

Updated: April 21st, 2016

Wednesday April 20, 2016

| Time | Presentation Title | Presenter | Affiliation |
|----------|---|---|--|
| 9:00 AM | Conference Welcome and Keynote Introduction | Dr. Jordi Puig-Suari | |
| 9:15 AM | Keynote Address | Tory Bruno | United Launch Alliance |
| 10:00 AM | BREAK | | |
| 10:30 AM | CubeSats and Mission Success: A Look at the Numbers | Michael Swartwout | Saint Louis University |
| 10:45 AM | The CHOMPTT Precision Time Transfer CubeSat Mission | Nathan Barnwell | University of Florida |
| 11:00 AM | Online Resource Allocation and Scheduling for Store-and-Forward Communications with Multiple Priority Levels in Nanosatellite Systems | Cherry Wakayama | SPAWAR Systems Center Pacific |
| 11:15 AM | The Cube-Train Constellation for Earth observation | Anthony Freeman | JPL/Caltech |
| 11:30 AM | The Myths and Realities of CubeSat Collision Risk | Daniel L Oltrogge | Analytical Graphics Inc. |
| 11:45 AM | On-orbit results of the HumsAT Payload, a data collection system based on CubeSats | Diego Nodar-Lopez | University of Vigo |
| 12:00 PM | A Framework for Mission Assurance Exploiting Automation | Yaseen Zaidi | Cape Peninsula University of Technology |
| 12:15 PM | LUNCH | | |
| 1:30 PM | JFCC Space's Role and Integration/Collaboration Efforts | RADM Brian Brown | JFCC Space |
| 1:45 PM | The XCube Concept: Extending the CubeSat standard from Nano-Sats to Airborne Experiments | Chad Frost | NASA Ames Research Center |
| 2:00 PM | ELaNa Mission Status | Scott Higginbotham | NASA LSP |
| 2:15 PM | Launch Vibration Isolation for CubeSats | David Pignatelli | California Polytechnic State University, San Luis Obispo |
| 2:30 PM | The NanoRacks External Cygnus Deployer | Henry Martin | NanoRacks LLC |
| 2:45 PM | CubeSat Launch and Deployment Accommodations | Joe Maly | CSA Engineering |
| 3:00 PM | Quick-Turn, Low Cost Spacecraft Development Principles | Austin Williams | Tyvak Nano-Satellite Systems Inc. |
| 3:15 PM | BREAK | | |
| 3:45 PM | An Affordable Test Equipment and Simulation Suite for CubeSat Development | Sharlene Katz, James Flynn, Adam Kaplan | California State University, Northridge |
| 4:00 PM | Mobile CubeSat Command and Control Ground Stations | Giovanni Minelli | Naval Postgraduate School |
| 4:15 PM | Spacecraft Manufacturing: Lessons Learned from Corvus-BC | Brian Cooper | Aquila Space |
| 4:30 PM | SUPERNOVA-Beta TechSat-1Integrates Two Key Imaging Payloads and Validates New Commercial Bus Structure | Steven Suddarth | Transparent Sky, LLC |
| 4:45 PM | Scintillation Observations and Response of The Ionosphere to Electrodynamics (SORTIE) | Marcin Pilinski | ASTRA LLC |
| 5:00 PM | Bulk Spacecraft Manufacture for CubeSat Constellations | Craig Clark | Clyde Space |

Thursday, April 21, 2016

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|-----------------------|--|------------------------------|--|
| 9:00 AM | JFCC Space's Role and Integration/Collaboration Efforts | RADM Brian Brown | JFCC Space |
| 9:15 AM | Leaping CubeSats! Enabling Beyond-Earth Missions in Small, Inexpensive Package | Robert Staehle | JPL |
| 9:30 AM | MarCO – Ready for Launch | Andrew Klesh | JPL |
| 9:45 AM | BioSentinel: Mission Development of a Radiation Biosensor to Gauge DNA Damage and Repair Beyond Low Earth Orbit on a 6U Nanosatellite | Hugo Sanchez | NASA Ames Research Center |
| 10:00 AM | Payload Developments on the Lunar Flashlight Mission | Travis Imken | JPL |
| 10:15 AM | Lunar Ice Cube: Lunar Water Dynamics via a First Generation Deep Space CubeSat | Pamela Clark | JPL and Morehead State Univ. |
| 10:30 AM BREAK | | | |
| 11:00 AM | The Lunar Polar Hydrogen Mapper (LunaH-Map) CubeSat Mission | Craig Hardgrove | ASU |
| 11:15 AM | A 6U CubeSat Designed for Lunar Orbit and Beyond in the NASA CubeQuest Challenge | Kathleen Morse | Yosemite Space, Inc. |
| 11:30 AM | DustCube, a 3U Cubesat to Characterize the natural dust environment and microscopic ejecta due to DART high speed impact on the Binary asteroid 65803 Didymos | Diego Nodar | Universitario de Vigo (Spain) |
| 11:45 AM | The CuSP Interplanetary CubeSat mission | Don George | SwRI |
| 12:00 PM | The AeroCube OCSA AeroCube-7a Status | Darren Rowen | Aerospace Corporation |
| 12:15 PM LUNCH | | | |
| 1:15 PM | NASA's Small Spacecraft Technology: Accomplishments, Opportunities, and Plans | Andy Petro | NASA Headquarters |
| 1:45 PM | Applications of SmallSatellites | Kate Yoshino | AFRL |
| 2:00 PM | SABRE-I: An End-to-End Hands-On CubeSat Experience for the Educate Utilizing CubeSat Experience Program | Bungo Shiotani | University of Florida |
| 2:15 PM | United States Naval Academy CubeSats 2016: Communications and Thruster Technology Demonstrator Missions | Uriah Richard Eilinger | United States Naval Academy |
| 2:30 PM | A Failure Analysis of the EXOCUBE Cubesat | Alex Saunders | California Polytechnic State University, San Luis Obispo |
| 2:45 PM | A Robust Nanosatellite OBC Created with SEL and SEU Immunity as a Driving Requirement | Craig Clark | Clyde Space |
| 3:00 PM | Laser Communications Downlink and Crosslink Designs for CubeSats | Kerri Cahoy, Emily Clements | MIT |
| 3:15 PM BREAK | | | |
| 3:45 PM | The Planet Labs Ground Station Network | Bryan Klofas | Planet Labs |
| 4:00 PM | NASA Ames Research Center's GlobalStar Duplex Radio Study for CubeSat Use | Vanessa Kuroda | NASA Ames Research Center |
| 4:15 PM | Ground Station Link Characterization Utilizing Bit Error Rate with Noise Introduced | Nathaniel Richard | Morehead State University |
| 4:30 PM | Deployment of the SatNet Network at the INPE (Brazil) and University of Vigo (Spain) Facilities with a Central Server at the California Polytechnic State University (USA) | Jorge Enrique Espindola Diaz | INPE - CALPOLY - UVIGO |
| 4:45 PM | A Scalable Deployable High Gain Antenna - DaHGR | Keith Kelly | MMA Design LLC |
| 5:00 PM | A Standardized Geometry For Space Access Ports | Dov Jelen | Pumpkin, INC |

Friday, April 22, 2016

| Time | Presentation Title | Presenter | Affiliation |
|----------|--|----------------------------|---------------------------------------|
| 9:00 AM | Record Solar Cell Efficiencies and Power to Weight Ratios | Aarohi Vijh | Alta Devices, Inc. |
| 9:15 AM | MIL-STD CubeSat 6U to 27U OMSR Bus to reduce Space Qual Risk and Life Cycle Cost | Edmund Burke | Space Information Labs |
| 9:30 AM | FlexBus – A 6U Cubesat Platform for Any Mission | Daniel Hegel | Blue Canyon Technologies |
| 9:45 AM | The Development of a High Strain Composite Boom for Low-Cost CubeSat Missions | Bruce Davis | Roccor |
| 10:00 AM | A ReSTful Interface for CubeSats | Shaun Houlihan | Pumpkin Inc. |
| 10:15 AM | Simulation-To-Flight (STF-1): A Mission to Enable CubeSat Software-based Verification and Validation | John Lucas | NASA IV&V - GSFC |
| 10:30 AM | BREAK | | |
| 11:00 AM | The use of a System of Systems design methodology, novel attitude determination and control system, and low-cost fabrication techniques to enable CubeSat development. | Michael Wegerson | University of North Dakota |
| 11:15 AM | CubeSat Laser Guide Star | Kerri Cahoy, Weston Marlow | MIT |
| 11:30 AM | Rapid Success: The GOMX-3 CubeSat Path to Orbit | Daniel Smith | GomSpace ApS |
| 11:45 AM | An Inexpensive, University Accessible, Microgravity Environment Providing CubeSat Functionality Testing | Alexandra Crook | University of Wyoming |
| 12:00 PM | e2v CubeSat Imaging | Alice Reinheimer | e2v inc. |
| 12:15 PM | LUNCH | | |
| 1:45 PM | Customizable Ground Stations: An Extension of the Experimental Smartphone Ground Stations | Rizwan Merchant | UL C.A.P.E. |
| 2:00 PM | LinkStar-STX3 Radio Architecture: A New Generation Of Simplex Based Radios for Near Global Communications | Andrew Santangelo | sci_Zone, Inc. |
| 2:15 PM | CubeSat Mission Benefits and Integration of High Thrust, High Delta-V Green Propulsion | Steven Overton | Aerojet Rocketdyne |
| 2:30 PM | DESIGN OF ELECTRICAL POWER SYSTEM FOR SPEED (Space based Proton Electron Energy Detector) | Anand Antony | Indian Institute of Technology Madras |
| 2:45 PM | AMODS: An Electromagnetic-Ferromagnetic Interface Docking System | MIDN Gavin Roser | United States Naval Academy |
| 3:00 PM | OVERVIEW-1: A 360-Degree Virtual Reality Earth-Imaging 3U CubeSat | Ryan Holmes | SpaceVR, Inc. |
| 3:15 PM | BREAK | | |
| 3:45 PM | NITESat: Night Imaging and Tracking Experiment Satellite Mission and Education Program Overview | Geza Gyuk | Adler Planetarium |
| 4:00 PM | GAMASAT, bringing space down to Earth | Raquel Pinho | TEKEVER |
| 4:15 PM | | | |
| 4:30 PM | | | |

Alternates:

Record Solar Cell Efficiencies and Power to Weight Ratios

Aarohi Vijh

Alta Devices, Inc.

The Development of a High Strain Composite Boom for Low-Cost CubeSat Missions

Bruce Davis

Roccor

An Inexpensive, University Accessible, Microgravity Environment Providing CubeSat Functionality Testing

Alexandra Crook

University of Wyoming

Software Reuse Technique Based on Internal Service Components – A Case Study Using Nanosatellites

Demetryus V. Junqueira

INPE - National Space Research INstitute

Customizable Ground Stations: An Extension of the Experimental Smartphone Ground Stations

Rizwan Merchant

UL C.A.P.E.