Bill Weng Elected IEEE Fellow

Wu-Tsung “Bill” Weng, head of BNLS Center for Accelerator Physics, has been elected a 2004 Fellow of the Institute of Electrical & Electronics Engineers, Inc. (IEEE). The IEEE is a worldwide organization with more than 350,000 members, and the honor of being named a Fellow is reserved to no more than one-tenth percent of the total voting membership. Weng, cited for “leadership in particle accelerator development in one of this year’s 260 new IEEE Fellows, to be completed by 2006, the SNS will provide the most intense pulsed neutron beams in the world for scientific research and industrial development.

As an active IEEE member, Weng was conference chair of the 1999 Particle Accelerator Conference in New York City, which attracted over 1,300 researchers from around the world, and he is now a member of the committee that is organizing a similar conference in 2005 to be held in Knoxville, Tennessee.

Also, from 1990 to 1993, Weng chaired IEEE’s Particle Accelerator Science & Technology Committee, which, in conjunction with the American Physical Society’s Division of Physics of Beam, cosponsors the biannual Particle Accelerator Conferences.

Weng earned a B.S. in electrical engineering from National Taiwan University in 1966; an M.S. in physics from National Tsing-Hua University, Taiwan, in 1966; and a Ph.D. in physics from Stony Brook University in 1974. He then took a postdoctoral position in nuclear physics at the University of Arizona, Tucson, from 1974 until 1977, when he joined BNL as an accelerator physicist. By 1980, he headed the Accelerator Physics Section of the Accelerator Department, then, in 1983, he moved to the Stanford Linear Accelerator Center. Weng returned to BNL in 1987 as a senior physicist, becoming head of the Center for Accelerator Physics in 2002. He frequently has served as a technical consultant in many DOE reviews of U.S. accelerator projects, and he also was a machine advisory committee member of various accelerator projects in Canada, China, Europe, and Japan.

Weng has been a Fellow of the American Physical Society since 1992, and he received the Y. T. Lee Foundation for the Advancement of Outstanding Scholarship Award in 1995, in Taiwan. — Diane Greenberg

A Better Electron Accelerator

Ilan Ben-Zvi, Collider-Accelerator Department and BNL’s Accelerator Test Facility (ATF) Director, has led a team to help develop a compact linear accelerator at the ATF that uses laser light to accelerate electrons with better efficiency and energy characteristics than ever before. The device, called Staged Electron Laser Acceleration (STELLA), is a step forward in accelerator development, and may help electron accelerators become practical tools for applications in industry and medicine, such as radiation therapy for cancer patients.

Electron accelerators use the motion of high-speed electrons for many applications, such as producing x-ray and ultraviolet light. These linear accelerators (linacs) transfer microwave radiation energy to electrons, causing them to accelerate down a long, straight pipe. But reaching high energies can be difficult with linacs because the electrons receive only small energy gains at a time and are accelerated in several steps. This makes high-energy linacs up to several kilometers in length that are very expensive.

In contrast, over a distance of a third of a meter, STELLA, which uses laser light rather than microwaves, improved the “step” method to an “energy gain” that would have required a longer standard linac. STELLA also overcame some of the challenges of using laser-driven linacs, such as making the electrons equal in energy and keeping them tightly bunched together. These characteristics are vital to producing a high-quality beam. While laser linacs still need substantial development, STELLA’s success suggests that linacs could be road to a new acceleration technology, but there are still many challenges ahead before we reach that goal.

STELLA’s task, according to Kimura, is similar to “accelerating a herd of sheep from one corral to another. If the sheep are moving at different speeds in a long line, some are left behind when the rear gate closes and the front gate opens. After moving through several corrals, the herd would diminish. But if the sheep move in a cluster, most will make it to the next corral. STELLA was able to keep the entire “herd” together better than has been done in any prior experiment.

Funded by DOE’s Office of High Energy Physics within the Office of Science, the STELLA collaboration includes researchers at STI Optronics, Inc., BNL, the University of California at Los Angeles, Stanford University, and the University of Washington.

— Laura Mgdichian
On December 10, BNL held the 2003 Service Award Reception in Berkner Hall. Lab Director Praveen Chaudhari warmly congratulated the 224 VIP employees who had been invited, including 104 BNLers with 25 years of service, 22 who had worked at the Lab for 30 or more years, and 18 who had been BNLers for between 36-39 years, nine who had been at the Lab for 40 years, and 15 who had served BNL for between 41 to 44 years. The stars of the evening’s celebrations were John Sondicker of the Magnet Division, distinguished by 46 years of service to the Lab, and George DiGiuseppe of the Building & Property Management Division and Leonard Newman of the Environmental Sciences Department who both joined the Lab 46 years ago.

BNL VIPs Attend 2003 Service Award Reception

On Friday, February 13, the rock band “ACCENT” will perform at the Brookhaven Center for a Valentine’s Eve Dance Party jointly sponsored by the BNL Social & Cultural Club and the BNL Ballroom Dance Club. The event is open to the public. All visitors age 16 and over must present a picture ID at the main gate. The ACCENT band plays an assortment of 40’s, 70’s, and other popular tunes for disco, free style, and hustle dancing. In between sets, however, there will be a karaoke room and Latin dance music for everyone to enjoy. If you like to dance, or simply socialize, don’t miss this party!

Tickets will be sold at the door only, at $8 per person, which includes coffee and tea and a half-hour complimentary beginner hustle dance lesson at 7 p.m.; the band starts at 8 p.m. For more information, contact Rudy Alforque, ext. 4733 or rudy@bnl.gov, or John Millener, ext. 3853 or millener@bnl.gov.

Daffodil Days

BERL will again be selling daffodils to benefit the American Cancer Society. A bunch of ten fresh cut flowers is $7. Pick up your spring bouquet during the week of March 22. Paid reservations are being taken at the BERA Sales Office, Bldg 488, Monday-Friday, 9 a.m.-3 p.m.

Arrivals

Arivials

Matthew Cutler ..................... ITD
Stevie Greiner ....................... Physics
Vorkutarami Reddy ............... Biology
Lisa Sato .......................... ITD
Eli Sutter .......................... CFN
Peter Sutter ......................... CFN

Departures

Harold Cubillos ..................... ITD
Joel Errante ......................... C A
Fritz Hoehler ......................... C A
R. Jefferson Porter .............. Physics

Long Island Weather of 2003

Two Blizzards, Third Wettest Year on Record at BNL

Remember the blizzards of 2003? The first dump of 21 inches of snow at BNL between February 16 and 18, and the second brought 20 inches on December 5 and 6.

While the blizzard of 1978 brought a record 23 inches of snow, the February and December 2003 snowfalls are the second and third largest snow events ever recorded at the Lab, and the winter of 2002-03 was the fifth snowiest winter in 56 years, said BNL’s meteorologist Victor Cassella. The Lab has recorded snowfalls since it was founded in 1947 and weather statistics since 1949.

The yearly precipitation for 2003 was 63.11 inches, which made it the third wettest year on record at the Lab. The wettest year was 1989, with 68.66 inches of precipitation, and 1983 is second wettest with 63.84 inches. June brought a drenching 12.28 inches of rain, making it a runner-up to June 1982, which brought 12.85 inches of rain.

While some 21 tropical storms and hurricanes brewe red up in the Atlantic Ocean, no hurricanes hit Long Island in 2003. Local meteorologists kept a close eye on Hurricane Isabel in September, but it hit land in North Carolina. Long Island only got one-quarter inch of rain as a result of Isabel.

The average yearly temperature for 2003 was 50.8°F, 0.7° above the overall average for the past 56 years. The year brought five new high daily temperatures and one new low daily temperature, which occurred in March, June and November. The record low temperature of 4.5°F set in 1978. Just ten days later, the year's most dramatic new high was set on Saint Patrick's Day, when the temperature soared to 72°F, eleven degrees higher than the previous high of 61°F for that day. Also, August was the hottest with an average record with an average monthly temperature of 74°F, even though no daily temperatures were broken during the month. The previous high monthly temperature for August was 74.7°F, set in 2001.

Editor's Note: Why are the service award buttons — and photos — depicted on the inside of a jacket? At the Service Awards Reception in 2001, noticing that Lab photographer Roger Stoutenburgh was about to take his photo, 44-year awardee Lenny Newman spontaneously opened his jacket, inside which he had pinned his collection of his anniversary buttons. The resulting photo was so much appreciated that it was repeated at the 2003 reception (see above, top right). Then Lab photographer Joseph Rubino had the bright idea of placing Lewis’s photos of attendees at this reception to resemble the buttons inside the jacket.
Reimbursement

A TIAA-CREF representative will visit BNL Friday, February 6, 8:30-10 a.m.; Monday, February 9, 8-10 a.m.; and Tuesday, February 10, 8-10 a.m., in the TIAA/CREF room. According to the Taxpayer Relief Act, TIAA/CREF and the Internal Revenue Service (IRS) are eliminating distinctions between TIAA and CREF options, effective January 1, 2002. Effective January 1, 2002, 401(k) plans and other retirement plans are required to offer participants the option of investing in TIAA/CREF. Participants should consult their TIAA/CREF representatives for more information.

Retirement Counseling

A TIAA-CREF representative will visit BNL Monday, February 9 and Tuesday, February 10, 8-10 a.m., in the TIAA/CREF office. If you have questions or need assistance with your retirement account, please contact a TIAA-CREF representative or schedule an appointment with your BNL Benefits Office. If you have questions or need assistance with your retirement account, please contact a TIAA-CREF representative or schedule an appointment with your BNL Benefits Office.

What's On at ESOL

The English for Speakers of Other Languages (ESOL) Program will hold classes on Monday nights, 7-8:30 p.m., that will focus on "test of English for foreign learners" (TOEFL) preparation. The program will include card-making, music, games, chocolate, and chat. All are welcome.

Volunteer Needed for Writing Center

The BNL English for Speakers of Other Languages (ESOL) Program will hold a meeting on Thursday, March 11, noon-1 p.m. on the Bldg. 89, 3rd floor, and a meeting on Thursday, March 18, 11 a.m.-12 p.m., on the Bldg. 89, 3rd floor. The meeting will be on "test of English for foreign learners" (TOEFL) preparation. The program will include card-making, music, games, chocolate, and chat. All are welcome.

ESOL Valentine's Day Party, 2/12

The English for Speakers of Other Languages program invites all BNLers to attend the Valentine's Day party, Thursday, February 14, 12:30-3:30 p.m. in the Recreation Hall, Bldg. 317, in the apartment area. The program will include card-making, music, games, chocolate, and chat. All are welcome.

Hospitality Committee's Valentine's Party, 2/14

The BNL Hospitality Committee invites all BNLers to attend a Valentine's Day party on Saturday, February 14, at 5:30 p.m. in the Recreation Hall, food, beverages, and DJ music will be provided, and the Committee will provide the food, beverages, and DJ music. All are welcome to attend the party.

The Mentalist, 3/19

Gerry McMillan will perform his well-known nightclub act, demonstrating his uncanny ability to read people's actions and determine their innermost thoughts. At BNL on Friday, March 19, 7:30 p.m. in the Bldg. 100. Tickets cost $10 at the BERA Store. Doors open at 7:00 p.m. and there will be a cash bar and limited snacks. For more information, contact Christine Carter, Ext. 5909.

Pilates Classes Begin

BNL offers a new Pilates class beginning on Friday, February 13, and running for eight consecutive weeks on Friday mornings from 7 to 8 a.m. in the gym at a cost of $80 for eight weeks. Advanced registration is required. Send checks, payable to BERA, to Christine Carter, Bldg. 179B. For more information, contact Carter at Ext. 5909.

Calendar (continued)

TODAY

Friday, 2/6

Black History Month Video Show

12:30 p.m., Bldg. 100. To view an American Black Culture Club-sponsored Black History Month event featuring short documentaries about African American culture. See announcement on page 4.

Dance at a Cha-Cha Workshop

2-5 p.m., Brookhaven Center West. BNL African American Culture Club-sponsored Black History Month event. Barbara Simpson, Ext. 7643, can provide more information.

Thursday, 2/13

Blues Session

7 p.m. In the Bldg. 100. Blues session features "Dolly McElmurry" on vocals, BNL or którzy play the BNL African American Culture Club-sponsored Black History Month event. Barbara Simpson, Ext. 7643, can provide more information.

Saturday, 2/14

Valentine's Day Party

5:30 p.m., Bldg. 100. The BERA Ski Weekend Committee invites all BNLers to attend the Valentine's Day party on Saturday, February 14. See announcement on page 4.

Poetry Reading

Barbara Simpson, Ext. 7643, can provide more information. Send submissions to Barbara Simpson, Ext. 7643. For more information, contact Monique de la Beij, 399-7656. In the Recreation Hall, Bldg. 317. The Recreation Hall, Bldg. 317. See announcement on page 4.

BERA Ski Weekend to Gore Mountain

Saturday, 2/14, 8 p.m., and Sunday, 2/15, 8 a.m. Meet in the Brookhaven Center, Bldg. 5, at 2:30 p.m., or contact Rudy Alforque, Ext. 4733, rudy@bnl.gov, or www.bnl.gov/bera/accent. For more information, contact Rudy Alforque, Ext. 4733, rudy@bnl.gov, or www.bnl.gov/bera/accent.
The Laboratory’s policy is to solicit the best qualified candidates for all positions. Candidates are considered for the following positions: (1) present employees within the Laboratory, in their own department/division and/or appropriate bargaining unit, with at least a cumulative 8-week immediate work group; (2) present employees without bargaining unit status, with a cumulative 8-week immediate work group; and (3) outside applicants. Employees of the Laboratory and all applicants are considered without regard to age, race, color, creed, religion, sex, national origin, disability, or veteran status. Each week, the Human Resource Department will solicit candidates for each position, so employees may consider themselves for the positions, and second, for open recruitment. Because of the policy burden stated above, each listing does not necessarily represent an opportunity for all applicants. Except when operational needs require otherwise, positions will be open for 1 week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLENE, Ext. 7741, M-F 8 a.m.-3 p.m.; or refer to your job openings on the Web World at www.gci.gov/bnl./pubaf/rf/.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

M6806. POST DOCTORAL RESEARCH ASSOCIATE (requires Ph.D. in inorganic or organic chemistry, or materials science). Responsible for research involving the synthesis of inorganic compounds and/or organometallic complexes with a focus on developing their potential for catalysis in fuel cells and other energy-related systems. The project involves developing new synthetic methodologies for these systems and their potential for catalysis in fuel cells. Under the direction of Dr. Buchal, Chemistry Department.

M6822. POST DOCTORAL RESEARCH ASSOCIATE (requiring a Ph.D. in chemistry). Research under the direction of Dr. Iola in the Chemistry Department. Responsibilities include the synthesis and characterization of new organometallic complexes and homogeneous catalysts, and the synthesis and characterization of novel materials for use in fuel cells. Under the direction of Dr. Bullock, Chemistry Department.

Eric Forsyth to Show Film at Brookhaven Lab About His Sailing Adventures, 3/4

There is a special message you’d like to send to your Valentine? Are you looking for a Valentine’s Day message that can be printed in The Bulletin on February 13. Tickets are $10. This year’s theme will be “love.” News Bulletin, Ext. 1340, will call the JOBLINE, Ext. 2882, first, so employees may request consideration within the Laboratory; and (3) outside applicants.

Furnishings & Appliances

BATHROOM FIXTURES – new, American Standard, all brands and sizes. Valsan showerhead, boil valve, $75; new, Moen, $75; Kohler, $90. Ext. 2587.


