Mahalo to our Sponsors

Poʻokela (striving for the best)

Laulima (working together)

Lokahi (collaboration and unity)

Kupaʻa (loyal and committed)

Malama (to care for)

Featured Exhibitors
Welina Mai Kakou | Welcome

Aloha!

We are pleased that you are participating in the 15th AMOS Conference. Although we will be sitting in a darkened ballroom, intently listening to technical briefings throughout the week, we are, indeed, in a culturally rich and beautiful setting…

It is our pleasure to share with you a few of the things that make Maui unique. We have sprinkled elements throughout the week to remind us of our Hawaiian “Sense of Place.”

Among them are the leis worn at the welcome reception, our traditional Native Hawaiian invocation opening the conference, and a private luau buffet and show on Wailea Beach.

If there is anything our Conference Team can do to make your week more productive and enjoyable, please let us know.

Warmest Aloha,
Conference Chairs Paul Kervin, AFRL and Wes Freiwald, IAI-PDS and the AMOS Conference Organizing Committee
Program at a Glance

Sunday, Sep 7  
**TECHNICAL SHORT COURSES**

Tuesday, Sep 9  
**SSA POLICY FORUM**  
Keynote by General John E. Hyten, AFSPC  
Exhibition Move-in  
Welcome Reception Co-sponsored by The Boeing Company

Wednesday, Sep 10  
**AMOS CONFERENCE OPENING**  
Keynote by Natalie Crawford, RAND Corporation  
Invited Presentation by Elliot Pulham, Space Foundation  
Conjunction Assessment Panel  
**Sessions:**  
Conjunction Assessment  
Orbital Debris  
Space Situational Awareness  
**Poster Session 1**  
Exhibit & Poster Reception  
Co-sponsored by the University of Hawaii

Thursday, Sep 11  
Space in the Classroom Teacher Workshop  
Co-sponsored by the Space Foundation  
**Sessions:**  
Space Situational Awareness (continued)  
Astrodynamics  
Space Systems  
Non-Resolved Object Characterization  
**Poster Session 2**  
Exhibit & Poster Reception  
Co-sponsored by SpaceNav  
Satellite Watching and Star Gazing  
Sponsored by Analytical Graphics Inc.

Friday, Sep 12  
Space in the Classroom Student Day  
Co-sponsored by the Space Foundation  
**Joint R&D and Ops: A Working Paradigm for SSA**  
**Sessions:**  
Adaptive Optics  
Daylight Imaging  
Space Weather  
Sensor Processing  
Closing Luau Dinner

Saturday, Sep 13  
**OPTIONAL TECHNICAL TOUR**
Agenda

Lapule I Sunday, September 7

8:00 AM - 12:00 PM  TECHNICAL SHORT COURSES 1 & 3
1: Beam Control | Puakenikeni Room
Presented by Jim Riker, the Optical Sciences Company
3: Ground and Airborne Infrared Astronomy for Space Situational Awareness | Ilima Room
Presented by Eric Becklin, USRA
Sponsored by Universities Space Research Association (USRA)

1:00 PM - 5:00 PM  TECHNICAL SHORT COURSES 2 & 4
2: Principles of Adaptive Optics for Space Situational Awareness | Puakenikeni Room
Presented by Robert Fugate
Sponsored by Universities Space Research Association (USRA)
4: Space Trash | Ilima Room
Presented by Eugene Stansbery, NASA/JSC

2:00 PM - 6:00 PM  EARLY REGISTRATION | Aulani Foyer

Poʻakahi I Monday, September 8

2:00 PM - 6:00 PM  EARLY REGISTRATION | Aulani Foyer

Poʻalua I Tuesday, September 9

7:30 AM - 4:00 PM  SSA POLICY FORUM | Aulani Ballroom (Haku-Pikake)
Presented in partnership with the Space Foundation
Keynote Address
General John E. Hyten
Commander, Air Force Space Command, U.S. Air Force

8:00 AM - 5:00 PM  EXHIBITOR MOVE-IN | Aulani Ballroom (Jade-Plumeria-Maile)

10:00 AM - 6:00 PM  EARLY REGISTRATION | Aulani Foyer

6:00 PM - 7:30 PM  WELCOME RECEPTION | Luau Gardens
Co-sponsored by The Boeing Company
6:00 AM - 7:15 AM  
**BREAKFAST AT LEISURE** I Luau Gardens

9:00 AM - 6:30 PM  
**EXHIBIT HOURS** I Aulani Ballroom (Jade-Plumeria-Maile)

7:30 AM  
**CONFERENCE OPENING** I Aulani Ballroom (Haku-Pikake)

National Anthem and Hawaii Pono‘i  
MSgt Lara Murdzia, U.S. Air Force Band of the Pacific

Invocation  
Reverend Kealahou Aika, Keawala‘i Congregational Church

Welcome  
Jeanne Unemori Skog, President & CEO, Maui Economic Development Board

Alan Arakawa, Mayor, County of Maui

Keynote Address  
Introduction by Colonel L. Kirk Lewis, Ret., Senior Analyst, Institute for Defense Analyses

Natalie Crawford, Senior Fellow, RAND Corporation; Professor, Pardee RAND Graduate School

Invited Speaker  
Elliot Holokauahi Pulham, Chief Executive Officer, Space Foundation

9:00  
**COFFEE BREAK** I Aulani Ballroom (Jade-Plumeria-Maile)

Sponsored by SSL

9:30  
**CONJUNCTION ASSESSMENT PANEL**

Facilitator: Matthew Hejduk, a.i. solutions

Panelists:
Lauri Newman, NASA Goddard–unmanned spaceflight  
Lark Howorth, NASA JSC–manned spaceflight  
Monique Moury, Centre National d’Etudes Spatiales (CNES)  
Shinichi Nakamura, Japan Aerospace Exploration Agency (JAXA)

11:00  
**LUNCHEON** I Lokelani Ballroom

Sponsored by SGT

12:00 PM  
**CONJUNCTION ASSESSMENT SESSION**

Chair: Lauri Newman, National Aeronautics and Space Administration (NASA)

Scalable Conjunction Processing Using Spatiotemporally Indexed Ephemeris Data  
Irene Budianto-Ho, Stellar Science Ltd Co

Probability Forecasting Using Monte Carlo Simulation  
Matthew Duncan, SpaceNav

Evolution and Implementation of the NASA Robotic Conjunction Assessment Risk Analysis Concept of Operations  
Lauri Newman, National Aeronautics and Space Administration (NASA)
1:00 PM
JAC Software, Solving Conjunction Assessment Issues
Francois Laporte, Centre National d’Etudes Spatiales (CNES)

**ORBITAL DEBRIS SESSION**
Chair: Thomas Schildknecht, Astronomical Institute, University of Bern

- Orbital Debris Observations with WFCAM
  Rick Kendrick, Lockheed Martin Advanced Technology Center

- Improved Space Object Orbit Determination Using CMOS Detectors
  Thomas Schildknecht, Astronomical Institute, University of Bern

- High Resolution Radar for NASA and Space Situational Awareness for Observation and Monitoring
  Barry Geldzahler, National Aeronautics and Space Administration (NASA)

2:20
**COFFEE BREAK** I Aulani Ballroom (Jade-Plumeria-Maile)
Sponsored by Northrop Grumman Corporation

2:40
Implications of Hierarchies for RSO Characterization, Recognition, and Identification
Matthew Wilkins, Applied Defense Solutions

LightForce Photon-Pressure Collision Avoidance: Updated Efficiency Analysis Utilizing a Highly Parallel Simulation Approach
Jan Stupl, SGT

A Deterministic Approach to Active Debris Removal Target Selection
Aleksander Lidtke, University of Southampton

3:40
**SPACE SITUATIONAL AWARENESS SESSION**
Chair: Lindsay Millard, DARPA

- Joint UK-Australian Space Surveillance Target Tracking, Cueing and Sensor Data Fusion Experiment
  Pat Donnelly, Defence Science Technology Laboratory

- Technical Description of Radar and Optical Sensors Contributing to Joint UK-Australian Satellite Tracking, Data-fusion and Cueing Experiment
  Jon Eastment, STFC Chilbolton Observatory

- Orbit Determination Analysis for a Joint UK-Australian Space Surveillance Experiment
  Mark Rutten, Defence Science and Technology Organisation

4:40
**UNIVERSITY OF HAWAII’S RESEARCH AND INNOVATION INITIATIVES**
Vassilis Syrmos, University of Hawaii, Research and Innovation

5:00 - 6:30 PM
**EXHIBIT/POSTER SESSION 1** I Aulani Ballroom (Jade-Plumeria-Maile)
Co-sponsored by the University of Hawaii

5:30 - 6:30 PM
**NEW GENERATION “PAU HANA”** I Pacific Terrace Rooftop
**NETWORKING RECEPTION**
Co-sponsored by the Space Foundation (by invitation only)
6:00 AM - 7:15 AM  **BREAKFAST AT LEISURE**  | Luau Gardens

8:00 AM - 4:30 PM  **SPACE IN THE CLASSROOM TEACHER WORKSHOP**  | Mauna Loa
Co-sponsored by the Space Foundation

9:00 AM - 6:30 PM  **EXHIBIT HOURS**  | Aulani Ballroom (Jade-Plumeria-Maile)

7:30 AM  **CONFERENCE SESSIONS**  | Aulani Ballroom (Haku-Pikake)

**SPACE SITUATIONAL AWARENESS SESSION**  (continued)
Chair: Lindsay Millard, DARPA

Proto-Type Development of Optical Wide-field Patrol Network and Test Observation
Jang-Hyun Park, Korea Astronomy & Space Science Institute

Multi-phenomenology Observation Network Evaluation Tool (MONET)
Dan Oltrogge, Analytical Graphics Inc.

Space Situational Awareness of Large Numbers of Payloads From a Single Deployment
Alan Segerman, Naval Research Laboratory

Next Generation Space Surveillance System-of-Systems
Bill McShane, Lockheed Martin

8:50  **ASTRODYNAMICS SESSION**
Chair: Paul Schumacher, Air Force Research Laboratory

Validation of Accuracy and Efficiency of Long-Arc Orbit Propagation Using the Method of Manufactured Solutions and the Round-Trip-Closure Method
Robyn Woollands, Texas A&M University

Terminal Convergence Approximation Modified Chebyshev Picard Iteration for Efficient Orbit Propagation
Austin Probe, Texas A&M University

9:30  **COFFEE BREAK**  | Aulani Ballroom (Jade-Plumeria-Maile)

9:50  Catalog Build-up for Geostationary Orbit Using Simulated Short-arc Tracklets
Jan Siminiski, DLR/GSOC

Simplified Propagation of Uncertainty in the Non-Keplerian Problem
Inkwon Park, University of Colorado at Boulder

A Comparison of JPDA and Belief Propagation for Data Association in SSA
Mark Rutten, Defence Science and Technology Organisation

Information Theoretic Criteria for Observation-to-Observation Association
Islam Hussein, Applied Defense Solutions

Uncorrelated Track Classification, Characterization, & Prioritization Using Admissible Regions and Bayesian Inference
Marcus Holzinger, Georgia Institute of Technology

11:30  **LUNCHEON**  | Lokelani Ballroom
12:30 PM  An AEGIS-CPHD Filter to Maintain Custody of GEO Space Objects with Limited Tracking Data
Brandon Jones, University of Colorado at Boulder

Maneuver Detection and Estimation with Optical Tracklets
Keric Hill, Pacific Defense Solutions, Integrity Applications Inc.

1:10

SPACE SYSTEMS SESSION
Chair: Pat Patterson, Space Dynamics Laboratory

The Case for GEO Hosted SSA Payloads
Carol Welsch, Orbital Sciences Corp.

Concepts for an Enhanced CubeSat GEO Space Situational Awareness Architecture
Keith Morris, Lockheed Martin Space Systems Company

Flexible Next-Generation Space-Based SSA Payload
Alan Scott, COM DEV International

The Near Earth Object Surveillance Satellite: Mission Status and CCD Evolution After 18 Months On-orbit
Brad Wallace, Defence Research and Development Canada

2:30

COFFEE BREAK I Aulani Ballroom (Jade-Plumeria-Maile)

2:50

NON-RESOLVED OBJECT CHARACTERIZATION SESSION
Chair: Matt Hejduk, a.i. solutions

Interpretation of Spectrometric Measurements of Active Geostationary Satellites
Donald Bedard, Royal Military College of Canada

Bi-static Optical Observations of GEO Objects
Patrick Seitzer, University of Michigan Astronomy

Optical Characterization of Deep-Space Object Rotation States
Doyle Hall, Boeing

Effects of Optical and Geometrical Properties on YORP Effect for Inactive Satellites
Antonella Albuja, University of Colorado, Boulder

Propagation of Bayesian Belief for Near-real Time Statistical Assessment of Geosynchronous Satellite Status Based on Non-Resolved Photometry Data
Anil Chaudhary, Applied Optimization, Inc.

Comparison of Unscented Kalman Filter and Unscented Schmidt Kalman Filter in Estimating Attitude and Associated Uncertainty of Geosynchronous Satellite
Charles Wetterer, Integrity Applications Incorporated-PDS

4:50 - 6:30 PM

EXHIBIT/POSTER SESSION 2 I Aulani Ballroom (Jade-Plumeria-Maile)
Co-sponsored by SpaceNav

8:00 PM

SATELLITE WATCHING AND STAR GAZING I Pacific Terrace Rooftop
Sponsored by Analytical Graphics Inc.
6:00 AM - 7:15 AM  **BREAKFAST AT LEISURE**  | Luau Gardens

9:00 AM - 12:30 PM  **EXHIBIT HOURS**  | Aulani Ballroom (Jade-Plumeria-Maile)

9:00 AM - 1:00 PM  **SPACE IN THE CLASSROOM STUDENT DAY**  | Mauna Loa and Ilima
Co-sponsored by the Space Foundation

(300 middle school students to participate in Audience with an Astronaut and hands-on STEM activities)

7:30 AM  **CONFERENCE SESSIONS**  | Aulani Ballroom (Haku-Pikake)

JOINT R&D AND OPS, A WORKING PARADIGM FOR SSA
Keith Knox, Air Force Research Laboratory

8:10  **ADAPTIVE OPTICS AND IMAGING SESSION**
Chair: Charles Matson, Air Force Office of Scientific Research

A Wavefront Sensor to Detect Dim Objects
Mala Mateen, Air Force Research Laboratory

Gemini Planet Imager First Light: Advancing High Contrast Adaptive Optics
S. Mark Ammons, Lawrence Livermore National Laboratory

Research into a Single-aperture Light Field Camera System to Obtain Passive Ground-based 3D Imagery of LEO Objects
Kenneth Bechis, Northrop Grumman Information Systems

Optimal Dictionaries for Sparse Solutions of Multi-frame Blind Deconvolution
Bobby Hunt, Integrity Applications Inc.-PDS

9:30  **COFFEE BREAK**  | Aulani Ballroom (Jade-Plumeria-Maile)

9:50  **Demonstration of Uncued Optical Surveillance of LEO**
Peter Zimmer, J.T. McGraw & Assoc., LLC

The Navy Precision Optical Interferometer for SSA: A Progress Report
Sergio Restaino, US Naval Research Laboratory

10:30  **DAYLIGHT IMAGING SESSION**
Chair: Stacie Williams, Air Force Research Laboratory

The Daniel K. Inouye Solar Telescope: A Project Update
Thomas Rimmele, National Solar Observatory

Inertially-Aided Image Stabilization
Steve Griffin, Boeing

Daylight Imaging of SSA Targets Through Distributed Volume Non-Kolmogorov and Anisotropic Deep Turbulence at Low Elevation Angles
Jeremy Bos, Air Force Research Laboratory

Automating Image Enhancement Optimization Using Image Quality Metrics
David Gerwe, Boeing
11:50

**LUNCH** I Lokelani Ballroom

12:50 PM

**SPACE WEATHER SESSION**
Chair: Randall Alliss, Northrop Grumman

Automated Recognition of Type III Solar Radio Bursts Using Mathematical Morphology
James Jones, Northrop Grumman

Propagation of Forecast Errors from the Sun to LEO Trajectories: How Does Drag Uncertainty Affect Conjunction Frequency?
John Emmert, Naval Research Laboratory

LSP Simulation and Analytical Results on Electromagnetic Wave Scattering on Coherent Density Structures
Vladimir Sotnikov, Air Force Research Laboratory

Numerical Simulations of Optical Turbulence Using an Advanced Atmospheric Prediction Model: Implications for Adaptive Optics Design
Randall Alliss, Northrop Grumman

2:10

**COFFEE BREAK** I Aulani Ballroom (Jade-Plumeria-Maile)

2:30

**SENSOR PROCESSING SESSION**
Chair: Paul Sydney, Integrity Applications Incorporated-PDS

Improvements in Space Surveillance Processing for Wide Field of View Optical Sensors
Paul Sydney, Integrity Applications Incorporated-PDS

Ground Optical Signal Processing Architecture for Contributing SSA Space Based Sensor Data
Darin Koblick, Millennium Space Systems

Serendipitous Acquisition of Space Situational Awareness From Astronomical and Survey Sensors (SASSAFRASS)
Mark Bolden, Pennsylvania State University

Faint Debris Detection by Particle Based Track-Before-Detect Method
Masahiko Uetsuhara, The Institute of Statistical Mathematics

Track-Before-Detect Algorithm for Faint Moving Objects based on Random Sampling and Consensus
Phan Dao, Air Force Research Laboratory

Image Stacking Techniques for GEO Satellites
Grant Privett, Defence Science and Technology Laboratory

Measuring Close Binary Stars with Speckle Interferometry
Keith Knox, Air Force Research Laboratory

4:50 PM

**CONFERENCE ADJOURN**

5:30 - 8:30 PM

**CLOSING DINNER** I Luau Gardens

**Po‘aono I Saturday, September 13**

7:15 AM & 9:15 AM

**OPTIONAL TECHNICAL TOUR**
Departs from Wailea Marriott
Poster Presenters

Session 1 | Wednesday

Detection of Space-debris Using Space-Based Integrated Detection and Image Processing System
Medhat Azzazy, Irvine Sensors Corporation

SSA Modeling and Simulation with DIRSIG
David Bennett, Lockheed Martin Advanced Technology Center

GEODSS Overview
Robert Bruck, BAE Systems

NASA's Optical Measurement Program 2014 H.
Heather Cowardin, Jacobs

Determining Satellite Rotation Rates for Unresolved Targets Using Temporal Variations in Spectral Signatures
Joseph Coughlin, Stinger Ghaffarian Technologies (SGT)

Measuring Geosynchronous Satellites from Stellar Appulses with AO
Jack Drummond, Air Force Research Laboratory

Computer Vision Techniques Applied to Space Object Detect, Track, ID, Characterize
Brien Flewelling, Air Force Research Laboratory

Compliant Baffle for Large Telescope Daylight Imaging
Steven Griffin, Boeing

Quantitative Measurements of the Daytime Near Infrared Sky Brightness at the AEOS 3.6 m Telescope
Michael Hart, Hart Scientific Consulting International, LLC

Thousand-element Adaptive Optics Wave-front Controller
JianLu Jia, Chinese Academy of Sciences

Collision Avoidance: Coordination of Predicted Conjunctions between NASA Satellites and Satellites of other Countries
Angelita Kelly, National Aeronautics and Space Administration

NASA's Newest Orbital Debris Ground-based Telescope Assets: MCAT and UKIRT
Susan Lederer, National Aeronautics and Space Administration

An Adaptive, Agile, Reconfigurable Photonic System for Handling Analog Signals
Charles Middleton, Harris Corporation

Relative Cost and Performance Comparison of GEO Space Situational Awareness Architectures
Keith Morris, Lockheed Martin Space Systems Company

The Joint Space Operations Center (JSpOC) Mission System (JMS) and the Advanced Research, Collaboration, and Application Development Environment (ARCADE)
Jeremy Murray-Krezan, Air Force Research Laboratory/RV

Optical Observation, Image-processing, and Detection of Space Debris in Geosynchronous Earth Orbit
Hiroshi ODA, Japan Aerospace Exploration Agency (JAXA)

A Community Format for Electro-Optical Space Situational Awareness (EOSSA) Data Products
Tamara Payne, Applied Optimization Inc.

Identifying On-Orbit Test Targets for Space Fence Operational Testing
Daniel Pechkis, Institute for Defense Analyses

Clients of SSA Net-Ready Data
Tatum Poole, Lockheed Martin

Doublet Pulse Coherent Laser Radar for Orbital Debris Tracking of Resident Space Objects
Narasimha Prasad, NASA Langley Research Center

Development and Analysis of a Waffle Constrained Reconstructor (WCR) for Fried Geometry Adaptive Optics Systems
Robert Praus, MZA Associates Corporation

Simulation of Telescope Detectivity for Geo Survey and Tracking
Pascal Richard, CNES
Manyscale Computing for Sensor Processing in Support of Space Situational Awareness
Mark Schmalz, University of Florida

Practical Issues Related to the Interferometric Imaging of Geosats
Henrique Schmitt, Naval Research Laboratory

Optical and UV Sensing Sealed Tube Microchannel Plate Imaging Detectors with High Time Resolution
Oswald Siegmund, University of California, Space Sciences Lab

Follow-up Observatory for Low Earth Orbit Objects with a Detection Algorithm Using Streaks
Makoto Tagawa, Kyushu University

Joint Processing of Visible and Long-Wave Infrared Imagery
Daniel Thompson, Boeing

Recent Developments in Advanced Automated Post-Processing at AMOS
Michael Werth, Boeing

AMORE: Applied Momentum for Orbital Refuse Elimination
Mark Wolfson, Lockheed Martin

Session 2 | Thursday

An Analysis of Debris Orbit Prediction Accuracy from Short-arc Orbit Determination Using Optical and Laser Tracking Data
James Bennett, RMIT University / EOS Space Systems

Optical Survey of the Tumble Rates of Retired GEO Satellites
Christopher Binz, Naval Research Laboratory

Spacecraft Orbit Anomaly Representation Using Thrust-Fourier-Coefficients with Orbit Determination Toolbox
Hyun Chul Ko, University of Colorado Boulder

The Falcon Telescope Network
Francis Chun, Air Force Academy, Department of Physics

Rotation Rates of Inactive Satellites Near Geosynchronous Earth Orbit
Rita Cognion, Oceanit

Use of Hierarchical Mixtures of Experts to Detect Resident Space Object Attitude
David Gaylor, University of Arizona

SOFIA Cycle 2 Science Status and Targets of Opportunity
Helen Hall, University Space Research Association

A New Approach to Computing Information in Measurements of Non-resolved Space Objects by the Falcon Telescope Network
Douglas Hope, United States Air Force Academy

A Parallel Finite Set Statistical Simulator for Multi-Target Detection and Tracking
Islam Hussein, Applied Defense Solutions

Probabilistic Admissible Region for Short-Arc Angles-Only Observations
Islam Hussein, Applied Defense Solutions

Characterization of Inactive Rocket Bodies Via Non-Resolved Photometric Data
Richard Linares, Los Alamos National Lab

Fast Tomographic Reconstruction of Atmospheric Turbulence from Micro-lens Imagery
James Nagy, Emory University

Fusion of Telescopic and Doppler Radar Data
Mirko Navara, Czech Technical University in Prague, Faculty of Electrical Engineering

SpinSat Mission Preliminary Results
Andrew Nicholas, Naval Research Laboratory
Session 2 | Thursday (continued)

Parametric Characterization of SGP4 Theory and TLE Positional Accuracy
Dan Oltrogge, Analytical Graphics, Inc.

Data Reduction algorithm for Optical Wide Field Patrol (OWL)
Sun-youp Park, Korea Astronomy & Space Science Institute (KASI)

Diagnostic Comparisons of Near-Earth Object Identification using Slit Spectroscopy and Slitless Grating Methods
Eileen Ryan, New Mexico Institute of Mining and Technology

On LEO Debris Orbit Prediction Performance Using Tracking Data from a Single Station
Jizhang Sang, Wuhan University

An Empirical Model of Solar Indices and Hemispheric Power based on DMSP/SSUSI Data
Dastgeer Shaikh, Northrop Grumman

Using a Smartphone Camera for Nanosatellite Attitude Determination
Rogan Shimmin, SGT

A Short Evaluation of Triangulated Range from Multiple Angles-Only Sites
Zach Slatton, 614 AOC//SSD

Interchange and Flow Velocity Shear Instabilities in the Presence of Finite Larmor Radius Effects
Vladimir Sotnikov, Air Force Research Laboratory

Investigation of the Electron-Ion Hybrid Instability in a Collisional Environment
Erik Tejero, Naval Research Laboratory

Exploiting the Magnetic Origin of Solar Activity in Forecasting Thermospheric Density Variations
Harry Warren, Naval Research Laboratory

Comparison of Radiation Pressure Perturbations on Rocket Bodies and Debris at Geosynchronous Earth Orbit
Charles Wetterer, Integrity Applications Incorporated-PDS

Emerging Technologies: Small Satellite and Associated TPED
Robert Zitz, Leidos
Conference Map

Lobby Level

- Lokelani Ballroom (located behind hotel front desk)
- Exhibits & Posters
- General Session

Breakouts: 4615, 4617, 4619

Ground Level

- Located directly under the ‘Aulani Ballroom
- Breakouts: 4421, 4427, 4429