

2009 North Carolina Science Summit

Best Practices in STEM Education

April 19–20, 2009

Embassy Suites Raleigh-Durham/Research Triangle

Cary, North Carolina

AGENDA

Sunday, April 19

Time	Sessions	Location
9:00 am-1:00 pm	Registration	Carolina Foyer
1:00-1:15 pm	<p>Welcome and Conference Overview</p> <p>Dr. Sam Houston, President and CEO North Carolina Science, Mathematics, and Technology Education Center</p> <p>Dr. Judith Rizzo, Executive Director and CEO James B. Hunt, Jr. Institute for Educational Leadership and Policy</p>	Carolina Ballroom
1:15-2:45 pm	<p><i>Opening Keynote Presentation</i></p> <p>Preparing Students for Their Future</p> <p>Dr. Willard R. Daggett, President International Center for Leadership in Education</p>	Carolina Ballroom
2:45-3:15 pm	Beverage Break	Carolina Foyer
Concurrent Sessions 3:15-4:45 pm	<p>Human Creativity and the School of the Future</p> <p>Mary Cullinane, Director Stacey Rainey, Academic Program Manager Innovation & Business Development Team, Microsoft Corporation</p>	Cameron
	<p>The Brainpower Behind the Horsepower</p> <p>Dr. Mimi Dyer, Director Academy of Math, Science & Technology Kennesaw Mountain High School, Georgia; Consultant, International Center for Leadership in Education</p>	Pinehurst

Time	Sessions	Location
<p>Concurrent Sessions</p> <p>3:15-4:45 pm</p>	<p>Connecting Curriculum Using Brain Research — Why Teach Using Interdisciplinary Approaches?*</p> <p>Linda L. Jordan, Consultant, International Center for Leadership in Education and The Center for Effective Learning; Associate Professor, Hope College</p>	<p>Blowing Rock</p>
	<p>Using the Rigor/Relevance Framework to Improve Instruction in the STEM Classroom</p> <p>Dr. Richard Jones, Senior Consultant International Center for Leadership in Education</p>	<p>Chimney Rock</p>
	<p>NASA Education: Yesterday’s Dream... Today’s Vision... Tomorrow’s Hope</p> <p>Dr. Joyce L. Winterton, Assistant Administrator for Education National Aeronautics and Space Administration (NASA)</p>	<p>Smith</p>
	<p>Developing a High Performing Rigorous and Innovative STEM School</p> <p>David R. Pinder, Principal McKinley Technology High School, Washington, D.C.</p>	<p>Reynolds</p>
	<p>Advancing High School Innovation Through STEM Education: Wayne School of Engineering*</p> <p>Robin Marcus, STEM Program Director North Carolina New Schools Project; Susan Randolph, Science and Engineering Teacher, Tiffany Nurse, Mathematics Teacher, and Students, Wayne School of Engineering</p>	<p>Mendenhall</p>
<p>5:00-6:30 pm</p>	<p>Reception</p>	<p>Carolina Foyer/ Atrium</p>
<p>6:30-8:30 pm</p>	<p>General Session Effective STEM Partnerships: The Role of Business in Education</p> <p>Ray McNulty, Senior Vice President International Center for Leadership in Education</p>	<p>Carolina Ballroom</p>

* one time only

Monday, April 20

Time	Sessions	Location
8:00-8:30 am	Morning Beverages	Carolina Foyer
8:30-9:15 am	Opening Remarks James B. Hunt, Jr., Foundation Chair James B. Hunt, Jr. Institute for Educational Leadership and Policy	Carolina Ballroom
9:15-10:15 am	General Session Preparing U.S. Schools for the 21st Century Dr. Willard R. Daggett, President International Center for Leadership in Education	Carolina Ballroom
10:15-10:45 am	Beverage Break	Carolina Foyer
Concurrent Sessions 10:45 am-12:15 pm	Human Creativity and the School of the Future Mary Cullinane, Director Stacey Rainey, Academic Program Manager Innovation & Business Development Team, Microsoft Corporation	Cameron
	Teaching and Learning Through Engagement and Relevance Dr. Marshall Stewart, Head, Department of 4-H Youth Development and Family and Consumer Sciences Dr. Ed Maxa, Associate Professor and Extension Specialist Dr. Mitzi Downing, Extension Assistant Professor and Specialist, Amy Chilcote, Extension Associate, Jackie Helton, Extension Assistant North Carolina Cooperative Extension	Mendenhall
	Highland School of Technology—STEM Connections Lee Dedmon, Principal Justin Beam, Beth Eisenhart, and Russell Wingfield, Academy Coordinators Highland School of Technology, Gastonia, North Carolina	Blowing Rock

Time	Sessions	Location
<p>Concurrent Sessions</p> <p>10:45 am -12:15 pm</p>	<p>Using the Rigor/Relevance Framework to Improve Instruction in the STEM Classroom</p> <p>Dr. Richard Jones, Senior Consultant International Center for Leadership in Education</p>	<p>Chimney Rock</p>
	<p>Using a Public/Private Partnership to Build Momentum for Enhancing the Assessment and Instruction of Science and Math</p> <p>Dr. Carl W. Swartz, Senior Research Associate MetaMetrics, Inc. Angela Hinson Quick, Deputy Chief Academic Officer North Carolina Department of Public Instruction</p>	<p>Reynolds</p>
	<p>A Tool for 21st Century Learning and Assessment</p> <p>Dr. John Bransford, Shauna C. Larson University Professor of Education and Psychology; Dr. Nancy Vye, Senior Research Scientist; Drue Gawel, Graduate Student; Allison Moore, Learning Scientist; and Rachel Philips, Graduate Student, University of Washington Vanessa Svihla, Graduate Student, University of Texas</p>	<p>Pinehurst</p>
	<p>NASA Education: Yesterday's Dream... Today's Vision... Tomorrow's Hope</p> <p>Dr. Joyce L. Winterton, Assistant Administrator for Education National Aeronautics and Space Administration (NASA)</p>	<p>Smith</p>
<p>12:15-1:15 pm</p>	<p>Lunch</p>	<p>Carolina Foyer</p>
<p>Concurrent Sessions</p> <p>1:15-2:45 pm</p>	<p>Inquiry Science– What's Going On in There?*</p> <p>John Cafarella, Independent Education Consultant</p>	<p>Cameron</p>
	<p>The Brainpower Behind the Horsepower</p> <p>Dr. Mimi Dyer, Director Academy of Math, Science & Technology Kennesaw Mountain High School, Georgia; Consultant, International Center for Leadership in Education</p>	<p>Chimney Rock</p>

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<p>Concurrent Sessions</p> <p>1:15-2:45 pm</p>	<p align="center">Highland School of Technology— STEM Connections</p> <p align="center">Lee Dedmon, Principal Justin Beam, Beth Eisenhart, and Russell Wingfield, Academy Coordinators Highland School of Technology, Gastonia, North Carolina</p>	<p align="center">Blowing Rock</p>
	<p align="center">Developing a High Performing Rigorous and Innovative STEM School</p> <p align="center">David R. Pinder, Principal McKinley Technology High School, Washington, D.C.</p>	<p align="center">Reynolds</p>
	<p align="center">Using a Public/Private Partnership to Build Momentum for Enhancing the Assessment and Instruction of Science and Math</p> <p align="center">Dr. Carl W. Swartz, Senior Research Associate MetaMetrics, Inc. Angela Hinson Quick, Deputy Chief Academic Officer North Carolina Department of Public Instruction</p>	<p align="center">Smith</p>
	<p align="center">A Tool for 21st Century Learning and Assessment</p> <p align="center">Dr. John Bransford, Shauna C. Larson University Professor of Education and Psychology Dr. Nancy Vye, Senior Research Scientist; Drue Gawel, Graduate Student; Allison Moore, Learning Scientist; and Rachel Philips, Graduate Student University of Washington Vanessa Svihla, Graduate Student, University of Texas</p>	<p align="center">Pinehurst</p>
	<p align="center">Teaching and Learning through Engagement and Relevance</p> <p align="center">Dr. Marshall Stewart, Head, Department of 4-H Youth Development and Family and Consumer Sciences Dr. Ed Maxa, Associate Professor and Extension Specialist Dr. Mitzi Downing, Extension Assistant Professor and Specialist, Amy Chilcote, Extension Associate, Jackie Helton, Extension Assistant North Carolina Cooperative Extension</p>	<p align="center">Mendenhall</p>
<p>2:45-3:00 pm</p>	<p align="center">Break</p>	

Time	Sessions	Room
3:00-4:00 pm	<p style="text-align: center;"><i>Closing General Session</i> Bringing Best Practices to Scale Right Now!</p> <p style="text-align: center;">Ray McNulty, Senior Vice President International Center for Leadership in Education</p>	Carolina Ballroom

Notes:

Presenter PowerPoints and handouts will be posted at:
www.LeaderEd.com/NCSTEMPowerPoints.html

Pre-Conference Workshop Sunday 10:00 am-12:00 pm
Sunday lunch is provided for Pre-Conference participants only with your lunch ticket in the Triangle Ballroom.

Box lunches will be provided on Monday for all participants.

Please turn off all devices that make noise during sessions.

For everyone's safety, please do not plug laptops, etc. into outlets around the periphery of meeting rooms. Thank you.

**Don't forget to fill out and turn in
your Science Summit Evaluation Form
in the box at the Science Summit Headquarters.**