WEDNESDAY, April 24, 2013				
7:30 AM 9:00 AM 9:20 AM	Registration & Breakfast Opening Comments – Dr. Jordi Puig-Suari, CubeSat Event Sponsor Welcome – Gregory Kehrl, Athena/ Lockheed Martin	•		
9:25 AM	Keynote Presentation – Jason Crusan, Director, Advanced Exploration Systems Division, NASA Human Exploration and Operations Directorate			
Session 1:	Education and Design Philosophy	•		
9:45 AM	OPEN and OpenOrbiter: a Needs-Responsive Solution for the Small Satellite Community, Jeremy Straub and Atif Mohammad, University of North Dakota	•		
10:00 AM	A Proposed Method for CubeSat Mission Risk Analysis, Katharine Brumbaugh, UT Austin			
10:15 AM	Break			
11:00 AM	Implementation of SDM-Lite for Space Plug and Play Avionics (SPA) CubeSats, Zachary Jacobs, Max Bezold, Chris Mitchell, James Lumpp, University of Kentucky Space Systems Lab			
11:15 AM	CubeSat Thermal Testbed (CTTB), Andrew Kalman, Pumpkin, Inc.			
11:30 AM	Improving CubeSat Communications, Nestor Voronka, Tethers Unlimited Inc.			
11:45 AM	Design of an Asymmetric CubeSat Ground System, Quinn McGehan, Vignesh Muralidharan, Michael Trowbridge, Colorado Space Grant Consortium			
12:00 PM	Valley Christian High School STEM Outreach Program, Dan Saldana, Valley Christian High School of San Jose, California			
12:15 PM	Lunch			
Session 2:	University Missions			
1:45 PM	The CzechTechSat - A Space-Friendly CubeSat-Class Picosatellite, Jaroslav Laifr, Czech Technical University in Prague, Astronomical Institute of Czech Academy of Sciences			
2:00 PM	CubeSat to CubeSat Laser Ranging for Geodesy, Formation Flying, and Fundamental Physics Experiments in Space, Karthik Balakrishnan, Stanford University			
2:15 PM	High Reliability CubeSat Software with SPARK/Ada, Dr. Carl S. Brandon, Vermont Technical College			
2:30 PM	CubeSat Deformable Mirror Demonstration, Kerri Cahoy, MIT	:		
2:45 PM	DragonSat-1 Ready for Launch, Jin Kang, U.S. Naval Academy			
3:00 PM	Break			
3:30 PM	A Model for the Development of the C&DH of the Mission			

Libertad 2, Claudio Marcel Hernández Calderón, Sergio

SNAPS -- A Novel Imaging Nanosatellite, Andrew Kalman,

CP9 and StangSat Mission Overview, Adam Darley and Jeff

Dynamics and Control Design for the Drag-free CubeSat,

Lessons Learned through Operations with a Federated Ground Station Network, John C. Springmann and James

Arboleda University

Stanford University

Weaver, PolySat

Closing Remarks

W. Cutler, University of Michigan

Anh Nguyen, University of Florida

Banquet at the Madonna Inn Expo Center

3:45 PM

4:00 PM

4:15 PM

4:30 PM

4:45 PM

6:30 PM

THURSDAY, April 25, 2013

8:00 AM	Registration & Breakfast
9:00 AM	Keynote Presentation - Therese Moretto Jorgensen,
	Program Director, Division of Geospace and Atmospheric
	Sciences, National Science Foundation

Section 2: Science Missions

Session 3:	Science Missions
9:20 AM	SENSE: The Space Environmental NanoSatellite
	Experiment, Alejandro Levi, Developmental Planning
	Directorate, USAF Space and Missile Systems Center
9:35 AM	JPL Does CubeSats, Anthony Freeman, Jet Propulsion
	Laboratory, California Institute of Technology
9:50 AM	Dual-spinning CubeSat: Building the Microsized
	Microwave Atmospheric Satellite, Kerri Cahoy, MIT
10:05 AM	NASA Warming up to CubeSats for Science and
	Technology, David M. Klumpar, NASA Science Mission
	Directorate, Heliophysics Division
10:20 AM	Proximity Operations Nano-Satellite Flight Demonstration
	Overview, Scott MacGillivray, Tyvak Nano-Satellite
	Systems LLC
10:35 AM	Break
11:00 AM	NASA GSFC CubeSat Activities, Tom Flatley, NASA
	Goddard Space Flight Center
11:15 AM	ELFIN: Electron Losses and Fields Investigation, Ryan
	Caron, UCLA
11:30 AM	The KECK Institute Study Program on Small Satellites: A
	Revolution in Space Science, Charles D. Norton, Jet
	Propulsion Laboratory, California Institute of Technology
11:45 AM	M-PACE: 1U CubeSat Using Advanced Manufacturing,
	Elwood Agasid, NASA Ames Research Center
12:00 PM	CYGNSS: The Cyclone Global Navigation Satellite System,
	John Dickinson, Southwest Research Institute
12:15 PM	Lunch/Poster Session

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Session 4:	Launch Capabilities, Testing, and Simulation
1:30 PM	ELaNa - Education Launch of NanoSatellite, Still Moving
	Forward!, Garrett Skrobot, NASA Launch Services
	Program
1:45 PM	The Spaceflight Secondary Payload System and SHERPA -
	Infrastructure for the Deployment of CubeSat
	Constellations, Adam Hadaller, Spaceflight, Inc.
2:00 PM	NROL-36 OUTSat, Gordon Barnhill, NRO/OSL
2:15 PM	Launch Vehicle Mission Design Challenges for Multi-
	Manifest Missions, Gregory Kehrl, Athena/Lockheed
	Martin
2:30 PM	CubeSat Attitude Determination and Control Study and
	Realization, William D. McGinnis, Auburn University
2:45 PM	Interorbital's NEPTUNE Dedicated SmallSat
	Launcher: 2013 Test Milestones and Launch Manifest
	Update, Randa Milliron, Interorbital Systems
3:00 PM	Break
3:30 PM	High Altitude Launch Services for Demonstration Nano-
	Satellites – John Garvey – Garvey Spacecraft Corporation
3:45 PM	Force Limited Vibration Testing on NPSCuL – What to
	Expect When You're Expecting to Fly, Wenschel Lan,
	Vidur Kaushish, Dan Sakoda, Jim Newman, Naval
	Postgraduate School
4:00 PM	CubeSat Launch from ISS - Richard Pournelle, NanoRacks
4:15 PM	ESPA CubeSat Accomodations and Qualification of the 6U
	Mount (SUM), Joseph Maly, Moog CSA Engineering
4:30 PM	Achievements in Advanced Standards for CubeSats, Ryan
	Williams, Planetary Systems Corporation
4:45 PM	CubeSat Standard Updates, Justin Carnahan, Cal Poly
	CubeSat Program
5:00 PM	Closing Remarks

FRIDAY, April 26, 2013

8:00 AM	Registration & Breakfast
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Session 5:	Subsystems			

Session 5:	<u>Subsystems/Payloads/Deployables</u>			
9:00 AM	Innovative Solutions for a Low Cost CubeSat Development, N. Bellini, N. Benini, A. Curti, A. Locarini, S. Naldi, D. Rastelli, M. Valdatta, University of Bologna - Spacemind			
9:15 AM	Unix Space Server (USS), Samuel Noah Sipe, United States Naval Academy			
9:30 AM	A Fault-Tolerant On-Board Computer For CubeSat Based- On Hybrid Architecture, Jérémy Delaporte, Florent Swingedouw, Cyrille Dromas, Thierry Capitaine, Institut Supérieur des Sciences Et Techniques (INSSET) University			
9:45 AM	Spacecraft-on-Demand POP443: a Prepositioned Orbiting Spacecraft Printer CubeSat/NanoLab, Michael Johnson, JA			
10:00 AM	The Aerodynamic End Of Life Deorbit System (AEOLDOS) Module - Robin Sampson, Clyde Space Ltd			
10:15 AM	Break			
10:45 AM	INSPIRE, Andrew Klesh, Jet Propulsion Laboratory, California Institute of Technology			
11:00 AM	Computational Design of a Miniaturized Microstrip Antenna Focused on Cube Satellites, Damián Andrés Campo Caicedo, EAFIT University			
11:15 AM	Use of a Commercial Product for an SSTV Camera Development, Cyrille Dromas, Florent Swingedouw, Jérémy Delaporte, Thierry Capitaine, Institut Supérieur des Sciences Et Techniques (INSSET) University			
11:30 AM	A Distributed Command and Data Handling Architecture for KYSat-2, Jason Rexroat, Chris Mitchell, Max Bezold, Marc Higginson-Rollins, Steve Alvarado, Zachary Jacobs, Samir Rawashdeh, James Lumpp, University of Kentucky Space Systems Lab			
11:45 AM	Useful Earth Observation with Nanosatellite Platforms, Joost Elstak, ISIS - Innovative Solutions In Space			
12:00 PM	Lunch			
Session 6: Communication & Power				
1:30 PM	ITU Radio Regulations Related to Small Satellites, Atilla Matas, International Telecommunications Union			
2:00 PM	Design Optimization on the CADRE CubeSat, Dae Young Lee, Daniel Meinzer, Aaron Ridley and James W. Cutler, University of Michigan			
2:15 PM	CubeSat and SmallSat FCC Licensing Process and Considerations, Jim White, Colorado Satellite Services,			

Closing Remarks

3:45 PM

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	Lee, Daniel Meinzer, Aaron Ridley and James W. Cutler,
	University of Michigan
2:15 PM	CubeSat and SmallSat FCC Licensing Process and
	Considerations, Jim White, Colorado Satellite Services,
	LLC
2:30 PM	Break
3:00 PM	Do We Have an ITAR Problem: A Review of the
	Implications of ITAR and Title VII on Small Satellite
	Programs, Jeremy Straub & Joe Vacek, University of North
	Dakota
3:15 PM	Using the Allen Telescope Array for CubeSat
	Communications, Kyle Leveque, Cecile Mackay, Dan
	Ceperley, SRI International
3:30 PM	CubeSat Communications Survey Update, Bryan Klofas,
	SRI International