



Conference Theme & Strands

Students learn best when they are engaged--when learning builds on their interests and backgrounds and when they actively participate in hands-on and minds-on instruction. This year's conference will help teachers engage their students in 3D science learning with the new Georgia Standards of Excellence, in STEM learning that is grounded in the science classroom, and in literacy that supports effective science reasoning. Sessions outside these strands will offer a range of strategies and resources to support student learning in science.







- **Strand 1: Engaging in the New Science Georgia Standards of Excellence** - This strand focuses on the new Georgia Standards of Excellence in Science, and all sessions will emphasize three-dimensional (3D) learning. This strand will feature DOE Staff, Georgia Science Ambassadors, and other professionals with experience in 3D learning. ***The strand co-sponsored by the Georgia Department of Education, and it will serve as official DOE training to support the 2017-2018 implementation of the new science standards.***
- **Strand 2: Engaging in STEM to Provide Context for Science** - This strand focuses on utilizing authentic experiences and real-world problems to provide context for science learning. Sessions will place an emphasis on incorporating mathematics, technology, engineering, and other subjects into the science classroom.
- **Strand 3: Engaging in Literacy to Advance Science Instruction** - This strand focuses on the link between literacy and science learning. The use of literacy skills while learning science content extends and expands student scientific reasoning. Sessions will emphasize the power of literacy to improve the quality of science instruction in Georgia Classrooms









NOTE: While sessions included in these strands will be highlighted for this year's conference, workshops, presentations and activity-rich sessions across all areas of science education will be included.

2017 GSTA CONFERENCE: GEORGIA SCIENCE...ENGAGE!

Want to Learn About the Science GSE? Go to These Sessions...

Day	Time	Title	Presenter(s)	Room	DOE Sponsored
Thursday	8:00AM	Phenomenal 3D Science: Cranberry Bogs	Donna Barrett-Williams	Poplar	
Thursday	9:00AM	Using Crosscutting Concepts and Science & Engineering Practices to Develop Coherent Vertical Teams	Rabieh J. Hafza	Birch	
Thursday	9:00AM	Georgia's Vision for Science Education	Superintendent Richard Woods	Laurel	
Thursday	9:00AM	Teaching 3D Science/GSE in Kindergarten	Tracy Ingram	Rhododendron A	
Thursday	10:00AM	Phenomenal Mysteries and Probes in Science	Tonya Woolfolk, and others	Cherry	
Thursday	10:00AM	3-D Science Instruction for the Kindergarten Classroom	Angie Curtis-Wolf	Gardenia	
Thursday	10:00AM	Science Changes and Updates	Juan-Carlos Aguilar, Kenneth Mason	Laurel	
Thursday	10:00AM	Strategies to ensure the successful implementation of 3D standards for minority and impoverished students	Michael Seckinger	Poplar	
Thursday	11:00AM	Teaching Science Phenomena with Discrepant Events	Tom Brown, Tracy Matthews	Audubon	
Thursday	11:00AM	Engaging Student in 3D Science Storylines	Brian Reiser	Laurel	
Thursday	12:00PM	What's New in the Science GSE?	Amy Peacock, Jolaine Whitehead	Dogwood B	
Thursday	12:00PM	Leading Science Teachers and Students Toward Excellence	Zoe Evans, Jeremy Peacock	Willow	
Thursday	1:00PM	3-dimensional learning in chemistry	Sarah Eales	Dogwood B	
Thursday	1:00PM	Using Phenomena in the Physical Sciences	Philip Matthews	Rotunda	
Thursday	2:00PM	What's the Big Deal About Phenomena?	Amy Peacock, Jolaine Whitehead	Magnolia	
Thursday	3:00PM	A Working Model of The New Georgia Standards of Excellence and 3D Science	Candria Eddinger, Claudia Hagan	Dogwood B	

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Thursday	4:00PM	Classroom Assessment for the GSE	Heather Toliver, Nicole Page	Dogwood B	
Friday	8:00AM	3D View of Science on Chemistry concepts	Twinkle Mark	Barberry	
Friday	8:00AM	Do the Science GSE Tell Me How to Teach Science? Yes and No.	Jeremy Peacock, Amy Peacock	Birch	
Friday	9:00AM	Student Interest Leads the Way through the GSEs	Tamra Lamb, Katie Brkich	Birch	
Friday	9:00AM	Scaffolding the Crosscutting Concepts: Tools for Student Thinking	Amy Peacock, Jolaine Whitehead	Dogwood B	
Friday	10:00AM	Phenomenal 3D Science: Cystic Fibrosis	Donna Barrett-Williams	Poplar	
Friday	10:00AM	Going from Flat to 3D	Judie Hardin, Lisa Fleckenstein	Woodland	
Friday	11:00AM	Getting administrators on board with GSE	Holly Amerman	Willow	
Friday	12:00PM	Teaching through Scientific Modelling: A climate science exemplar	Todd Bevis, Ellen Granger	Dogwood B	
Friday	12:00PM	Engaging through "Phenomena".	Sureka Taylor & Toddrika Williams	Poplar	
Friday	12:00PM	An Illustrated Design for Self- Directed Three Dimensional Learning via Georgia Standards of Excellence	Renuka Rajasekaran	Rhododendron B	
Friday	1:00PM	Classroom Assessment for the GSE	Nicole Page, Heather Toliver	Rhododendron A	
Friday	2:00PM	PHENOMENON? BRING IT ON!	Jacqueline Fawaz	Juniper	
Friday	2:00PM	Differentiation in "3D" Science	Amy Sneed	Maple	
Friday	3:00PM	I've Read the Standards. Now, Where Do I Go From Here?	Jeremy Peacock	Dogwood B	
Friday	4:00PM	Phenomenal Biology Teaching-Using Phenomenon to Engage Students	Teresa Massey	Barberry	
Friday	4:00PM	From Sinkholes to Constructing an Explanation	Donna Ahlswede	Magnolia	
Saturday	8:00AM	GSE for Science: Rethinking the Role of Assessment in the Instructional Process (Separate Registration)	Marion Reeves, Karol Stephens	Poplar	
Saturday	11:00AM	Electrostatic Phenomena: A 3-D approach	Justin Harvey	Dogwood A	