

Brief Biographical Statement

James A. Middleton

James A. Middleton is Professor of Mathematics Education, Associate Senior Vice Provost, and Director of the Center for Research on Education in Science, Mathematics, Engineering, and Technology at Arizona State University. Jim's research interests focus in the following areas where he has published extensively: Children's mathematical thinking; Teacher and Student motivation in mathematics; and Teacher Change in mathematics. He has also written on effective uses of educational technology in mathematics and science education as a natural outgrowth of these interests. To fund his research, Jim has garnered over \$20 million in grants to study and improve mathematics education in urban schools. He just finished a \$1.8 million research grant to model the longitudinal development of fractions, rational number and proportional reasoning knowledge and skills in middle school students, and is currently engaged in a project studying the sustainability of changes in urban elementary teachers' mathematics practices. All of his work has been conducted in collaborative partnerships with diverse, economically challenged, urban schools. This relationship has resulted in a significant (positive) impact on the direction that partner districts have taken, including a significant increase in mathematics achievement in the face of a rising poverty rate.

In the area of service to the mathematics education community, Dr. Middleton served for three years on the National Council of Teachers of Mathematics *Research Committee*, chairing that committee in 2006. In that capacity the Committee published a call, in *JRME*, to mobilize the mathematics education community to actively develop a collective research agenda that has the potential to directly improve teaching and learning in schools. He served as primary author for that call. This call has led to the establishment of a major strategic initiative of the NCTM devoted to Linking Research and Practice. He has served on several task forces for the NCTM, is a regular reviewer for the NSF and the Department of Education, and serves on the Boards of several regional and national-level research centers. He has been a consultant for the Rand Corporation, the National Academies, the American Statistical Association, the Institute for Electrical and Electronics Engineers, and numerous school systems around the country.