

UAS MAPPING 2014 RENO
PRELIMINARY PROGRAM (as of July 6, 2014)

MONDAY – 10/20/14

Exhibit Setup – Noon to 5:00 pm

Registration – Noon to 5:00 pm

Workshops – all day

Multi-vendor user groups and workshops (unlimited space)

TUESDAY – 10/21/14

Registration – 7:00 am – 2:00 pm

Introductory Remarks – 8:00 am – 9:00 am

Lewis Graham, GeoCue – Master of Ceremonies

Welcoming remarks from State of Nevada / Reno officials

Michael Hauck, ASPRS Executive Director

Keynote introduction to ASPRS – “What’s at Stake?”

Stewart Walker, ASPRS President

Words from the ASPRS President – Role of ASPRS in UAS

Pierre le Roux, ASPRS UAS Division Director

ASPRS Division activities and call for participation

Introduction of Invited Guests

Including:

Vikki Stone, POMS and Associates – Insurance for UAS

Cameron Clor, Nixon Peabody LLP – UAS and the Law

Patrick Egan, sUAS News – UAS and the Media

KEYNOTE – 9:00 am – 9:45 am

Keynote Speaker – Chris Anderson and Brandon Basso of 3D Robotics and DIY Drones

“Why now?” Why are drones suddenly so popular?

What is at stake for the survey and mapping industry?

How has Structure from Motion (SfM) algorithms totally changed the market . . .

Break & Exhibit Hall – 9:45 am – 10:15 am

OVERVIEW – 10:15 am – 11:15 am

Warren “Bum” Rapp, Northern Nevada Range Manager, Nevada Institute of Autonomous Systems

UAS testing at the NV Test Site / FAA Regulations/ what’s coming up at the Test Site

Mike Tully, CEO, Aerial Services, Inc.

Overview of sUAS workflow from mission planning to the creation of products

Colin Snow, CEO, Drone Analyst

“The Economics of a sUAS Business Practice”

An overview of business models and what it takes to be profitable

Lunch (provided) in Exhibit Hall – 11:15 am – 12:30 pm

PANEL 1: VEHICLES – 12:30 pm – 1:15 pm

David Ward – Silent Falcon

Brian Murphy – Altavian

George Southard – Trimble

Ruedi Wagner - Leica Geosystems

Bernd Lutz – Multirotor Service Drone

Baptiste Tripard – senseFly eBee

David Yoel – American Aerospace Advisors, Inc.

Panel discussion and Q&A on the pros/cons of various vehicle types

SESSION: DATA COLLECTION – 1:15 pm – 2:15 pm

Mission planning / ground control / flying the mission / field checking

Ella Herz – Orbit Logic Incorporated (Mission Planning)

Jeff Lovin – Woolpert (Ground Control)

Chris Stallings – McKim & Creed (Mission Planning and Flying the Mission)

BUSES TO STEAD AIRPORT – 2:15 pm – 3:00 pm

RECONVENE AT STEAD AIRPORT, NORTH OF RENO – 3:00 pm – 5:00 pm

Live demonstrations of UAS in flight

BUSES FROM STEAD TO HOTEL – 5:00 pm – 5:30 pm

NETWORKING SOCIAL – 6:00 pm – 7:30 pm

WEDNESDAY – 10/22/14

Registration – 7:00 am – 10:00 am

Breakfast in Exhibit Hall – 7:00 am – 8:00 am

PANEL 2: SENSORS – 8:00 am – 8:45 am

Ken Clickenger – Phase One

Ryan Cousins – KRTKL

Jim Green – Optech

Wolfgang Juchmann – Velodyne

Steve Riddell - GeoCue

Brandon Basso – 3D Robotics

Panel discussion and Q&A on the merits/trade-offs of cameras and sensors for sUAS

SESSION: DATA PROCESSING (Part 1) – 8:45 am – 9:45 am

Dr. Thomas Jordan – University of Georgia – Structure from Motion
Antoine Martin – Pix4D – “The rayCloud” – a vision beyond the point cloud
Heather James – Kitware – Open Source Computer Vision and Analytics

Break & Exhibit Hall – 9:45 am – 10:15 am

SESSION: DATA PROCESSING (Part 2) – 10:15 am – 11:15 am

Reuben Settergren – BAE Systems – Using UAS in traditional photogrammetric workflows
Jeff Young and Genie Hay – Lizardtech – Data Compression
Dr. Hank Theiss – Integrity Applications - Measuring & Reporting Accuracy in UAS image-based point clouds

Lunch (on own) & Exhibit Hall – 11:15 am – 1:30 pm

KEYNOTE – 1:30 pm – 2:15 pm

Peter Birch, Google Earth Engine Product Manager
“Peta-Pixel Processing in the Cloud”
Google’s development of a platform for big data cloud-based data management, processing and dissemination and its applicability to UAS operations.

SESSION: OVERSEAS OPPORTUNITIES – 2:15 pm – 3:00 pm

Dr. Mukund Rao, International Consultant in EO, GIS and Space,
Adjunct Faculty, National Institute of Advanced Studies
“Imaging and Data – Emerging Applications and Market for UAS Technology in India”
Discusses how UAS technology and applications can enable the National GIS for India.
Outlines a first-of Indian perspective of the UAS user-segment and market scenario.

Dr. Bernd Lutz, CEO of MULTIROTOR Service-Drone USA
“Commercial Applications of Unmanned Aerial Systems in Europe”
Presenting practical perspectives from the field - a presentation on European client projects

Break & Exhibit Hall – 3:00 pm – 3:30 pm

SESSION: EMERGING APPLICATIONS IN THE US – 3:30 pm – 5:30 pm

David Dvorak, CEO, Field of View LLC
“Practical applications and results in UAS Precision Agriculture”

Russ Faux, Quantum Spatial Inc. Title TBD

Invited speaker from Aerovironment – UAS mapping for pipelines
Invited speaker from Caron East, Inc. – UAS mapping for landfill and mining operations
Invited speaker from North Carolina Department of Transportation – UAS transportation applications

Dr. Vince Ambrosia, Senior Research Scientist NASA Ames
Adjunct Faculty California State University Monterey Bay
Everett Hinkley, US Forest Service, National Remote Sensing Program Manager
“UAS for Forest Fire Management”

Jeff Sloan, Project Lead, National Unmanned Aircraft Systems Project Office, USGS
Lance Brady, Senior Flight Operations Manager, USGS UAS Project Office
“UAS for Natural Resource Monitoring”

Closing Remarks – 5:30 pm – 6:00 pm
Including summary of live demo results

Exhibit Tear-Down – 6:00 pm – 8:00 pm (Also extended to next day – Thursday 8:00 am – Noon)