

A FOCUS on MATHEMATICS COLLOQUIUM

Knowing Mathematics Well Enough to Teach It: What More Does that Take?

****NEW SPEAKER**** Heather Hill

Heather C. Hill is an associate professor at the Harvard Graduate School of Education and the principal investigator for Learning Mathematics for Teaching (LMT), a project funded by the National Science Foundation to investigate the mathematical knowledge needed for teaching, and how such knowledge develops as a result of experience and professional learning.

Although most would agree that effective teaching requires subject matter knowledge, there is surprisingly little agreement on the specific nature of the mathematical knowledge needed to teach. Our research on the mathematical demands of teaching has led to a practice-based theory of mathematical knowledge for teaching (MKT) that we have tested empirically and validated in four different studies. What it reveals is that there are aspects of the content knowledge needed for teaching that are specialized for the work, while others have more in common with the mathematical knowledge used in other contexts, including the discipline itself. What have we learned so far about defining mathematical knowledge for teaching, and what are the next steps for this program of research?

Date: October 17, 2007

Place: BOSTON UNIVERSITY

Registration: 4:00 – 4:30p.m.

8 St. Mary's Street

Colloquium: 4:30 – 5:30p.m.

Photonics Center, Room 906

Roundtable Discussion and Reception: 5:30 – 7:30p.m.

Colloquium begins promptly at 4:30p.m.

**** Limited Space: Please RSVP by October 10, 2007 ****

We must know ahead of time if you plan to attend in order to provide enough food and to reserve discounted parking! Please **RSVP** to karina@focusonmath.org

Directions to Boston University Photonics Center can be found online at
<http://www.bu.edu/photonics/contact/index.html>



Focus on Mathematics is a unique partnership of mathematicians and educators from Boston University, Education Development Center, Inc., Worcester Polytechnic Institute, UMass Lowell, Lesley University, and five Greater Boston school districts: Arlington, Chelsea, Lawrence, Waltham, and Watertown.



Funded by the National Science Foundation under grant EHR 0314692