



2020 Oregon NASA Space Grant Consortium Virtual Student Symposium

PRESENTATION SCHEDULE

Friday, November 13, 2020, 9-3 PM OSGC Virtual Student Symposium		
9-10am	WELCOME – Jack Higginbotham, Ph.D. Director, Oregon NASA Space Grant KEYNOTE ADDRESS – Fredrick Colwell, Ph.D. Oregon State University <i>Microbiology of the Planet, One Gig at a Time</i>	
	SESSION A Moderator: Nancy Staus, Ph.D.	SESSION B Moderator: Kathryn Sinor
10:30am	[A-1] Rowan Parker Oregon Institute of Technology NASA Goddard Space Flight Center Internship <i>Next Steps: Laying the Groundwork for Bundle Protocol v7</i>	[B-1] Jason Burns Oregon State University NASA Glenn Research Center Internship <i>Life Support Filtration Systems Developments</i>
10:40am	[A-2] Olivia Clark* Colton Harms Justin Morgan Adam Ragle Oregon State University OSGC Undergraduate Team Experience Award <i>High Altitude Liquid Engine (HALE) Team: Oregon State University</i>	[B-2] Patrick Cornwall Davia Fleming* Carter Knutson Justin Ringle Laura Sanchez Oregon Institute of Technology OSGC Undergraduate Team Experience Award <i>RockSat-C: Experiments and Expected Results</i>
10:50am	[A-3] Oleg Krishcko Portland State University OSGC Virtual Summer Internship <i>The Topology and Stability of Drops at Open Tube Ends</i>	[B-3] Huy Nguyen Pacific University OSGC Affiliate Faculty Research Incubator Award Program <i>Designing an Educational Exhibit on Orbital Dynamics within the Earth-Moon System</i>
11:00am	[A-4] Jessica Jorgens Oregon State University NASA Marshall Space Flight Center Internship <i>Creating a Canfield Joint for Gimbaled Thrusters</i>	[B-4] Catie Spivey Portland State University NASA Langley Research Center Internship <i>NASA Langley Academy</i>
11:10am	[A-5] Haley Davis Chloe Gan* Kevin Hoser Sam Kreifels Alex Schendel University of Portland OSGC Undergraduate Team Experience Award <i>NASA 2019 Robotics Mining Competition</i>	[B-5] Amy Caldwell* Nathan Kentner Nicole LeRoux Jessica Peterson Oregon State University OSGC Undergraduate Team Experience Award <i>2019-2020 NASA University Student Launch Initiative (OSU USLI) Competition Team</i>
11:20am	[A-6] Chase Keller Jack Richardson Oregon State University OSGC Virtual Summer Internship <i>Summary of Biomechanics of Hind-end Loading Techniques for Rodent Microgravity and Lunar Gravity Simulations</i>	[B-6] Steen Rasmussen Oregon Institute of Technology OSGC Virtual Summer Internship <i>Oregon Tech Rocketry and Aerospace (OTRA) Space Debris Prototype Board</i>
11:30am	[A-7] Ian Ellis* Sarah Malpass Onar Smith University of Oregon OSGC Undergraduate Team Experience Award and Virtual Summer Internship <i>TorqueDucks on Magnetorquers</i>	[B-7] Cory Gillette Kathleen Joslyn* Marc Wasserman Portland State University OSGC Undergraduate Team Experience Award <i>Redesigning the PSAS Liquid Fuel Engine for the Base 11 Space Challenge</i>

11:40am	[A-8] Peter Strohmaier Oregon State University NASA Langley Research Center Internship <i>Enabling Sustained Presence Using Recyclables (ESPUR)</i>	[B-8] Logan Francisco Oregon Institute of Technology OSGC Virtual Summer Internship <i>Detection Software for the Oregon Tech Space Debris Detection Payload</i>
11:50am	Q & A	Q & A
12-1pm	LUNCH BREAK	
AFTERNOON SESSIONS		
	SESSION C Moderator: Randall Milstein, Ph.D.	SESSION D Moderator: Kathryn Sinor
1:00pm	[C-1] Sean Lai Portland State University NASA Langley Research Center Internship <i>Fatigue Crack Diagnosis using Embedded Fiber Optic Strain Sensors</i>	[D-1] Gabriela Griffin Oregon State University NASA Langley Research Center Internship <i>Streamlining the ACS3 Solar Sail Manufacturing Process</i>
1:10pm	[C-2] Codey Winslow Oregon Institute of Technology OSGC Virtual Summer Internship <i>Optimized Learning with Virtual Reality</i>	[D-2] Kaseylin Yoke Oregon State University NASA Goddard Space Flight Center Internship <i>Optical Analysis of Ion-beam Figuring Polished Silicon Wafers</i>
1:20pm	[C-3] Leah Hanen Oregon State University NASA Marshall Space Flight Center Internship <i>Feasibility Study of a Lunar Sample Return</i>	[D-3] Clement Forbes Izikaula Huntley Adrian A. Jimenez* Taylor L. Lohrie Faye Nieman Portland Community College Southeast Campus Undergraduate Team Experience Award <i>Aquaponics as a Food Source for Long-Term Interplanetary and Lunar Expeditions</i>
1:30pm	[C-4] Umair Khan Catie Spivey* Portland State University OSGC Undergraduate Team Experience Award <i>Design and Test of the OreSat Cirrus Flux Camera</i>	[D-4] Nathan Wiley Oregon Institute of Technology OSGC Virtual Summer Internship <i>Artemis Student Challenge</i>
1:40pm	[C-5] Brandon Foose Logan Francisco Rowan Parker* Steen Rasmussen Joseph Saxon Oregon Institute of Technology OSGC Undergraduate Team Experience Award <i>Oregon Tech Space Debris Detection Payload for CubeSats</i>	[D-5] Mandy Kiger Oregon State University NASA Marshall Space Flight Center Internship <i>Analysis of a Ring Assembly for Adapting a Mars Transfer Vehicle and Transit Stage for Artificial Gravity</i>
1:50-2pm	BREAK	
2:00pm	[C-6] Jacob Beder University of Oregon NASA Johnson Space Flight Center Internship <i>Backup Flight Software for Project Orion</i>	[D-6] Theodor Giles* Kai Hattan Jay Sucharitakul Oregon Institute of Technology OSGC Affiliate Faculty Research Incubator Award Program <i>Oregon Tech Underwater Robotics</i>
2:10pm	[C-7] Eren Bikmaz Oregon Institute of Technology OSGC Virtual Summer Internship <i>Solar Sailing Simulator</i>	[D-7] Oleg Krishcko Portland State University OSGC Undergraduate Team Experience Award <i>Thermal Analysis and Testing of Oregon's First Satellite</i>
2:20pm	[C-8] Craig Weeks Oregon State University NASA Glenn Research Center Internship <i>Hardware Design for an Efficient Inverter used in Electric Aircraft Power Systems</i>	[D-8] Noah Cayson Brandon Foose* Oregon Institute of Technology OSGC Undergraduate Team Experience Award <i>Thrust Vectoring Toroidal Aerospike</i>
2:30pm	[C-9] Kaitlyn Dickinson Oregon Institute of Technology NASA Ames Research Center Internship <i>Celestial Mapping System</i>	[D-9] Grace Semerjian Portland State University OSGC Virtual Summer Internship <i>Quasi-Infinite and Zero Stiffness Magnetic Spring for Space Applications</i>

2:40pm	<p>[C-10]</p> <p>Joshua Bamberger Edgar Jimenez* Oregon State University OSGC Undergraduate Team Experience Award <i>2019-2020 Design Build Fly Competition Team</i></p>	<p>[D-10]</p> <p>David H. Beal Isaac Gilmer Mario Segura* Oregon Institute of Technology OSGC Affiliate Faculty Research Incubator Award Program <i>Lava Tube Diver Vehicle</i></p>
2:50pm	<p>[C-11]</p> <p>Jerika Christman Oregon State University NASA Goddard Space Flight Center Internship <i>SMA Cataloguing System Creation for Standard Component Commodity Usage Guidelines (CUGs) Specifically for Charge-Coupled Devices (CCDs)</i></p>	
3:00pm	SSESSIONS ADJOURN	
3-4pm	Q&A Zoom Informal Mixer – Breakout rooms organized by Session A, B, C, D	

* Team Lead