Planning for Most Prosperity, Least Waste, Pollution

DOE Workshop at BNL Explains Industrial Assessment Centers

Companies needing expert, low-cost advice on improving the energy efficiency of their industrial operations have long been served by the network of Industrial Assessment Centers (IACs), sponsored by the U.S. Department of Energy’s (DOE’s) Industrial Technologies Program at universities nationwide.

Said Robert Gordon, Director of Business Management at DOE’s Brookhaven Site Office, “The IAC program provides energy management at DOE’s Brookhaven National Laboratories, and other PV specialists.

After a brief overview of current solar electric technologies and applications, with applications to help them identify opportunities to improve productivity, reduce waste, and save energy. In addition, one full day of the workshop was spent on site at a local manufacturing facility.

In his comments, Chaahda congratulated the NSLS staff and many others for their efforts in maintaining the NSLS while working to make the case for NSLS-II. “You ought to take a moment and clasp the new machine. You are going to have to work very hard to keep it running. It’s been difficult to keep the NSLS running and we need to continue to work very hard, but I expect that you can do it.”

Dierker called the announcement a tremendous step forward for the center’s head, chemical engineer and scientist Vasili Fthenakis of the Environmental Sciences Department (ESD), on August 15-17, coordinated by Robert Hall, Director of Research and Development programs for the Center for Environmental & Energy Partnership, Inc. Representatives from ten universities attended, including Hofstra University and New York Institute of Technology on Long Island. Participants learned how IACs work teams composed of engineering faculty and students from the centers are sent out to conduct energy audits or industrial assessments and provide recommendations to manufacturers to help them

On the past five years, solar energy usage has grown by about 43 percent a year, giving rise to a billion-dollar industry in photovoltaics (PV) of electricity from light. The word photovoltaics combines the Greek phos, or light, with the “vol” of electricity.

The Lab received great news last week: DOE granted “Critical Decision Zero” (CD-0) status to National Synchrotron Light Source (NSLS-II), the planned world-leading NSLS successor. This is the key first step in the long process to actual construction.

As Fthenakis came to BNL in 1980. He received a diploma in chemistry from the University of Athens, Greece, in 1975, an M.S. in chemical engineering from Columbia University in 1978, an M.S. in chemical engineering from Columbia University in 1979, and a Ph.D. in chemical engineering from Columbia University in 1980.

Vasili Fthenakis, Environmental Sciences Department, holds a diploma in chemistry from the University of Athens, Greece, in 1975, an M.S. in chemical engineering from Columbia University in 1978, and a Ph.D. in chemical engineering from Columbia University in 1980. He received a diploma in chemistry from the University of Athens, Greece, in 1975, an M.S. in chemical engineering from Columbia University in 1978, and a Ph.D. in chemical engineering from Columbia University in 1980.

Fthenakis came to BNL in 1980. He received a diploma in chemistry from the University of Athens, Greece, in 1975, an M.S. in chemical engineering from Columbia University in 1978, and a Ph.D. in chemical engineering from Columbia University in 1980.

Fthenakis also designed experiments for simulating the effects of fire on photovoltaic modules, using techniques that included x-ray diffraction analysis of metal glues done at beam line X26A at the National Synchrotron Light Source. The experiments were performed by ESD’s John Heiser, Wimmenig Weng, and Mark Fuehmann.

Initiated this year, “life cycle environmental assessments” are used to guide new design concepts, and design and apply life cycle environmental assessments to help manufacturers to help manufacturers make more savings in both resources and dollars in the future.”

— Lisa Subbert

407th Brookhaven Lecture, 9/21

Photovoltaics and the Environment

On the past five years, solar energy usage has grown by about 43 percent a year, giving rise to a billion-dollar industry in photovoltaics (PV) of electricity from light. The word photovoltaics combines the Greek phos, or light, with the “vol” of electricity.

The Lab received great news last week: DOE granted “Critical Decision Zero” (CD-0) status to National Synchrotron Light Source (NSLS-II), the planned world-leading NSLS successor. This is the key first step in the long process to actual construction.

Photo of Michelle Dollinger with the students from Texas A&M University (left) and Dr. Fthenakis (right).

With the participants at the DOE-sponsored workshop on Industrial Assessment Centers held at BNL in August are: Robert Gordon (left), Director of Business Management at DOE’s Brookhaven Site Office, workshop coordinator Robert Hall (right) of the Center for Environmental & Energy Partnership, Inc., and workshop instructor Warren Huffington (back, third from right) of Texas A&M University.
**CALENDAR OF LABORATORY EVENTS**

- The BERA Asian Pacific American Association (APAA) invites all to attend the inaugural Award Ceremony for the annual Dr. Mow Shiah Lin Scholarship, on Tuesday, 9/20.
- The Procurement & Property Management Division will take their annual FEW Conference, on Friday, 9/23.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

Many Find FEW Conference Inspiring

---

**Work for Beauty, Cancer Research**

Join the group from BNL who will open the 13th annual Making Strides Against Breast Cancer walk presented by Susan G. Komen for the Cure. This walk is a 5K event— featuring breast cancer survivors, other women in the area, family and friends, and community support. The walk is open to the public. For more information, contact Susan Scocca, Ext. 3075.

**Walk for Beauty, Cancer Research**

Tuesday, 9/20

Talk on Crimes ofBias in Suffolk

Noreen I. Berliner, BNL. All are invited to this talk, which is open to the public. and BNL. For more information, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Walk for Beauty, Cancer Research**

Wednesday, 9/21

The Bulletin
September 16, 2005

**Elder Law Seminar, 9/27**

Join Nancy Bierer, former President of the Suffolk County Bar Association and a member of the National Academy of Elder Law Attorneys, on Tuesday, September 27, from 10 a.m. to 3 p.m. in Berliner Hall where she will present a seminar on elder law.

Bierer will discuss the need for health care proxies, living wills, and power of attorney. She will describe how to protect your assets and will provide an overview of the complex government rules that affect Medicare and Medicaid reimbursement. She will also summarize how proper planning can allow you to preserve your estate by reducing taxes and expenses. Due to the warm weather this day, registration is required to attend this seminar. Check your mailbox for registration forms. Return completed forms to Elizabeth Birch, Ext. 3512.

**Cardiac Fitness Talk, 9/22**

Join Denise Karr, a registered dietitian with CIGNA HealthCare, on Thursday, September 22, from noon to 1 p.m. in the Apartment area in Bertin Hall and is open weekdays from 9 a.m. to 3 p.m. In Berliner Hall.

“Keeping a Healthy Heart,” a talk on how to minimize the risk of heart disease, will be presented of blood at BNL’s September 8 Blood Drive. Thank you.

**Thanks, Blood Donors**

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.

**Many Find FEW Conference Inspiring**

In this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from the Energy Sciences & Technology Department. In honor of Lin’s research, achievements, and inventions, this scholarship will be granted annually to an Asian immigrant with experience in science, engineering, and training seminars and returned with a wealth of information regarding my position here at the Lab.”

In this session, participants are responsible for their own registration and fee of $20, or sponsorship. For details, contact Susan Scocca, Ext. 3075 or scocca@bnl.gov.
**Volleyball News**

The BERA V olleyball League begins its 2005-2006 season on Monday, October 10. If you have ideas for ergonomic improvements, or you would like assistance in evaluating your work area, contact Nicole Brehm, Safety & Health Services Division, at Ext. 2027 or at brehm@bnl.gov.

Here, Maria Beckman, advised by Nicole Bernholc of the Safety & Health Services Division, has made minor changes to her work station that will make major changes in the way she feels at the end of each day. By simply adding a keyboard tray, and moving her telephone and other frequently used tools within reach, she is now working in a posture that is more comfortable and helps to avoid overextension of the arms and shoulders. By adding a copyholder in front of the monitor, she avoids moving her head sideways and repetitively, which can create neck strain. Other tips for comfort: Feet should be flat on the floor or on an appropriate footrest; the keyboard and mouse should be at the same level; and wrists should be straight, not flexed, when typing. You can find your keyboard position by sitting with your elbows at your side and then raising your arms. Move your chair toward your keyboard so that you do not have to extend your arms to type. Simple adjustments like these can make you more comfortable at work.

**Defensive Driving Course**

The course offers four hours of driving education credit toward a 24-hour renewal period. Call (866) 842-2053, Ext. 4625, for more information. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625.

**TIAA-CREF One-on-One Retirement Counseling**

TIAA-CREF will consult with BNL on Wednesday, 9/28, from 9 a.m. to 1 p.m. in the Green Room, Berkner Hall. TIAA-CREF will consult with BNL on Wednesday, 9/28, from 9 a.m. to 1 p.m. in the Green Room, Berkner Hall. For more information, contact Kathy Murphy, (866) 842-2053, Ext. 4625.

**Vanguard One-on-One Retirement Planning**

The Vanguard Group invites BNL employees to spend 45 minutes one-on-one with a licensed Vanguard representative on Wednesday, September 28, at the Lab, to talk about financial issues. You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you. Schedule a 45-minute session online at www.mutual- fund.com or call 1-800-464-0360, Ext. 14500.

**Fidelity Investment Counseling, 9/29**

A Fidelity Investment representative will be available at the Lab on September 29, to hold sessions with individual employees interested in learning more about their retirement—wealth and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

**Upcoming Library Events**

**P.T. @ Brookhaven Dance Hall**

7 p.m. - midnight. Brookhaven Con- ference Center, Sponsored by BERA Social & Cultural Club and Dance Long Island. For more information, contact Beryl Alforque. 8 p.m. Live music by Louis del Piane and his band "TASTE," back-by-special-request. Body Allegra offers complimentary 45-minute dance lessons at 7:30 p.m. The band will perform from 8 p.m. to midnight with JF music in between sets.

**BERA-Sponsored NASCAR Trip**

Saturday, 10/1

3:30-5:30 p.m. Berkshire Hall, Room 110. A meeting for shift workers will be held 1 p.m. in the Recreation English room. The meeting includes regular business, committee reports, and the presentation of a new proposal. All employees are urged to make every effort to attend and participate.

**Saturday, 10/1**

**Defensive Driving Course**

9 a.m. - 12 noon, Berkner Hall. A course designed to help drivers understand the procedures and the laws that may impact the safe driving of a vehicle. Contact Kathy Murphy, (866) 842-2053, Ext. 4625, for more information. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625.

**TIAA-CREF One-on-One Retirement Counseling**

TIAA-CREF will consult with BNL on Wednesday, 9/28, from 9 a.m. to 1 p.m. in the Green Room, Berkner Hall. For more information, contact Kathy Murphy, (866) 842-2053, Ext. 4625.

**Vanguard One-on-One Retirement Planning**

The Vanguard Group invites BNL employees to spend 45 minutes one-on-one with a licensed Vanguard representative on Wednesday, September 28, at the Lab, to talk about financial issues. You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you. Schedule a 45-minute session online at www.mutual- fund.com or call 1-800-464-0360, Ext. 14500.

**Fidelity Investment Counseling, 9/29**

A Fidelity Investment representative will be available at the Lab on September 29, to hold sessions with individual employees interested in learning more about their retirement—wealth and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

**Upcoming Library Events**

**P.T. @ Brookhaven Dance Hall**

7 p.m. - midnight. Brookhaven Con- ference Center, Sponsored by BERA Social & Cultural Club and Dance Long Island. For more information, contact Beryl Alforque. 8 p.m. Live music by Louis del Piane and his band "TASTE," back-by-special-request. Body Allegra offers complimentary 45-minute dance lessons at 7:30 p.m. The band will perform from 8 p.m. to midnight with JF music in between sets.

**BERA-Sponsored NASCAR Trip**

Saturday, 10/1

3:30-5:30 p.m. Berkshire Hall, Room 110. A meeting for shift workers will be held 1 p.m. in the Recreation English room. The meeting includes regular business, committee reports, and the presentation of a new proposal. All employees are urged to make every effort to attend and participate.

**Saturday, 10/1**

**Defensive Driving Course**

9 a.m. - 12 noon, Berkner Hall. A course designed to help drivers understand the procedures and the laws that may impact the safe driving of a vehicle. Contact Kathy Murphy, (866) 842-2053, Ext. 4625, for more information. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625.

**TIAA-CREF One-on-One Retirement Counseling**

TIAA-CREF will consult with BNL on Wednesday, 9/28, from 9 a.m. to 1 p.m. in the Green Room, Berkner Hall. For more information, contact Kathy Murphy, (866) 842-2053, Ext. 4625.

**Vanguard One-on-One Retirement Planning**

The Vanguard Group invites BNL employees to spend 45 minutes one-on-one with a licensed Vanguard representative on Wednesday, September 28, at the Lab, to talk about financial issues. You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you. Schedule a 45-minute session online at www.mutual- fund.com or call 1-800-464-0360, Ext. 14500.

**Fidelity Investment Counseling, 9/29**

A Fidelity Investment representative will be available at the Lab on September 29, to hold sessions with individual employees interested in learning more about their retirement—wealth and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

**Upcoming Library Events**

**P.T. @ Brookhaven Dance Hall**

7 p.m. - midnight. Brookhaven Con- ference Center, Sponsored by BERA Social & Cultural Club and Dance Long Island. For more information, contact Beryl Alforque. 8 p.m. Live music by Louis del Piane and his band "TASTE," back-by-special-request. Body Allegra offers complimentary 45-minute dance lessons at 7:30 p.m. The band will perform from 8 p.m. to midnight with JF music in between sets.

**BERA-Sponsored NASCAR Trip**

Saturday, 10/1

3:30-5:30 p.m. Berkshire Hall, Room 110. A meeting for shift workers will be held 1 p.m. in the Recreation English room. The meeting includes regular business, committee reports, and the presentation of a new proposal. All employees are urged to make every effort to attend and participate.

**Saturday, 10/1**

**Defensive Driving Course**

9 a.m. - 12 noon, Berkner Hall. A course designed to help drivers understand the procedures and the laws that may impact the safe driving of a vehicle. Contact Kathy Murphy, (866) 842-2053, Ext. 4625, for more information. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625.

**TIAA-CREF One-on-One Retirement Counseling**

TIAA-CREF will consult with BNL on Wednesday, 9/28, from 9 a.m. to 1 p.m. in the Green Room, Berkner Hall. For more information, contact Kathy Murphy, (866) 842-2053, Ext. 4625.

**Vanguard One-on-One Retirement Planning**

The Vanguard Group invites BNL employees to spend 45 minutes one-on-one with a licensed Vanguard representative on Wednesday, September 28, at the Lab, to talk about financial issues. You may learn about: investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools available to you. Schedule a 45-minute session online at www.mutual- fund.com or call 1-800-464-0360, Ext. 14500.

**Fidelity Investment Counseling, 9/29**

A Fidelity Investment representative will be available at the Lab on September 29, to hold sessions with individual employees interested in learning more about their retirement—wealth and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.
BULLETIN

LEADERSHIP FEATURE

Louisiana Red in Concert, 9/23
With Doug ‘Harmonica’ McLean
The American Primitive String Band Opens Show

The veteran blues musician Louisiana Red will appear in concert with Doug ‘Harmonica’ McLean, a bluegrass artist, in Bender Hall on Friday, September 23, at 8 p.m. The American Primitive String Band, another local group, will open the show with a performance based on the 1952 recording titled ‘The Anthology of American Folk Music’. The band’s performance is sponsored by the Long Island Blues Society, the concert will be open to the public all visitors to the Laboratory Age-16 and must show their photo ID making entry. Louisiana Red and his band will bring their traditional blues sound to the stage. Louisiana Red has played the Long Island blues scene since the 1970s, when he first played with Louisiana Red. A master of all styles of mouth harp, McLean has performed at BNL several times, and has performed with such blues greats as B.B. King, John Lee Hooker, Otis Spann and Muddy Waters.

LEADERSHIP FEATURE

Louisiana Red, 97 years old, remains a unique figure in the world of blues music. His albums have been critically acclaimed and are sought after by collectors and connoisseurs alike. Louisiana Red, born in Louisiana, began his musical career playing blues and gospel in the early 1930s. He has been a member of the Chicago Blues Society and the National Blues Foundation, and his music is featured regularly on blues radio stations worldwide.

LEADERSHIP FEATURE

Louisiana Red, 97 years old, remains a unique figure in the world of blues music. His albums have been critically acclaimed and are sought after by collectors and connoisseurs alike. Louisiana Red, born in Louisiana, began his musical career playing blues and gospel in the early 1930s. He has been a member of the Chicago Blues Society and the National Blues Foundation, and his music is featured regularly on blues radio stations worldwide.

LEADERSHIP FEATURE

Louisiana Red, 97 years old, remains a unique figure in the world of blues music. His albums have been critically acclaimed and are sought after by collectors and connoisseurs alike. Louisiana Red, born in Louisiana, began his musical career playing blues and gospel in the early 1930s. He has been a member of the Chicago Blues Society and the National Blues Foundation, and his music is featured regularly on blues radio stations worldwide.