

AIAA Region V Student Paper Conference Day 1 April 2nd 2021

All Times Are in CDT

Start Time	End Time	Activity	Location	Main Presenter	Title
9:15	9:30	Opening Remarks	Main Room	Barrett McCann	Welcome Remarks
9:30	10:00	Presentation Group 1 UG	Presentation Room 1	Grant Schlichting	Aerodynamic and Static Stability Analysis of Aerial Tow Rehookup Grid Fin Deflection and Control Law
			Presentation Room 2	Trae Pennington	The Influence of Boundary Conditions on the Dynamic Deformation of Flexible Fabric at a Low Reynolds Number
10:00	10:05	Break			
10:05	10:35	Presentation Group 2 UG	Presentation Room 1	Matthew Chmiel	An Innovative Approach to Evaluate the Complex Dynamic Stability of the NASA Orion Crew Module
			Presentation Room 2	Sheyma Ben Mabrouk	Effect of Radial Lift Coefficient Distribution on Propeller Aerodynamic Efficiency and Near Field Sound Pressure Level
10:35	10:40	Break			
10:40	11:10	Presentation Group 3 UG	Presentation Room 1	Mohamed Mili	FTIR In-Situ Measurements of Ethylene and Nitrous Oxide Detonations in a Linear Detonation Combustor
			Presentation Room 2	Judith Brown	Using Nonlinear Vibration Absorbers to Mitigate Unwanted Motion in High-aspect-ratio Wings
11:10	11:15	Break			
11:15	11:45	Presentation Group 4 UG	Presentation Room 1	Noah Pritchard	Relationships Between Characteristic Detonation Length Scales
			Presentation Room 2	N/A	
11:45	12:30	Lunch			
12:30	1:15	Kahoot Air and Space Trivia Contest!	Main Room		
1:15	1:45	Presentation Group 5 UG	Presentation Room 1	Luca Zeitvogel	Effect of Varying Propeller Pitch Angle on Efficiency and Noise Production
			Presentation Room 2	Emily Berexa	Experimental Investigation of Shark Skin-Inspired Surface Treatments
1:45	1:50	Break			
1:50	2:20	Presentation Group 6 Team	Presentation Room 1	Megan Jones	A Novel UAV-based Approach to Calculating River Discharge Utilizing Particle Image Velocimetry and Deployed In-Situ Depth Sensing Sonar
			Presentation Room 2	John Kloser	Spacecraft Prototype Investigating Reduced Lifetime Preliminary Design Report
2:20	2:25	Break			
2:25	2:55	Presentation Group 7 Team	Presentation Room 1	Samantha Carlowicz	Wayfinder in Space, Descending Onto Moon (WIS•DOM): A Mission Concept for CubeSat Lunar Landers
			Presentation Room 2	Steven Solloway	Project Magnus -- a Detailed Investigation of Magnus Effect Based Control Surfaces
2:55	3:00	Break			
3:00	3:30	Presentation Group 8 Team	Presentation Room 1	Natalie Dilts	Cool Science Rocket Engine Display Project
			Presentation Room 2	Margaux McFarland	Designing a Hydraulic Telescoping Mast for a Fire Surveillance Rover
3:30	4:00	Closing Remarks	Main Room	AIAA Executive Director Dan Dumbacher	

AIAA Region V Student Paper Conference Day 2 April 3rd 2021

All Times are in CDT

Start Time	End Time	Activity	Location	Main Presenter	Title	
9:15	9:30	Opening Remarks	Main Room	Ulowa AIAA Student Members		
9:30	10:00	Presentation Group 9 Team	Presentation Room 1	William Watkins	Engine Inlet Design and CFD Analysis for a Small RC Turbojet Engine	
			Presentation Room 2	Justin Fantroy	Sweet Lightning: AUVSI Capstone Project	
10:00	10:05	Break				
10:05	10:35	Presentation Group 10 Team	Presentation Room 1	Courtney Kelsey	Functional LIDAR Analysis of Structural Health (FLASH)	
			Presentation Room 2	Daniel Barth	Commercialization of a Stratospheric Aerosol Profiling System	
10:35	10:40	Break				
10:40	11:10	Presentation Group 11 Team	Presentation Room 1	Ross Alumbaugh	NASA 2024: Human Landing System Design Concept	
			Presentation Room 2	Baily Rice	CHAIR - Cueing Via Haptics And Inner-ear Responses	
11:10	11:15	Break				
11:15	11:45	Presentation Group 12 Team	Presentation Room 1	Benjamin Alva	Vibrissae Inspired Mechanical Obstacle Avoidance Sensor for the Venus Exploration Rover AREE	
			Presentation Room 2	Maxim Strehle	Hybrid Rocket Engine Simulation and Development, Project Polaris	
11:45	12:30	Lunch				
12:30	1:15	Speaker	Main Room			
1:15	1:45	Presentation Group 13 Team	Presentation Room 1	Jason Balke	Object Detection and Collision Determination for a Satellite Collision Avoidance System	
			Presentation Room 2	N/A		
1:45	1:50	Break				
1:50	2:20	Presentation Group 14 Team	Presentation Room 1	Brendan Smith	IceHawks Mars Sample Return Mission Design	
			Presentation Room 2	N/A		
2:20	2:25	Break				
2:25	2:55	Presentation Group 15 Team	Presentation Room 1	Joe Ruis	Design of a Spacecraft Mission to Explore Earth Trojan Asteroid 2010 TK7	
			Presentation Room 2	N/A		
2:55	3:00	Break				
3:00	3:30	Presentation Group 16 Team	Presentation Room 1	Keith Poletti	Passive Orbit Determination Based on Time Delay of Arrival	
			Presentation Room 2	N/A		
3:30	4:00	Social	Any Room			
4:00	5:00	Keynote Speaker	Main Room	Dr. Don Thomas		
5:00	5:45	Awards	Main Room			