

BNL Scientists Awarded Tenure

Diane Greenberg and Marsha Belford

Brookhaven Science Associates (BSA) has granted tenure to six BNL scientists this summer. They are: Radoslav Adzic, Energy Sciences & Technology Department; Milind Diwan, Physics Department; Paul Freimuth, Biology Department; John Haggerty, Physics; Robert Sweet, Biology; and Xijie Wang, National Synchrotron Light Source Department.

Tenure appointments are granted by the BSA Board after a rigorous selection procedure overseen by the BSA Science & Technology Steering Committee. The Scientific Staff Manual description of tenure “constitutes recognition of independent accomplishment of a high order in the performance of original research or of other intellectually creative activity appropriate to the purposes of the Laboratory.”

Radoslav Adzic, Energy Sciences & Technology Department (ES&T), was awarded tenure for his outstanding contributions to electrochemistry, a field that explores the relationship between chemical change at interfaces of various materials and electric current.

Adzic studies the correlation between structure and function at electrochemical surfaces, using several techniques, including those at the National Synchrotron Light Source.

For example, he clarified the role of the surface structure of electrodes in key reactions of electrochemical energy conversion - crucial research for making efficient fuel cells in electric vehicles.

David Welch, head of ES&T’s Materials Science Division, commented, “Radoslav is a world leader in electrochemical surface science and electrocatalysis.

His considerable talent, combined with the excellent facilities at BNL, have resulted in important contributions to those fields.”

ES&T Department Chair William Horak added, “Radoslav’s work on fuel cells will significantly lower their cost by reducing the amount of precious metals needed in their manufacture.”

After earning a Ph.D. in chemistry from the University of Belgrade in 1974, Adzic remained at the university, rising to the rank of Professor and Director of the Institute of Electrochemistry. In 1979, he was a visiting scientist at BNL, and in 1992, he joined the Laboratory as a senior research associate. In June 2001, he assumed his current position as chemist in ES&T.



Radoslav Adzic

Milind Diwan, for his talent and achievements in high-energy physics, Milind Diwan, an experimental particle physicist in the Electronic Detector Group, was nominated for tenure by the late Physics Department Chair Michael Murtagh.

“Milind’s primary focus has been the rare kaon decay experiment E787, for years the flagship high-energy physics experiment at the Alternating Gradient Synchrotron,” explained Murtagh. “In almost every aspect of the analysis of this difficult experiment, Milind has made significant improvements, succeeding in extending it into a new region of phase space which should lead to significant improvements in coming runs.”

In addition, Diwan is leading the BNL effort on the MINOS long-baseline neutrino experiment at Fermi National Accelerator Laboratory.

Milind Diwan received his Ph.D. in experimental physics from Brown University in 1988. He came to BNL in 1994 as an assistant physicist and was promoted to associate physicist in 1996 and to physicist in 1999.



Milind Diwan

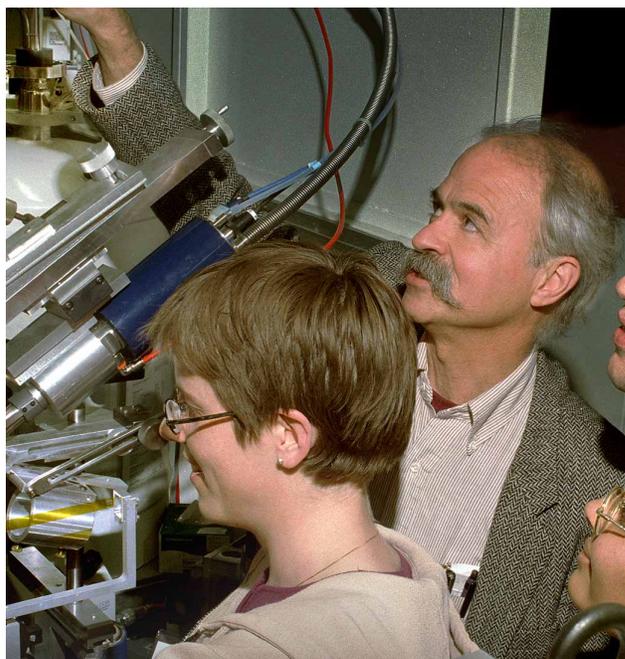
Robert Sweet, For his leading role in developing world-class protein crystallography facilities at the National Synchrotron Light Source (NSLS), Scientist Robert Sweet was recommended for tenure by Biology Department Chair Carl Anderson.

“Under Bob’s leadership, Biology’s protein crystallography beamlines at the NSLS have become some of the most scientifically productive and sought-after in the world,” commented Anderson.

“Not only has Bob taken the lead in developing software and instrumentation to increase synchrotron crystallography productivity, but he has also acted upon a steadfast commitment to making the power of synchrotron crystallography available to even novice users,” noted the Chair.

In addition, Sweet is cited for his original, collaborative research into enzyme kinetics.

Robert Sweet received his 1970 Ph.D. in physical chemistry from the University of Wisconsin. He came to Brookhaven in 1983, to develop beamline X12C. In 2000, he was a co-recipient of BNL’s Science & Technology Award for contributions to the development and use of NSLS protein crystallography beamlines.



Bob Sweet (BNL) with Emma Jakobsson from Uppsala Univ.

Xijie Wang, For his outstanding contributions to the development, operation, and utilization of the Accelerator Test Facility (ATF), Xijie Wang, ATF Deputy Head, was recommended for tenure by Samuel Krinsky, former acting Chairman of the National Synchrotron Light Source Department.

"Of special note is Xijie's work advancing the state of the art in generating and characterizing high-brightness electron beams," Krinsky said. "He has been able to demonstrate a high level of technical innovation, while being involved in day-to-day ATF operations and providing his technical expertise to its users." Wang has played a leading role in developing advanced versions of the ATF's photocathode electron guns. In developing electron-beam diagnostics, he has specialized in measuring electron bunches down to a few microns in length.

Xijie Wang received his Ph.D. in accelerator physics from the University of California at Los Angeles in 1992. He came to BNL in 1993 as an assistant physicist and was promoted to associate physicist in 1995 and to physicist in 1997.



Xijie Wang

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