

Summary

1. Welcome and Introductions- Joe Gibbs, Northwest Propulsions
  - a. Welcome
  - b. Teaming opportunities
  - c. Next event Oct 13 at CCC in Oregon City, OR
  
2. US Navy Systems Master Plan- Rob Simmons
  - a. PMS 408- small deployable systems
  - b. PMS 406- unmanned marine systems  
[https://wiki.nps.edu/download/attachments/2228732/USV+Col+Brochure+\(electronic\).pdf?version=1&modificationDate=1301001825000](https://wiki.nps.edu/download/attachments/2228732/USV+Col+Brochure+(electronic).pdf?version=1&modificationDate=1301001825000)
  - c. Mission:
    - i. Mine countermeasure
    - ii. Maritime and Homeland Defense
    - iii. Pre-assault area
  - d. Key attributes:
    - i. Expediency
    - ii. Minefield suitable
    - iii. Easy to use
    - iv. Affordable
  
3. Blueview Technologies- Lee Thompson, CEO (Imaging Sensors for Undersea Systems)  
<http://www.blueview.com/>
  - a. Spin off from the University of Washington
  - b. Developed broad range of sonar applications:
    - i. 2D imagery- real time monitoring
    - ii. 3D microbathmetry- structure inspection
    - iii. 3D mechanical scanning systems

4. iRobot- Paco Santana, iRobot Maritime Systems ( <http://www.irobot.com/gj/maritime/>)
  - a. Developer of several maritime UAVs:
    - i. Sea glider- currently in development- focused on testing for a wide range of water quality items- temperature, oxygen, conductivity, CO2, hydrocarbon, and backscatter elements. 6ft long, very slow (1/2 knots)
    - ii. Ranger- have built- 20 different unique models
    - iii. Transphibian- used for awkward payloads- capable of 6 degrees of movement
    - iv. RILS- high speed source detection
    - v. Next generation countermeasure- 3" dia capable of 15knots
  - b. Challenges-33-50% of mission energy is used to get there a back- alternative approach is ADAP- glide to where you need to get and then deploy there
  
5. US Navy (Pacific Mammal Program and Navy UAS)- Mike Rothe, Space and Naval Warfare Systems ( <http://www.spawar.navy.mil/sandiego/technology/mammals/>)
  - a. Mammals (dolphins and sea lions) have been used since the Vietnam War and are trained for a wide variety of tasks:
    - i. Swimmer interdiction
    - ii. Mine recovery
    - iii. Swimmer defense
    - iv. Repair/replace mines
  
6. Central Oregon Test Range Update- John Lynch and Roger Lee, Central Oregon Development Department ( <http://oregonuav.blogspot.com/>)
  - a. Goal is to create a UAS test range in Central Oregon (outside of Bend) at the Juniper MOA
    - i. To be used by the regional UAS players
    - ii. Develop a cluster of companies in the area- 13 companies have committed to use the testing site
  - b. Next step is secure public sponsor – currently exploring options with- Oregon State University, Warm Springs Tribe and Deschutes County

7. SAIC Ocean Technology (Autonomous UUV Launch and Recovery) -Phil Lebas, Program Manager
  - a. Currently undertaking a 3 phase program to develop a system to deploy and retrieve large diameter UUVs:
    - i. Demo single vehicle payload
    - ii. Develop multiple UUVs
    - iii. UUV inside UUVs
  - b. Approach
    - i. Want to use proven technology
    - ii. Phase 1- at sea testing
    - iii. Phase 2- multi-launch capability
    - iv. Phase 3- large diameter capable of full automation
8. Seattle Police use of AUVs- Greg Sackman
  - a. Took 18 months to get approval to use UAVs due to liability and privacy concerns- need to work to improve the process to support police activities
9. National AUVSI Show- Amy Crolius
  - a. This year's event will be held in DC on August 16-19
10. Boeing P-8 Poseidon Update- Robert Schoeffling
  - a. The P-8 replaces the P-3. The current plan is to buy ~120 airplanes for the US, Australia and India. Highlights of the P-8 include:
    - i. Next generation anti-submarine warfare
    - ii. High resolution computers
    - iii. Communication across entire spectrum
    - iv. Capable of tracking 64 sonobouys at the same time
    - v. Networked ISR- capable of networking with UAVs