

## Sessions on Saturday, March 15

### Special Interest Group Focus Sessions

9:45 – 10:45 am

#### Roanoke E

##### Residential Issues

Come and meet other faculty, administration, counselors and staff members from NCSSSMST residential schools. Here is a way to network and make suggestions for future events hosted by NCSSSMST. Take time to share your “hints” for success with students in a residential setting.

- Facilitated by Dottie Martin, NCSSSMST president and Maine School of Science and Mathematics, and Joan Barber of the North Carolina School of Science and Mathematics

#### Roanoke F

##### Transition to College Issues

Join in continued dialogue about how we can better serve our students as they transition to college. Come ready to share some success stories and learn about other trends we need to know about. Our college and university partners are welcome to share their findings and suggestions.

- Facilitated by Jay Thomas, NCSSSMST board member and Illinois Mathematics and Science Academy

#### Roanoke G

##### Ways To Get Involved in NCSSSMST

NCSSSMST provides an array of opportunities for member schools, educators and students to exchange information and program ideas, to collaborate on initiatives and projects, and to acquire knowledge of innovative practices and research forums. Information is disseminated through a variety of publications, professional development opportunities, and both student and professional conferences. As a new, prospective or re-energized member of NCSSSMST, please join us so that you can make the most of your membership as well as share and encourage active participation among your students, faculty and staff.

- Facilitated by Eileen Steinkraus, Pauline LamMarche, Larry Walker and Josie Wallmuth, NCSSSMST board members

## Sessions on Saturday, March 15

### Special Interest Group Focus Sessions (Continued)

9:45 – 10:45 am

#### Crystal A

##### Programs in Action = Mathematics

Join other math faculty teaching at NCSSSMST schools and colleges to discuss burning issues in math curricula and instruction. Network with your peers and offer suggestions for future NCSSSMST summer institutes and other activities.

- Facilitated by Jennifer Mangum, NCSSSMST board member and Louisiana School of Math, Science and the Arts

#### Crystal B

##### Programs in Action = Technology

Join other technology faculty teaching at NCSSSMST schools and colleges to discuss burning issues in technology curricula and connectivity. Network with your peers and offer suggestions for NCSSSMST summer institutes and other activities.

- Facilitated by John Templin of Blair Science, Mathematics and Computer Science Magnet

#### Crystal C

##### Programs in Action = Humanities

Join other humanities faculty teaching at NCSSSMST schools and colleges to discuss burning issues in humanities curricula and instruction. Network with your peers and offer suggestions for NCSSSMST summer institutes and other activities.

- Facilitated by Sheri Maeda, NCSSSMST board member and the Thomas Jefferson High School for Science and Technology

#### Crystal D

##### Programs in Action = Science

Join other science faculty teaching at NCSSSMST schools and colleges to discuss burning issues in science curricula and instruction. Network with your peers and offer suggestions for NCSSSMST summer institutes and other activities.

- Facilitated by Jean Stevens, NCSSSMST board member and the Thomas Jefferson High School for Science and Technology



### Breakout Sessions 7

11:00 am – 12:00 pm

#### Roanoke E

##### **T2S2M2: Tantalizing Texts for Scientific Stimulation and Mathematical Motivation**

Use trade books to enhance textbooks and complement activity-based science and math curriculum. Provide opportunities for students to come to a greater understanding of concepts, moving students on to application and creative activities. Trade books are a valuable teaching tool all educators should have on their educational tool belt.

- Presented by Debra Blenis, director of teacher education at the Florida Institute of Technology

#### Roanoke F

##### **Drawing Authentic Connections between Science and Language Arts in the 12<sup>th</sup> Grade**

This session will describe the integration of a 12<sup>th</sup> grade language arts class with a culminating senior science course. A common theme centered on Tucker County, West Virginia, provides our students the context to make natural connections between the natural resources and their impact on the people and the culture, as reflected in art, music and literature. Student activities that will be described range from the history of the dulcimer and local folk music to ArcView applications related to local environmental issues.

- Presented by Dennis McFaden and Barbara Nelson, teachers at the Thomas Jefferson High School for Science and Technology

#### Roanoke G

##### **RTT: Research Through Technology**

Research Through Technology incorporates fundamental concepts in science research, mathematics technology and computer literacy to make a rich, required course for all Arkansas School for Mathematics and Science juniors.

- Presented by Melanie Nichols, math department chair, and Janet Hugo, dean of academic affairs, at the Arkansas School for Mathematics and Science

#### Roanoke H

##### **Technology in the Service of Learning: Online Writing Evaluation Fosters Writing across the Curriculum**

This hands-on session will show participants how to use automated scoring technology to evaluate open-ended essays and short constructed response questions, and thereby provide students with the writing practice they need without the teachers spending hours grading papers.

- Presented by Ernest Price, national sales director at the Educational Testing Center

## Sessions on Saturday, March 15

### Breakout Sessions 7 (Continued)

11:00 am – 12:00 pm

#### Crystal A

##### **Gender Equity: Perspectives from Teaching, Counseling and Research**

Part I of this session presents a teacher's perspective and a counselor's perspective in helping young women identify roles and evaluate educational programs in math/science fields. Part II will present a detailed summary of the NCSSMST longitudinal study, with an emphasis on math/science findings.

- Presented by Josie Wallmuth, chemistry instructor, and Jay Thomas, research specialist, at the Illinois Mathematics and Science Academy

#### Crystal B

##### **Physics First at Stuyvesant High School**

Physics First at Stuyvesant High School: A brief history and all about the first class of students to take physics as 9<sup>th</sup> graders. How were these students chosen from a large entering class, and what are they doing today, three years later?

- Presented by Olga Livanis, assistant principal and department of chemistry and physics at Stuyvesant High School in New York, NY

#### Crystal C

##### **The H.O.M.E. program (Habits Of Mind Exchange)**

This session will focus on an after-school program that has been integrated into the infrastructure of a school with a challenging and diverse population. Through technology tracking tools used in the program and connections to professionals outside the school, teachers are capturing students' hearts in order to capture their minds.

- Presented by Bob Keddell, teacher at Wilde Lake Middle School in Columbia, MD

#### Crystal D

##### **The 5-D Approach for Competitive Scholarships: A Developmental Model for Academically Gifted**

Help students develop self-awareness by using a developmental approach for college scholarship processes. All academically-gifted students can win by learning more about themselves in the application process. This approach also helps students put together a stronger application. The Park Scholarships, a full, four-year merit award, is used as a case study.

- Presented by Laura Gail Lunsford, director of Park Scholarships at NC State University