professional sport and it's been great shaking hands with some of the finest athletes in the world, but there's nothing more euphoric than crossing the finish line," he said. — Jane Koropsak



Roger Stoutenburgh 021170208

Meet Leonard Mausner

This Senior Chemist Began Playing the French Horn in 1960 and You Can Still Hear Him Play Today



Roger Stoutenburgh 00990708

All are quiet in anticipation as the conductor raises her baton. With the first of many orchestrated swoops of the wand, Long Island's Sound Symphony springs into a prelude and a wall of sound replaces the silence that had filled the room only seconds before. BNL's Leonard Mausner, a senior chemist who supervises the Brookhaven Linac Isotope Producer (BLIP) and Target Processing Lab, sits in a back row onstage helping to build that wall, a range of sound emanating from his French horn as it has since the early 1960s.

Mausner began playing the French horn nearly 48 years ago. "I started out playing the trumpet," he recalled. "One day, my junior high school band director realized that he had too many trumpet players and not enough horn players. I volunteered to switch and never looked back." Mausner took private lessons throughout junior high school, high school, and college and still practices regularly while playing with the symphony.

As a high school student, Mausner considered working

toward a career in music but decided to focus on science instead. "I graduated from high school in the post-Sputnik era," he said. "It was exciting and prestigious to pursue a career in science." While he went on to earn a B.S. in chemistry at MIT, and Master's degree and Ph.D. in chemistry from Princeton, he continued to play the French horn in concert bands and symphony orchestras. During graduate school, he even joined the U.S. Army Reserves and played the French horn in marches, parades, and performances for soldiers and the public.

The Sound Symphony Orchestra's principal French horn player, Mausner joined the group around the time of its inception 25 years ago. The symphony, which consists of nearly 60 musicians including fellow BNLER and violinist Mona Rowe of CEGPA, rehearses weekly and performs approximately 10 times per year. "I wouldn't practice nearly as much if it was just to entertain myself," Mausner said. "I like the motivation of playing with

a group and I prefer to have an audience. It helps me keep my skills up."

Playing with the symphony clearly has helped Mausner keep up his skills. In addition to weekly rehearsals with the symphony, Mausner practices playing his French horn five days a week. "If the symphony is performing a piece with a horn part that I find easy to play, I only practice about 20 minutes a day," Mausner noted, "If the symphony is working on a program with a difficult or complex horn part, I will practice two to three times as much and ramp up in the weeks before a performance."

At the Lab, Mausner spends most of his time managing BLIP, a facility that produces medical isotopes that are not commercially available but used and sold for research and nuclear medicine. Occasionally, he will spend his lunch hour playing duets with Bob Sweet of the Biology Department, who also plays the French horn. "Bob and I have fun playing together. We play for different groups but we

like to practice together, building it into our regimen," Mausner said.

Mausner and the Sound Symphony are currently preparing for its annual SummerPops free concert series. The series kicked off at the Village Green in Westhampton on last week, on July 24. The symphony will also play at the Riverfront Parking Lot in Riverhead, Shoreham-Wading River High School, Mastic Beach Property Owner's Association Clubhouse, and the Village Green in Cutchogue before the series closes at Stony Brook's Village Green at Stony Brook on August 10. "The symphony is eager to perform our summer series," Mausner said. "The music is fun for us to play and fun for the audience to listen to. I want to invite the BNL community to attend a concert at whichever location is most convenient." For performance dates and times and to learn more about the Sound Symphony, visit the symphony's Web site, www.geocities.com/Vienna/1827/home.html.

— Joe Gettler

Can you spare a can?

Please remember to donate to the BNL Food Drive, your contributions are urgently needed.

BNL Will Host Supplier Showcase To Highlight Small Businesses, 8/8

On Friday, August 8, from 9 a.m. to 1:30 p.m., Brookhaven will host a Small Business Supplier Showcase in the upper lobby of Berkner Hall. The showcase is intended to familiarize Lab employees responsible for purchasing activities with the products and/or services available from small business suppliers.

The showcase takes the place of the usual Bi-Annual Small Business Procurement Fair, and all are encouraged to stop by, get information, and talk with the vendors about their products.

"Our primary goal is to show the BNL/DOE community that the various items they usually buy from large businesses can, in many cases, be bought from some of our proven/reliable small business sources," said Jill Clough-Johnston, BNL's Small Business Liaison Officer. "We also see it as one way to thank our small business suppliers for helping us complete the DOE mission in FY07."

Clough-Johnston expects approximately 25 small business suppliers to participate and set up tables featuring their products and services. Several other small business suppliers will have posters displayed. Local Congressman Tim Bishop (First Congressional District, Suffolk County) is expected to attend the event and address participants.

"All of BNL's small businesses suppliers that submitted a company profile will also be showcased in the 'Fiscal Year 2007 BNL Small Business Suppliers Book,'" said Clough-Johnston. "This book is a buyer's resource that we will make available to all BNL/DOE employees on site."



HBCU from page 1

grants, awards, postdoctoral fellowships, and undergraduate research opportunities available to the professors and their students.

The professors also discussed business related to the HBCU User Consortium, which was created during last year's workshop. Some of the group's short-term goals include: placing at least one user at the NSLS from each school in the Consortium; setting up a mentoring program with NSLS staff; creating a two-course undergraduate sequence to teach synchrotron basics; and reaching out to other minority-serving institutions.

"I'm very grateful for the opportunity that Brookhaven provided because before coming here, I didn't really know what a synchrotron was," said Delaware State University chemistry professor Qiquan (Joshua) Wang. "Now I realize that it's something I can use to increase the value

of my research. I'd love to bring some of my experiments to the NSLS in the future."

Cyril Broderick, an agriculture and natural resources professor at Delaware State University, agreed that the workshop was extremely beneficial.

"Synchrotrons, beamlines, particle accelerators, and details of their significant scientific outputs were mere theoretical concepts and major conceptual gaps in my scientific experience," he said. "The workshop grounded my thinking and made the whole research framework of a synchrotron light source a living, functional, and understandable phenomenon that has great potential to enhance my research. I am now fashioning my research experiments to secure advantages through the use of beamline analyses in producing some stellar results in answering questions to research objectives of several projects that we are pursuing."

— Kendra Snyder

In Memoriam

Henry Henck, who joined the Plant Engineering Division as a janitor on January 6, 1969, died on June 3, 2008, at age 81. Through the Personnel Division, he had been apprenticed as a machinist in 1971 and retired as a tool & instrument maker in the Central Shops Division on May 3, 1989.

George Harris, who joined the Plant Engineering Division as a janitor on January 8, 1962, became a painter in 1966, and a painter A in 1974, died on July 9, 2008. He was 76. He had retired on July 13, 1993.

Robert P. Brown, who joined the Photography & Graphic Arts (P&GA) Division as a technician A on September 22, 1947, died at age 88 on May 19, 2008. After serving as P&GA Manager, 1971-80, he moved to the Director's Office as Information Technology Administrator and retired on September 30, 1981.

Obituary Page on the Web

The Bulletin has a new, online Obituary Page at <http://www.bnl.gov/bnlweb/pubaf/bulletin/obit> to supplement the information given in the In Memoriam notices in the printed paper. All are invited to send in memories of BNL colleagues or family members. Contact Liz Seubert, lseubert@bnl.gov or Ext. 2346.

Informal Workshop on Presentation Skills For Non-Native English Speakers, 8/5, 8/6

On Tuesday and Wednesday, August 5 and 6, from noon to 1:30 p.m. in the lobby of Bldg. 400, BNL employees Beth Lin and Jennifer Lynch will offer an informal opportunity for non-native English speakers to learn presentation skills in a friendly environment during a two-session workshop. Speakers will be able to give short presentations and practice useful techniques for communicating ideas with enthusiasm. Scientific staff are challenged with presenting their work to groups in a different language. This workshop will provide tips for creating talks that appeal to the audience.

Lin, Chemistry Department, has long experience in Toastmasters, the international organization that helps people learn public speaking skills. Lynch, Staff Services, is the English for Speakers of Other Languages Program Coordinator, with long experience in teaching English to non-native English speaking scientists. They will make it fun and educational to practice speaking. Join them!

Softball/Farmer BBQ, 8/15

All are welcome to attend the BERA Softball League and Tirre Farmer Memorial BBQ on Friday, August 15, at 5:30 p.m. at the Gazebo. Tickets for BERA Softball team members will be sold through their team captains at \$5; guest tickets for non-players will be sold at the BERA Store until August 8 at \$10 for adults and children over 12 years old.

The price includes snacks, dinner, dessert & soft drinks. No tickets will be sold "at the door!" Rain date: August 18. For more information, call Ext. 4638.

Join a BERA Trip!

Buy tickets at the BERA Store, Berkner Hall, Bldg. 488, Ext. 3347, weekdays, 9 a.m.-3 p.m. Trips leave from the Brookhaven Center.

- **US Open**, Tues., 9/2, not a Lab holiday. \$58/person for ticket & coach. Leave BNL 8:30 a.m.
- **West Point Army vs. Akron, OH**. Football game, Sat., 9/20. \$65 per person includes luxury coach, game ticket, and hot tailgate catered luncheon. Leave BNL 7 a.m.
- **New York City Dinner Cruise**. Sat. 9/27. Leave BNL at 5 p.m. Sail on the *Skyline Princess* in New York Harbor, 7-11 p.m. Cost: \$90/person includes tax, buffet dinner, dessert, coffee, cash bar; DJ dancing; coach transportation, and tax. For ages 21 and over.
- **Cabela's** in East Hartford, CT, Sat. 9/27. Shopping Mecca for sport gear. Leave BNL 7 a.m., leave Cabela's at 5 p.m. \$20/adult or child.

Service Anniversaries

The following employees celebrated a service anniversary during the month of May:

— 40 Years —

Micheal LeVine Physics
Richard Sautkulis Biology
Kenneth Sutter.....CMPMS

— 30 Years —

Patricia Carr EENS
Karen Cestra C-AD
Joseph Cracco Physics
David Elling CFN
William Jensen..... Plant Eng.
John E. Kulesa III..... Plant Eng.
Payman Mortazavi..... NSLS
Daniel Mullaly C-AD
Elaine Zukowski.....NPP Dir.

— 25 Years —

Steven Bubka C-AD
Paul Callegari..... C-AD
Ulises Feliciano..... PPM
Christopher Johnson... Plant Eng.
Joseph Sanfilippo..... C-AD

— 20 Years —

Jeffrey DavisEm. Manag.
Ove Dyling.....NSLS-II
Arthur Harris Plant Eng.
Srinivasan Iyer Budget
Albert LanghornCMPMS
Esther Larios.....Staff Svs.
Ann Marie Luhrs C-AD
Doris Rueger.....Dir.'s Office
Jeffrey Tabacco Plant Eng.
Richard Travis SHS
Samuel VelazquezRad. Contr.

— 10 Years —

Peter Cirmigliaro..... C-AD
Subramaniam
EswaramoorthyLS Dir.
Ruth Harris..... Plant Eng.
Paul Kovach.....Magnet
Victor Perevoztchikov Physics
Cathi Schwarting Plant Eng.
Hamid Tala Plant Eng.
Francis Tramontano..... EWSM

CALENDAR

Friday, 8/1

*Rock Band: Argent Fantasy

7 p.m. Brookhaven Center. Sponsored by the BNL Music Club, the concert by Argent Fantasy and his six-musician band will feature hits from the 1960s to the 1980s. Tickets are available at the BERA Store, at \$10 each. See notice, p. 2.

Sunday, 8/3

*Summer Sundays:

National Weather Center

10 a.m.-3 p.m. Open to the public. All are invited to visit the Lab for free tours. No reservations needed. Witness the Whiz Bang Science Show, try your hand at the Brain Teasers exhibit. Visit the National Weather Center on site. Visitors to the Lab of 16 and over must carry a photo ID. See notice above, left.

— WEEK OF 8/4 —

Friday, 8/8

*Small Business Supplier Show

9 a.m.-1:30 p.m. Berkner Hall lobby. About 25 small businesses that supply BNL will feature their products and services. All are welcome. See notice, above left.

Tues. & Wed., 8/5 & 6

*Learn to Present Talks in English

Noon-1:30 p.m. Bldg. 400 lobby. Beth Lin and Jennifer Lynch will lead an informal workshop for non-native English speakers to learn how to communicate ideas effectively in a different language. All are welcome. See notice at left.

Wednesday, 8/6

*Camera Club Special Workshop

5:45 p.m. Studio lighting workshop. Advance registration is required for this event, which is for members only. New members are welcome, but you must join the club first. For more information, or to join the club, call Ripp Bowman, Ext. 4672. See also notice at left.

Friday, 8/8

Small Business Supplier Showcase

9 a.m.-1:30 p.m. Berkner Hall lobby. BNL hosts small business suppliers to showcase products and services to BNL employees. See notice, top left of this page.

Sunday, 8/10

*Summer Sundays:

Center for Functional Nanomaterials

10 a.m.-3 p.m. Open to the public. All are invited to visit the Lab for free tours. No reservations needed. Witness the Whiz Bang Science Show, try your hand at the Brain Teasers exhibit. Visit Center for Functional Nanomaterials on site. Visitors to the Lab of 16 and over must carry a photo ID. See notice, page 4.

SCCC Courses On Site

Suffolk County Community College (SCCC) courses will be offered on site for the fall 2008 semester. Employees who take college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at 75 percent for undergraduate courses. For more information, contact Starr Munson, munson@bnl.gov or Ext. 7631.

Arrivals & Departures

— Arrivals —

William Garber CMP&MS

— Departures —

Jiaqing He CMP&MS

Correction

The Bulletin greatly regrets that due to an error, the July 25, 2008, issue listed John Sondericker as departing from the CMP&MS Department. He retired from the Superconducting Magnet Division.

ATTENTION AMATEUR PHOTOGRAPHERS



EXERCISE YOUR SHUTTER FINGER AND YOUR DIGITAL SLR

Give your shutter finger a workout and learn to take photographs like those you see in magazines with your digital SLR. Join BNL's Camera Club on Wednesday, August 6, 5:45 p.m., for a studio lighting workshop complete with equipment, models, and make-up artist. Advanced registration is required, and new models are encouraged to attend. For more information, call Ripp Bowman, Ext. 4672.

