

## The STEM Leadership Alliance 2022 Overview



Thank you to everyone who participated and made this Summit possible! The Global STEM Leadership Alliance (SLA) Summit 2022 brought together educators, nonprofits, businesses, parents, and leaders in STEM education. The goal of the summit was to bring innovative solutions to break down the barriers that typically occur within STEM. STEM is often taught in silos and is mainly in the science classes; SLA

wants to integrate STEM across all the disciplines which means leveraging reading, writing, math, history, art, and everything because when the students draw those connections between the disciplines, they become the innovators, problem solvers, and critical thinkers that we need today and tomorrow.



The Summit focused on going to the moon because the Artemis program at NASA is happening right now. We need to go back to the moon in order for us to go to Mars, we have to learn how to live on the Moon. This is important because astronauts found water on Mars and

we want to make sure we understand what happened to Mars so that it doesn't happen to Earth.

Each day the teams were given a challenge. That challenge was to build a lunar habitat, taking things like radiation, psychological issues or concerns, waste management, food agriculture, water preservation, and electrical power into consideration. They had to be innovators while connecting all the content areas in order to be able to draw or recreate the challenge for the kids.

The days were packed with incredibly educational sessions. To view the agenda please [Click here](#).



Some of the highlights include: David C. Banks, The Chancellor of New York City Public Schools shared the importance of STEM integration and the needs of the workforce of today and tomorrow. He discussed the importance of the existing integrative STEM occurring in New York City Public Schools and the need to continue to expand teaching and learning.

Dr. Stephen Pruitt, President of the Southern Regional Education Board took a deeper look at where we have come in the last 10 years after the release of the Framework for K-12 Education and he shared the research on the need to elevate the teaching workforce is more important than ever. Business leaders presented including Sarah Steinmann, K-12 Program Lead at Southwest Airlines, Matt Lagana, Chief Technology Officer at MBIA, Michael Kohlhagen, President at Center for Educational Innovation, and Jeremiah Frink, Senior Education Strategist, Dell Technologies. The panel discussed the connections that need to occur between education and the business world. A key component was career technical education and the essential skills that are necessary for the workplace, the changes that occurred during Covid, and how businesses can support our students in a more meaningful manner to ensure that they're on track for college and or career.



Dr. Hazel Dukes, President of the NAACP New York State Conference, shared the New York NAACP Education Initiative, Connect All Kids. The Initiative brought technology to schools along with professional development to build the capacity of educators so they could develop integrative STEM units. The mission is to provide education technology and content

for every public-school student no matter their academic ability.

The National STEM Honor Society Presidents, Ken Hetch ad Dr. Maixine Cain awarded Kelli List Wells with a badge to welcome her to their Board of Directors.



Barbara Brown, Director of Exploration Research and Technology Programs at Kennedy Space Center discussed the goals of the Artemis mission. NASA will land the first woman and first person of color on the Moon, using innovative technologies to explore more of the lunar surface than ever before. We

will collaborate with commercial and international partners and establish the first long-term presence on the Moon. Then, we will use what we learn on and around the Moon to take the next giant leap: sending the first astronauts to Mars.

Joseph Dant, Chief Safety and Mission Assurance Officer for the Launch Service Program at Kennedy Space Center further enriched the conversation by sharing his work related to Artemis and how students can aspire to be part of the next generation in space.

Angelica Infante-Green, Commissioner of Education of Rhode Island

presented about ensuring equitable and accessible high-quality delivery of instruction in each discipline for all students. We had a panel where the Major STEM associations identified challenges and shared strategies as we strive to realize that "Now, more than ever integrated STEM is a must!"



On Tuesday and Wednesday, we had breakout sessions that included a range of sessions including Practitioner's Guide for School Improvement which explored the three pillars for school achievement; implementing integrative notebooking so students learn how to compile and organize their written thoughts and experiences that benefit all learners; the NASA Education Team shared resources

focused on exploring the NASA Artemis Mission as well as how to connect the classroom to vast resources and opportunities that NASA offers; the

major STEM Associations explored activities that can be built across the content areas to increase opportunities and future directions for students; Kneoworld showcased how to integrate STEM in early learning; understanding how to recruit businesses and industry professionals into the STEM teacher profession was shared from the Economic Development for Kentucky's Touchstone Energy Cooperatives (KTEC) and Director of Kennedy CTE New Teacher Institute. New York City Public Schools, District 6 had two sessions, one from PS 4 – Duke Ellington and the other from Community School district 6, MS 328, presenting how they shifted from teaching subjects in isolation to connecting the content across the disciplines using science as the hook,



each sharing their learning journey, despite the obstacles and challenges, including Covid.



The benefits of this Summit were not just what the participants took away, it was also about the learning and the connections they made with other participants. The work does not just end when the Summit is over, SLA continues to work with the teams present through ongoing professional development and webinars. The learning has just begun and next year, the Summit will continue to grow because we will have more and more learnings to share. Get ready for The STEM Leadership Alliance Summit 2023, July 9-14!