

9th Annual Georgia NASA STEM Conference

Sessions

6th – 8th Sessions

NASA Motif: Get creative with space! Join Mr. Z and learn how art can help students explore the Moon and Mars and why creativity is importance for NASA missions. This session will include hands-on art activities including the use of virtual reality to see the Moon and Mars up close. *Presenter: Zachary Stier, Head of Children's Services at Ericson Public Library, Boone, Iowa.*

One Giant Leap: Digital Content for the Next Generation of Aerospace Learning: Utilizing partnerships with PBS Learning Media and Discovery Education, participants will learn about the latest resources for space, aviation, and engineering exploration. The session will include navigation of virtual field trips, lesson plans, career profiles and instructional strategies. *Presenter: Michael Kuenlen, Education Outreach Specialist, GPB Education.*

On the Moon – NASA & Design Squad Team Up To Inspire A New Generation of Engineers: Using the Engineering Design Process, engage your students in fun challenges that will get them to think like engineers and excited about NASA's forward to the moon missions! *Presenter: Tom Stahl, STEM Instructor, National STEM Academy, Museum of Aviation*

9th – 12th Sessions

NASA Robotics, The Georgia Standards of Excellence, and the Apollo Project Lunar Landing History: Participants will practice active learning strategies they can use with their students to learn about NASA Robotics as they relate to the Georgia Standards of Excellence, as well as the history of the Apollo lunar exploration program. *Presenter: Frank Lock, Member, NASA Network of Educator Astronaut Teachers (NEAT)*

Engaging Students in Science – Authentic Learning in a 21st Century Classroom: Explore Easy STEM Projects for Life and Physical Sciences to include Rube Goldberg Machines, Data Analysis, Air Samplers and Aquatic Life in the Classroom. Build Your Own Hovercraft! Learn how to be involved in Science Olympiad! *Presenter: Tina Perkins, Professional Educator; Retired High School Science Teacher after 33 years!*

Edutainment! Provides tools to facilitate learning through flip book animation and augmented reality, and informs teachers about the Microgravity Campaign 2020 with Project PoSSUM (Project Polar Suborbital Science in the Upper Mesosphere). *Presenter: Shayla Redmond, STEAM Unlimited, NASA Solar System Ambassador*

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PK – 2 Sessions

Ocean Mapping and Hydrodynamics Pave the Way to Mars! The path to Mars is paved with the same challenges we face studying our own planet. Come experience some fun ways to teach big concepts hands-on in your own classroom!
Presenter: Dawn Hardy, Perdue Primary/NASA GLOBE and GALILEO Educator

NASA Resources for Weather: Explore weather and climate with NASA! Through hands-on STEM activities focused on the sun, shadows, precipitation and the water cycle participants are provided fun engaging ways to excite their students in learning all about weather and climate! *Presenter: Tami Daniels, STEM Instructor, National STEM Academy, Museum of Aviation*

Train Like an Astronaut! Learn how to engage young learners with hands-on lessons related to space exploration!
Presenter: Becky Busby, Frank Long Elementary/NASA Space Educator Crew and Solar System Ambassador/Space Foundation Teacher Liaison

3rd – 5th Sessions

Orion Splashdown! Learn about the Orion capsule and use the Engineering Design Process to develop your own Orion capsule that will protect your astronaut! *Presenter: Becky Busby, Frank Long Elementary/NASA Space Educator Crew and Solar System Ambassador/Space Foundation Teacher Liaison*

Space – From the Moon to Mars: Explore why space is important and how learning about space helps integrate STEM in the classroom. Engage in hands-on activities that demonstrate the Forces of Flight, Robotic Exploration, Weightlessness and more! Experience Story Time from Space! *Presenter: Patricia Forehand, STEM Instructor, National STEM Academy, Museum of Aviation*

Getting Your Hands Dirty: Earth Science, Life Science & STEM! Rock Cycle and Soil Survey activities, setting up Mini-ecosystems, Weather Charting, Getting to know Georgia and Science Olympiad Rock Hounding! *Presenter: Tina Perkins, Professional Educator; Retired Science Teacher after 33 years!*