

YPSE-09 PROGRAM AT A GLANCE
FRIDAY November 6, 2009

8:00-8:45 **BREAKFAST**

8:15 **REGISTRATION DESK
OPENS**

SESSION A	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
9:00 - 10:40	A1	A2	A3	A4	A5		Reserved	SPEAKERS' ROOM

10:40-11:00 **Coffee Break**

SESSION B	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
11:00-12:40	B1	B2	B3	B4	B5		Reserved	SPEAKERS' ROOM

12:40-1:45 **LUNCH**

1:45-2:45	Key Note Address: Dr. Laurie Leshin, Deputy Director for Science and Technology, NASA Goddard Space Flight Center Extreme Makeover: Hubble Edition Kossiakoff Center Auditorium								
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SESSION C	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8
2:45-4:25	C1	C2	C3	C4	C5		RAC Meeting	SPEAKERS' ROOM

4:25-5:15 **Coffee Break and
Judges' deliberation
for student prizes**

5:15-5:45 **Student Award
Presentations**

5:45 P.M. **End of Friday Program**

YPSE09 Preliminary Schedule

session name	last	first	presentation title	organization
A1	Hasnain	Zohaib	Active Flow Control: Synthetic Jet-Cross Flow Interactions	UMD
A1	Kolluru	Sid	Active Flow Control: Flow Over Bluff Bodies Using Synthetic Jet Actuators	
A1	Cesmeci	Sevki	Modeling and Testing of a Field-controllable Magnetorheological Fluid Damper	UMD
A1	Wilson2	Nick	Performance Robustness of a Magnetorheological Seat Suspension to Temperature Variations	UMD
A2	Wadsley	Brian J.	Hypersonic Boost-Glide Vehicle Trajectory Optimization for Conventional Weapon System Application	JHU/APL
A2	Manning	Kyle C.	Solar Probe Plus Solar Cell Dust Analysis	JHUAPL
A2	Dawson	Jennifer	Development of a Precision Differential Accelerometer for Satellite Test of the Equivalence Principle (STEP)	York College of PA
A2				
A3	Liu	Zisen	Automated Validation of CFD Codes for Analysis of Scramjet Propulsive Flows Using CRAVE	CRAFT Tech
A3	Comberiate	Joseph	UV Imaging of Ionospheric Irregularities Using Multiple Satellites	JHUAPL
A3	Rodriguez-Rui	Juan E.	Innovative Thermal Control Method for High Current Wire Bundles	NASA GSFC
A3	Miller	Ethan S.	Initiation of Equatorial Plasma Depletions: Review and Open Questions	JHUAPL
A4	Bradshaw	Heather	Morphing Space Suit Design: a Range-of-Motion Study	UMD
A4	Castano	Lina	Fabric Sensors, and Enabling Technology for Smart Socks	UMD
A4	Husain	Syed-Ali	Investigation of Life Support and Habitability Requirements for Pressurized Lunar Rover	UMD
A4	Smith	Rebekah A.	Analysis of Common Aircraft Electrical System Faults	Liberty University
B1	Raza	Awais	Supervisory Control of an MAV Swarm Using an Iphone	UMD
B1	L'afflitto2	Andrea	Applications of Calculus of Variations to Aircraft and Spacecraft Path Planning	VT
B1	Morris	Trey Jonatha	Wireless Ground Based Data Acquisition System Validation for Future Space Missions	PSU
B1				
C1	Davis	James	An Experiment to Assess the Meteoroid and Orbital Debris Environment	USNA
C1	Janca	Elizabeth L.	Microdosimeter Instrument (MIDN-II) for Personnel Dosimetry	USNA
C1	Ellsberry	Andrew	Long Range Link Testing of Commercial off the Shelf Radio Modules for Stratospheric Communications	UMD
C1	Meyer	Laura	Cansat Competition: Small Aerospace Systems Design	UMD
B2	Escobar	Esteban	Environmental Aeronautics	JHU
B2	Aguilera	Camilo	Scramjet Mixing Control Using Fin-Guided Fuel Injection	UMD
B2	Palooparambil	Ashish	Harvesting Gases in LEO to Propel Spacecraft	WPI
B2	Hallock	Ashley	Current Sheet Formation in the Faraday Accelerator with RF Assisted Discharge and Conical Theta Pinch	Princeton
B3	Keim	Nicholas	Development, Data Collection, and Uses of the CPIAC Space Launch Log	JHU
B3	Owen	David	Apollo Spacecraft Propulsion Systems	JHU
B3	Congdon	Elizabeth A.	Thermal Conductivity of Low Density Carbon Foams for Solar Probe Plus	JHUAPL
B3	Emhoff	Jerold	Simulating Burning of Randomly Porous Propellant	JHUAPL
B4	Wilson	William	Flux-Pinning Micro-Gravity Team	Cornell
B4	Arney	Dale	Modeling Space Architectures Through Graph Theory	Georgia Tech
B4	Hemke	Matt	Swift Racer: The Flying Wing, Unlimited Class Air Racer	UW-Madison
B4	Rockell	Candice L.	Preliminary Steps Toward the Development of a 3-Dimensional Green's Function Code for Radiation Transport	ODU
A5	Johnson	Alex C.	Finite Element Analysis for Stresses Induced by Pits Due to Corrosion and Fatigue in Metals	VCU
A5	Slemp	Wesley	Combined Compression-Shear Testing of the Curvilinear Stiffened Panels	VT
A5	Syedaghazari	Babak	Image Analysis for Corrosion Damage Classification and Prediction	VCU
A5				
C4	McReavy	David	Human Spaceflight Policy and the Orion Crew Exploration Vehicle	LMCO
C4	Silva	Jackelyne P.	Minimizing Cost and Improving Schedule Performance for Traditional Process of Test Plans and Fabrication Specifications	LMCO
C4	Blaaha	George A.	Modeling Student Interest and Proficiency in Science, Technology, Engineering and Mathematics	Raytheon
C4				
C3	Brown	Ainsmar Xavier	UAV Research at ARL	Georgia Tech/U.S. ARL
C3	Carroll	Thomas	Energy and Climate Change	LMCO
C3	Wada	Umar	Direction of Science and the Impact on Civilization	
C3	Hearsey	Christopher	Designation of Sites and Artifacts on the World Heritage Sites List	Outer Space Policy
C5	Chen	Yin	Comparison of Base Drag Calculation Methods	Picatunny
C5	Duca	Marco	Computational Melt Pour Modeling of 60mm M888 Mortar Projectile	Picatunny
C5	Ritt	Marc	Range Enhancement of Conventional Mortar Munitions	Picatunny
C5	Recchia	Tom	VAPM ARDEC 6DOF/GNC Development	Picatunny
B5	Hacker	Jennifer	Application of L1 Adaptive Controllers in Aerospace Industries	Picatunny
B5	Hamburg	Shanti	Preliminary Aerodynamic Design of a Super-Portable Ruggedized Micro Air Vehicle	Picatunny/WVU
B5	Coffin	Peter	DATCOM Small UAV Design Considerations and Wind Tunnel Experimental Verification	Picatunny
B5	Weinert	Andrew	WASP, a Factor Based Model for Aerial Terrorism	PSU
C2	White	Melvin J.	Systems Perspectives Workshop: Working with Other Disciplines	JHUAPL
Special Session	Howard	Tim	Career Enhancement	AIAA