Amy V. Walker
Region: North America

Amy Walker is an Associate Professor of Materials Science and Engineering, University of Texas at Dallas. She was previously an Assistant Professor of Chemistry and an inaugural member of the Center for Materials Innovation at Washington University in St. Louis, which she joined in 2002. She holds a B.A. in physics and a Ph.D. in chemistry from Cambridge University in England. She was awarded the ACS Progress/Dreyfus Lectureship in 2008, a DuPont Young Professor Grant in 2006 and a Ralph E. Powe Junior Faculty Enhancement Award in 2003.

Her research concerns the development of simple, robust methods for constructing complex two- and three- dimensional structures by manipulating interfacial chemistry, as well as surface/imaging analytical techniques for probing the structures produced. The primary technique employed in her research group is TOF SIMS, and she has an active program in the development of TOF SIMS methods, including development of a new matrix-enhanced SIMS method using ionic liquid matrices.

Amy has actively participated in helping to organize several SIMS conferences, including SIMS XV (International Scientific Advisory Committee) and SIMS XVII (International Scientific Program Committee). She was the academic organizer of the 2007 NSF Nanoscale Science and Engineering conference, and has organized sessions at the AVS Symposium and SIMS Workshop. She is also an active member of AWIS and ACS, organizing and participating in undergraduate poster sessions and “Women into Science” days.