

	Virginia Space Grant Consortium					
	Student Research Conference Agenda					
	Omni Hotel, Newport News, Virginia					
	April 18, 2011					
8:00-8:30	Registration and Continental Breakfast					
8:30-8:45	Mary Sandy, VSGC Director and Chris Carter, VSGC Deputy Director Ballroom					
	Breakout I Huntington Ballroom D		Breakout II Amphitheater		Breakout III James River Room B	
	Session	Presenter	Session	Presenter	Session	Presenter
8:50 a.m.	Applied Science Session Chair: Dr. Cara Leckey-NASA Langley and Graduate Fellow Alumni, WM	Jonathan Stocking - UVA A Capacitance-Based Whisker-Like Fluid Motion Sensor	Planetary Science Session Chair: Dr. Laurie Sanderson- WM	Kate Craft - VT Dike Emplacement, Ice Melt and Hydrothermal Processes on Mars	Aerospace Session Chair: Kara Olson- ODU and Graduate Fellow Alumni, ODU	Tyler Aarons - VT Aeroelastic Scaled Flight Test of a Joined Wing SensorCraft Configuration
9:05 a.m.		William Eberhardt - UVA A Bio-Inspired Sensor for Fluid Motion Detection		Meredith Elrod- UVA Plasma Variations in Saturn's Inner Magnetosphere from the Main Rings to Enceladus		Kathleen Tran - VT One Dimensional Analysis Program for Scramjet and Ramjet Flowpaths
9:20 a.m.		Elizabeth Voigt - VT Hydrodynamic Characterization of an Arterial Flow Bioreactor	Applied Physics Session Chair: Dr. Pat McCormick- HU	Jonathan Skuza - WM Development of Novel Magneto-Plasmonic Sensors of Interest in Space Applications		Erin Reed - UVA Investigation of Interactions of Reaction Control System Jets with MSL Aeroshell
9:35 a.m.		Judith Providence - WM Execution Trace Analysis for the Software Development of Safety-Critical Systems		Benjamin Robinson - ODU Design of a Miniature Lidar System for Rover Applications		Lauren Butt - VT Aeroelastic Analysis for Near-Space Applications in Ultra-Large Aspect Ratio Wings
9:50 a.m.		Erin Crede - VT Beyond the Bachelors Degree: Increasing Domestic Student Participation in Engineering Graduate Programs		Brendyn Sarnacki - UVA Experimental Validation of Reduced Chemical Kinetic Models for Scramjet Propulsion		Jennifer Camp - WM Aviation in the Alaskan Frontier
10:05-10:35 a.m.	Break -- Undergraduate Research Scholar Poster Presentations Ballroom C					

	Breakout I Huntington Ballroom D		Breakout II Amphitheater		Breakout III James River Room B	
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10:40 a.m.	Applied Science Session Chair: Dr. Cara Leckey-NASA Langley and Graduate Fellow Alumni, WM	Corey Miller - WM Unique Identification of Radio Frequency Identification (RFID) Tags	Applied Physics Session Chair: Dr. Mileta Tomovic-ODU	Matthew Simons - WM Whispering Gallery Mode Resonators for Quantum Optics and Information Experiments	Aerospace Session Chair: Kara Olson-ODU and Graduate Fellow Alumni, ODU	Joshua Codini - UVA Investigations of Peripheral 4-Jet Sonic and Supersonic Propulsive Deceleration Jets on a Mars Science Laboratory Aeroshell
10:55 a.m.		Jonathan Backens - ODU Cognitive Radio Applications in Wireless Mesh Networks		Candice Rockell Gerstner-ODU Verification Studies of a Three-Dimensional GRNTRN Code in Both Laboratory and Space		Joleen Miller-Carlberg - UVA Searching for Chemical Evidence of Planet Engulfment in Rapidly Rotating Red Giant Stars
11:10 a.m.		Jakob Harmon - UVA Digital Baseband Predistortion for TDRSS		Christina Johnson - UVA Experimental Investigation of Airfoil Thermosyphons for Thermal Management of Next Generation Aircraft		Christopher Rock - VT Progress Report for Scramjet Research for VSGC Graduate Fellowship Program
11:25 a.m.		M. Austin Creasy - VT Modeling Bilayer Systems and Electrical Networks		Kristin Busa - UVA Development of Capability of Water Flux Measurement in a Scramjet Combustor Using Tunable Diode Laser Absorption Tomography and Steroscopic PIV		Scott Tedesco - ODU Model Verification and Validation for Multi-Body Dynamics and Impact Testing
11:40 a.m.		Michael Smayda - UVA Test Program to Isolate Test Facility Effects on Performance of a Dual-Mode Scramjet				Astrophysics Session Chair: Kara Olson

<p>Noon-2:00 p.m.</p>	<p>Luncheon to Honor the 2010-2011 Research Scholars and Fellows Sponsored by University of Virginia Dr. Eric Loth, Professor and Associate Chair of Aerospace Engineering, University of Virginia "Flow Control for Quiet Supersonic Inlets" Ballroom</p>					
<p>2:00-2:40 p.m.</p>	<p>Break -- Undergraduate Research Scholar Poster Presentations Ballroom C</p>					
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	<p>Session</p>	<p>Presenter</p>	<p>Session</p>	<p>Presenter</p>	<p>Session</p>	<p>Presenter</p>
<p>2:45 p.m.</p>	<p>Applied Science Session Chair: Dr. Tahani Amer-NASA Langley and Graduate Fellow Alumni, ODU</p>	<p>Malcom Gethers - WM Performing Impact Analysis Using the Relation Topic Based Coupling</p>	<p>Applied Physics Session Chair: Dr. Gon Namkoong-ODU</p>	<p>John Leckey - WM Qweak: A Search for New Physics</p>	<p>Astrophysics Session Chair: Dr. Richard Patterson-UVA</p>	<p>George Trammell - UVA Characterizing Mass Loss From Tidally-Locked Exoplanets</p>
<p>3:00 p.m.</p>		<p>Maryse Leandre - HU Population Dynamics of the Bacterial Community During Tunicate Decomposition</p>		<p>Orenthal Tucker - UVA Direct Monte Carlo Simulations of Thermally Driven Atmospheric Escape: Applications to Titan and Pluto</p>		<p>Ryan Fortenberry - VT Electronically Excited States of Interstellar Anions</p>
<p>3:15 p.m.</p>		<p>Jason Westerbeck - WM A Role for Stubls in Chromosome Maintenance</p>		<p>Patrick Boland - ODU Simulation of Organic/Inorganic Tandem Solar Cells</p>		<p>Lisa May Walker - UVA Impact of the Compact Group Environment on Galaxy Evolution</p>
<p>3:30 p.m.</p>	<p>Closing -- Chris Carter, VSGC -- Amphitheater</p>					