

AAAS science, mathematics, and technology education seminar

The Westin Crown Center
Kansas City, MO
23 June 2007



8:30 – 9:00

Continental breakfast

9:00 – 9:30

Introduction

1. Welcome from AAAS/NSBA staff and summary of preliminary information-gathering

Speakers: Joe Villani, Deputy Executive Director, NSBA
Connie Bertka, Program Director, AAAS
Dialogue on Science, Ethics, and Religion

2. Video presentation.

9:30 – 11:00

Session I: Introduction to science, mathematics, and technology education

1. Science education: Current issues and challenges in K-12 science education

Speaker: Joan Abdallah, Program Director, K-12 Programs,
AAAS Education and Human Resources

2. Mathematics education: Current issues and challenges in K-12 mathematics education

Speaker: Rita Barger, Assistant Professor, Curriculum &
Instructional Leadership Department, University of
Missouri, Kansas City

3. Technology education: Current issues and challenges in K-12 technology education

Speaker: Barry Burke, Director, Center to Advance the
Teaching of Technology & Science, International
Technology Education Association

11:00 – 11:15

Break

11:15 – 12:30

Session II: Science, mathematics, and technology literacy and the nature and use of standards

Speaker: Jo Ellen Roseman, Director, AAAS Project 2061

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12:30 – 1:30

Lunch

1:30 – 3:00

Session III: Public attitudes and community engagement

1. Public attitudes about science, mathematics, and technology education
2. Engaging communities on science, mathematics, and technology education
3. Navigating controversial issues through effective public engagement

Speakers: Alison Kadlec, Senior Research Associate, Public Agenda
Will Friedman, Director, Center for Advances in Public Engagement, Public Agenda

3:00 – 3:15

Break

3:15 – 4:45

Session IV: From information to action: Using the *Key Works of School Boards* as a framework for assuring high-quality science, mathematics and technology education.

1. Review of *Key Works* principles
2. Developing a community vision
3. Standards, assessments, accountability, and alignment
4. Climate and collaborative partnerships
5. Continuous improvement

Speaker and moderator: Joe Villani, NSBA
Panelists: Joan Abdallah, AAAS
Rita Barger, UMKC
Barry Burke, ITEA
Will Friedman, Public Agenda

4:45 – 5:00

Closing remarks

Speaker: Connie Bertka, AAAS