

William R. Wiley

EMSL In Brief

Environmental Molecular Sciences Laboratory

Weber Selected Inaugural Fellow in Materials Research Society

Bill Weber, a user of the Department of Energy's Environmental Molecular Sciences Laboratory, was selected as an inaugural Fellow in the Materials Research Society. This is the first year, since being founded in 1973, that the society has honored notable members for their contributions to advancing materials research. Weber received this honor for his "seminal contributions, leadership, mentoring and innovative research on defects, defect properties, ion-solid interactions, radiation effects and models of radiation damage processes in glasses and ceramics."

"Career-wise, I almost grew up with the MRS," said Weber with a smile, "and to be selected the first time they had fellows was a significant recognition."

Weber's research is focused on the fundamental understanding and accurate modeling of the effects of atomic-level defects and radiation on ceramics. This research is essential for advancing electronic devices, developing radiation-tolerant materials for new nuclear power reactors, and addressing concerns regarding the stability of nuclear waste.



Bill Weber

Because of his strong belief in sharing his work with the broader scientific community, Weber has authored or co-authored more than 350 peer-reviewed publications and 50 technical reports, many of which have been cited extensively. For example, in the MRS *Journal of Materials Research* and *MRS Bulletin*, his 21 articles have earned more than 840 citations. Currently, he is finishing a 6-year stint as a principal editor and member of the editorial board on the *Journal of Materials Research*.

In addition to his research and publishing, Weber takes the time to mentor new scientists at Pacific Northwest National Laboratory, where he is a Laboratory Fellow. While reviewing papers and discussing comments is a painful chore to some, Weber enjoys the stimulating conversations and watching new scientists grow in their career.

For more information, contact EMSL Communications Manager Mary Ann Showalter (509-371-6017).

P.O. Box 999 Richland, WA 99352 • <http://www.emsl.pnl.gov> • 509-376-2553