

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

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				KSTA Ann	ual Conferer	nce - Friday,	November 4	er 4, 2022				
TIME	LOBBY	QUADS		209	210	211	212	219	220	302	Planetarium	
		A/B	C/D									
7:30 - 8:15am 8:15 - 8:30am	Registration	Jamie Hes Preside Lt. Governo	come ster, KSTA ent and or Jaqueline eman									
Breakout 1 9:00 - 10:00am				Building Your ESTEAM: Using STEM to Solve Problems Sarah Trent & Victoria Howard 3-5 - Engineering Design	Kentucky Engineering Exposure Network (KEEN) Kyle McMahon K-12 - Engineering Design		Strengthening Students' Science Practices with an Al-based Teacher Alerting and Progress Monitoring Tool Michael Sau Pedro & Angela Marksberry MS, HS - Physics InqITS	Grounding Instruction in Anchoring Phenomenon Bonnie Embry MS - Physics Carolina	MAKING the most of your integrated lessons Shayne Pry 3-5, MS - Engineering Design	Science and the Arts Lisa Senetar PheaD		
Breakout 2 10:00-11:00am	Exhibit Hall Open			Engaging middle students in computational modeling using an online coding tool Lin Xiang MS - Physics 1.5 hr session 9:40-11:10am	Introduce Coding in Your Elementary Classroom Ryan Hunter 3-5 - Engineering Design 1.5 hr session 9:40-11:10am	Passion Projects: Engage your students and build your classroom community Brianna Greenhill & April Adkins 3-5, MS, HS - All Content		Discover BIOZONE's superb range of interactive worktexts for NGSS, AP, and elective programs Jeff Bueker HS - Biology, Chemistry, Earth	Use STEM Challenges to Integrate Engineering Design Standards into Instruction Dr. Susan Beatty & Susan Barton MS, HS - All Content	How to Make In- Person and Remote STEM Instruction Meaningful, Rigorous, and Equitable for Students Victor Sampson HS - Biology	Colors From Space: Learning About Light in the Planetarium Dr. Jessica Lair, Dr. Jing Wang, Dr. William Thornburgh MS, HS - Astronomy	
Breakout 3 11:00am- 12:00pm						Tapping Students' Curiosity with KET's PBS LearningMedia: Free Science Resources for Grades PreK-12 Dr. Lynn Shaffer 3-5, MS, HS - All Content	K-2, 3-5, MS, HS - All Content Prevent Child Abuse Kentucky	How Science and Engineering are Intertwined: A Case Study of the Brent Spence Bridge Kyle McMahon & James Ballinger 3-5, MS, HS, AP Engineering Design	Using the 5E Model in Science Education Nancy Flowers 3-5 - All Content	Students' Ideas Matter! Linking Formative Assessment to Instructional Sequence Patrick Brown K-2, 3-5 - Chemistry, Physics	1.5 hr session 9:40-11:10am	
12:00 PM				•		LUNCH - on yo	our own					
12:00 PM							Abuse Kentucky	0 0				

				KSTA Ann	KSTA Annual Conference - Friday, November 4, 2022								
TIME	LOBBY	QU. A/B	ADS C/D	209	210	211	212	219	220	302	Planetarium		
12:30 - 1:30pm		Keynote: Academics to Industry - Realizing the American Dream Through Teaching Dr. Pat Heist Introduction by Jamie Hester & Mackenzie Alexander											
1:30 - 2:00pm			cognition &										
Breakout 4 2:15 - 3:15pm				Easy Higher Order learning using Hypothesis Cubes Rico Tyler K-12 - All Content	Engineering The Classroom Joseph Collins K-12 - Engineering Design Challenger Learning Center of Kentucky	Crafting the Next Generation Sydney Kester MS, HS, AP - All Content	Phenomenon to Figuring It Out	3-D Science in a World of 8 Billion Dr. Scott Townsend HS - Environmental Science 1.5 hr session 2:15-3:45pm	Learning about pathogen transmission, disease, and host defense with bacterial soft rot of supermarket produce Dr. Lou Hirsch MS, HS - Biology	Fun with Backyard Bass Easton Copley 3-5, MS, HS - Biology, Environmental Science			
Breakout 5 3:25 - 4:25pm	Exhibit Hall Open			Engaging Students in Scientific Discourse Amanda Prewitt & Stephanie Harmon 3-5, MS, HS - All Content	From evolution to climate change: Overcoming motivated reasoning with hesitant populations Dr. David E. Long MS, HS - Biology, Chemistry, Earth Science, Environmental Science	Phemonoma is all around youBringing science from the outside to the inside Kimberly Sparkman K-2, 3-5, MS - Earth Science	Science in Motion Michelle Grooms, MS, HS - Biology, Physics Texas Instruments		Developing Junior Engineers! Science and Engineering in the Classroom with Phenomenal Instruction Tom Gantt, K-2, 3-5, MS - Engineering Design Amplify	Three- Dimensional Learning & Environmental Education Brittany Wray, Dr. Melinda Wilder, Katherine Bullock K-12 & AP - Earth Sciences, Environmental Sciences 1.5 hr session 3:25-4:55pm KAEE			
4:00 - 5:00pm			STEM Teaching 101: Tips and Tricks		Science					KAEE			
5:00 - 7:00pm		PAEMST Reception 5:00-7:00pm	for Pre- Service and New Teachers Madison Staton K-12 - All Content 2 hr session 4:00-6:00pm										

## **Vendor Session** Virtual Session

TIME	LOBBY	QUADS		209	210	211	212	219	220	302
7.00.414	Deviatestian	A/B	C/D							
7:30 AM	Registration									
Breakout 6 8:00 - 9:00am	Exhibit Hall Open			Effective Intervention Strategies - Let's Hook Students into Learning Margo Dye K-2, 3-5, MS, HS - Astronomy, Biology, Chemistry, Earth Science, Environmental Science, Physics STEMscopes	Research Happens! Connecting your Students with Kentucky Scientists Amanda Fuller, Patrick Goff, Melonie Stambaugh MS, HS - All Content		Let's Give Them Something to Figure Out! Sandy Erwin K-2, 3-5, MS - All Content Cereal City Science	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 Taylor Long, Maribeth Bowman, Ashley Wilkirson K-2, 3-5 - Engineering Design	Dr. Justin McFadden & Dr. Brian Robinson	NGSS in the Primary Grades Hillary McWhorter K-2 - Engineering Design
9:10 - 10:10am		Presiden Regional Ed	hen Pruitt, t, Southern lucation Board r Session							

## **Vendor Session** Virtual Session

	KSTA Annual Conference - Saturday, November 5, 2022										
TIME	LOBBY	Ql A/B	JADS C/D	209	210	211	212	219	220	302	
Breakout 7 10:20-11:20am		NB	GID	Climate, Water and Resilience Training Brittany Wray, Dr. Melinda Wilder, Katherine Bullock MS, HS - Earth Science 2 hr Session 10:20am- 12:20pm KAEE	Rocketry + Avionics: Taking Data to New Heights Heather Arnett HS - Engineering Design, Physics University of Illinois Urbana- Champaign	Does Your Scientific Writing Research Hold Water? Tools to Help Students Test the Credibility of Science Reporting Larry Moore 3-5, MS, HS - All Content 1.5 hr session		How Planning and Planetarium Use Affect Students When Learning Astronomy Dr. William Thornburgh MS, HS - Astronomy	Environmental Education and Outdoor Learning Rae MEntyre K-12 - All Content (2 hr session 10:20am- 12:20pm)	Student- Centered Science Notebooks in Your Classroom Jessica Fries- Gaither K-2, 3-5 - All Content	
Breakout 8 11:30am- 12:30pm	Exhibit Hall Open				Recognizing, Reporting and Preventing Child Abuse and Neglect Sara Jenkins & Janna Estep Jordan K-12 - All Content Prevent Child Abuse Kentucky	10:20-11:50am		Resources Designed to Support Implementation of the KAS for Science Erica Baker K-12 - All Content			
Breakout 9 12:30pm-1:30pm				Professional Learning That Meets Your Needs Brittany Wray, Dr. Melinda Wilder, Katherine Bullock K-12 - Earth Sciences, Environmental Sciences KAEE	Classroom Aquaponics: Fish, fun, and (f)otosynthesis Kristin Hughes K-12 - Biology, Chemistry, Environmental Sciences, Physics Food Chain Inc.	Now Trending: Science Simulations to Make Things Stick! Jenna Mercury 3-5, MS, HS - All Content ExploreLearning		Building a Climate of Collaboration in Your Classroom Missy Weatherly & Barbara Stegman K-2, 3-5 - Earth Sciences, Engineering Design, Environmental Sciences	Using Mathematics to Deepen Understanding of Scientific Phenomena Michael Sau Pedro & Dr. Janice Gobert MS, HS - Physics InqITS		