

Focus on Mathematics Advisory Board Task Meeting

**Mathematics for Teaching:
Definition, Development, and Assessment**

Tuesday, May 25, 2004

*Rooms 135-137, Boston University Department of Mathematics
111 Cummington Street, Boston, Massachusetts*

8:30—8:35: Welcoming remarks and overview of goals for the meeting.

8:35—9:15: Introductions. How are the work and experience of each of us (mathematicians, educators, researchers, evaluators) connected to the topic?

9:15—9:45: Overview of the BU *Master of Mathematics for Teaching* (MMT) and *Certificate of Mathematics for Teaching* (CMT) programs.

History, rationale, current structure, the “prerequisite” dilemma.

9:45—10:15: Comments, criticisms, suggestions. We need your help!

10:15—10:30: Break

10:30—11:00: What are some examples of “mathematics for teaching?”

Experiences, conceptual structures, connections, generalizing, articulating ideas, problem solving, habits of thought, ...

11:00—11:30: Can we develop a working definition of “knowledge of mathematics for teaching?” What general mathematical knowledge is required? What knowledge is distinctive to the teaching profession?

11:30—12:00: How can university mathematics departments help prepare and sustain communities of teachers who are experts in mathematics for teaching?

12:00—12:30: The immersion experience. How does this differ from other professional development tools? Depth over breadth; centrality of experience. How can we make explicit the connections with effective teaching?

12:30—1:15: Lunch.

1:15—1:45: What are some indicators of knowledge of mathematics for teaching? What behavior would we expect to see from an expert in mathematics for teaching?

1:45—2:15: How can “knowledge of mathematics for teaching” be assessed?

2:15—2:45: Putting it all together. What programs are required for training experts in mathematics for teaching? How can we improve our programs in *Mathematics for Teaching*? What else can we do?

2:45—3:00: Recapitulation and concluding remarks.

Attendees:

First	Last	Affiliation	
Carol	Baldasari	Lesley University, PERG	
Deborah	Ball	University of Michigan	Conference Call
Hyman	Bass	Univ of Michigan	
Ava	Berinstein	Boston University	
Gail	Burrill	Michigan State University	
Herbert	Clemens	Ohio State University	
Al	Cuoco	Education Development Center	
Brad	Findell	University of Georgia	
Carol	Findell	BU, School of Education	
Wayne	Harvey	Education Development Center	
Kara	Karch	Education Development Center	Conference Call
Harvey	Keynes	University of Minnesota	
Sabra	Lee	Lesley University, PERG	
Penny	Noyce	Noyce Foundation	
Steve	Rosenberg	Boston University	
Glenn	Stevens	Boston University	
Jill	Vollmuth	Education Development Center	

The attendees below also took part in the lunch and the afternoon program

Ken	Brecher	BU, SMEC
Steve	Ellenwood	BU, SED
Chuck	Garabedian	Watertown, Executive Council Member
Art	Heinricher	WPI, Executive Council Member
Nancy	McLaughlin	Lawrence, Executive Council Member