

# 2007 Current Fiscal Year Report: Commission on 21st Century Education in Science, Technology, Engineering, and Mathematics

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|  |                                       |
|--|---------------------------------------|
| <b>1. Department or Agency</b><br>National Science Foundation  | <b>2. Fiscal Year</b><br>2007         |
| <b>3. Committee or Subcommittee</b><br>Commission on 21st Century Education in Science, Technology, Engineering, and Mathematics | <b>3b. GSA Committee No.</b><br>29127 |

|   |   |   |  |
|---|---|---|--|
| <b>4. Is this New During Fiscal Year?</b><br>No | <b>5. Current Charter</b><br>05/04/2006 | <b>6. Expected Renewal Date</b><br>05/04/2008 | <b>7. Expected Term Date</b><br>05/04/2008 |
|---|---|---|--|

|  |  |   |
|--|--|---|
| <b>8a. Was Terminated During Fiscal Year?</b><br>Yes | <b>8b. Specific Termination Authority</b><br>NSB meeting 3/30/07, doc no.: NSB-07-33 | <b>8c. Actual Term Date</b><br>03/30/2007 |
|--|--|---|

|   |   |                                  |
|---|---|----------------------------------|
| <b>9. Agency Recommendation for Next Fiscal Year</b><br>Terminate | <b>10a. Legislation Req to Terminate?</b><br>No | <b>10b. Legislation Pending?</b> |
|---|---|----------------------------------|

|  |  |   |                                     |                                 |
|--|--|---|-------------------------------------|---------------------------------|
| <b>11. Establishment Authority</b><br>Agency Authority | <b>12. Specific Establishment Authority</b><br>NSF Determination | <b>13. Effective Date</b><br>04/10/2006 | <b>14. Committee Type</b><br>Ad hoc | <b>14c. Presidential?</b><br>No |
|--|--|---|-------------------------------------|---------------------------------|

**15. Description of Committee** National Policy Issue Advisory Board

**16a. Total Number of Reports** 1

|                                       |  |
|---------------------------------------|--|
| <b>16b. Report Date</b><br>03/15/2007 | <b>Report Title</b><br>Draft Report to the National Science Board of the Commission on 21st Century Education in Science, Technology, Engineering, and Mathematics |
|---------------------------------------|--|

**Number of Committee Reports Listed:** 1

**17a. Open** 6 **17b. Closed** 0 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 6

**Meetings and Dates**

| <b>Purpose</b>   | <b>Start</b> | <b>End</b>   |
|--|--------------|--------------|
| To discuss preliminary draft recommendations                     | 11/20/2006   | - 11/21/2006 |
| To discuss preliminary draft recommendations                     | 12/22/2006   | - 12/22/2006 |
| To discuss preliminary draft recommendations                     | 01/10/2007   | - 01/10/2007 |
| To discuss draft recommendations relating to K-12 STEM education | 01/18/2007   | - 01/18/2007 |
| To discuss preliminary draft recommendations                     | 02/21/2007   | - 02/21/2007 |
| To discuss draft report  | 03/08/2007   | - 03/08/2007 |

**Number of Committee Meetings Listed:** 6

**Current FY Next FY**

|   |              |        |
|---|--------------|--------|
| <b>18a(1). Personnel Pmts to Non-Federal Members</b>                  | \$0.00       | \$0.00 |
| <b>18a(2). Personnel Pmts to Federal Members</b>                      | \$0.00       | \$0.00 |
| <b>18a(3). Personnel Pmts to Federal Staff</b>                        | \$90,000.00  | \$0.00 |
| <b>18a(4). Personnel Pmts to Non-Member Consultants</b>               | \$0.00       | \$0.00 |
| <b>18b(1). Travel and Per Diem to Non-Federal Members</b>             | \$167,000.00 | \$0.00 |
| <b>18b(2). Travel and Per Diem to Federal Members</b>                 | \$0.00       | \$0.00 |
| <b>18b(3). Travel and Per Diem to Federal Staff</b>                   | \$14,400.00  | \$0.00 |
| <b>18b(4). Travel and Per Diem to Non-member Consultants</b>          | \$0.00       | \$0.00 |
| <b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b> | \$573,475.00 | \$0.00 |
| <b>18d. Total</b>   | \$844,875.00 | \$0.00 |
| <b>19. Federal Staff Support Years (FTE)</b>                          | 1.50         | 0.00   |

**20a. How does the Committee accomplish its purpose?**

The Commission will provide advice and recommendations to the National Science Board (NSB) on a broad range of policy issues dealing with science, technology, engineering, and mathematics education. The Board expects the scope of the Commission's advice and recommendations to address pre-K-16 education. The Commission will employ various data-gathering tools, including public hearings to solicit the opinions of experts in relevant disciplines. The Commission will analyze the information it collects to develop a report to the Board that will include advice and recommendations on science, technology, engineering, and mathematics education.

**20b. How does the Committee balance its membership?**

The membership will be balanced to reflect the wide diversity of professional specialties relevant to science, technology, engineering, and mathematics education. The Board will invite and request nominations from the public.

**20c. How frequent and relevant are the Committee Meetings?**

Estimated Number of Meetings per Year - 3 Estimated Total Meetings - 6

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

No other agency has a statutory responsibility for education across all of the science, technology, engineering, and mathematics disciplines. The National Science Board's Commission will address STEM education with a forward-looking scope that is beyond that of existing NSB or NSF committees. The existing NSB and NSF committees focus on oversight for education and are responsible for specific ongoing NSF programs. The information sought by the National Science Board's Commission will encompass all of these science, technology, engineering, and mathematics disciplines and is not available

from other sources. The Commission will conduct data gathering activities that will ensure the Board has recommendations for all relevant fields based on high quality data that can be compared across these fields.

## 20e. Why is it necessary to close and/or partially closed committee meetings?

## 21. Remarks

At its March 30, 2007 meeting, the National Science Board determined that the Board Commission on 21st Century Education in Science, Technology, Engineering, and Mathematics (STEM) fulfilled its charge to provide the Board with advice and recommendations for a "bold new action plan" for U.S. K-12 STEM education. The Board discharged the Commission as a Federal advisory committee with thanks to the Commission Co-Chairmen and Members.

## Designated Federal Officer

Michael P. Crosby Executive Officer, National Science Board Office

| Committee Members    | Start      | End        | Occupation  | Member Designation                       |
|----------------------|------------|------------|---|--|
| Baker, Nancy         | 05/04/2006 | 05/03/2008 | Former United States Senator                        | Special Government Employee (SGE) Member |
| Boggs, George        | 05/04/2006 | 05/03/2008 | American Association of Community Colleges          | Special Government Employee (SGE) Member |
| Bullock, Ronald      | 05/04/2006 | 05/03/2008 | Bison Gear and Engineering                          | Special Government Employee (SGE) Member |
| Gallagher, Karen     | 05/04/2006 | 05/03/2008 | University of Southern California                   | Special Government Employee (SGE) Member |
| Gentile, James       | 05/04/2006 | 05/03/2008 | Research Corporation                                | Special Government Employee (SGE) Member |
| Herschbach, Dudley   | 05/04/2006 | 05/03/2008 | Harvard University                                  | Special Government Employee (SGE) Member |
| Lederman, Leon       | 05/04/2006 | 05/03/2008 | Illinois Mathematics and Science Academy            | Special Government Employee (SGE) Member |
| Lopez-Freeman, Maria | 05/04/2006 | 05/03/2008 | California Science Project                          | Special Government Employee (SGE) Member |
| Macdonald, Maritza   | 05/04/2006 | 05/03/2008 | American Museum of Natural History                  | Special Government Employee (SGE) Member |
| Malcom, Shirley      | 05/04/2006 | 05/03/2008 | American Association for the Advancement of Science | Special Government Employee (SGE) Member |
| McCollum, Timothy    | 05/04/2006 | 05/03/2008 | Charleston Middle School                            | Special Government Employee (SGE) Member |
| Moss, Cindy          | 05/04/2006 | 05/03/2008 | Charlotte/Mecklenburg Public Schools                | Special Government Employee (SGE) Member |
| Prichard, Larry      | 05/04/2006 | 05/03/2008 | Carter County Schools                               | Special Government Employee (SGE) Member |
| Stokes, Louis        | 05/04/2006 | 05/03/2008 | Former United States Congressman                    | Special Government Employee (SGE) Member |
| Vasquez, Jo Anne     | 05/04/2006 | 05/03/2008 | Mesa Public Schools                                 | Special Government Employee (SGE) Member |

**Number of Committee Members Listed: 15**

**Narrative Description**

The Commission provides advice and recommendations to the National Science Board on K-12 STEM education

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- Improvements to health or safety
- Trust in government
- Major policy changes
- Advance in scientific research
- Effective grant making
- Improved service delivery
- Increased customer satisfaction
- Implementation of laws or regulatory requirements
- Other

**Outcome Comments**

NA

**What are the cost savings associated with this committee?**

Checked if Applies

- None
- Unable to Determine
- Under \$100,000
- \$100,000 - \$500,000
- \$500,001 - \$1,000,000
- \$1,000,001 - \$5,000,000
- \$5,000,001 - \$10,000,000
- Over \$10,000,000
- Cost Savings Other

**Cost Savings Comments**

NA

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

**Number of Recommendations Comments**

On March 15, 2007, the committee provided an approximately 30-page final draft report to the National Science Board containing 10 broad recommendations

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

70%

**% of Recommendations Fully Implemented Comments**

Approximately 70% of the Commission's recommendations were incorporated into the National Science Board's National Action Plan for Addressing the Critical Needs of the U.S. Science, Technology, Engineering, and Mathematics Education System. The complete final draft report of the Commission was included as an appendix in the Board's National Action Plan and presented to Congress.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

0%

**% of Recommendations Partially Implemented Comments**

N/A

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes  No  Not Applicable

**Agency Feedback Comments**

Committee Members were sent copies of the National Science Board's draft and final National Action Plan to Address the Critical Needs of the U.S. Science, Technology, Engineering, and Mathematics Education System (NSB-07-114)

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

- Reorganized Priorities
- Reallocated resources
- Issued new regulation

- Proposed legislation
- Approved grants or other payments
- Other

**Action Comments**

The Commission's advice to the National Science Board was incorporated into the Board's National Action Plan for STEM Education. This advice included recommendations for the reorganization of priorities, the reallocation of resources, and proposed legislation.

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

- Contact DFO
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site
- Publications
- Other

**Access Comments**

n/a