

Meeting: 1003, Atlanta, Georgia, MAA CP O1, MAA Session on Teaching and Assessing Problem Solving

1003-O1-1 **Juli D'Ann Ratheal*** (jratheal@mail.wtamu.edu), WTAMU Box 60787, West Texas A & M University, Canyon, TX 79015. *Strategies for Designing Critical Thinking Lessons*. Preliminary report.

Session will explore teaching strategies based on a variety of developmental and critical thinking theories. Bloom's Taxonomy and Polya's problem solving steps will be the primary focal points aimed at addressing lessons rich in critical thinking opportunities. The session will address the following goals: correlation between Bloom's Taxonomy and Polya's problem solving steps; how to design activities and lessons that will elicit critical thinking; and how to incorporate Bloom's, Piaget's, Ericson's, and Polya's theories into the teaching of mathematics in order to maximize critical thinking. (Received March 08, 2004)