

## Science, Technology, Engineering, and Mathematics (STEM) Education

### ADA462518

Review and Appraisal of the Federal Investment in STEM Education Research.

Executive Office of the President, Washington, DC.  
National Science and Technology Council.  
2006, 107p

#### Related Categories/Sub-Categories:

70B (Management Practice)  
92D (Education, Law, & Humanities)  
92 (Behavior & Society)

**Keywords:** \*United States Government, Education, Review.

### PB2012100718

Building the Twenty First Century: U.S.-China Cooperation on Science, Technology, and Innovation. Summary of a Symposium.  
National Research Council, Washington, DC.  
Board on Science, Technology, and Economic Policy.  
2011, 217p

#### Related Categories/Sub-Categories:

92E (International Relations)  
92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)  
41P (Research Program Administration & Technology Transfer)  
96 (Business & Economics)  
**Keywords:** Technology innovation, International cooperation, Universities.



### PB2013104280

Title IX and Access to Courses and Programs in Science, Technology, Engineering, and Math (STEM).  
Department of Education, Washington, DC.  
2012, 56p

#### Related Categories/Sub-Categories:

92D (Education, Law, & Humanities), 92C (Social Concerns)  
**Keywords:** Courses, Programs, Postsecondary education.

### PB2013104450

U.S. Department of the Interior STEM Education and Employment Pathways Strategic Plan Fiscal Years 2013-2018.  
Geological Survey, Reston, VA.  
2013, 34p

#### Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)  
70B (Management Practice)  
**Keywords:** Education, Employment, Strategic planning.

### ADA462148

Science, Technology, Engineering, and Mathematics (STEM) Education Issues and Legislative Options.  
Congressional Research Service, Washington, DC.  
2006, 36p  
CRS-RL33434

#### Related Categories/Sub-Categories:

92D (Education, Law, & Humanities)  
92C (Social Concerns)  
**Keywords:** Education, Students, Engineering.

### Newsletter

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**PB2013105687**

Coordinating Federal Science, Technology, Engineering, and Mathematics (STEM) Education Investments: Progress Report.

National Science and Technology Council, Washington, DC. 2012, 65p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70B (Management Practice)  
70E (Research Program Administration & Technology Transfer)  
70F (Public Administration & Government)

**Keywords:** Federal budgets, Education, Scientists.

**PB2013105693**

Prepare and Inspire: K-12 Education in Science, Technology, Engineering, and Math (STEM) for America's Future. Report to the President.

President's Council of Advisors on Science and Technology, Washington, DC. 2010, 142p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70B (Management Practice)  
70E (Research Program Administration & Technology Transfer)  
70F (Public Administration & Government)

**Keywords:** Education, Scientists, Engineers.

**PB2013105356**

STEM Workforce Challenge: The Role of the Public Workforce System in a National Solution for a Competitive Science, Technology, Engineering, and Mathematics (STEM) Workforce.

Employment and Training Administration, Washington, DC. 2007, 20p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
92A (Job Training & Career Development)

**Keywords:** Education, Workforce, Employment.

**PB2013105357**

Preparing the Next Generation of STEM Innovators: Identifying and Developing Our Nations Human Capital.

National Science Board, Arlington, VA. 2010, 62p

NSB-10-33

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
96F (Banking & Finance)  
70E (Research Program Administration & Technology Transfer)

**Keywords:** Education, Students, Innovation.

**PB2013105358**

State of Arizona, Department of Education State Report Card, 2011-2012.

Arizona Dept. of Education, Phoenix. 2012, 30p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92C (Social Concerns), 43C (Human Resources), 91K (Social Services)

**Keywords:** Education, Arizona, Reading.

**PB2013105359**

Postsecondary Awards in Science, Technology, Engineering, and Mathematics, by State: 2001 and 2009. Web Tables.

RTI International, Research Triangle Park, NC. 2011, 191p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
96F (Banking & Finance)

**Keywords:** Postsecondary education, Awards, Academics.

**PB2013105360**

One Oklahoma: A Strategic Plan for Science and Technology in Oklahoma, 2012. Building Oklahoma's Science and Technology Enterprise.

Oklahoma Dept. of Commerce, Oklahoma City. Oklahoma State Data Center. Oklahoma Center for Advancement of Science and Technology, Oklahoma City. 2012, 48p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)

**Keywords:** Science, Technology, Oklahoma.

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**PB2013105361**

Evaluation of the Effectiveness of the Alabama Math, Science, and Technology Initiative (AMSTI). Abt Associates, Inc., Washington, DC. Academy for Educational Development, Inc., Washington, DC. 2012, 314p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92C (Social Concerns)  
70E (Research Program Administration & Technology Transfer)

**Keywords:** Education, Math, Science, Alabama.

**PB2013105362**

Science, Technology, Engineering, and Mathematics (STEM) Education: Background, Federal Policy, and Legislative Action (Updated March 21, 2008).

Congressional Research Service, Washington, DC. Domestic Social Policy Division 2008, 34p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92C (Social Concerns)

**Keywords:** Education, Legislation, Innovation.

**PB2013105363**

Mega-States: An Analysis of Student Performance in the Five Most Heavily Populated States in the Nation.

Educational Testing Service, Princeton, NJ. 2013, 33p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70B (Management Practice), 72F (Statistical Analysis)

**Keywords:** Education, Students, Performance.

**Key to Database Fields Used**

The following NTIS database fields are used in this short listing of recently acquired technical reports.

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### Major Subject Categories

Category Codes*/Title	New for February Quantity**
41 Manufacturing Technology	12
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79 Ordnance	21
81 Combustion, Engines, & Propellants	26
82 Photography & Recording Devices	4
84 Space Technology	85
85 Transportation	118
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89 Building Industry Technology	23
90 Government Inventions for Licensing	0
91 Urban & Regional Technology & Development	238
92 Behavior & Society	217
94 Industrial & Mechanical Engineering	50
95 Biomedical Technology & Human Factors Engineering	35
96 Business & Economics	109
97 Energy	101
98 Agriculture & Food	70
99 Chemistry	50

\* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

\*\* Quantities represent each new report assigned on average to 3-5 categories.

**PB2011104697**

Nation's Report Card: Science 2009. National Assessment of Educational Progress at Grades 4, 8, and 12.

National Center for Education Statistics, Washington, DC.

2011, 82p

NCES-2011-451

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)

**Keywords:** Science education, Statistics, Achievement tests.

**PB2011106371**

Nation's Report Card: Science 2009. Trial Urban District Assessment Results at Grades 4 and 8.

National Center for Education Statistics Washington, DC. Institute of Education Sciences.

2011, 87p

NCES 2011-452

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)

**Keywords:** Science education, Statistics, Achievement tests.

**PB2012109965**

Nation's Report Card: Science 2011. National Assessment of Educational Progress at Grade 8.

National Center for Education Statistics, Washington, DC.

2011, 27p

NCES-2012-465

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)

**Keywords:** Science education, Academic achievements, Assessments.

**ADA534871**

Department of Defense Science, Technology, Engineering, and Mathematics (STEM) Education Workshop on Computing Education.

Deputy Director of Defense Research and Engineering, Washington, DC.

2010, 40p

**Related Categories/Sub-Categories:**

74 (Military Sciences)

92D (Education, Law, & Humanities), 62B (Computer Software)

**Keywords:** Department of Defense, Computer programs, Education.

### Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

**ADA546699**

Scientific Approach To STEM Education. Office of Science and Technology Policy, Washington, DC. 2011, 34p

**Related Categories/Sub-Categories:**

70D (Personnel Management, Labor Relations & Manpower Studies)  
88D (Personnel), 92A (Job Training & Career Development)  
**Keywords:** \*United States, Students, Education, Mathematics.

**ADA547272**

Strengthening the STEM Education & Workforce Pipeline: Insights from the BHEF U.S. STEM Education Model Led to the STEM Higher Education and Workforce Project. Raytheon Co., Arlington, VA. 2011, 14p

**Related Categories/Sub-Categories:**

70D (Personnel Management, Labor Relations & Manpower Studies)  
88D (Personnel), 92A (Job Training & Career Development)  
92D (Education, Law, & Humanities)  
**Keywords:** Motivation, Education, Students.

**ADA554747**

Federal Science, Technology, Engineering, and Mathematics (STEM) Education Portfolio. A Report from the Federal Inventory of STEM Education Fast-Track Action Committee, Committee on STEM Education. Executive Office of the President, Washington, DC. National Science and Technology Council. 2011, 118p

**Related Categories/Sub-Categories:**

70D (Personnel Management, Labor Relations & Manpower Studies)  
88D (Personnel), 92A (Job Training & Career Development)  
41G (Quality Control & Reliability)  
94K (Laboratory & Test Facility Design & Operation)  
**Keywords:** Education, Personnel development, Scientific research.

**N20120003750**

Extravehicular Activity Systems Education and Public Outreach in Support of NASA's STEM Initiatives in Fiscal Year 2011. National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center. 2012, 15p

**Related Categories/Sub-Categories:**

92C (Social Concerns)  
**Keywords:** Education, Extravehicular activity, NASA programs.

**PB2013105263**

North Carolina's Science, Technology, Engineering, and Mathematics (STEM) Education Strategic Plan, 2012. North Carolina State Dept. of Public Instruction, Raleigh. 2012, 29p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)  
**Keywords:** Science, Technology, North Carolina.

**PB2013105268**

VISION2015: The West Virginia Science and Technology Strategic Plan. Revised 2012. West Virginia Education Policy Commission, Charleston. Science and Research Div. 2012, 20p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)  
**Keywords:** Science, Technology, West Virginia.

**PB2009105265**

Finding Out What Works: Agency Efforts to Strengthen the Evaluation of Federal Science, Technology, Engineering and Mathematics (STEM) Education Programs. National Science and Technology Council, Washington, DC. Committee on Transportation Research and Development. 2008, 40p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70F (Public Administration & Government)  
**Keywords:** Science education, Federal programs, Government agencies.

**PB2009114342**

Students Who Study Science, Technology, Engineering, and Mathematics (STEM) in Postsecondary Education. National Center for Education Statistics, Washington, DC. Institute of Education Sciences. 2009, 25p  
NCES-2009-161

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)  
**Keywords:** Statistics Brief, Postsecondary education, Overview.



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- Electrotechnology
- Energy
- Environmental Pollution and Control
- Government Inventions for Licensing
- Health Care
- Manufacturing Technology
- Materials Sciences
- Ocean Sciences and Technology
- Transportation

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**PB2011103611**

Examination of the U.S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs.  
National Research Council, Washington, DC. Div. of Engineering and Physical Sciences.  
2010, 176p

**Related Categories/Sub-Categories:**

74 (Military Sciences)  
92A (Job Training & Career Development)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** Air force personnel, Education, Training.

**PB2011112829**

Successful K-12 Stem Education: Identifying Effective Approaches in Science, Technology, Engineering, and Mathematics.  
National Research Council, Washington, DC. Commission on Behavioral and Social Sciences and Education.  
2011, 44p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Education, Early childhood education, Science education.

**PB2011114254**

Women in STEM: A Gender Gap to Innovation. Executive Summary.  
Economics and Statistics Administration, Washington, DC.  
2011, 11p  
ESA/IB-04-11

**Related Categories/Sub-Categories:**

70D (Personnel Management, Labor Relations & Manpower Studies)  
92A (Job Training & Career Development)  
92C (Social Concerns), 43C (Human Resources)  
**Keywords:** Women, Jobs, Workforce.

**PB2011114803**

Good Jobs Now and for the Future, July 2011. Executive Summary.  
Economics and Statistics Administration, Washington, DC.  
2011, 10p  
ESA/IB-03-11

**Related Categories/Sub-Categories:**

92A (Job Training & Career Development)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
44P (Health Education & Manpower Training)  
**Keywords:** Labor force, Occupations, Jobs.

**PB2012100626**

Successful STEM Education: A Workshop Summary.  
National Academy of Sciences-National Research Council, Washington, DC.  
2011, 94p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Education, Workshops, Science education.

**PB2012106719**

Report of a Workshop on Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs for the U.S. Department of Defense and the U.S. Defense Industrial Base.  
National Academy of Engineering, Washington, DC.  
2012, 78p

**Related Categories/Sub-Categories:**

70D (Personnel Management, Labor Relations & Manpower Studies)  
92D (Education, Law, & Humanities)  
74 (Military Sciences)  
**Keywords:** Workforce capabilities, Workforce needs, Workshops.

**PB2012109946**

Analysis of STEM Education Funding at the NSF: Trends and Policy Discussions. April 9, 2012.  
Congressional Research Service, Washington, DC.  
2012, 24p

**Related Categories/Sub-Categories:**

70B (Management Practice)  
70F (Public Administration & Government)  
92D (Education, Law, & Humanities)  
**Keywords:** Education, Federal budgets, Federal agency.

**PB2012110652**

Immigration of Foreign Nationals with Science, Technology, Engineering, and Mathematics (STEM) Degrees, May 11, 2012.  
Congressional Research Service, Washington, DC.  
2012, 31p

**Related Categories/Sub-Categories:**

92C (Social Concerns)  
92D (Education, Law, & Humanities)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** Immigration, Education, Science.

**PB2012114332**

Science, Technology, Engineering, and Mathematics (STEM) Education: A Primer.  
Congressional Research Service, Washington, DC.  
2012, 38p  
CRS-R42642

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Education, Science, Engineering.

**PB2013101248**

Interim Report on Assuring DOD a Strong, Science, Technology, Engineering, and Mathematics (STEM) Workforce.  
National Research Council, Washington, DC. Div. of Engineering and Physical Sciences. National Academy of Engineering, Washington, DC.  
2012, 21p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92A (Job Training & Career Development)  
70F (Public Administration & Government)  
**Keywords:** National security, Economy, Science.

**PB2013101956**

Assuring the U.S. Department of Defense a Strong Science, Technology, Engineering, and Mathematics (STEM) Workforce.  
National Academy of Engineering, Washington, DC.  
2012, 156p  
ISBN-978-0-309-26213-2

**Related Categories/Sub-Categories:**

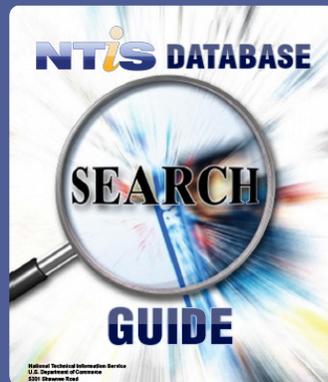
74 (Military Sciences)  
92A (Job Training & Career Development)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** Education, Defense personnel, Workforce.

**PB2013102675**

Community Colleges in the Evolving Stem Education Landscape: Summary of a Summit.  
National Research Council, Washington, DC. Division on Earth and Life Studies.  
2012, 156p

**Related Categories/Sub-Categories:**

68 (Environmental Pollution & Control)  
43B (Economic & Community Development)  
**Keywords:** Colleges, Environmental issues, Students.



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**PB2013102857**

STEM in Postsecondary Education: Entrance, Attrition, and Coursetaking Among 2003-04 Beginning Postsecondary Students. MPR Associates, Inc., Washington, DC. 2012, 57p  
NCES 2013-152

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70E (Research Program Administration & Technology Transfer)  
**Keywords:** Statistics brief, Postsecondary education, Overview.

**PB2013104450**

U.S. Department of the Interior STEM Education and Employment Pathways Strategic Plan Fiscal Years 2013-2018. Geological Survey, Reston, VA. 2013, 34p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
70B (Management Practice)  
**Keywords:** Education, Employment, Strategic planning.

**PB2009108369**

Comparative Indicators of Education in the United States and Other G-8 Countries: 2009. National Center for Education Statistics, Washington, DC. American Institutes for Research, Arlington, VA. Education Statistics Services Inst., Washington, DC. 2009, 119p  
NCES-2009-039

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Education, Indicators, United States.

**PB2010104243**

User's Guide for the Program for International Student Assessment (PISA): 2006 Data Files and Database with United States Specific Variables. RTI International, Research Triangle Park, NC. 2009, 119p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
43 (Problem Solving Information for State & Local Governments)  
**Keywords:** Education, Academic achievement, Mathematics.

**PB2011103192**

Highlights from PISA 2009: Performance of U.S. 15-Year-Old Students in Reading, Mathematics, and Science Literacy in an International Context. Windwalker Corporation, McLean, VA. 2010, 72p

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Student performance, Science literacy, Mathematics literacy.

**PB2011103476**

Cross-National Variation in Educational Preparation for Adulthood: From Early Adolescence to Young Adulthood. National Center for Education Statistics, Washington, DC. Office of Educational Research and Improvement. 2001, 66p  
NCES WP-2001-01

**Related Categories/Sub-Categories:**

92C (Social Concerns)  
**Keywords:** Education, Adult literacy, Math achievement.

**PB2012100687**

Education Supports Racial and Ethnic Equality in STEM: Executive Summary. Economics and Statistics Administration, Washington, DC. 2011, 11p  
ESA IB-05-11

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92C (Social Concerns)  
**Keywords:** Racial equality, Education, Ethnic equality.

**PB2005100150**

Industrial Hygiene Training, July 1, 1999 to June 30, 2004, Final Progress Report. Oklahoma Univ. Health Sciences Center, Oklahoma City. 2004, 32p  
PB2005-100150

**Related Categories/Sub-Categories:**

57U (Public Health & Industrial Medicine)  
44P (Health Education & Manpower Training)  
92A (Job Training & Career Development)  
94D (Job Environment)  
41I (Job Environment)  
**Keywords:** Training programs, Industrial hygiene, Occupational safety and health.

**DE2010992018**

Homeland Security Science, Technology, Engineering, Mathematics Career Development Program Report. Pacific Northwest National Lab., Richland, WA. 2009, 25p  
PNNL-18948

**Related Categories/Sub-Categories:**

74 (Military Sciences)  
92A (Job Training & Career Development)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** National security, Defense systems, Technology utilization.

**PB2011109825**

Characteristics of Recent Science and Engineering Graduates: 2006. Detailed Statistical Tables. National Science Foundation, Arlington, VA. Directorate for Social, Behavioral, and Economic Sciences. 2010, 160p  
NSF-10-318

**Related Categories/Sub-Categories:**

92 (Behavior & Society)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** Engineers, Scientists, Surveys.

**PB2011103480**

Comparison of the National Assessment of Educational Progress (NAEP), the Third International Mathematics and Science Study Repeat (TIMSS-R), and the Programme for International Student Assessment (PISA). National Center for Education Statistics, Washington, DC. Office of Educational Research and Improvement. 2001, 70p  
NCES-WP-2001-07

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
**Keywords:** Education, Literacy, Eighth grade, Scientific literacy.

**FREE DOWNLOAD N20120004301**

Bringing You the Moon: Lunar Education Efforts of the Center for Lunar Science and Education. National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center. 2012, 2p  
JSC-CN-26069

**Related Categories/Sub-Categories:**

54 (Astronomy & Astrophysics)  
84B (Extraterrestrial Exploration)  
**Keywords:** Education, Lunar exploration, Educational resources.

**FREE DOWNLOAD ADA444196**

Pima Community College Planning Grant for Autonomous Intelligent Network of Systems (AINS) Science, Mathematics and Engineering Education Center. Pima County Community College. Tucson, AZ. 2006, 5p  
PRO5PR08933-02

**Related Categories/Sub-Categories:**

92C (Social Concerns)  
92D (Education, Law, & Humanities)  
72 (Mathematical Sciences)  
**Keywords:** Education, Engineering, Mathematics.

**FREE DOWNLOAD DE20121034811**

E3: Education, Experience, Employment. The Economic Ladder to Success. 2011 STEMtech Conference. Idaho National Laboratory, Idaho Falls, ID. INL/CON-11-23459

**Related Categories/Sub-Categories:**

92D (Education, Law, & Humanities)  
92A (Job Training & Career Development)  
70D (Personnel Management, Labor Relations & Manpower Studies)  
**Keywords:** Education, Employment, Economic growth.

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Support for Students and Young Scientists to Participate In the American Chemical Society Symposium Entitled Lanthanides and Actinides: A Chemists' Perspective March 21-25, 2010 Held In San Francisco, Ca. Missouri Univ.-Kansas City. 2011, 4p  
DOE-MU-03653

**Related Categories/Sub-Categories:**

99 (Chemistry)  
92D (Education, Law, & Humanities)  
**Keywords:** Chemistry, Scientists, Meetings.

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## Title Index - For NTRL Users

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