

# Let's Grow Science!

**November 3-5, 2022**  
Eastern Kentucky University

<b>KSTA Annual Conference - Thursday, November 3, 2022</b>		
<b>TIME</b>	<b>SESSION</b>	<b>LOCATION</b>
<b>8:00 - 9:15am</b>	Registration for pre-conference attendees & Summit	LOBBY
<b>9:15am - 3:00pm</b>	KY HIGHER ED SCIENCE SUMMIT	QUAD A/B
	<b>Pre-Conference Events</b>	
<b>9:00am - 4:00pm</b>	PIMSER Establishing a Collaborative Science Classroom	QUAD C/D
<b>9:00 - 11:30am</b>	Maywoods Environmental and Educational Laboratory Visit	on site
<b>3:00 - 5:00pm</b>	Kentucky Castle Farm Tour & Networking	on site
<b>7:00 - 8:30pm</b>	Hummel Planetarium	on site
<b>3:00 - 6:00pm</b>	Exhibitor Set Up	LOBBY

KSTA Annual Conference - Friday, November 4, 2022

TIME	LOBBY	QUADS		209	210	211	212	219	220	302	Planetarium
		A/B	C/D								
7:30 - 8:15am	Registration										
8:15 - 8:30am		<p><b>Welcome</b> Jamie Hester, KSTA President and Lt. Governor Jaqueline Coleman</p>									
Breakout 1 9:00 - 10:00am	Exhibit Hall Open			<p><b>Building Your ESTEAM: Using STEM to Solve Problems</b> Sarah Trent &amp; Victoria Howard 3-5 - Engineering Design</p>	<p><b>Kentucky Engineering Exposure Network (KEEN)</b> Kyle McMahon K-12 - Engineering Design</p>		<p><b>Strengthening Students' Science Practices with an AI-based Teacher Alerting and Progress Monitoring Tool</b> Michael Sau Pedro &amp; Angela Marksberry MS, HS - Physics InqITS</p>	<p><b>Grounding Instruction in Anchoring Phenomenon</b> Bonnie Embry MS - Physics Carolina</p>	<p><b>MAKING the most of your integrated lessons</b> Shayne Pry 3-5, MS - Engineering Design</p>	<p><b>Science and the Arts</b> Lisa Senetar PheaD</p>	
				<p><b>Engaging middle students in computational modeling using an online coding tool</b> Lin Xiang MS - Physics 1.5 hr session 9:40-11:10am</p>	<p><b>Introduce Coding in Your Elementary Classroom</b> Ryan Hunter 3-5 - Engineering Design 1.5 hr session 9:40-11:10am</p>	<p><b>Passion Projects: Engage your students and build your classroom community</b> Brianna Greenhill &amp; April Adkins 3-5, MS, HS - All Content</p>	<p><b>Building Opportunities for the Future</b> Erica Baker K-2, 3-5 - All Content</p>	<p><b>Discover BIOZONE's superb range of interactive worktexts for NGSS, AP, and elective programs</b> Jeff Bueker HS - Biology, Chemistry, Earth Sciences</p>	<p><b>Use STEM Challenges to Integrate Engineering Design Standards into Instruction</b> Dr. Susan Beatty &amp; Susan Barton MS, HS - All Content</p>	<p><b>How to Make In-Person and Remote STEM Instruction Meaningful, Rigorous, and Equitable for Students</b> Victor Sampson HS - Biology</p>	<p><b>Colors From Space: Learning About Light in the Planetarium</b> Dr. Jessica Lair, Dr. Jing Wang, Dr. William Thornburgh MS, HS - Astronomy 1.5 hr session 9:40-11:10am</p>
						<p><b>Tapping Students' Curiosity with KET's PBS LearningMedia: Free Science Resources for Grades PreK-12</b> Dr. Lynn Shaffer 3-5, MS, HS - All Content</p>	<p><b>Recognizing, Reporting and Preventing Child Abuse and Neglect</b> Sara Jenkins &amp; Janna Estep Jordan K-2, 3-5, MS, HS - All Content Prevent Child Abuse Kentucky</p>	<p><b>How Science and Engineering are Intertwined: A Case Study of the Brent Spence Bridge</b> Kyle McMahon &amp; James Ballinger 3-5, MS, HS, AP - Engineering Design</p>	<p><b>Using the 5E Model in Science Education</b> Nancy Flowers 3-5 - All Content</p>	<p><b>Students' Ideas Matter! Linking Formative Assessment to Instructional Sequence</b> Patrick Brown K-2, 3-5 - Chemistry, Physics</p>	
12:00 PM	LUNCH - on your own										



KSTA Annual Conference - Saturday, November 5, 2022

TIME	LOBBY	QUADS		209	210	211	212	219	220	302
		A/B	C/D							
7:30 AM	Registration									
Breakout 6 8:00 - 9:00am	Exhibit Hall Open			<b>Effective Intervention Strategies - Let's Hook Students into Learning</b> Margo Dye K-2, 3-5, MS, HS - Astronomy, Biology, Chemistry, Earth Science, Environmental Science, Physics STEMscopes	<b>Research Happens! Connecting your Students with Kentucky Scientists</b> Amanda Fuller, Patrick Goff, Melonie Stambaugh MS, HS - All Content		<b>Let's Give Them Something to Figure Out!</b> Sandy Erwin K-2, 3-5, MS - All Content Cereal City Science	<b>From the Summer to the School Year: Tips, Tricks, and Activities From Our K-6 Summer STEM Program and How They Have Helped Improve Our Own Classrooms</b> Taylor Long, Maribeth Bowman, Ashley Wilkirson K-2, 3-5 - Engineering Design	<b>Reinvigorating Energy Teaching via Research with Engineers</b> Dr. Justin McFadden & Dr. Brian Robinson HS - Engineering Design	<b>NGSS in the Primary Grades</b> Hillary McWhorter K-2 - Engineering Design
		9:10 - 10:10am		<b>Dr. Stephen Pruitt,</b> President, Southern Regional Education Board <b>Plenary Session</b>						

KSTA Annual Conference - Saturday, November 5, 2022

TIME	LOBBY	QUADS		209	210	211	212	219	220	302
		A/B	C/D							
Breakout 7 10:20-11:20am	Exhibit Hall Open			<b>Climate, Water and Resilience Training</b> Brittany Wray, Dr. Melinda Wilder, Katherine Bullock MS, HS - Earth Science 2 hr Session 10:20am-12:20pm KAEE	<b>Rocketry + Avionics: Taking Data to New Heights</b> Heather Arnett HS - Engineering Design, Physics University of Illinois Urbana-Champaign	<b>Does Your Scientific Writing Research Hold Water? Tools to Help Students Test the Credibility of Science Reporting</b> Larry Moore 3-5, MS, HS - All Content 1.5 hr session 10:20-11:50am		<b>How Planning and Planetarium Use Affect Students When Learning Astronomy</b> Dr. William Thornburgh MS, HS - Astronomy	<b>Environmental Education and Outdoor Learning</b> Rae MEntyre K-12 - All Content (2 hr session) 10:20am-12:20pm	<b>Student-Centered Science Notebooks in Your Classroom</b> Jessica Fries-Gaither K-2, 3-5 - All Content
Breakout 8 11:30am-12:30pm					<b>Recognizing, Reporting and Preventing Child Abuse and Neglect</b> Sara Jenkins & Janna Estep Jordan K-12 - All Content Prevent Child Abuse Kentucky		<b>Resources Designed to Support Implementation of the KAS for Science</b> Erica Baker K-12 - All Content			
Breakout 9 12:30pm-1:30pm					<b>Professional Learning That Meets Your Needs</b> Brittany Wray, Dr. Melinda Wilder, Katherine Bullock K-12 - Earth Sciences, Environmental Sciences KAEE	<b>Classroom Aquaponics: Fish, fun, and (f)otosynthesis</b> Kristin Hughes K-12 - Biology, Chemistry, Environmental Sciences, Physics Food Chain Inc.	<b>Now Trending: Science Simulations to Make Things Stick!</b> Jenna Mercury 3-5, MS, HS - All Content ExploreLearning		<b>Building a Climate of Collaboration in Your Classroom</b> Missy Weatherly & Barbara Stegman K-2, 3-5 - Earth Sciences, Engineering Design, Environmental Sciences	<b>Using Mathematics to Deepen Understanding of Scientific Phenomena</b> Michael Sau Pedro & Dr. Janice Gobert MS, HS - Physics InqITS