SCHEDULE

WEDNESDAY, APRIL 23
DAY 1

7:30:00 AM - 9:00:00 AM Breakfast, courtesy of GAUSS
9:00:00 AM - 9:10:00 AM Opening, Sponsor, and Keynote Welcome

SESSION 1

9:10 AM - 9:30 AM **Scott MacGillivray**, **Tyvak Nano-Satellite Systems**
Main Event Sponsor Welcome

9:30 AM - 9:50 AM **Brigadier General Timothy R. Coffin**, **Joint Functional Component Command for Space (JFCC Space)**
Flight Experiences, Advanced Technologies

9:50 AM - 10:10 AM **Twyman Clevments**, **Kentucky Space**
KySat-2: Status Report and Overview of C&DH and Comms Systems Design

10:10 AM - 10:20 AM **Chris Boshuizen**, **Planet Labs**
On-orbit Results from Dove 3

10:20 AM - 10:40 AM **Ali Guarneros Luna**, **NASA AMES**
Pioneering the Use of the International Space Station as a Nanosatellite Deployment Platform

10:40 AM - 11:00 AM **Carl S. Brandon**, **Vermont Technical College**
The Vermont Lunar CubeSat Mission

11:00 AM - 11:10 AM Morning Break, courtesy of Raytheon

11:10 AM - 11:30 AM **Robert Twiggs**, **Morehead State University**
The PocketQube Concept

11:30 AM - 11:50 AM **Søren Pedersen**, **GomSpace**
GOMX-1 Flight Experience and Air Traffic Monitoring Results

11:50 AM - 12:10 PM **Kevin Zack**, **Sonoma State University**
Development and Operation of the PocketQube T- LogoQube

12:10 PM - 12:30 PM **J. Garrett Jernigan**, **Sonoma State University**
The Application of the Logo Language for the Flight and Ground System of the PocketQube T- LogoQube

12:30 PM - 13:40 PM Lunch, courtesy of NanoRacks and SpaceFlight Inc.

13:40 PM - 14:00 PM **Joseph Gangestad**, **The Aerospace Corporation**
Forest Fires, Sunglint, and a Solar Eclipse: Responsive Remote Sensing with AeroCube-4

14:00 PM - 14:20 PM **Eric Baumgarten**, **Cal Poly San Luis Obispo**
IPEX Mission and Status Update

14:20 PM - 14:40 PM **Paula Pingree**, **NASA JPL**
The Successful Operation of MCubed/COVE-2

14:40 PM - 15:00 PM **Chantal Cappelletti**, **GAUSS**
UniSat5 Mission

15:00 PM - 15:20 PM **Andres Martinez**, **NASA AMES**
SporeSat: Measuring the Variable-Gravity Calcium Ion Channel Response in Fern Spores Aboard a Free-flying 3U Nanosatellite

15:20 PM - 15:30 PM **Peter Platzer**, **ArduSat**
First Learnings from ArduSat - The World's First Crowdfunded Satellite in Space

15:30 PM - 15:40 PM **Bryan Klofas**, **SRI International**
CubeSat Communications Update

15:40 PM - 15:50 PM Afternoon Break, courtesy of Raytheon

15:50 PM - 16:10 PM **Robert Kelley**, **Jacobs JETS, Orbital Debris Research & Science Operations**
Orbital Debris Mitigation

16:10 PM - 16:30 PM **Courtney Duncan**, **NASA JPL**
Iris Deep Space CubeSat Transponder

16:30 PM - 16:50 PM **Andrew Kalman**, **SSDL / Stanford University**
TECSTARS, a NanoSatellite Telemetry Capture, Storage And Retrieval System

16:50 PM - 17:10 PM **Ian Bournelis**, **Drexel University**
Deployable Package for Enhanced Power and De-Orbit Capabilities in CubeSat Satellites

17:10 PM - 17:30 PM Closing Remarks

18:00 PM - 22:00 PM Welcome Banquet at the Embassy Suites Hotel Ballroom, courtesy of Airbus Group

THURSDAY, APRIL 24
DAY 2

7:30:00 AM - 8:50:00 AM Breakfast, courtesy of Clyde Space
8:50:00 AM - 9:00:00 AM Opening

SESSION 2

9:00 AM - 9:20 AM **Prof. Robert van Zyl**, **French South African Technical Institute at Cape Peninsula University of Technology**
Early CubeSat Program Development

9:20 AM - 9:40 AM **Raquel Pinho**, **University of Porto and TEKEVER Space**
GAMASAT: A 3U CubeSat Communications, De- orbiting and Re-entry Experiment

9:40 AM - 10:00 AM **Cem Asma**, **Swiss Space Systems - Space 4 All**
S4 Summer School for Nano-Satellite Techologies

10:00 AM - 10:20 AM **Jaroslav Laifr**, **Czech Technical University in Prague**
The CzechTechSat - A- Space Friendly CubeSat-class Picosatellite Development Progress

10:20 AM - 10:40 AM **Francois Visser**, **F'SATI CPUT**
A Technical Background of the ZACUBE-i Satellite Mission Series

10:40 AM - 11:00 AM **Gabriel Figueiro**, **Brazilian Space Agency**
SERPENS CubeSat Mission

11:00 AM - 11:10 AM Morning Break, courtesy of Raytheon

11:10 AM - 11:30 AM **Mohammed Irfan Rashed**, **Korea Advanced Institute of Science & Technology**
Role of Cost-Effective MEMS-Based Nano-satellite and Space Education in Under-developed Countries

11:30 AM - 11:50 AM **Sara Mohammed Ali Ahmed**, **University of Khartoum**
University of Khartoum Cubesat Project Feasibility Case Study

11:50 AM - 12:10 PM **Victor Eberhardt Menegon**, **Federal University of Santa Catarina (UFSC)**
Brazilian Inter- University CubeSat Mission Overview

12:10 PM - 12:30 PM **StangSat Team**, **Merritt Island High School**
Risk Mitigations to Allow for Inter- CubeSat Wi-Fi Communication During Launch

12:30 PM - 13:50 PM Lunch, courtesy of GOM Space

13:50 PM - 14:10 PM **Garrett Skrobot**, **NASA KSC LSP**
NASA Educational Launch of Nanosatellite Missions Update

14:10 PM - 14:30 PM **Dan Saldana**, **Valley Christian High School**
ISS Science Experiment Presentation

14:30 PM - 14:50 PM **Kennedy Haught**, **Morehead State University**
Small Satellite Mission Operations at Morehead State University

14:50 PM - 15:10 PM **Trevor C. Sorensen**, **Hawaii Space Flight Laboratory (HSFL)**
Implementing the Comprehensive Open-architecture Space Mission Operations System (COSMOS) to Operate Multiple CubeSats

15:10 PM - 15:30 PM **Samudra E. Haque**, **The George Washington University**
Agile development process of a quad- channel Micro-Cathode Arc Thruster (μCAT) subsystem for the 1.5U BRICSat-P CubeSat Mission

15:30 PM - 15:40 PM Afternoon Break, courtesy of Raytheon

15:40 PM - 16:00 PM **Ryan Kingsbury**, **MIT**
Two-Stage Control for CubeSat Optical Communications

16:00 PM - 16:20 PM **John Conklin**, **University of Florida**
The CHOMPTT Precision Time Transfer CubeSat Mission

16:20 PM - 16:40 PM **D Laurence Thomsen III**, **NASA LRC**
Shields-1, A CubeSat With a Radiation Shielding Research Payload

16:40 PM - 17:00 PM **Jeremy Straub**, **University of North Dakota**
Considering the Educational Benefits of a CubeSat Program

17:00 PM - 17:20 PM **Andrew Klesh**, **NASA JPL**
INSPIRE: Interplanetary NanoSpacecraft Pathfinder in Relevant Environment

17:20 PM - 17:30 PM **Rich Pournelle**, **NanoRacks**
Commercial CubeSat Launches from the ISS

17:30 PM - 17:40 PM **Austin Williams**, **Tyvak Nano- Satellite Systems**
CubeSat Proximity Operations Demonstration (CPOD) Vehicle and Avionics Design

17:40 PM - 17:45 PM Closing Remarks

FRIDAY, APRIL 25
DAY 3

7:30:00 AM - 8:50:00 AM Breakfast, courtesy of SSL
8:50:00 AM - 9:00:00 AM Opening

SESSION 3

9:00 AM - 9:20 AM **Ricardo Tubio- Pardavila**, **Cal Poly**
The SatNet Project: towards an Open- Source Ground Station Network for CubeSats

9:20 AM - 9:40 AM **Sanny R Omar**, **Auburn University Student Space Program**
CubeSat Formation Control using Differential Aerodynamic Forces

9:40 AM - 10:00 AM **Katharine Brumbaugh Gamble**, **The University of Texas at Austin**
A Software Tool for CubeSat Mission Risk Estimating Relationships

10:00 AM - 10:20 AM **Chad Frost**, **NASA AMES**
Expanding the Global Sensor Web with CubeSats

10:20 AM - 10:40 AM **Samuel Noah Sipe**, **USNA**
The Unix Space Server: USS Langley, The World's First Open Source Webserver in Space

10:40 AM - 11:00 AM **David M. Klumpar**, **NASA HQ**
An Enhanced Role for Scientific CubeSats at NASA

11:00 AM - 11:10 AM Morning Break, courtesy of Raytheon

11:10 AM - 11:20 AM **Craig Clark**, **Clyde Space**
Next Generation Power Systems for CubeSats of All Sizes

11:20 AM - 11:30 AM **Isaas Nitschke**, **Space Systems Loral**

11:30 AM - 11:40 AM **Adam Hadaller**, **Spaceflight Inc.**
CubeSat Preferred Orbits and Launch Options

11:40 AM - 11:50 AM **Christopher Hartney**, **Millennium Engineering and Integration Co.**
Modular Rapidly Manufactured SmallSat: Using Advanced Manufacturing processes for CubeSats

11:50 PM - 12:00 PM **Daniel L. Oltrogge**, **Analytical Graphics Incorporated**
QB50 Relative Motion and Deployment Optimization

12:00 PM - 12:10 PM **Joe Maly**, **Moog CSA**
CubeSat Launch Accommodations and Propulsive Adapters

12:10 PM - 12:20 PM **Clint Hadwin**, **Space Micro Inc**
Radiation and Reliability Considerations in Digital Systems for Next Generation CubeSats

12:20 PM - 13:40 PM Lunch, courtesy of Boeing

13:40 PM - 14:00 PM **James Meub**, **Air Force Research Laboratories**
Targeted Mission Assurance Philosophies: A Tale of Two CubeSats

14:00 PM - 14:20 PM **Antonio J. Ricco**, **NASA AMES**
BioSentinel NanoSatellite: DNA Damage-and-Repair Experiment Beyond Low Earth OrbitState University

14:20 PM - 14:40 PM **Chris Shaffer**, **UCLA**
An Update on UCLA's Electron Losses and Fields Investigation

14:40 PM - 15:00 PM **Tam Nguyen**, **MIT**
Infrared Earth Horizon Sensors for CubeSat Attitude Determination

15:00 PM - 15:20 PM **James Chartres**, **NASA AMES**
The Nanosat Launch Adapter System (NLAS)

15:20 PM - 15:40 PM Afternoon Break, courtesy of Raytheon

15:40 PM - 15:50 PM **Walter Holemans**, **Planetary Systems Corp.**
Innovative Uses of the Canisterized Satellite Dispenser (CSD)Mission

15:50 PM - 16:00 PM **Rex Ridenoure**, **Ecliptic Enterprises Corporation**
CubeSat-Class Spinning Landers for Solar System Exploration Missions

16:00 PM - 16:10 PM **Jeroen Rotteveel**, **ISIS**
A data processing building block for CubeSat payloads and subsystems

16:10 PM - 16:20 PM **Emil Superfin**, **A.I. Solutions**
Flight-software-in-the-loop Dynamics Simulator for Rapid Prototyping of Mission Orbit and (ACS) Studies

16:20 PM - 16:30 PM Closing Remarks