Eight Brookhaven Lab Scientists Are Granted Tenure

Brookhaven Science Associates (BSA) granted tenure effective December 1, 2009, to eight Brookhaven scientists. They are Mei Bai, Collider-Accelerator Department; Alexander Bazilevsky, Physics Department; Richard Gentile, Medical Department; David Jaffe, Physics Department; Ferdinand Willeke, National Synchrotron Light Source II; Guangyu Xu, Condensed Matter Physics and Materials Science Department; Hua-Gan Yu, Chemistry Department; and Antoni Zelenki, Collider-Accelerator Department. The Bulletin is featuring the newly tenured scientists in alphabetical order. Bai and Bazi- levsky were featured on April 23; and Ferrari on May 7. Below are summarized the contributions of Jaffe and Willeke.

David Jaffe

David Jaffe of the Physics Department was granted tenure based on his outstanding record of accomplishment in particle physics. In particular, he has made significant contributions by elucidating specific characteristics of quarks and their role in the Standard Model of particle physics through measurements in kaon physics, B physics and neutrino physics. He has played a leading role in the current national effort to determine the fundamental consequences of neutrino mixing and in establishing BNL’s role in forefront experimental programs in neutrino physics.

“David has contributed significantly to a number of important high energy physics measurements through his unerring physics sense and his strong technical abilities,” said Tom Ludlam, Physics Chair. “He has a long record of scientific achievement and leadership, and we expect him to continue to play a key role in shaping the future particle physics program at BNL.”

Notably, Jaffe played a central role in the Alternating Gradient Synchrotron rare kaon decay experiments, E878 and E949, that confirmed the discovery of the rare K → πνν decay with low momentum pions, one of the most significant results in this field and one of the most difficult measurements in particle physics. More recently, he has taken a lead in establishing BNL’s effort on the MINOS experiment’s study neutrino oscillation and has developed breakthrough analysis techniques. Additionally, this group has taken a leading role in the Daya Bay collaboration, which is a major U.S.-China partnership to measure neutrino oscillation in a powerful reactor neutrino experiment to date to determine the electron neutrino mass. Jaffe received his Ph.D. in physics from Stony Brook University in 1987. He joined BNL as an assistant scientist in 2000 and was promoted to associate scientist in 2002 and to scientist in 2005.

Ferdinand Willeke

Ferdinand Willeke of the Accelerator Systems Department; National Synchrotron Light Source II Project was awarded tenure for his exceptional work on nonlinear beam dynamics; his contributions to the design, construction, operation and upgrade of the proton collider, HERA, of Deutsches Elektronen-Synchrotron (DESY) Laboratory in Germany; and his outstanding performance in directing the design and construction of the NSLS-II accelerator systems.

“Ferdinand is an internationally recognized accelerator physicist,” said Steve Dierker, Associate Laboratory Director for Light Sources. “He has a highly practical sense, with extensive knowledge and experience in mechanical as well as electrical and electronic engineering. He is a very versatile scientist who can support any accelerator project, and he is a valuable asset to the Laboratory’s future.”

Willeke received his Ph.D. in nuclear solid physics in 1980 from Freie University in Berlin and spent his early career translating methods developed in mathematical physics into tools of practical importance for assuring the stability of beams in large accelerators. He later participated in the commissioning of the first superconducting accelerator, the Tevatron at Fermi National Accelerator Laboratory, performing what was recognized as groundbreaking work in helping to prepare the machine for collider operation.

Willeke then devoted close to 20 years with the HERA lepton proton collider at DESY, where he was the Project Leader and head of HERA, before joining the staff at Brookhaven as Director of Operations for the Division of the NSLS-II Project in July 2007. In this role, he led the team in the completion of the preliminary design for the accelerator systems and continues to oversee the NSLS-II project’s component procurement, installation, testing, and commissioning.
BREA Luncheon, 6/9

Last Reminder!

Don’t forget – all retirees are invited to come to the annual luncheon at the Bellport Country Club at noon on Wednesday, June 9. You do not have to be a member of the Brookhaven Retired Employees Association to attend. The cost is $35 per person. Just send your check (made out to BREA) and include a note with your name (and name of spouse or guests), address, and phone number. Make checks payable to BREA. BNL, Building 421, Upton, NY 11973, by the deadline of June 2.

Nutrition, Exercise Consulting

Are you looking to improve your diet, lose a few pounds, address health issues, get a personalized exercise plan, or make sure you’re already doing the right exercises? The Health Promotion Program for Lab employees offers one-on-one consultations with a registered dietitian and an exercise specialist. For more information, call Michael Thorn, Ext. 8612.

CONGRATULATIONS, 2010 BSA SCHOLARS

Brookhaven Science Associates (BSA), a company formed by a partnership between Battelle and Stony Brook University (SBU) to manage BNL, has announced the 15 winners of the annual BSA Directors’ Scholarships, which go to children of BNL employees in continuation of a tradition instituted at BNL in 1965. Each BSA scholar is a high-school senior who will receive $2,500 per year for up to four years of study at the college or university of his or her choice. As an additional benefit starting this year, BSA, which is committed to bringing the BUA and BNL communities closer together, offered matching $2,500 scholarships annually to BSA scholarship winners who are admitted to SBU and enrolled as full-time undergraduates. The 15 2010 BSA scholars are listed below.

1. Sarah Ackerman, the daughter of Andrew Ackerman of the National Synchrotron Light Source Department, lives in Stony Brook and attends Ward Melville High School. She will attend the State University of New York at Geneseo; her major is undecided at present.

2. Jennifer Arcilla, daughter of Ramon Arcilla Jr. of the Energy Sciences & Technology Department, lives in Miller Place and is a senior at Miller Place High School. She will major in nursing at the University of Virginia.

3. Brian Bergh, who lives in Center Moriches and attends Center Moriches High School, is the son of Paul Bergh of the Radiological Control Division. He will major in engineering at the State University of New York at Buffalo.

4. Morgan Campbell, a senior at Rocky Point High School and resident of Rocky Point, is the daughter of Kevin Campbell of the Maintenance & Fabrication Division. She will attend the State University of New York at New Paltz, majoring in cell biology in preparation for a career in research.

5. Pelle Hall, who lives in Wading River and attends Shoreham-Wading River High School, is the son of Greg Hall of the Chemistry Department. He will major in computer science and biology at Grinnell College in Iowa.

6. Linda Liu, daughter of Yangang Liu of the Environmental Sciences Department, lives in Ridge and attends Longwood Senior High School. She plans to major in linguistics and/or economics at the University of Chicago.

7. John Lombardi, who is the son of Donna Lombardi of the Human Resources & Occupational Medicine Division and the nephew of Robert Lombardi, Laboratory Protection Office, lives in Riverhead and attends Riverhead Central Moriches High School, is the son of Paul Bergh of the Radiological Control Division. He will major in mechanical engineering at Union College in Schenectady, NY.

8. Michael Mayo, the son of Morgan May of the Physics Department, lives in New York, NY, and will graduate from Stuyvesant High School. He will attend Columbia College in the City of New York where he is considering majoring in American studies or chemistry.

9. Stephanie Meier, a resident of Wading River, is the daughter of James Meier of the Collider-Accelerator Department — and the granddaughter of retiree Edward Meier, National Synchrotron Light Source, and great-granddaughter of Frederick Meier of the Moller Pool who had also worked at Camp Upton. She will graduate from Shoreham-Wading River High School and then attend Suffolk County Community College, Selden Campus, to major in music education for a career in that field.

10. Katherine O’Connor, who lives in Bellport and is a senior at Bellport High School, is the daughter of Paul O’Colliot of the Instrumentation Division. She will major in mathematics, computer science, or engineering at the Massachusetts Institute of Technology.

11. Katie Parker, a senior at Ward Melville High School who lives in Shirley Brook, is the daughter of Brett Parker of the Superconducting Magnet Division. She will major in environmental sciences at Brown University, planning to work as a social activist in the area of sustainable agriculture.

12. Katherine Pena, who lives in Holbrook and attends Sachem High School East, is the daughter of Michael Pena of the Laboratory Protection Division’s Office of Emergency Management. She will major in business administration at the College of Washington University for a career in business and marketing.

13. Katherine Skinner, a resident of Wading River who will graduate from Riverhead High School, is the daughter of John Skinner of the Biology Department. She will attend Princeton University where she will major in applied mathematics.

14. Jonathan Tsang, son of Thomas Y.F. Tsang of the Instrumentation Division, lives in Holbrook and is a senior at Sachem High School North. He will study biochemistry at a college yet to be determined.

15. Iris Yu, a resident of Wading River, is the daughter of Yi Yu of the Instrumentation Division. After graduating from Shoreham-Wading River High School, she will attend Dartmouth College. She has not yet decided on her major.
The Bulletin May 14, 2010

In Memoriam: Kerry Unger

Kerry Unger, a senior applications engineer in the Collider-Acccelerator Department (CAD), died at the age of 50 on February 7, 2010. Unger had earned a B.S. in 1987 and an M.S. in 1989, both in electrical engineering at the Polytechnic Institute of New York, Farmingdale, then joined CAD on January 8, 2002, as an advanced applications engineer. He was promoted to his senior position on January 1, 2009.

Said Lawrence Hof, Unger’s supervisor, “Kerry joined the Accelerator Controls Division in 2002. In the eight years he worked here, he was involved in countless projects, interacting with many of the other technical groups within CAD, including beam instrumentation, vacuum, radio-frequency devices, magnet power supplies, and accelerator operations. His good nature and dedication made him well liked throughout the department. This was especially true in the autumn, when he would share the fruits of his gardening with us, including particularly hot peppers. When he wasn’t interfacing the injection system operation control device into the control system, he enjoyed relaxing at his cabin in the Catskills where he spent time with family and exploring snowmobile trails.

A resident of Holbrook, Kerry Unger is survived by his parents, Carl and Fanny Unger, his sister Lori, brother Gary, two nieces and three nephews. — Lu Seubert

NSLS/CNF Users’ Meeting, 5/24-26

The annual Joint National Synchrotron Light Source (NSLS) and Center for Functional Nanomaterials (CFN) Users’ Meeting will be held from Monday, May 24 through Wednesday, May 26. New research capabilities in experimental capacities in synchrotron radiation and the nanosciences will be highlighted.

This year’s theme will focus on “Climate Change” and how synchrotron radiation and nanosciences will impact understanding and mitigation of the potential global effects.

At the Tuesday main meeting and plenary session, open to all, William E. Denison, Director of the DOE Office of Science, will give the keynote address. Also included will be scientific talks; updates from DOE Basic Energy Sciences program managers, and overviews from Sam Aronson, BNL; Steve Dierker, Light Sources; Chi-Chang Ko, NSLS, and Emilio Mendez, CFN. BNL employees and guests are also welcome to register for workshops, and other meeting events (registration and a nominal fee are required). For more information, go to: http://www.nsrls.bnl.gov/users/meeting/page.aspx?id=home.

Ellis Talk from pg. 1

...theory of particle physics, known as the Standard Model, still leaves open many basic questions, for example: What is the origin of the matter in the Universe, how does its mass originate, what is the nature of the dark matter that fills the Universe? And are there additional dimensions of space? The answer to these questions may set the stage for future experiments beyond the scope of the LHC.

Ellis has been recognized for international contributions to CERN. He has interacted with physicists and diplomats worldwide. He also has given lectures around the globe, in many cities and several languages. His primary research interests focus on the phenomenological aspects of particle physics, but he has also made important contributions to astrophysics, cosmology, and quantum gravity.

Ellis earned his Ph.D. in theoretical (high-energy) physics from Cornell University in 1975. Among his many honors, Ellis was awarded the Maxwell Medal and the Paul Dirac Prize by the Institute of Physics in 1982 and 2005, respectively, and is an Elected Fellow of the Royal Society of London.

Note: To see the painting, go to: http://en.wikipedia.org/wiki/Where_Do_We_Come_from%3F_What_Are_We%3F_Where_Are_We_Going%3F

— Jane Koropak

Fidelity One-of-a-Kind

A Fidelity representative will be on site on Thursday, 6/24 and Thursday, 7/15, to answer employee’s questions about their finances. Sessions will be for approximately half an hour. For an appointment, call 800-642-7131, weekdays, 8 a.m. – midnight EST; or use the website. Fidelity offers a range of products and services, including retirement plans and wealth management. If you would like to participate, you must enroll at least 26 weeks prior to retirement.

Join the Green Thumb Veggie Club!

Fresh organic produce from a local farm is available, delivered weekly to BNL, for those who join Community Supported Agriculture (CSA). Members receive fresh organic produce from the Green Thumb Farm in Water Mill, N.Y., which between 160 and 180 members. In the first year, participants will be able to pick up the CSA share at the BERA Store in Berkner Hall, or at the BERA website. For more information, contact Ron Novosel, 631-344-5095, or email ron@green-thumfarms.com.

— Ron Novosel

Arrivals & Departures

- Arrivals —
Donald nostrad ......... C-AD
Susan Ruskowski ....... CEOPA
Parang Sinha .......... Chemistry

- Departures —
Dean Green ......... C-AD

Remember the BNL Food Drive

The Site Services Division and Office of Emergency Management thank the Lab community for cooperation and focus on safety as the major concern of repaving Princeton avenue was completed.

BNSA Noon Recital, Mazz-Soprano

Noon Bershke Laboratory Vocalist Ginger Costa-Jackson will perform opera and Broadway favorites for the lab community. Also included will be scientific talks; updates from DOE Basic Energy Sciences program managers, and overviews from Sam Aronson, BNL; Steve Dierker, Light Sources; Chi-Chang Ko, NSLS, and Emilio Mendez, CFN. BNL employees and guests are also welcome to register for workshops, and other meeting events (registration and a nominal fee are required). For more information, go to: http://www.nsrls.bnl.gov/users/meeting/page.aspx?id=home.

— WEEK OF 5/17 —

Wednesday, 5/19

*BSA Noon Recital, Mazz-Soprano

Noon Bershke Laboratory Vocalist Ginger Costa-Jackson will perform opera and Broadway favorites for the lab community. Also included will be scientific talks; updates from DOE Basic Energy Sciences program managers, and overviews from Sam Aronson, BNL; Steve Dierker, Light Sources; Chi-Chang Ko, NSLS, and Emilio Mendez, CFN. BNL employees and guests are also welcome to register for workshops, and other meeting events (registration and a nominal fee are required). For more information, go to: http://www.nsrls.bnl.gov/users/meeting/page.aspx?id=home.

— WEEK OF 5/24 —

Monday, 5/24

*BSA Noon Recital, Mazz-Soprano

4 p.m. Berkner Hall lobby. Ear-5:30. — Arrivals —

Wednesday, 5/26

*BSA Noon Recital, Mazz-Soprano

7 a.m. Berkner Hall, Room D. Registration starts at 7:30 a.m. A ticket of start of work- shops, meetings. See agenda at http://www.bnl.gov/bera/Calendar/Meeting agendas.aspx.

IEE Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horsebridge Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president’s report.

Tuesday, 5/25

*BSA Noon Recital, Mazz-Soprano

9 a.m. Centereach Knights of Columbus Hall, 41 Horsebridge Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president’s report.

DOCUMENTARY FILM: Afghan Women

6:30 p.m. Centereach Knights of Columbus Hall, 41 Horsebridge Rd., Centereach. Documentary Film: Afghan Women. Lifetime achievement award winner and Emilio Mendez, CFN. BNL employees and guests are also welcome to register for workshops, and other meeting events (registration and a nominal fee are required). For more information, go to: http://www.nsrls.bnl.gov/users/meeting/page.aspx?id=home.

— WEEK OF 6/24 —

Wednesday, 6/24

*BSA Noon Recital, Mazz-Soprano

4 p.m. Berkner Hall lobby. Ear.

— DEPARTURES —

— DEPARTURES —

BSA Noon Recital, 5/19

Vocalist Ginger Costa-Jackson

Mezzo-soprano prodigy Ginger Costa-Jackson, a 23-year-old graduate of the Metropolitan Opera’s Lindemann Young Artist Development Program, and winner of numerous international awards, will perform on Wednesday, May 19, at noon in Berkner Hall. Costa-Jackson’s performance will offer an hour of opera and Broadway favorites titled “Don’t Mess with This Mezzo!” Selections will include Chorus, In the Carden, and La Cenerentola arias, the music of Kurt Weill, and shows tunes from Sammuel, Cats and more. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab age 16 and over must bring a photo I.D.

Camera Club Meeting, 6/10

Calling all camera bugs! The Camera Club concludes its 2009-2010 season on Thursday, June 10, in Berkner’s Room D at noon. For those who have participated in the workshop on Lightroom, Mark Parsons will review the Nikon suite of photo enhancement tools with a demonstration of the time saving features. For more information, contact Joe Gittlett, Ext. 3584, gittlett@bnl.gov.
Photography & Video

AUGUST 31 - D1790807 - Photographing - The Bulletin was delighted to receive answers to our last week’s question about the identity of the mysterious creature that was seen near the LIGO detector in Port Jervis. The bird was identified as a Golden Eagle, Steller’s sea eagle, or an osprey. In the end, Tim Green, BNL’s resident wildlife expert, also subscribed to the idea that this was an osprey. Tim Green explains that the Bulletin’s viewpoint fits in with the feeding habits of these birds.

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“Photography & Video” is a regular feature of the Bulletin, showcasing the diverse range of photography and videography that takes place at the Laboratory and around the world. This week’s edition includes a feature on the use of photography in scientific research, a profile of a local photographer, and a selection of recent images from around Brookhaven National Laboratory. For more information, visit www.bnl.gov/bnlweb/pubaf/bulletin/

In this week’s “Photography & Video” feature, we highlight the role of photography in scientific research, focusing on the use of high-resolution imaging in astrophysics and the study of cosmic phenomena. We also profile a local photographer whose work captures the beauty and complexity of the natural world, and showcase recent images from around Brookhaven National Laboratory that illustrate the Laboratory’s diverse scientific activities.