

***Preparing High Quality Mathematics and Science Teachers for Grades 6-12***

Sponsored by

University of Missouri-Columbia:

Missouri Center for Mathematics and Science Teacher Education  
and  
Coalition for the Study of Alternative Routes to Certification (CSARC)

Wednesday, December 1, 2004  
5:30 p.m. to 9:00 p.m.

Thursday, December 2, 2004  
8:00 a.m. to 4:00 p.m.

Holiday Inn Executive Center  
2200 I-70 Drive SW  
Columbia, MO 65203  
573-445-8531

Conference Organizers

Sandra K. Abell  
Professor of Science Education  
Director, Southwestern Bell Science Education  
Center  
University of Missouri-Columbia  
abells@missouri.edu

Barbara Reys  
Distinguished Professor of Mathematics  
Education  
University of Missouri-Columbia  
reysb@missouri.edu

Jay Paredes Scribner  
Associate Professor of Educational Leadership and  
Policy Analysis  
University of Missouri-Columbia  
scribnerj@missouri.edu

Robert Reys  
Curator's Professor of Mathematics Education  
University of Missouri-Columbia  
reysr@missouri.edu

## Wednesday Evening Program

Room: Parliament 2 & 3

Hotel Check-In

5:30 – 6:00 p.m.

Registration (We will collect your data sheets at this time.)

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6:00 – 7:00 p.m.

Welcome

Dinner

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7:00 – 9:00 p.m.

Keynote & Discussion

Introduction: Robert Reys, University of Missouri-Columbia

Speaker: Jim Wilson, Professor of Mathematics Education,  
University of Georgia

Title: High Quality Mathematics Teacher Preparation for  
Career Change Persons

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## Thursday Morning Program

Room: Windsor 1  
(Breakouts in Parliament 1)

8:00 – 8:30	Continental Breakfast
8:30 – 9:00	<p>Plan for the day</p> <ul style="list-style-type: none"><li>• Sandra Abell, University of Missouri-Columbia</li></ul> <p>What do we want our future teachers to know and be able to do? Setting the framework for discussion.</p> <ul style="list-style-type: none"><li>• Kathryn Chval, University of Missouri-Columbia</li></ul>
9:00 – 10:00	<p><u>First Discussion:</u></p> <p>What kinds of subject matter preparation, and how much of it, do prospective teachers need? What are successful practices in Missouri teacher preparation institutions?</p> <p>Mathematics Education Group Facilitators:</p> <ul style="list-style-type: none"><li>• Bob Glasgow, Southwest Baptist University</li><li>• Larry Campbell, Southwest Missouri State University</li></ul> <p>Science Education Group Facilitators:</p> <ul style="list-style-type: none"><li>• Louis Odom, University of Missouri-Kansas City</li><li>• Pat Lucido, Northwest Missouri State University</li></ul>
10:00 – 10:15	Large Group Sharing Session
10:15 – 11:15	<p><u>Second Discussion:</u></p> <p>What kinds of pedagogical preparation, and how much of it, do prospective teachers need? What are successful practices in Missouri teacher preparation institutions?</p> <p>Mathematics Education Group Facilitators:</p> <ul style="list-style-type: none"><li>• Rita Barger, University of Missouri-Kansas City</li><li>• Christine Benson, Northwest Missouri State University</li></ul> <p>Science Education Group Facilitators:</p> <ul style="list-style-type: none"><li>• Gouranga Saha, Lincoln University</li><li>• Phyllis Balcerzak, Washington University</li></ul>
11:15– 11:30	Large Group Sharing Session
11:30-12:00	<p>Certification Status of Missouri's Mathematics and Science Teachers</p> <ul style="list-style-type: none"><li>• Mark Ehlert, University of Missouri-Columbia</li></ul>
12:00 – 12:45	LUNCH

## Thursday Afternoon Program

Room: Windsor 1

12:45 – 1:45

### Third Discussion:

What kinds, timing, and amount of clinical training best equip prospective teachers for classroom practice? What are successful practices in Missouri teacher preparation institutions?

- Barbara Reys, University of Missouri-Columbia

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1:45 -2:00

### Large Group Sharing Session

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2:00-2:45

The Characteristics of High Quality Mathematics and Science Teacher Education Programs

- Jay Scribner and Adam Bickford, University of Missouri-Columbia

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2:45-3:30

Recruiting Future Mathematics and Science Teachers ([www.teach-math-or-science.org](http://www.teach-math-or-science.org))

- Sandra Abell, University of Missouri-Columbia

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3:30-3:45

### Reaching Closure

- Jay Scribner and Sandra Abell, University of Missouri-Columbia

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3:45 – 4:00

### Conference Evaluation

- Marty Henry, M. A. Henry Consulting