

# FAA Center of Excellence for Commercial Space Transportation (COE CST) Overview & Status



*Ken Davidian, FAA AST  
FAA Commercial Space Conference  
February 6, 2014*

# AST's Dual Mission Goals

**Source: TITLE 51 US CODE SUBTITLE V, CH. 509**

- Regulate the commercial space transportation industry, only to the extent necessary, to ensure compliance with international obligations of the United States and to protect the public health and safety, safety of property, and national security and foreign policy interest of the United States.
- Encourage, facilitate, and promote commercial space launches and re-entries by the private sector.

# Center of Excellence for Commercial Space Transportation

*Created by the Omnibus Budget Reconciliation Act of 1990, Public Law 101-508, Title IX, Aviation Safety and Capacity Expansion Act.*

- **What:** A 10-year partnership of academia, industry, and government to create a world-class consortium.
  - August 2010 - August 2020
- **3 Goals:** Research, Training, Outreach/STEM
- **Purpose: Improve National Competitiveness...**
  - ... through the development of advanced, specialized human, physical, and knowledge resources to address commercial space industry challenges.
- **Origins:** Openly-competed and selected by the FAA Administrator.
- **Matching Requirement:** 1:1 for All USG Funds





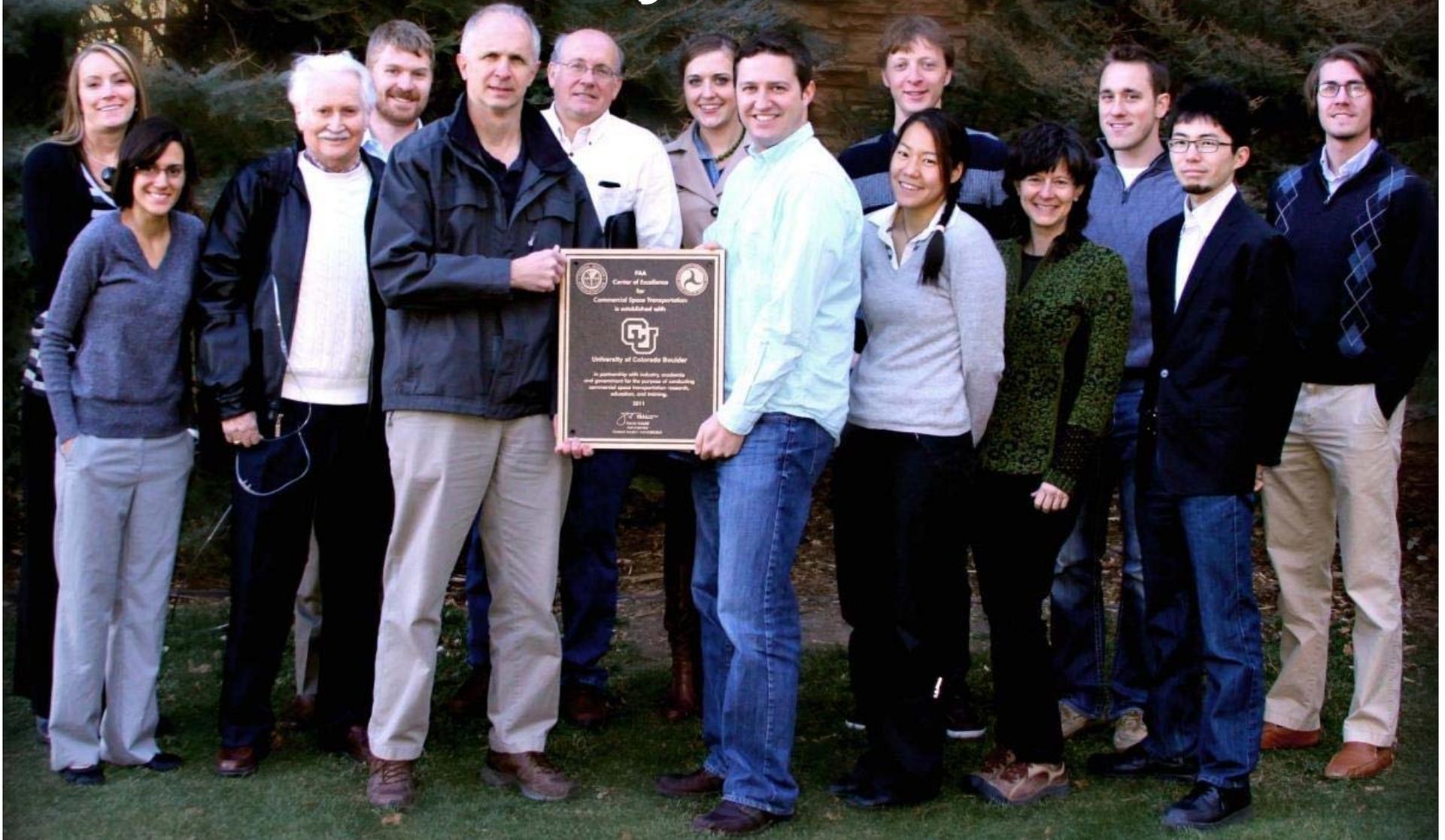
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# University of Colorado



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# Stanford University



**Tom  
Colvin**

**Francisco  
Capristan**

**Alan  
Li**

**Jose  
Padiá**

**Jonah  
Zimmerman**

**Professor  
Scott  
Hubbard**

# University of Texas Medical Branch



L to R: Richard Jennings\*\*, Anil Menon\*, Jennifer Law\*, Tarah Castleberry\*\*, Becky Blue\*, Jim Vanderploeg\*\*, James Pattarini\*, James Cushman\*, Charles Mathers\* (via computer).  
\*\*Faculty. \*Resident (student) in aerospace medicine.

# New Mexico Tech



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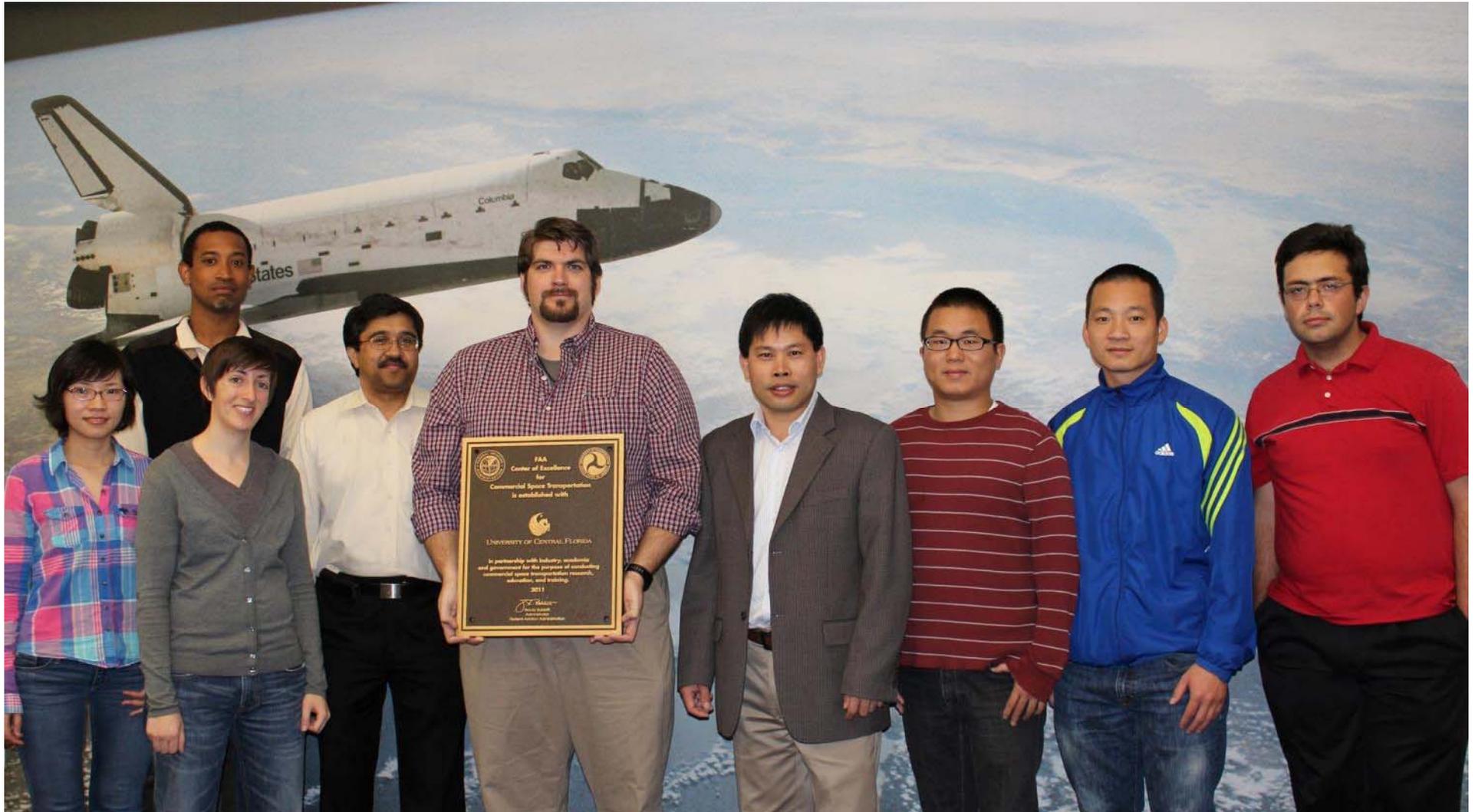
# Florida State University



# Florida Institute of Technology



# University of Central Florida



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# University of Florida



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# New Mexico State University



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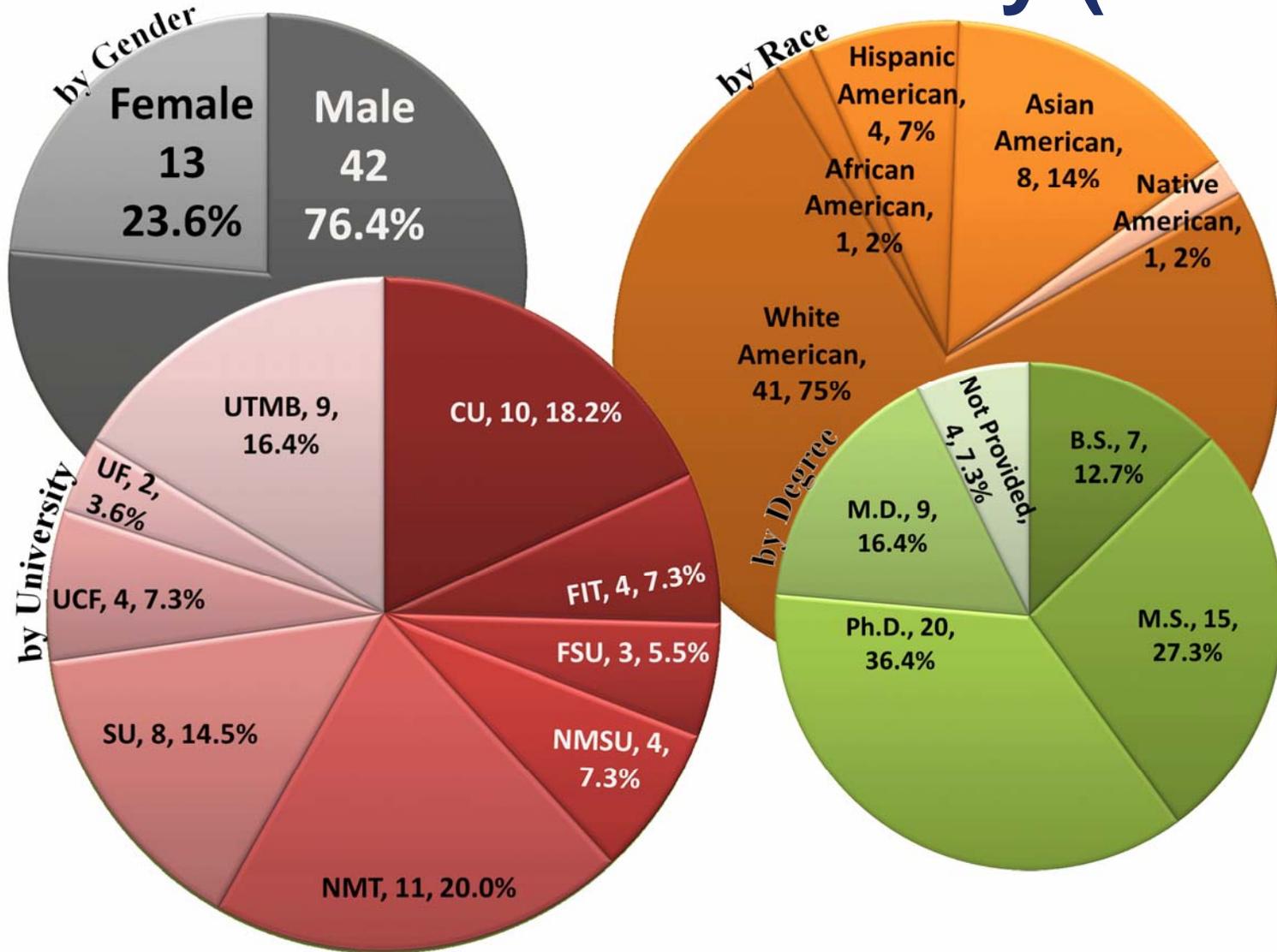


# COE CST: It's All About the People...



26-27 March 2012, ESIL-02 Workshop, Washington DC

# COE CST Student Diversity (Year 3)



# COE CST Year 3 Supporters



# Suborbital Flight Human Testing



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# Annual Technical Meetings



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# COE CST Year 3 Status

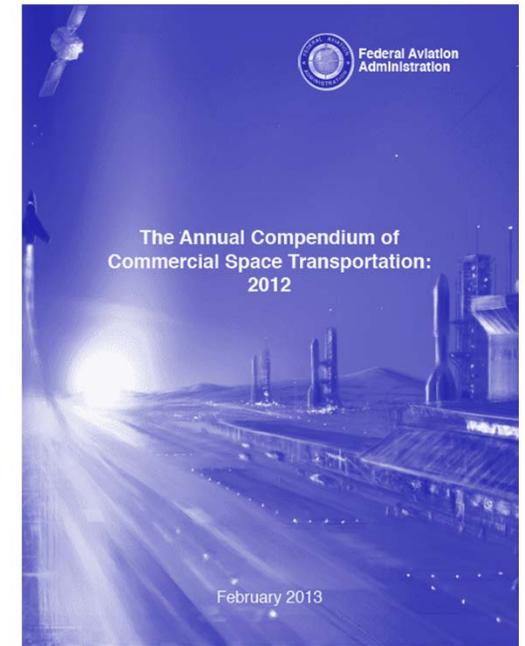
At-A-Glance Metrics	Year 1	Year 2	Year 3
# Active Tasks	34	24	25
# Principal Investigators	27	28	23
# Students	31	37	55
# Reports	0	38	28
# Research Partners	NA	17	20
# Industry Partners	NA	29	43*
# Affiliate Members	0	1	6
Funding Profile	\$2M (FY10)	\$2.4M (FY11/12)	\$1.1M (FY13)

# For More Information...

- FAA AST Annual Compendium of Commercial Space Transportation: 2013
- COE CST Web Site
- Blogs & Wikis
  - NewSpaceWatch.com by Clark Lindsey
  - ParabolicArc.com by Douglas Messier
  - Commercial Space Wiki



[www.coe-cst.org](http://www.coe-cst.org)



[bit.ly/ASTComp2013](http://bit.ly/ASTComp2013)



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