



Wisconsin Mathematics Council, Inc.  
42<sup>nd</sup> Annual Conference • May 6-7, 2010

Pre-conference • May 5, 2010  
Green Lake Conference Center, Green Lake, WI

Annual WMC Leadership Pre-Conference Workshop  
May 5, 2010 • 8:30 a.m.-4:00 p.m.

## Professional Development Practices that Support the Development of K-12 Teachers' Mathematical Knowledge for Teaching

(Limited to 100 Participants — Register Early to Avoid Disappointment)

This session will examine issues and challenges professional development leaders face in developing professional learning committees focused on deepening teachers' mathematical knowledge for teaching. Video clips drawn from actual PD situations where teachers are engaged in doing mathematics provide a concrete "case" that will be used to examine and discuss some of the key issues leaders face in trying to deepen teachers' mathematical and pedagogical content knowledge.

The case experience will be adapted from *Learning to Lead Mathematics Professional Development*, a set of leadership development materials created with National Science Foundation (NSF) funding. Participants will consider:

- how leaders design and facilitate PD that helps develop teachers' knowledge, skills and abilities to orchestrate challenging mathematical tasks.
- the importance of having clearly articulated purposes in designing professional development opportunities.
- how these ideas relate to their own work through a "Connecting to Practice" activity where they analyze a set of teacher work and reflect on how and what to share in light of a particular purpose.



Cathy Carroll, Senior Research Associate/Project Director at WestED, is involved in several mathematics education projects. She currently co-directs a NSF funded project, Researching Mathematics Leader Learning. Cathy is co-author of *Learning to Lead Mathematics Professional Development* and *Making Mathematics Accessible to English Learners*. Previously, Cathy was Director of the Mathematics Renaissance Leadership Alliance, an initiative funded by the California Department of Education to develop teacher leadership and administrative support for quality mathematics programs. Earlier, she served as associate director for Mathematics Renaissance K-12 and regional director for the Middle Grades

Mathematics Renaissance. Cathy also has nearly twenty years experience teaching middle school mathematics.

To register for the pre-conference workshop or for complete  
conference information, go to [www.wismath.org](http://www.wismath.org)

