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**Sharon L. Senk\*** ([senk@math.msu.edu](mailto:senk@math.msu.edu)), Department of Mathematics, 320 Wells Hall, East Lansing, MI 48895. *Mathematical Knowledge for Teaching Algebra: Recent Recommendations and Research.*

Algebra is the foundation for much of secondary school and undergraduate mathematics. However, many students leaving high school have a weak understanding of algebra, and average secondary school achievement in algebra in the U.S. is lower than in many other countries. Thus, it is important to examine what kinds of knowledge might enable more effective teaching of algebra in secondary schools. This session will present recent recommendations from scholars and professional societies about knowledge for teaching algebra, and describe recent research investigating mathematical knowledge for teaching algebra among groups of pre-service and in-service teachers in the U.S. and abroad. (Received August 27, 2008)