



# 2022 NC Space Symposium (Virtual)

## April 8, 2022

<b>1:00 – 1:40 pm</b>	<b>WELCOME AND KEYNOTE ADDRESS</b>
1:00-1:05 pm	Susan White, Ph.D., NC Space Grant Director
1:05-1:30 pm	Elizabeth DiGiovanni, Senior Advisor for the Future of Work, NASA Langley Research Center
1:30-1:40 pm	Moderated Q&A
<b>1:40 – 1:45 pm</b>	<b>BREAK (NCSG Student Team Showcase)</b>
<b>1:45-2:45 pm</b>	<b>RESEARCH AND TECHNOLOGY APPLICATIONS (presented by NC Space Grant Alumni)</b> <i>Moderated by: Matthew Mickens, Ph.D., Chief Science Officer, Martian Farms</i>
1:50-2:05 pm	Kirsten Hall, Ph.D., Schmidt Science Fellow and Smithsonian Astrophysical Observatory Postdoctoral Fellow, Harvard and Smithsonian Center for Astrophysics
2:07-2:22 pm	John Fuller, Director of Advanced Concepts, Virgin Orbit
2:24-2:39 pm	Lynnae Quick, Ph.D., Planetary Scientist and Associate Branch Head, NASA Goddard Space Flight Center's Planetary Geology, Geophysics and Geochemistry Lab
2:39-2:45 pm	Moderated Q&A
<b>2:45 – 2:55 pm</b>	<b>BREAK (NCSG Student Team Showcase)</b>
<b>2:55 – 3:45 pm</b>	<b>NC SPACE GRANT STUDENT LIGHTNING TALKS</b> <i>Moderated by: Tyler Hatch, Project Scientist in the Low Gravity Exploration Technology Branch, NASA Glenn Research Center</i>
3:00-3:05 pm	Richard Hollenbach, Duke University 2021-2022 Graduate Research Fellow <i>Investigation of Unsteady Aerodynamics in Turbofan Aircraft and Turbopump Rocket Engines Exhibiting Nonsynchronous Vibrations Part II</i>
3:07-3:12 pm	Kelyah Spurgeon, NC A&T State University 2021-2022 Graduate Research Fellow <i>Assessing the Effect of Microgravity on the Evolution of Streptococcus mutans Biofilms</i>
3:14-3:19 pm	Mariam Shah, NC State University Summer 2021 NASA Intern at Glenn Research Center <i>Capillary Action Research Review and its Application in NASA Experiments and Initiatives</i>
3:21-3:26 pm	Ramses Gonzalez, UNC Chapel Hill 2021-2022 Graduate Research Fellow <i>Ultra-cool EvryFlare Survey: The Search for Ultra-cool Dwarf Superflares in the Evryscope Database</i>
3:28-3:33 pm	Jessica Richter, East Carolina University 2021-2022 NC Sea/Space Grant Graduate Research Fellow <i>Shoreline Mapping in the Neuse River Estuary, NC using Object-Based Ensemble Analysis, Aerial Imagery, and LiDAR</i>
3:35-3:40 pm	Leticia Bussiere, UNC Charlotte Summer 2021 NASA Intern at Marshall Space Flight Center <i>Creation of a Technical Handbook for NASA's Disruptive Modal Coupling Concepts and Technologies</i>
3:40-3:45 pm	Moderated Q&A

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<b>3:45 – 3:50 pm</b>	<b>BREAK (NCSG Student Team Showcase)</b>
<b>3:50 – 4:55 pm</b>	<b>CAREERS IN SPACE</b> <i>Moderated by: James Ainsworth, Director of Engineering Services, Collier Aerospace</i>
	<p>Panelists include:</p> <p>Nancy Hall, Research Scientist – <b>NASA Glenn Research Center</b></p> <p>Diana Ly, Earth Science Deputy Chief – <b>NASA Ames Research Center</b></p> <p>Cynthia Martin-Brennan, Board of Managers – <b>Space Tango</b></p> <p>Jeff Mobley, Senior Director, Electro-Mechanical Systems – <b>Sierra Space</b></p> <p>First Lieutenant Nicole Quattrociocchi, Project Lead – <b>SpaceWERX, United States Space Force</b></p> <p>Rachel Smith, Ph.D., Head of the Astronomy and Astrophysics Lab and Curator of Meteorites – <b>NC Museum of Natural Sciences</b>  <i>Rachel also serves as an Associate Professor of Physics &amp; Astronomy at Appalachian State University, and Adjunct Professor of Physics &amp; Astronomy at UNC Chapel Hill</i></p>
<b>4:55 – 5:00 pm</b>	<b>CLOSING REMARKS</b> Jobi Cook, Associate Director, NC Space Grant