

Richard K. Brow

Curators' Professor
Materials Science & Engineering
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Richard Brow received a bachelor's degree in ceramic engineering and a master's degree in glass science from Alfred University in 1980 and 1982, respectively. He was awarded a PhD in ceramic science from the Pennsylvania State University in 1985. Brow was a member of the technical staff in the ceramic development division of Sandia National Labs in Albuquerque, NM, from 1985 through 1997, where he was responsible for developing new glass compositions for a variety of electronic and optoelectronic applications. Brow joined the Missouri S&T (then called the University of Missouri-Rolla) faculty in 1998 as a professor of ceramic engineering and a senior investigator in the Graduate Center for Materials Research. He was named chair of the ceramic engineering department in 2001 and in 2004, he became chair of the new Materials Science and Engineering Department. After finishing his appointment as chair in 2007, he returned to his full-time faculty position, where he teaches undergraduate and graduate courses on glass science and technology, and kinetic processes, and leads his research group of graduate students, undergraduate students, post-docs, and visiting faculty.

Brow has published over 170 research papers on the properties, structures, and applications of glasses, and has received eleven US patents for specialty glasses used in a variety of packaging applications. He has received a number of awards and recognitions, including the George W. Morey Award (2004) from the American Ceramic Society for 'new and original work in glass science and technology', the Gottardi Prize from the International Commission on Glass (1996) for contributions to glass science by a young researcher, and the PACE-Schwartzwalder award (1994) as the nation's outstanding young ceramic engineer. He delivered the Scholes Lecture in 2009 (Alfred University), for 'significant contributions to the field of glass science', and the Cooper Lecture (2010). He has received several teaching awards from Missouri S&T, and was named 'Curators' Professor' in 2005, and received the Presidential Award for Research and Creativity in 2010. Dr. Brow is a fellow of the American Ceramic Society (1997) and the Society of Glass Technology (2005). He has served on the Board of Directors of ACerS (2007-2009), and was named President-Elect of ACerS for 2011-12.