Conference Report

IISL-ECSL Symposium
UN COPUOS Legal Subcommittee
Vienna Austria
13 April 2015
Who?
Embry-Riddle, Department of Applied Aviation Sciences

Why Us?
Commercial Space Operations
Air Traffic Management
Meteorology
Aerospace Safety
Other faculties…Physical Sciences and Space Weather
NextGen Test Bed
What exactly?
2 day conference in November 2014, on campus

Objectives:
Bringing the space traffic roadmap into focus
Identifying surfacing issues in STM
Providing leadership in planning
Facilitating agreement on the next steps
48 papers total, 26 presented
Peer reviewed
Online and interactive
10,303 downloads as of 7 April 2015
4 keynote speakers
80 attendees
International participation
5 panels
Air & Space Traffic Integration: Operational Perspectives
Air & Space Traffic Integration: Initiatives
Air & Space Traffic Integration: Legal & Policy Issues
Weather (space and otherwise…)
Space Situational Awareness
Graphic of Roadmap
Interactive throughout conference
The landscape evolved
We prioritized: high, mid, and low
Using this to move forward
Examples:
Operational Perspectives

**High**
- regulate traffic lanes
- 60,000 feet to LEO

**Mid**
- Incorporate “known” air transport technologies into spaceflight
- Compile lessons learned like Vandenberg schedule deconfliction

**Low**
- Space vehicle and UAS/RPAS definitions
Examples:
Initiatives

High
How do we develop/encourage global/SWIM capability?
Is there a community of practice for spaceports?
Should there be?

Mid
Refine technologies

Low
Distinguish between space exploration/deep space and LEO/GEO and suborbital
Examples:
Legal & Policy

High
Clearer terms
Leverage insurance companies to assist industry in establishing clear definitions

Mid
Better defined Rules of Right of Way

Low
What happens if the “bingo” field is outside the country of takeoff?
Examples:
Space Weather
  Mid
  Keep track of weather at spaceports
  Low
  What is the engineering cost to protect against weather?
  Does insurance care to forecast weather for missions?
Examples:
Space Situational Awareness

**High**
Collaborative research on debris and traffic management at university level

**Mid**
Better collision predictors

**Low**
Active debris removal
Where does the road lead from here?
Proceedings underway
Research is commencing
Developing electronic interactive version of roadmap for website
Working to increase international participation and input from emerging economies

Call for papers under construction
Dates: 11-13 November 2015
Embry-Riddle Aeronautical University
Contact me with ideas, questions, to get onto our distribution list and with research needs diane.howard@erau.edu

Take a look at the conference website: http://commons.erau.edu/stm/
Questions?