

**CBMS**  
**FORUM**  
**ON THE**  
**CONTENT AND ASSESSMENT OF SCHOOL MATHEMATICS**  
**OCTOBER 4-6, 2009**

**Bill Steenken**

**CONFERENCE BOARD OF THE MATHEMATICS SCIENCES  
(CBMS)**

- American Mathematics Association of Two-Year Colleges
- American Mathematical Society
- Association of Mathematics Teacher Educators
- American Statistical Association
- Association for Symbolic Logic
- Association for Women in Mathematics
- Association of State Supervisors of Mathematics
- Benjamin Banneker Association
- Institute for Operations Research and the Management Sciences
- Institute of Mathematical Statistics
- Mathematical Association of America
- National Association of Mathematicians
- National Council of Supervisors of Mathematics
- National Council of Teachers of Mathematics
- Society for Industrial and Applied Mathematics
- Society of Actuaries

**FOCUS OF FORUM**

TO REVIEW THE “JUST RELEASED” STANDARDS FOR MATHEMATICS  
AND PROVIDE MATERIAL FOR A WHITE PAPER CRITIQUE OF THESE  
STANDARDS

**COLLEGE AND CAREER READINESS STANDARDS FOR MATHEMATICS**

- MATHEMATICAL PRACTICE
- NUMBER
- QUANTITY
- EXPRESSIONS
- EQUATIONS
- FUNCTIONS
- MODELING
- SHAPE
- COORDINATES
- PROBABILITY
- STATISTICS

## **ORGANIZATION OF CONFERENCE**

- **TWO KEYNOTE ADDRESSES**
  - Steve Robinson – Advisor to Secretary of Education
  - Freeman Hrabowski – President of the University of Maryland
  
- **PLENARY SESSIONS**
  - What are the features of a coherent math curriculum
  - What are the features of coherent assessment programs
  - What are the most important things we can do to improve teacher education
  
- **BREAKOUT SESSIONS**

## **BREAKOUT SESSIONS - CONTENT**

- Standards for Mathematics Practice in the Common Core
- Standards Number, Quantity, and Modeling in the Common Core
- Standards for Expressions, Equations and Functions in the Common Core
- Standards for Shape and Coordinates in the Common Core
- Standards for Probability and Statistics in the Common Core
- Meeting Standards with an Integrated Curriculum
- NCTM's *Focus on High School Mathematics: Reasoning and Sense Making*

**BREAKOUT SESSIONS - ASSESSMENT**

- Improving Large-scale Assessment: Can we Test Deeper Knowledge?
- Assessing K-12 Mathematics Programs – curriculum, student achievement, teacher effectiveness
- Assessing Mathematics Teacher Education Programs – curriculum, student engagement, faculty effectiveness
- Equity and Assessment
- Classroom Based Formative Assessment

## **BREAKOUT SESSIONS – TEACHER EDUCATION**

- Pre-Service Education of Teachers
- Content Based Professional Development

## **BREAKOUT SESSIONS - ALIGNMENT**

- Preparation for STEM Fields
- Preparation for non-STEM Fields, Quantitative Literacy
- Placement Testing
- HS to Work with Higher Ed Door Kept Open

## **MAJOR RESULTS OF CRITIQUE**

- More Emphasis on Quantitative Problem Solving Up Front (Not just in examples)
- Add a Strand on Data Analysis

**DRAFT**

**OF**

**COLLEGE AND CAREER READINESS STANDARDS FOR MATHEMATICS**

**CAN BE FOUND AT**

**[www.corestandards.org/Standards/index.htm](http://www.corestandards.org/Standards/index.htm)**