WEDNESDAY, April 22, 2015

7:30 AM	Registration & Breakfast
9:00 AM	Opening Comments – Dr. Jordi Puig-Suari, CubeSat
9:15 AM	Event Sponsor Welcome
9:20 AM	Keynote Presentation – Elwood Agasid, NASA Ames

Session 1: Education and Design Philosophy

9:40 AM	*Alice Smith* – Introduction to NASA Academy of Aerospace Quality, Auburn University
10:00 AM	*Dr. Paul Darby* Experimental Smartphone-Synchronized Ground Station Grid, University of Louisiana at Lafayette
10:20 AM	*Dr. Hank Voss* – Technology, Service, Education: Globalstar 24/7 for LEO, NearSpace Launch Inc.
10:40 AM	*--Break--*
11:00 AM	*Kyle Leveque* – Open Design: A New Approach for CubeSats, Aquila Space Inc.
11:20 PM	*Andrew Santangelo* – An Open Source Flight Management System for CubeSats, sci_Zone
11:40 PM	*Gordon Hardman* – Open Source "All Parallel" EPS for CubeSats, Aquila Space Inc.
12:00 PM	*Dr. Jordi Puig-Suari* – NanoSwarm: CubeSats Enabling a Discovery Class Mission, Tyvak
12:20 PM	*--Lunch--*

Session 2: Missions Part 1

1:40 PM	*James DiCorcia* – Mothership: Affordable Exploration of Planetary Bodies Through Individual Nano-Sats and Swarms, Deep Space Industries
2:00 PM	*Andrew Klesh* – INSPIRE and Beyond: Deep Space CubeSats at JPL, Jet Propulsion Laboratory
2:20 PM	*Ehson Mosleh* – CubeSat Proximity Operations Demonstration (CPOD) Mission Development Status, Tyvak
2:40 PM	*Joseph Gangestad* – Flight Results from AeroCube-6: A Radiation Dosimeter Mission in the 0.5U Form Factor, The Aerospace Corporation
3:00 PM	*John Avrett* – Lessons Learned from the US Air Force SENSE CubeSat Mission, US Air Force
3:20 PM	*--Break--*
3:40 PM	*Rex Ridenoure* – LightSail Program Status: On Track for Two Launches, Ecliptic Enterprises Corporation
4:00 PM	*Robert Hanel* – BioSentinel: Mission Development of a Radiation BioSensor to Gauge DNA Damage and Repair Beyond Low Earth Orbit on a 6U Nanosatellite, NASA Ames Research Center
4:20 PM	*Jerry Buxton* – AMSAT's Fox-1 Series CubeSats, AMSAT
4:40 PM	*Paul Liias* – ESTCube-1 From the Beginning to the End, Tartu Observatory
5:00 PM	Closing Remarks
6:30 PM	Banquet at the Madonna Inn Expo Center

THURSDAY, April 23, 2015

8:00 AM	Registration & Breakfast
9:00 AM	Keynote Presentation – Kar-Ming Cheung, JPL

Session 3: Missions Part 2

9:20 AM	*Michael Bertino and Brian Cooper* – Corvus-BC Satellite Design and Perseus-M On-Orbit Report, Aquila Space
9:40 AM	*Dave Klumpar* – FIREBIRD: One Mission; Two launches; Two pairs of CubeSats separated by fourteen months; Performance enhancements derived from on-orbit experience, Montana State University
10:00 AM	*James Cutler* – Current Results from the GRIFEX CubeSat Mission, University of Michigan
10:20 AM	*Jordan Helea* – The Cosmic X-Ray Background NanoSat-2 (CXBN-2), Morehead State University
10:40 AM	*--Break--*
11:00 AM	*Andrew Kalman* LMRST-Sat Flight Software Debugging & Mission Assurance, Stanford University
11:20 AM	*Leon Steenkamp* – TshepisoSAT (ZACUBE-1): One Year After Launch, Cape Peninsula University of Technology
11:40 AM	*Michael Segalla* – Integration of QIKcom-2: Automatic Packet Reporting System Payload on Reconfigurable Satellite, United States Naval Academy
12:00 PM	*Pamela Clark* – CubeSats for Science Driven Deep Space Missions: A Marriage Made in Heaven?, Flexure Engineering and Catholic University of America (IACS)
12:20 PM	*--Lunch/Poster Session—*

Session 4: Launch Capabilities, Testing, and Simulation

1:40 PM	*Garrett Skrobot* – NASA ELaNa Program Update, NASA Launch Services Program
2:00 PM	*Conor Brown* – Maximizing ISS Utilization for Small Satellite Deployments, NanoRacks LLC
2:20 PM	*Edward Wright* – The Lynx Cub Payload Carrier and Suborbital Flight Opportunities for Small Payloads on the XCOR Lynx, United States Rocket Academy
2:40 PM	*Joe Maly* – CubeSat Launch and Deployment Accommodations, Moog
3:00 PM	*Wenschel Lan* – Progress in Reducing Vibration Levels on NPSCuL, Naval Postgraduate School
3:20 PM	*--Break--*
3:40 PM	*Walter Holemans* – Lessons Learned Measuring 3U and 6U Payload Rotation and Velocity when Dispensed in Reduced Gravity Environment, Planetary Systems Corporation (PSC)
4:00 PM	*Robert Twiggs* – Unstandard CubeSat/PocketQube/TubeSat Deployers, Morehead State University/Tetonsys LLC
4:20 PM	*Joe Carrol* – How to Reduce Debris Impact Threats to and from CubeSats in LEO, Tether Applications, Inc.
4:40 PM	*Robert L. Kelly* – Assessing Compliance with United States Government Orbital Debris Mitigation Guidelines, Jacobs - JETS
5:00 PM	Closing Remarks

FRIDAY, April 24, 2015

8:00 AM	Registration & Breakfast
9:00 AM	Keynote Presentation – Dr. Jordi Puig-Suari, Cal Poly

Session 5: Subsystems and Payloads Part 1

9:20 AM	*Chris Day* – Simple, Robust Micro Propulsion Systems, VACCO Industries
9:40 AM	*Craig Clark* – Effective Hardware-in-Loop CubeSat Attitude Control Verification and Test, Clyde Space
10:00 AM	*David Avanesian* – Advanced Electrical Bus (ALBus) CubeSat Tech Demo Mission, NASA Glenn Research Center
10:20 AM	*Jason Addy* – Thermal Considerations for Critical CubeSat Missions, Space Micro, Inc.
10:40 AM	*--Break--*
11:00 AM	*John Springmann* – CubeSat Operations with Spaceflight Networks, Spaceflight, Inc.
11:20 AM	*Paul Serra* – A Novel Low Power Optical Communications Instrument for Deep-Space CubeSats, University of Florida
11:40 AM	*Chris Wake*, By the Numbers: Delivering Mission Success with a Global Ground Station Footprint, Spire Global, Inc.
12:00 AM	*Eric McNaule* – HaWK (High Watts per Kilogram) Series of Solar Arrays, MMA Design LLC
12:20 PM	*--Lunch--*

Session 6: Subsystems and Payloads Part 2

1:40 PM	*Aman Johri* – ExCS Expendable CubeSat for cleaning Space Debris, SRM University
2:00 PM	*Kyle Leveque* – Bare-Metal Python, Aquila Space Inc.
2:20 PM	*James Cutler* – Robust Orbit Determination: A Machine Learning Approach, University of Michigan
2:40 PM	*John Buonocore* – A High-Speed Data Downlink for Wide Bandwidth CubeSat Payloads, SRI International
3:00 PM	*Nestor Voronka* – How Do I Locate, Identify, and Track my CubeSat after Orbital Insertion? CubeSat ELT!, M42 Technologies
3:20 PM	*--Break--*
3:40 PM	*Sanny Omar* – The AubieSat II Attitude Determination and Control System, Auburn University Student Space Program
4:00 PM	*Jeremy Straub* – First Look at Results from a Nation-Wide Survey Regarding Student CubeSat Project Participation Benefits, University of North Dakota
4:20 PM	*Roberto Ferro Escobar* – Design a Methodology for the Development IT and Efficient Construction Using Small Satellites Based on Cobit 5.0 in the District University Francisco Jose de Caldas in Bogota Colombia, District University
4:40 PM	*Nathan Barnwell* – The CHOMPTT Precision Time Transfer CubeSat Mission, University of Florida
5:00 PM	*Tom Walkinshaw* – Designing COTS Parts for PocketQube, Alba Orbital Ltd (PocketQube Shop)
5:20 PM	Closing Remarks