



NWARC Partnership Session

May 20 & 21, 2010

Museum of Flight, Seattle, Washington





Cascade Chapter AUVSI



President, Joe Gibbs – NWUAV
Vice President, Eric Folkestad – Arcturus UAV
Secretary, Eric Byers – Near Space Corp.
Treasurer, Heather Sorenson – NWUAV

Lisa Brookshier – NW Technologies
Chris Miller – VersaLogic
Jay Schmidt – Silicon Forest
John Lynch – Outback Manufacturing
Dirk Ellis – Cascade Engineering
Curt Chesnutt / Brad Schrick – Insitu



Prime Contractors



ARCTURUS UAV™





Sponsors





May 20



8:30-9:30 Boeing Research and Technology SWARM Lab Demonstration - Invitation
Only Live demonstration of the Boeing Swarm Lab, where up to 20 UAVs swarm at once demonstrating autonomy and independent sense and avoid

10:00-10:30 Congressional NWARC Welcome (Video) Senator Patty Murray— Staff
Introduction: Congressman Norm Dicks, WA (6th), Letter introduction, Congressman Rick Larson, WA (2nd) and David Blair; Senator Ron Wyden's Office.

10:30-11:00 Introduction – Building a Regional Robotics Technology Cluster
Cliff Hudson, Director, DoD Robotics Mentor-Protégé Program
Economic Development for Central Oregon – Current DARPA Projects &
Building an Industry Cluster: Roger Lee

11:00-11:30 Office of Secretary of Defense DoD Cooperative Autonomy & Electronic
Warfare Raleigh Durham, Director of Strategic Assessments, Office of the Director,
Defense Research & Engineering

11:30-12:00 Small Business Administration Ms. Diana Drake, Seattle District

12:00-1:30 Luncheon Keynote Speaker - Tad McGeer, Insitu Founder— (Currently with
Aerovel) "Challenges to Unmanned Systems Trade and Cooperation"

5:00-6:00 Social Networking Session – Sponsored by the PNDC



May 21



10:00-10:30 Office of Secretary of Defense

Ms. Matice Wright, Deputy Director, Industrial Policy

10:30-11:00 Power Beaming to UAVs Tom Nugent, LaserMotive

11:00-11:30 PNNL Dan Palo, PHD -Deputy Co-Director Microproducts
Breakthrough Institute - Pacific Northwest National Laboratory

11:30-12:00 National Oceanic and Atmospheric Administration—Robyn
Angliss, Ph.D., NOAA National Marine Mammal Laboratory, Co-Lead for UAS
research projects in Alaska

12:00-12:30 USGS David Johncox, National Aviation Manager, USGS Aviation
Program, Use of UAS Systems, Current and Future Technology Needs

12:30-1:30 Lunch— Industry Overview

Boeing Unmanned Airborne Systems – Current Platform Overview
Tom Hagen, Senior Manager Integrated UAS Concepts

3:30-5:00 - General Session – General Session – Regional ATC Status Update
ATC Team Response – Robotic Underground Munition RFI,
Defense Threat Reduction Agency



May 20 Breakout Sessions



1:30-3:15 Breakout Session 1 - UAV Power & Propulsion – Development of USA Manufactured Power and Propulsion for SUAS – Lead Northwest UAV Propulsion Systems, Joe Gibbs, Ricardo PLC, Dr. Ronald Storm Director of Military – Heavy Fuel Engine IRAD Program, Protonex Technology Corp, Dr. Paul Osenar, Fuel Cells for Unmanned Systems, Air Force Research Lab & Air Force Institute of Technology & The Air Force Institute of Technology–Current UAV Propulsion Projects.

Breakout Session 2 - Robotics Education and Training–Lead: Dr. Charles Muse & Bill Bennett - Florence Darlington Technical College, Rod Schein - Edmonds Community College, Clackamas Community College, & Oregon State University & Oregon Institute of Technology

3:15–5:00 Breakout Session 3 - Structures – Innovative Manufacturing Techniques Lead: Boeing Unmanned Systems & Lancair International (Bend Oregon) will have their Composite “Evolution” aircraft on display & AMI

Breakout Session 4 - Payload Integration – Small UAS Subsystem Integration – Lead; John Vian, Boeing Research & Technology – UAS Swam Lab, Vicki Crisp, Director of Aeronautics, NASA Langley Research Center; Contested Spectrum Defense, Anthony Marra, President, Dynamics Analytics Test, Inc.



May 21 Breakout Sessions



1:30-3:30 Breakout Session 5 - Testing Ranges – Securing airspace within the cluster, See and Avoid – Eric Folkestad, Application Engineer, Arcturus UAV, John Lynch, Outback Manufacturing and Unmanned Autonomous Systems Test, Defense Test Resource Management Center

Breakout Session 6 - Civilian Applications – Lead: Pete Helman, Flight Operations Manager, Near Space Corporation, Lloyd Spencer, President and CEO, Coro Ware Inc. Tad McGeer, Aeroovel, NOAA & USGS

Amy Crolius – AUVSI – Membership Director



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