

2024 Spaceport America Cup Podium Session Schedule: Track 1

| Time | Team | Judges | School | Subject |
|--------------------------------|------|-----------------------------------|--|---|
| 0900 | 11 | Justin Kissel Jamie Holbrook | Brigham Young University | Modal Analysis of an SRAD Carbon Fiber Rocket Airframe |
| 0930 | 25 | Dr. Bill Hanson Willow Baker | Duke University | Development of Strain-Sensing Fins |
| 1000 | 52 | Mark Czerner Jeremiah Ruston | Kent State University | Thermal Analysis of Motor Casing and Tube in Rocket Propulsion Systems |
| 1030 | 39 | Mark Czerner Addison Miller | George Washington University | Thermal & Pressure Analysis Systems (TPAS) |
| Lunch 11:00am – 12:00pm | | | | |
| 1200 | 43 | Tim Kissel Robert Doyle | Indian Institute of Technology Madras | Active Roll Control of a Sounding Rocket Using Canards |
| 1230 | 45 | Tim Kissel Robert Doyle | Institute for Technology and Innovation Management, Mahidol University | Extensive Testing, Standardization and Formalization of KNSB-Based Solid Rocket Motor |
| 1300 | 46 | Tim Kissel Robert Doyle | Instituto Politecnico Nacional - Campus Guanajuato | Natural fiber-based composite material in experimental Rocketry |
| 1330 | 33 | Brett Michal Tim Gallus | Federal University of Juiz de Fora | Supervisory System for Rocket Tracking and Data Acquisition |
| 1400 | 55 | Nathan Aquilio Jeremiah Ruston | Liberty University | LoRA Networking System Presentation |
| 1430 | 61 | Nathan Aquilio Jeremiah Ruston | Mississippi State University | Composite Materials Characterization for Rocket Design Optimization |
| 1500 | 66 | Max Benson Mike Bertin | New Mexico State University | Enhancing Altitude Control in Aerospace Systems |
| 1530 | 75 | Rick Wills Ralph Lucero | Rice University | Injector Plate Epoxy Method |

Alternate:

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| 141 | Steven Morris Benjamin English Adam Takeshita | University of Washington - Seattle | Pi-Bonded Carbon Fiber Composite Fins |
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2024 Spaceport America Cup Podium Session Schedule: Track 2

| Time | Team | Judge | School | Subject |
|--------------------------------|------|--|---|---|
| 0900 | 78 | Joy Sangsrichan Erich Wuersching | Rutgers University, The State University Of New Jersey | Design, Testing, & Analysis of Avionics Vibration Risk Mitigation Strategies |
| 0930 | 107 | Ken Biba Brett Michal | Polytechnic University of Catalonia | Supersonic Aerodynamic Model Validation Through 30,000 ft Supersonic Rocket Launch |
| 1000 | 89 | Brett Bachman Marco Rosa | Technical University Munich | WESP Solid Propellant Rocketry tool |
| 1030 | 111 | Rick Wills Ken Biba | University of Calgary | Dracarys I Hybrid Rocket Motor Development |
| Lunch 11:00am to 12:00n | | | | |
| 1200 | 112 | Hanna Kruse Ramy Sisy Steven Dobson | University of California Berkeley | Design and Testing of Custom Flight Controller Boards For Live Telemetry and Active Control of a Two Stage Vehicle |
| 1230 | 116 | Isaac Samodell Shawn Lonasee Steven Dobson | University of Florida | Iterative Development and Analysis of a Modular Motor Retention System |
| 1300 | 121 | Isaac Samodell Shawn Lonasee Troy Pacheo | University of Maryland, College Park | The Evaluation of Various Controller Architectures for an Airbrake on a High-Powered Rocket |
| 1330 | 124 | Mark Czerner Shawn Lonasee | University of Minnesota, Twin Cities | Fully Knotless Recovery Harness and Parachute Design for Elimination of Stress Concentrations |
| 1400 | 137 | Steven Morris Mike Bertin | University of Texas at San Antonio | Using Laser Spectroscopy to Measure and Estimate Chamber Temperature of SRAD Solid Propellant |
| 1430 | 147 | Brahm Soltes Benjamin English | Virginia Polytechnic Institute and State University | Iteration Upon a Closed-Loop Active Drag System for Coast Phase Apogee Control of a Sounding Rocket |
| 1500 | 144 | Brahm Soltes Benjamin English Mitchell Hoffman | Utah State University | SRAD Simulation of Sounding Rockets with Classical Control for Altitude and Iterative Design |
| 1530 | 151 | Brahm Soltes Michael Kio | Worcester Polytechnic Institute | Design of a Static Radio System for High-Altitude Amateur Rocket Flights |

Alternate:

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| 152 | Rick Wills Michael Kio | Wroclaw University of Science and Technology | Design, analysis, and testing of pneumatic recovery system |
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