

You are cordially invited to attend the
MSU Mathematics Education Colloquium



Presented by:
Jinfa Cai

University of
Delaware

Friday,
October 10, 2014

10:00 – 11:30 a.m.
252 Erickson Hall
MSU

***Building a Knowledge Base and Intellectual Capacity in
Mathematics Education: Promises and Challenges***

In this presentation, I will start with a discussion of the conceptualization of the New NCTM *Handbook of Research on the Teaching and Learning of Mathematics*. The discussion will be situated in the context of building a knowledge base and capacity in mathematics education. Then, I will use the curriculum chapter in the handbook and our own LieCal Project as examples to discuss the promises and challenges for building a knowledge base and intellectual capacity. Through an examination of historical methodological/theoretical milestones in research on curriculum, I will particularly discuss the methodological challenges in this line of research. Finally, the presentation will conclude with a discussion of a mathematical model of marriage and the lessons it holds for mathematics education research with respect to build a knowledge base and intellectual capacity.

Jinfa Cai received his Ph.D. in Cognitive Studies in Mathematics Education and a Minor in Research Methodology at the University of Pittsburgh. Currently, he is a Professor of Mathematics Education and Director of Secondary Math Teacher Education at the University of Delaware. He is interested in how students learn mathematics and solve problems as well as how teachers can provide and create learning environments so that students can make sense of mathematics.

The Program in Mathematics Education sponsors this event.