

National Science Board

**COMMISSION ON 21ST CENTURY EDUCATION IN
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS**

August 3-4, 2006
National Science Foundation, Room 1235
Arlington, VA

AGENDA

Thursday, August 3, 2006

Session I

1:30-1:40	Call the Meeting to Order Description of Federal Advisory Committee Rules	Dr. Crosby ¹
1:40-1:45	Opening of the Meeting	Dr. Lederman
1:45-1:55	Welcome Description of the National Science Board and its Charge to the Commission	Dr. Beerling
1:55-2:15	Commission Member Self-Introductions	
2:15-2:40	Imagining the Future: What Should 21 st Century STEM Education Look Like? Roundtable discussion of the vision and interests of the Commission Members as they relate to the charge to the Commission. Why will this Commission be more successful than all the previous Commissions?	
2:40-3:00	Break	

Session II

3:00-3:15	Overview of Inter-agency Academic Competitiveness Council	Mr. Shea
3:15-3:30	Discussion, Q&A	
3:30-3:35	Welcome from the National Science Foundation	Dr. Olsen
3:35-3:50	Overview of NSF Directorate of Education and Human Resources programs	Dr. Thompson
3:50-4:05	Discussion, Q&A	
<u>The Task Ahead of the Commission</u>		
4:05-4:15	Overview of previous reports: From ideas to action	Dr. Malcom
4:15-4:25	Implementing the vision: Our task is to create an action plan	Dr. Lederman
4:25-4:55	Discussion	
4:55-5:25	Public Comment Period ²	
<u>The Work Plan of the Commission</u>		
5:25-5:35	Proposed work plan	Dr. Vasquez
5:35-5:50	Discussion	
5:50-5:55	Announcements/Meeting Adjournment	Dr. Crosby ¹

Friday, August 4, 2006

Session III

8:30-8:35	Call the Meeting to Order	Dr. Crosby ¹
8:35-8:50	Update on <i>Rising Above the Gathering Storm</i>	Mr. Augustine
8:50-10:00	Roundtable Discussion with Mr. Augustine Moderated by Commission Co-Chairmen	Dr. Lederman/ Dr. Malcom

Commission Charge as it Relates to the Current Policy Context
Rising Above the Gathering Storm, National Mathematics
Advisory Panel, NCLB Science Testing in 2007

Barriers to and Enablers of Implementing an Action Plan
Legislative and policy concerns; role of higher education;
research into education; scaling up worthy efforts; economics of
STEM education reform

Specific Topics in the Charge to the Commission
Availability of competent teachers; Adequacy and currency of
curricula, materials, and facilities; Promotion, graduation, and
higher education requirements; Engagement of full range of
potential talents; Transition points in education career; Investment
in educational research; Strategies that can be employed
nationwide; General and pre-professional training

10:00-10:20

Break

Session IV

10:20-12:00	Work Plan Discussion Moderated by Commission Vice-Chairman	Dr. Vasquez
	<u>Objective of the Commission</u> Effective, realistic, affordable, and politically acceptable long-term solution directed both to the Nation and NSF	
	<u>Agreement on Work Plan</u> Timeline and Next Steps Topics and Chairmen/Members of Working Groups Work Procedures	
12:00-12:15	Summary of Next Steps	Dr. Lederman/Dr. Malcom
12:15-12:20	Meeting Adjournment	Dr. Crosby ¹

¹ According to Federal Advisory Committee (FAC) regulations, the Designated Federal Official (DFO) must convene and adjourn FAC meetings. Dr. Crosby is the DFO for the Commission.

² For those unable to speak during this limited time and others who may wish to do so, written comments may be submitted to the Commission at NSBEdCom@nsf.gov or Commission on 21st Century Education in STEM, c/o Dr. Elizabeth Strickland, National Science Board Office, 4201 Wilson Boulevard, Room 1220, Arlington, VA 22230.

Meeting Participants

Commission on 21st Century Education in Science, Technology, Engineering, and Mathematics

Dr. Leon M. Lederman (Commission Co-Chairman)

Dr. Shirley M. Malcom (Commission Co-Chairman)

Dr. Jo Anne Vasquez (Commission Vice-Chairman)

The Honorable Nancy Kassebaum Baker

Mr. Ronald D. Bullock

Dr. Karen Symms Gallagher

Dr. James M. Gentile

Ms. Maria Lopez-Freeman

Dr. Maritza B. Macdonald

Mr. Timothy D. McCollum

Dr. Cindy Y. Moss

Mr. Larry G. Prichard

The Honorable Louis Stokes

National Science Board

Dr. Steven C. Beering, Chairman

Dr. Michael P. Crosby, Executive Officer

Invited Speakers

Mr. Norman Augustine Retired Chairman and CEO, Lockheed Martin Corporation *and* Chair, Committee on Prospering the Global Economy of the 21st Century

Mr. Robert J. Shea Counselor to the Deputy Director for Management, Office of Management and Budget

Dr. Kathie L. Olsen Deputy Director,
National Science Foundation

Dr. Donald E. Thompson Acting Assistant Director,
Directorate for Education and Human Resources,
National Science Foundation