

## Building Capacity For State Science Education (BCSSE)

### Building State Teams to Implement the Framework Vision for K-12 Science Education

Presented by

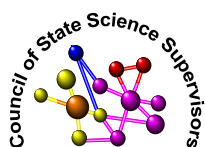
Council of State Science Supervisors and Tidemark Institute

February 24 – 25, 2012

Hilton North Raleigh

3415 Wake Forest Rd

Raleigh, NC



## Conference Agenda

Friday, February 24, 2012

Time	Activity/Topic	Location
7:00 – 7:45 AM	Light Breakfast	Grand Ballroom III-V
8:00 – 8:45 AM	Welcome <ul style="list-style-type: none"> <li>• <b>Jean Moon</b>, Founder and Principal, Tidemark Institute and Former Director of the NRC Board on Science Education</li> </ul> Opening Remarks <ul style="list-style-type: none"> <li>• <b>Dr. June Atkinson</b>, State Superintendent for North Carolina Public Schools, introduction by <b>Carr Thompson</b>, Burroughs Wellcome Fund</li> <li>• Brief Remarks by Meeting Sponsors</li> </ul> Goals and Assumptions for BCSSE and Future Meetings <ul style="list-style-type: none"> <li>• <b>Peter McLaren</b>, President, Council of State Science Supervisors</li> </ul>	Grand Ballroom III-V
8:45 – 9:15 AM	Organization of Meeting and Expectations for State Teams <ul style="list-style-type: none"> <li>• <b>Brett Moulding</b>, Former President, Council of State Science Supervisors</li> </ul>	Grand Ballroom III-V
9:15 – 10:15 AM	The Vision for Science Education: Examples of Moving from the Framework to Standards <ul style="list-style-type: none"> <li>• <b>Heidi Schweingruber</b>, Deputy Director, Board on Science Education, National Research Council</li> <li>• <b>Stephen Pruitt</b>, Vice President for Content, Research and Development, Achieve Inc.</li> </ul>	Grand Ballroom III-V
10:15 – 10:30 AM	Break	
10:30 – 11:30 AM	<b>Breakout Session I</b> <ol style="list-style-type: none"> <li>1. Investigating CCSS Mathematical and Literacy Practices with Framework Science and Engineering Practices – <b>Sarah Michaels</b>, Clark University, Co-author <i>Ready, Set, Science!</i></li> <li>2. Continuing Knowledge Building on the Structure and Vision of the Framework along with Crosscutting Concepts &amp; Disciplinary Core Ideas – <b>Heidi Schweingruber</b></li> <li>3. Implementing the Vision – Teacher Knowledge in Pre-service and Professional Development Settings – <b>Brian Reiser</b>, Professor of Learning Sciences, Northwestern University</li> <li>4. Working on BCSE Framework Tools Development – Facilitated by <b>Brett Moulding</b> <ol style="list-style-type: none"> <li>a) Review and Analyze Products</li> <li>b) Identify Needs</li> <li>c) Develop Work Plans</li> </ol> </li> <li>5. Understanding &amp; Forming Research – Practice Partnerships, A Critical Strategy to Advance Science Education – <b>Bill Penuel</b>, Professor of Education, University of Colorado-Boulder</li> <li>6. Building Fluency in Science &amp; Engineering Practices – <b>Jonathan Osborne</b>, Shriram Family Professorship in Science Education, Stanford University</li> <li>7. Promoting Diversity &amp; Equity in Science Education Using the Framework – <b>Philip Bell</b>, Geda and Phil Condit Professor of Science and Math Education, University of Washington</li> </ol>	1. Grand Ballroom I 2. Grand Ballroom II 3. Capital Ballroom D 4. Capital Ballroom B 5. Capital Ballroom C 6. Grand Ballroom III-V 7. Capital Ballroom E
11:30 – 12 :00 PM	State Teams Meet: Share and Discuss Content of Breakout Sessions	See State Breakout Rooms Handout
12:00 – 1:00 PM	Lunch and Networking	Grand Ballroom III-V
1:00 – 2:00 PM	Assessment of Three-Dimensional Standards <ul style="list-style-type: none"> <li>• <b>Rodger W. Bybee, Ph.D.</b>, Director Emeritus of Biological Sciences Curriculum Study (BSCS)</li> </ul>	Grand Ballroom III-V

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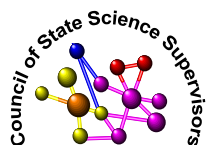
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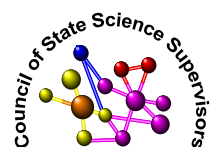
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## Conference Agenda

Friday, February 24, 2012

Time	Activity/Topic	Location
2:00 – 3:15 PM	<b><u>Breakout Session II</u></b>	
	1. Investigating CCSS Mathematical and Literacy Practices with Framework Science and Engineering Practices – <i>Sarah Michaels</i>	1. Grand Ballroom I
	2. Continuing Knowledge Building on the Structure and Vision of the Framework along with Crosscutting Concepts & Disciplinary Core Ideas – <i>Heidi Schweingruber</i>	2. Grand Ballroom II
	3. Implementing the Vision – Teacher Knowledge in Pre-service and Professional Development Settings – <i>Brian Reiser</i>	3. Grand Ballroom III-V
	4. Working on BCSSE Framework Tools Development – <i>Facilitated by Brett Moulding</i> a) Review and Analyze Products b) Identify Needs c) Develop Work Plans	4. Capital Ballroom B
	5. Understanding & Forming Research – Practice Partnerships, a Critical Strategy to Advance Science Education – <i>Bill Penuel</i>	5. Capital Ballroom C
	6. Building Fluency in Science & Engineering Practices – <i>Jonathan Osborne</i>	6. Capital Ballroom D
	7. Promoting Diversity & Equity in Science Education Using the Framework – <i>Philip Bell</i>	7. Capital Ballroom E
3:15 – 3:30 PM	Break	
3:30 – 4:30 PM	Panel Discussion – Looking at Progress to Date in the States: Messaging & Building Communications Networks to Advance the New Vision for Science Education • <i>Jean Moon, Facilitator</i>	Grand Ballroom III-V
4:30 – 4:40 PM	Wrap-up for Today and Expectations for Tomorrow • <i>Peter McLaren</i>	Grand Ballroom III-V
5:30 – 6:30 PM	Networking and Social Hour	Grand Ballroom Foyer
6:30 – 9:00 PM	Dinner and Speaking Program • Welcome and Speaker Introduction, <i>Jean Moon</i> “Why Practices?” • <i>Jonathan Osborne, Shriram Family Professorship in Science Education, Stanford University and Member of the NRC Framework Committee</i>	Grand Ballroom III-V



**Building Capacity For State Science Education (BCSSE)  
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**Conference Agenda  
Saturday, February 25, 2012**

Time	Activity/Topic	Location
7:30 – 8:30 AM	Light Breakfast	Grand Ballroom III-V
8:30 – 8:45 AM	Review and Clarification of Day 1 Overview and Goals for Day 2 – <i>Facilitated by Peter McLaren</i>	Grand Ballroom III-V
8:45 – 9:30 AM	Research – Practice Partnerships as a Strategy for Supporting Implementation of the NRC Framework and the Next Generation Science Standards • <i>Bill Penuel, University of Colorado-Boulder</i>	Grand Ballroom III-V
9:30 – 10:30 AM	State Teams Work to Develop Plans for Sharing Science Education Vision through Sample Plans • <i>Facilitated by Brett Moulding and Peter McLaren</i>	Grand Ballroom III-V
10:30 – 10:45 AM	Break	
10:45 – 11:45 AM	<b>Breakout Session III</b> 1. Investigating CCSS Mathematical and Literacy Practices with Framework Science and Engineering Practices – <i>Sarah Michaels</i> 2. Messaging Strategies In and Across States – Bringing Together Communications & PR Specialists, Policy Makers and Agency Staff, Corporate Community – <i>Jean Moon</i> 3. Implementing the Vision – Framework, Role of Instructional Resources – <i>Brian Reiser</i> 4. Developing State Plans – <i>Facilitated by Brett Moulding</i> 5. Understanding and Forming Research & Practice Partnerships: Q & A and Networking Opportunities – <i>Bill Penuel</i> 6. Thinking More about Science & Engineering Practices – <i>Jonathan Osborne</i> 7. Discussing Formative and High Stakes Assessment in Science Education, What to Expect – <i>Rodger Bybee</i>	1. Grand Ballroom III-V 2. Grand Ballroom I 3. Capital Ballroom D 4. Capital Ballroom B 5. Capital Ballroom C 6. Capital Ballroom E 7. Grand Ballroom II
11:45 – 12:15 PM	State Teams Visiting Other States' Plans – Travel from Table to Table	Grand Ballroom III-V
12:15 – 1:00 PM	Lunch – <i>Continuing our Conversations</i>	Grand Ballroom III-V
1:00 – 2:00 PM	Putting it All Together – What are the essential components of your state plan and what are the specific actions to implement a new vision for science education? • <i>Facilitated by Brett Moulding and Peter McLaren</i>	Grand Ballroom III-V
2:00 – 2:30 PM	Next Steps for BCSSE Project in Support of States and Science Supervisors – Preparation and Logistics for Future Meetings • <i>Peter McLaren, Facilitator</i>	Grand Ballroom III-V