

# FAA Center of Excellence Commercial Space Transportation Research Area 1 Workshop

## February 6, 2018

### REGISTER NOW

<https://www.mitre.org/faa-center-workshop>

#### **Research Area 1 (RA1):**

RA1 goals consist of: Safe and equitable sharing of the NAS by air and space vehicle operators, improved spaceport interoperability & development of spaceport industry infrastructure, situational awareness and understanding of risk by resident space objects, and increased understanding of the space environment

#### **Purpose:**

Educate audience and stakeholders on current research in the COE CST RA1 while fostering discussion about new research ideas and collaboration

#### **Organization:**

Morning session:  
space traffic management (STM) & space environment

Afternoon session:  
NAS commercial space integration and spaceports

#### **Morning Session**

- Introduction
- Previous & Current COE STM Research
  - space situational awareness/orbital object location prediction
  - whole atmosphere model
  - space environment meteoroid and orbital debris modeling and prediction
- Current & Future COE STM research
  - space object database
  - CubeSat deployment tracking
  - new spacecraft protection criteria
  - future data needs for COLA analysis
  - COLA model development
- Breakout Session

#### **Afternoon Session**

- Introduction
- Previous & Current NAS Commercial Space Integration Research
  - advanced 4d special use airspace research
  - dynamic rerouting of aircraft during commercial space launches
  - safety of launch and reentry operations in the NAS
  - dynamic aircraft hazard areas – HRAM
- Spaceport Operations
  - spaceport database
  - NAS integration of launch/reentry sites
  - ATO R&D roadmap
  - commercial space transportation integration/AST R&D roadmap
- Breakout Session

#### **Location:**

MITRE-1 Building (J)  
MITRE Conference room (MA1)  
7525 Colshire Drive  
McLean, VA 22102  
Phone: (703) 983-8013

This event is presented by Stanford University in collaboration with the University of Colorado. This event is sponsored by the FAA COE CST and the MITRE Corporation.

