



Florida Institute  
of Technology



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

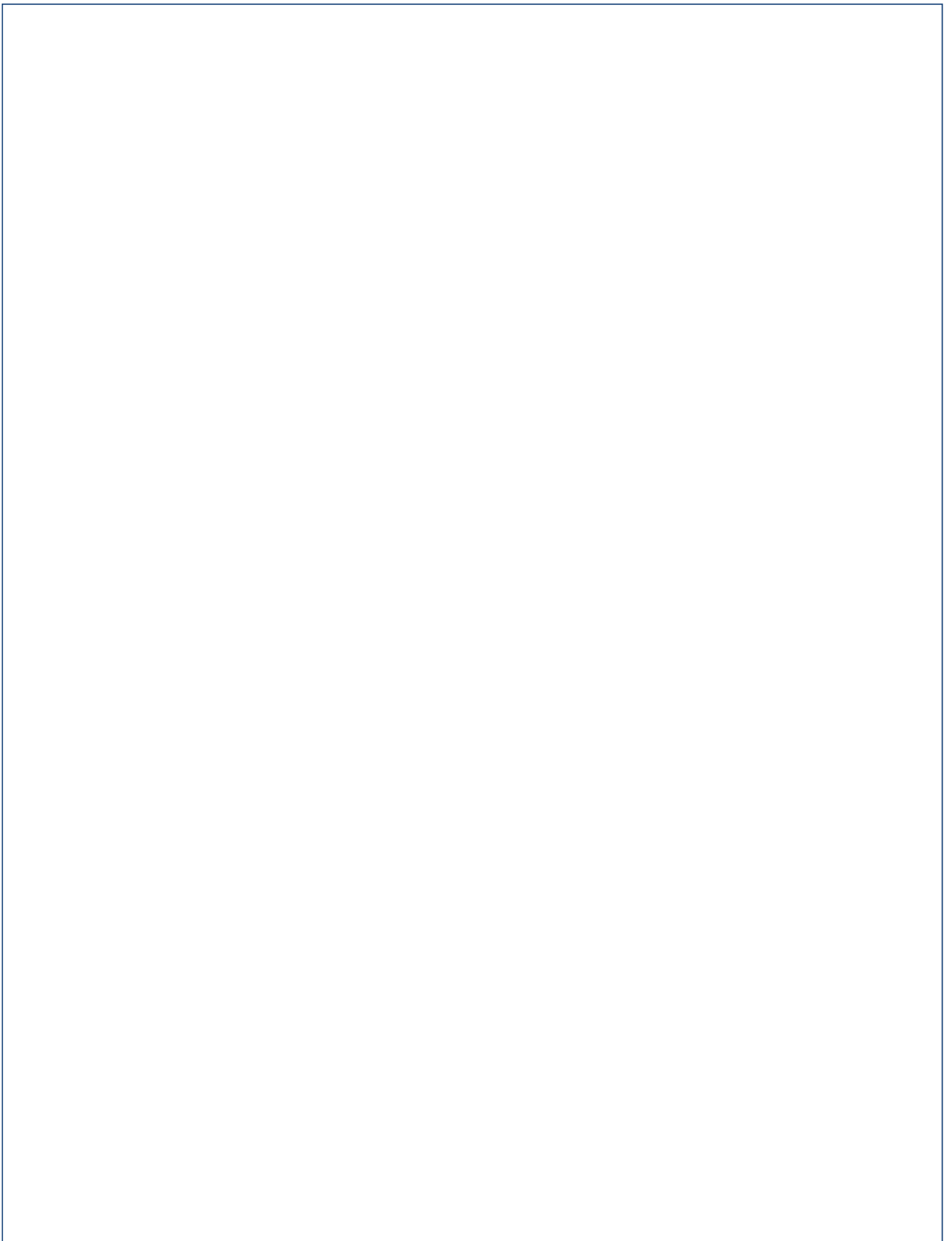


Center of Excellence for  
Commercial Space Transportation

# Federal Aviation Administration Center of Excellence for Commercial Space Transportation

## Year 6 Annual Report Volume 3 Teleconference Notes

December 31, 2016



## COE CST YEAR 6 ANNUAL REPORT – VOLUME 3

This report is produced by the FAA Office of Commercial Space Transportation (AST) in fulfillment of FAA Centers of Excellence program requirements.

The full report is broken into three volumes:

- The Executive Summary gives an overview of the FAA AST, the FAA COE program and the COE CST. A brief description of the member universities precedes a series of “quad charts,” one for each task conducted by the COE CST during the sixth year of operation. The document ends with a listing of the Year 6 students, supporting organizations and technical publications.
- Volume 1 gives a description of the FAA COE CST, its research, structure, member universities and research tasks.
- Volume 2 is a comprehensive set of presentation charts of each research task as presented at the sixth Annual Technical Meeting in October 2016.
- Volume 3 is a comprehensive set of notes from all FAA COE CST teleconferences and face-to-face meetings.

This is Volume 3 of the full report.

The COE CST Executive Committee Teleconferences notes and audio recordings are included and can be easily accessed by clicking on the blue links in the below table:

<b>Meeting Notes for #</b>	<b>Date</b>	<b>Audio Recording</b>
<a href="#"><u>40</u></a>	January 11, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>41</u></a>	February 8, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>42</u></a>	March 14, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>43</u></a>	April 11, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>44</u></a>	May 9, 2016	No Recording "Act of God"
<a href="#"><u>45</u></a>	June 13, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>46</u></a>	July 11, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>47</u></a>	August 8, 2016	<a href="#"><u>Play</u></a>
<a href="#"><u>48</u></a>	September 26, 2016	<a href="#"><u>Play</u></a>
XX	October 2016	XX
<a href="#"><u>49</u></a>	November 21, 2016	<a href="#"><u>Play</u></a>
XX	December 2016	XX

Any questions or comments about the content of this report should be directed to Mr. Ken Davidian, FAA Program Manager for the Center of Excellence for Commercial Space Transportation, or Dr. Patricia Watts, FAA COE Program Director.

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## **Introduction**

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Included in this volume are the notes, recordings, minutes and presentation material from the Center of Excellence for Commercial Space Transportation (COE CST) teleconferences held between January and December 2016.

Each telecon may have some combination of notes (read-ahead material sent out prior to a teleconference), minutes (taken during the teleconference and sent out after the meeting), and/or attachments.

During this time, there were ten different Executive Committee (EC) Teleconferences conducted on the following dates:

- January 11, 2016 - Teleconference #40
- February 08, 2016 - Teleconference #41
- March 14, 2016 - Teleconference #42
- April 11, 2016 - Teleconference #43
- May 09, 2016 - Teleconference #44
- June 13, 2016 - Teleconference #45
- July 11, 2016 - Teleconference #46
- August 08, 2016 - Teleconference #47
- September 26, 2016 - Teleconference #48
- November 21, 2016 - Teleconference #49

There were no EC Telecons conducted in October or December 2016.

The remainder of this report volume includes all the notes, minutes and attachments from these meetings.



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #40 MONDAY, 11 JANUARY 2016**

**1:00 EST (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. George Born <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance <input type="radio"/> Dr. Nat Villaire
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Emmanuel Collins	<input type="radio"/> Dr. Billy Oates <input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	<input type="radio"/>
NMT	<input type="radio"/> Dr. Warren Ostergren	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> Dr. Dave Westpfahl <input type="radio"/> Dr. Keith Miller
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	<input type="radio"/>
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	<input type="radio"/>
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	<input type="radio"/>
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Mr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
FAA	<input type="radio"/> Dr. Patricia Watts	<input type="radio"/>	<input type="radio"/>
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
McGill	<input type="radio"/> Ms. Andrea Harrington	<input type="radio"/>	<input type="radio"/>
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	<input type="radio"/>
NASA-AMES	<input type="radio"/> Mr. Michael Dudley	<input type="radio"/>	<input type="radio"/>
Lincoln Labs	<input type="radio"/> Mr. Rod Cole	<input type="radio"/>	<input type="radio"/>
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett	<input type="radio"/>	<input type="radio"/>
Simpson	<input type="radio"/> Mr. Chris Draper	<input type="radio"/> Ms. Christina Smith	<input type="radio"/>

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # should **both** be used if accessing video.

**Yellow highlighted attendance above from 9 November 2015**

Next telecom is scheduled for 8 February 2016 (1:00 EST)

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

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1. Research proposal solicitation process – schedule and changes (Ken)
2. Research Road Map status – posted [www.coe-cst.org](http://www.coe-cst.org) (Ken)
3. DOT Reporting Requirements – data management plan, copyright waivers, more (Ken)
4. Annual Report
  - 4.1. Executive Summary – available for distribution (February 2) AST CST Conference
  - 4.2. Additional Technical Summary Volume for 5-year, Phase I Closeout
5. DARPA funding available – proposals due January 18th
6. AAM6 – March 29-30 in Galveston, TX at UTMB (Fred & Jim)
7. AST Conference – February 2-3, 2016 in Washington, DC
  - 7.1. Panel: Ken Davidian, Jim Vanderploeg, Tarah Castleberry, Tristan Fielder
8. ATM6 – October 2016 in conjunction with ISPCS, Las Cruces, NM

## 2. EXTERNAL RELATIONS COMMITTEE

---

- Interactions with CSF (Tristan)
- Affiliate Update (Tristan)

## 3. PLANNING COMMITTEE

---

- Any Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

Jan 11

Feb 08

Mar 14

Apr 11

May 09

Jun 13

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #41 MONDAY, 8 FEBRUARY 2016**

**1:00 EST (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	○ Dr. David Klaus	○ Dr. Dan Scheeres	○ Mr. Brad Cheetham ○ Dr. Tim Fuller-Rowell ○ Dr. Penina Axelrad
FIT	○ Dr. Tristan Fiedler	○ Dr. Scott Benjamin	○ Dr. Dan Kirk ○ Dr. Sam Durrance ○ Dr. Nat Villaire
FSU	○ Dr. Farrukh Alvi	○ Dr. Emmanuel Collins	○ Dr. Billy Oates ○ Dr. Rajan Kumar
NMSU	○ Dr. Patricia Hynes	○ Ms. JoyLynn Watkins	○
NMT	○ Dr. Warren Ostergren	○ Dr. Andrei Zagrai	○ Dr. Dave Westpfahl ○ Dr. Keith Miller
SU	○ Dr. Juan Alonso	○ Dr. Mykel Kochenderfer	○ Dr. Sigrid Close ○ Dr. Steve Rock
UCF	○ Dr. Jay Kapat	○ Dr. Jan Gou ○ Dr. Subith Vasu	○ Dr. Ali Gordon ○ Dr. Lin An
UF	○ Dr. Norm Fitz-Coy	○ Dr. Mark Sheplak	○
UTMB	○ Dr. Jim Vanderploeg	○ Dr. Charles Mathers ○ Dr. Tarah Castleberry	○
OAT	○ Ms. Carol Gregorek	○ Mr. Fred Bowen	○
FAA AST	○ Mr. Ken Davidian	○ Ms. Evelina Bern	○ Dr. Paul Wilde ○ Mr. Nick Demidovich ○ Mr. Henry Lampazzi
FAA	○ Dr. Patricia Watts	○	○
CSF	○ Mr. Eric Stallmer	○ Mr. Tommy Sanford	○ Ms. Jane Kinney
NASA	○ Mr. Alex MacDonald	○ Dr. Dan Rasky	○ Mr. Mark Redlinger
McGill	○ Ms. Andrea Harrington	○	○
MITRE	○ Mr. Zheng Tao	○ Mr. Dean Fulmer	○
NASA-AMES	○ Mr. Michael Dudley	○	○
Lincoln Labs	○ Mr. Rod Cole	○	○
Solstar/ SatWest	○ Mr. Brian Barnett	○	○
Simpson	○ Dr. Chris Draper	○ Ms. Christina Smith	○

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # **both** to be used if accessing video.

Next telecom is scheduled for 14 March 2016

Orion America – teleconference recording and distribution



## 1. AGENDA ITEMS

---

1. AAM6 – March 29-30 in Galveston, TX at UTMB (Fred & Jim)
  - 1.1. Agenda items being gathered for draft agenda next week
2. Research proposal solicitation process update – schedule and changes (Ken)
3. Annual Report
  - 3.1. Executive Summary – distributed February 2-3 at AST CST Conference. On the website now.
  - 3.2. Volumes 1, 2, 3, and potentially 4-in preparation
4. Report from AST Conference – February 2-3, 2016 in Washington, DC (Jim, Ken, Tristan)
  - 4.1. Panel: Ken Davidian, Jim Vanderploeg, Tarah Castleberry, Tristan Fiedler, Brad Cheetham
5. Phase 1 close out audit (Fred)
6. Invitation to CSF reception and meeting – March 2-3, 2016
7. ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM

## 2. EXTERNAL RELATIONS COMMITTEE

---

- Interactions with CSF (Tristan)
- Affiliate Update (Tristan)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

Mar 14

Apr 11

May 09

Jun 13

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #42 MONDAY, 14 MARCH 2016**

**1:00 EST (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance <input type="radio"/> Dr. Nat Villaire
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Emmanuel Collins	<input type="radio"/> Dr. Billy Oates <input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	<input type="radio"/>
NMT	<input type="radio"/> Dr. Warren Ostergren	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> Dr. Dave Westpfahl <input type="radio"/> Dr. Keith Miller
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	<input type="radio"/>
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	<input type="radio"/>
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	<input type="radio"/>
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
FAA	<input type="radio"/> Dr. Patricia Watts	<input type="radio"/>	<input type="radio"/>
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
McGill	<input type="radio"/> Ms. Andrea Harrington	<input type="radio"/>	<input type="radio"/>
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	<input type="radio"/>
NASA-AMES	<input type="radio"/> Mr. Michael Dudley	<input type="radio"/>	<input type="radio"/>
Lincoln Labs	<input type="radio"/> Mr. Rod Cole	<input type="radio"/>	<input type="radio"/>
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett	<input type="radio"/>	<input type="radio"/>
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Christina Smith	<input type="radio"/>

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # **both** to be used if accessing video.

Next telecom is scheduled for 11 April 2016

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

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1. AAM6 – March 29-30 in Galveston, TX at UTMB (Fred & Jim)
  - 1.1. Draft Agenda distributed with this notice
2. Research proposals due April 1<sup>st</sup> (Ken)
3. Annual Report
  - 3.1. Executive Summary – distributed February 2-3 at AST CST Conference. On the website now.
  - 3.2. Volumes 2 and 3 are completed
  - 3.3. Volume 1 in preparation
4. Report from CSF Conference – March 2-3, 2016 in Washington, DC (Jim, Ken, Tristan)
5. Phase 1 close out audit (Fred)
6. ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews (Tristan)
- Affiliate Update (Tristan)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

Apr 11

May 09

Jun 13

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #43 MONDAY, 11 APRIL 2016**

**1:00 EST (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	○ Dr. David Klaus	○ Dr. Dan Scheeres	○ Mr. Brad Cheetham ○ Dr. Tim Fuller-Rowell ○ Dr. Penina Axelrad
FIT	○ Dr. Tristan Fiedler	○ Dr. Scott Benjamin	○ Dr. Dan Kirk ○ Dr. Sam Durrance ○ Dr. Nat Villaire
FSU	○ Dr. Farrukh Alvi	○ Dr. Emmanuel Collins	○ Dr. Billy Oates ○ Dr. Rajan Kumar
NMSU	○ Dr. Patricia Hynes	○ Ms. JoyLynn Watkins	○
NMT	○ Dr. Warren Ostergren	○ Dr. Andrei Zagrai	○ Dr. Ben Lim ○ Dr. Keith Miller
SU	○ Dr. Juan Alonso	○ Dr. Mykel Kochenderfer	○ Dr. Sigrid Close ○ Dr. Steve Rock ○ Tom Colvin
UCF	○ Dr. Jay Kapat	○ Dr. Jan Gou ○ Dr. Subith Vasu	○ Dr. Ali Gordon ○ Dr. Lin An
UF	○ Dr. Norm Fitz-Coy	○ Dr. Mark Sheplak	○
UTMB	○ Dr. Jim Vanderploeg	○ Dr. Charles Mathers ○ Dr. Tarah Castleberry	○
OAT	○ Ms. Carol Gregorek	○ Mr. Fred Bowen	○
FAA AST	○ Mr. Ken Davidian	○ Ms. Evelina Bern	○ Dr. Paul Wilde ○ Mr. Nick Demidovich ○ Mr. Henry Lampazzi
FAA	○ Dr. Patricia Watts	○	○
CSF	○ Mr. Eric Stallmer	○ Mr. Tommy Sanford	○ Ms. Jane Kinney
NASA	○ Mr. Alex MacDonald	○ Dr. Dan Rasky	○ Mr. Mark Redlinger
McGill	○ Ms. Andrea Harrington	○	○
MITRE	○ Mr. Zheng Tao	○ Mr. Dean Fulmer	○
NASA-AMES	○ Mr. Michael Dudley	○	○
Lincoln Labs	○ Mr. Rod Cole	○	○
Solstar/ SatWest	○ Mr. Brian Barnett	○	○
Simpson	○ Dr. Chris Draper	○ Ms. Christina Smith	○

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # **both** to be used if accessing video.

Next telecom is scheduled for 09 May 2016

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

---

1. AAM6 – March 29-30 in Galveston, TX at UTMB (Jim)
  - 1.1. Follow-up actions from meeting (draft Action Item list attached)
2. Letter of support for Astrodynamics Center of Excellence
3. Research proposals were due April 1<sup>st</sup> (Ken)
  - 3.1. ISR process review and (possibly) revision aimed at a closer alignment of the academic and COE CST funding calendars (Ken)
  - 3.2. ISR status of received proposals (Ken)
4. Phase 1 close out audit (Fred)
5. Potential for IDIQ contracts (Ken)
6. ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan)
- Affiliate Members Update (Tristan)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

May 09

Jun 13

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>
1	Letter of support for teams bidding on Astrodynamics Center of Excellence	Jim
2	Definition of students added to appropriate documentation	Ken, Carol
3	Estimate of total COE exposure to students	All
4	ATM Future	
4.a	ISPCS preparation	Pat Hynes, Jim, All Pls
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred
4.c	Theme-based ATM approach	Ken, Jim
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim,
6	Write articles for IAASS Space Safety magazine	All, Carol to coordinate
7	Establish draft criteria for adding and/or dropping a core member university	Tristan
8	Create annual dedicated issue of a journal (New Space)	Dave



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #44 MONDAY, 9 MAY 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	○ Dr. David Klaus	○ Dr. Dan Scheeres	○ Mr. Brad Cheetham ○ Dr. Tim Fuller-Rowell ○ Dr. Penina Axelrad
FIT	○ Dr. Tristan Fiedler	○ Dr. Scott Benjamin	○ Dr. Dan Kirk ○ Dr. Sam Durrance
FSU	○ Dr. Farrukh Alvi	○ Dr. Emmanuel Collins	○ Dr. Billy Oates ○ Dr. Rajan Kumar
NMSU	○ Dr. Patricia Hynes	○ Ms. JoyLynn Watkins	
NMT	○ Dr. Warren Ostergren	○ Dr. Andrei Zagrai	○ Dr. Ben Lim ○ Dr. Keith Miller ○ Donghyeon Ryu
SU	○ Dr. Juan Alonso	○ Dr. Mykel Kochenderfer	○ Dr. Sigrid Close ○ Dr. Steve Rock ○ Tom Colvin
UCF	○ Dr. Jay Kapat	○ Dr. Jan Gou ○ Dr. Subith Vasu	○ Dr. Ali Gordon ○ Dr. Lin An
UF	○ Dr. Norm Fitz-Coy	○ Dr. Mark Sheplak	
UTMB	○ Dr. Jim Vanderploeg	○ Dr. Charles Mathers ○ Dr. Tarah Castleberry	
OAT	○ Ms. Carol Gregorek	○ Mr. Fred Bowen	
CSF	○ Mr. Eric Stallmer	○ Mr. Tommy Sanford	○ Ms. Jane Kinney
DLR	○ Dr. Sven Kaltenhaeuser		
ETC/NASTAR	○ Mr. Dick Leland	○ Ms. Brie Henwood	
FAA	○ Dr. Patricia Watts		
FAA AST	○ Mr. Ken Davidian	○ Ms. Evelina Bern	○ Dr. Paul Wilde ○ Mr. Nick Demidovich ○ Mr. Henry Lampazzi
Lincoln Labs	○ Mr. Rod Cole		
McGill	○ Ms. Andrea Harrington		
MITRE	○ Mr. Zheng Tao	○ Mr. Dean Fulmer	
NASA	○ Mr. Alex MacDonald	○ Dr. Dan Rasky	○ Mr. Mark Redlinger
NASA-AMES	○ Mr. Michael Dudley		
Simpson	○ Dr. Chris Draper	○ Ms. Christina Smith	
Solstar/ SatWest	○ Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # **both** to be used if accessing video.

Next telecom is scheduled for 13 June 2016

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

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1. Research proposals in review (Ken)
  - 1.1. Anticipated decision date
  - 1.2. Anticipated funding date
2. Phase 1 close out audit (Fred)
3. Status of IDIQ contracts (Ken/Evelina)
4. ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM
5. Review of Action Items

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan)
- Affiliate Members Update (Tristan)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

~~May 09~~

Jun 13

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom



## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Letter of support for teams bidding on Astrodynamics Center of Excellence	Jim	Done
2	Definition of students added to appropriate documentation	Ken, Carol	
3	Estimate of total COE exposure to students	All	
4	ATM Future		
4.a	ISPCS preparation	Pat Hynes, Jim, All PIs	
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred	
4.c	Theme-based ATM approach	Ken, Jim	
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim	
6	Write articles for IAASS Space Safety magazine	All, Carol to coordinate	
7	Establish draft criteria for adding and/or dropping a core member university	Tristan	
8	Investigate an annual dedicated issue of a journal (eg. New Space)	Dave	



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #45 MONDAY, 13 June 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Billy Oates	<input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	
NMT	<input type="radio"/> Dr. Warren Ostergren	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> Dr. Seok Bin Lim <input type="radio"/> Dr. Keith Miller <input type="radio"/> Donghyeon Ryu
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
DLR	<input type="radio"/> Dr. Sven Kaltenhaeuser		
ETC/NASTAR	<input type="radio"/> Mr. Dick Leland	<input type="radio"/> Ms. Brie Henwood	
FAA	<input type="radio"/> Dr. Patricia Watts		
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
Lincoln Labs	<input type="radio"/> Mr. Rod Cole		
McGill	<input type="radio"/> Ms. Andrea Harrington		
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
NASA-AMES	<input type="radio"/> Mr. Michael Dudley		
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Kristina Smith	
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

NOTE: Video Link and Dial-in # **both** to be used if accessing video.

Next telecom is scheduled for 11 July 2016

Orion America – teleconference recording and distribution

1. AGENDA ITEMS – Meeting Coordinator for June – Ken Davidian

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1. Research proposals in review (Ken)
  - 1.1. Anticipated decision date
  - 1.2. Anticipated funding date
2. Phase 1 close out audit (Fred)
3. Status of IDIQ contracts (Ken/Evelina)
4. ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM
5. Review of Action Items

2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan)
- Affiliate Members Update (Tristan)

3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

~~May 09~~

~~Jun 13~~

Jul 11

Aug 08

Sep 12

Oct 10

Nov 14

Dec – no telecom

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Letter of support for teams bidding on Astrodynamics Center of Excellence	Jim	Done
2	Definition of students added to appropriate documentation	Ken, Carol	
3	Estimate of total COE exposure to students	All	
4	ATM Future		
4.a	ISPCS preparation	Pat Hynes, Jim, All PIs	
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred	
4.c	Theme-based ATM approach	Ken, Jim	
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim	In Draft
6	Write articles for IAASS Space Safety magazine	All, Carol to coordinate	
7	Establish draft criteria for adding and/or dropping a core member university	Tristan	In Draft
8	Investigate an annual dedicated issue of a journal (eg. New Space)	Dave	



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #46 MONDAY, 11 July 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Billy Oates	<input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	
NMT	<input type="radio"/> Dr. Warren Ostergren	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> Dr. Seok Bin Lim <input type="radio"/> Dr. Keith Miller <input type="radio"/> Donghyeon Ryu
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
DLR	<input type="radio"/> Mr. Sven Kaltenhaeuser		
ETC/NASTAR	<input type="radio"/> Mr. Dick Leland	<input type="radio"/> Ms. Brie Henwood	
FAA	<input type="radio"/> Dr. Patricia Watts		
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
Lincoln Labs	<input type="radio"/> Mr. Rod Cole		
McGill	<input type="radio"/> Ms. Andrea Harrington		
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
NASA-AMES	<input type="radio"/> Mr. Michael Dudley		
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Kristina Smith	
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

**NOTE: Video Link and Dial-in # both to be used if accessing video.**

Next telecom is scheduled for 08 August 2016 – **Date Changes for September and October**  
Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

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- 1.0 US Department of Commerce - Export Controlled Technology (Tristan Fiedler)
- 2.0 Uniform Guidance and Grant Matching Funds – CST Phase II – (Pat Watts)
- 3.0 Research proposals in review (Ken Davidian)
  - 3.1. Anticipated decision date
  - 3.2. Anticipated funding date
- 4.0 Phase 1 close out audit, Status – OMIS 2.0, Web page (Fred Bowen)
- 5.0 Status of IDIQ contracts (Ken Davidian/Evelina Bern)
- 6.0 ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM
  - 6.1. Banners – format, due date, conference logistics (Fred Bowen)
  - 6.2. Student registration, meals, social functions (Fred Bowen)
  - 6.3. Agenda, presentation selection process (Ken Davidian/Jim Vanderploeg)
- 7.0 Review of Action Items (Jim Vanderploeg)

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan Fiedler)
- Affiliate Members Update (Tristan Fiedler)
- International Participation (Ken Davidian/Tristan Fiedler)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

- Warren Ostergren – Retirement

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

~~May 09~~

~~Jun 13~~

~~Jul 11~~

Aug 08

**Sep 26 – Change due to ATM6/ISPCS meeting date**

~~Oct 10 – No Telecom~~

Nov 14

Dec – No Telecom

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Letter of support for teams bidding on Astrodynamics Center of Excellence	Jim	Done
2	Definition of students added to appropriate documentation	Ken, Carol	In discussion
3	Estimate of total COE exposure to students	All	Implement in OMIS 2.0
4	ATM Future		
4.a	ISPCS preparation	Pat Hynes, Jim, All PIs	Working
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred	
4.c	Theme-based ATM approach	Ken, Jim	Working
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim	In Draft
6	Write articles for IAASS Space Safety magazine	Dave, Carol to coordinate	
7	Establish draft criteria for adding and/or dropping a core member university	Tristan	In Draft
8	Investigate an dedicated issue of a journal (e.g. New Space)	Dave	Working
9	Draft Agenda Options	Weekly Telecom Group	Working
10	ATM6 Presentation Title for ATM6 agenda	Funded PI's - Carol	You know who you are: pls submit



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #47 MONDAY, 08 Aug 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Billy Oates	<input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	
NMT	<input type="radio"/> Dr. Warren Ostergren	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> Dr. Seok Bin Lim <input type="radio"/> Dr. Keith Miller <input type="radio"/> Donghyeon Ryu
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
DLR	<input type="radio"/> Mr. Sven Kaltenhaeuser		
ETC/NASTAR	<input type="radio"/> Mr. Dick Leland	<input type="radio"/> Ms. Brie Henwood	
FAA	<input type="radio"/> Dr. Patricia Watts		
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
Lincoln Labs	<input type="radio"/> Mr. Rod Cole		
McGill	<input type="radio"/> Ms. Andrea Harrington		
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
NASA-AMES	<input type="radio"/> Mr. Michael Dudley		
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Kristina Smith	
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

**NOTE: Video Link and Dial-in # both to be used if accessing video.**

Next telecom is scheduled for 26 Sept 2016 – **Date Changes for September and October**

Orion America – teleconference recording and distribution



## 1. AGENDA ITEMS

---

- 1.0 Research proposals in review (Evelina Born, Jim Vanderploeg)
  - 1.1. Anticipated decision date
  - 1.2. Anticipated funding date
  - 1.3. New proposal requirements – publications and data management plan (Jim, Fred)
- 2.0 OMIS 2.0, Web page (Fred Bowen)
- 3.0 Quarterly Reports (Carol Gregorek)
- 4.0 Status of IDIQ contracts (Ken Davidian/Evelina Bern)
- 5.0 ATM6 – October 11, 2016 in conjunction with ISPCS (October 12-13, 2016), Las Cruces, NM
  - 6.1. Banners – format, due date, conference logistics (Fred Bowen)
  - 6.2. Student registration, meals, social functions (Fred Bowen)
  - 6.3. Agenda, presentation selection process (Ken Davidian/Jim Vanderploeg)
- 6.0 Review of Action Items (Jim Vanderploeg)

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan Fiedler)
- Affiliate Members Update (Tristan Fiedler)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

~~May 09~~

~~Jun 13~~

~~Jul 11~~

~~Aug 08~~

**Sep 26 – Change due to ATM6/ISPCS meeting date**

~~Oct 10~~—No Telecom

Nov 14

Dec –No Telecom

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Letter of support for teams bidding on Astrodynamics Center of Excellence	Jim	Completed
2	Definition of students added to appropriate documentation	Ken, Carol	In discussion AAM7
3	Estimate of total COE exposure to students	All	Implement in OMIS 2.0
4	ATM Future Issues		
4.a	ISPCS preparation	Pat Hynes, Jim, All PIs	Working
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred	Working
4.c	Theme-based ATM approach	Ken, Jim	Working
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim, Pat H.	In Draft
6	Write articles for IAASS Space Safety magazine	Dave, Carol to coordinate	Effort declined
7	Establish draft criteria for adding and/or dropping a core member university	Tristan	In Draft – AAM7 deadline
8	Investigate an dedicated issue of a journal (e.g. New Space)	Dave	Working
9	Draft Agenda Options	Weekly Telecom Group	Working
10	ATM6 Presentation Title for ATM6 agenda	Funded PI's - Carol	You know who you are: pls submit



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #48 MONDAY, 26 Sept 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Billy Oates	<input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	
NMT	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> TBD	<input type="radio"/> Dr. Seok Bin Lim <input type="radio"/> Dr. Keith Miller <input type="radio"/> Donghyeon Ryu
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
DLR	<input type="radio"/> Mr. Sven Kaltenhaeuser		
ETC/NASTAR	<input type="radio"/> Mr. Dick Leland	<input type="radio"/> Ms. Brie Henwood	
FAA	<input type="radio"/> Dr. Patricia Watts		
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
Lincoln Labs	<input type="radio"/> Mr. Rod Cole		
McGill	<input type="radio"/> Ms. Andrea Harrington		
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
NASA-AMES	<input type="radio"/> Mr. Michael Dudley		
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Kristina Smith	
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

**NOTE: Video Link and Dial-in # both to be used if accessing video.**

Next telecom is scheduled for 14 Nov 2016

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

---

- 1.0 Research proposals in review (Ken Davidian/Evelina Bern)
  - 1.1. Anticipated decision date
  - 1.2. Anticipated funding date
- 2.0 OMIS 2.0, Web page (Fred Bowen)
- 3.0 Quarterly Reports (Carol Gregorek)
- 4.0 ATM6 – October 11, 2016 Update
  - 4.1. Banners – format, due date, conference logistics (Fred Bowen)
  - 4.2. Student registration, meals, social functions (Fred Bowen)
  - 4.3. Agenda, presentation selection process (Ken Davidian/Jim Vanderploeg)
  - 4.4. Presentation requirements: Quad charts, Executive overview (Jim Vanderploeg)
- 5.0 Review of Action Items (Jim Vanderploeg)

## 2. EXTERNAL RELATIONS COMMITTEE

---

- CSF Member Company Interviews update (Tristan Fiedler)
- Affiliate Members Update (Tristan Fiedler)

## 3. PLANNING COMMITTEE

---

- Updates (Pat Hynes)

## 4. OTHER BUSINESS

---

2016 COE CST Executive Committee Telecoms: second Monday of each month

~~Jan 11~~

~~Feb 08~~

~~Mar 14~~

~~Apr 11~~

~~May 09~~

~~Jun 13~~

~~Jul 11~~

~~Aug 08~~

~~Sep 26 – Change due to ATM6/ISPCS meeting date~~

~~Oct 10 – No Telecom~~

Nov 14

Dec –No Telecom

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Technical Presentations for Annual Report	All funded PIs	Open
2	Definition of students added to appropriate documentation	Ken, Carol	In discussion AAM7
3	Estimate of total COE exposure to students	All	Implement in OMIS 2.0
4	ATM Future Issues		
4.a	ISPCS preparation	Pat Hynes, Jim, All PIs	Working
4.b	Locations for future ATMs	Jim, Ken, Carol, Fred	
4.c	Theme-based ATM approach	Ken, Jim	Working
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim	In Draft
6	Establish draft criteria for adding and/or dropping a core member university	Tristan	AAM7 deadline
7	Investigate an dedicated issue of a journal (e.g. New Space)	Dave	Working



**FAA CENTER OF EXCELLENCE FOR COMMERCIAL SPACE TRANSPORTATION  
EXECUTIVE COMMITTEE TELECON**

**TELECOM #49 MONDAY, 21 Nov 2016**

**1:00 EDT (See information note below for video and audio access)**

SCHOOL/ORG	PRIMARY	SECONDARY	ADDITIONAL
CU	<input type="radio"/> Dr. David Klaus	<input type="radio"/> Dr. Dan Scheeres	<input type="radio"/> Mr. Brad Cheetham <input type="radio"/> Dr. Tim Fuller-Rowell <input type="radio"/> Dr. Penina Axelrad
FIT	<input type="radio"/> Dr. Tristan Fiedler <input type="radio"/> Dr. Guy Boy	<input type="radio"/> Dr. Scott Benjamin	<input type="radio"/> Dr. Dan Kirk <input type="radio"/> Dr. Sam Durrance <input type="radio"/> Dr. S. Ann Becker
FSU	<input type="radio"/> Dr. Farrukh Alvi	<input type="radio"/> Dr. Billy Oates	<input type="radio"/> Dr. Rajan Kumar
NMSU	<input type="radio"/> Dr. Patricia Hynes	<input type="radio"/> Ms. JoyLynn Watkins	
NMT	<input type="radio"/> Dr. Andrei Zagrai	<input type="radio"/> TBD	<input type="radio"/> Dr. Seok Bin Lim <input type="radio"/> Dr. Keith Miller <input type="radio"/> Donghyeon Ryu
SU	<input type="radio"/> Dr. Juan Alonso	<input type="radio"/> Dr. Mykel Kochenderfer	<input type="radio"/> Dr. Sigrid Close <input type="radio"/> Dr. Steve Rock <input type="radio"/> Tom Colvin
UCF	<input type="radio"/> Dr. Jay Kapat	<input type="radio"/> Dr. Jan Gou <input type="radio"/> Dr. Subith Vasu	<input type="radio"/> Dr. Ali Gordon <input type="radio"/> Dr. Lin An
UF	<input type="radio"/> Dr. Norm Fitz-Coy	<input type="radio"/> Dr. Mark Sheplak	
UTMB	<input type="radio"/> Dr. Jim Vanderploeg	<input type="radio"/> Dr. Charles Mathers <input type="radio"/> Dr. Tarah Castleberry	
OAT	<input type="radio"/> Ms. Carol Gregorek	<input type="radio"/> Mr. Fred Bowen	
CSF	<input type="radio"/> Mr. Eric Stallmer	<input type="radio"/> Mr. Tommy Sanford	<input type="radio"/> Ms. Jane Kinney
DLR	<input type="radio"/> Mr. Sven Kaltenhaeuser		
ETC/NASTAR	<input type="radio"/> Mr. Dick Leland	<input type="radio"/> Ms. Brie Henwood	
FAA	<input type="radio"/> Dr. Patricia Watts		
FAA AST	<input type="radio"/> Mr. Ken Davidian	<input type="radio"/> Ms. Evelina Bern	<input type="radio"/> Dr. Paul Wilde <input type="radio"/> Mr. Nick Demidovich <input type="radio"/> Mr. Henry Lampazzi
Lincoln Labs	<input type="radio"/> Mr. Rod Cole		
McGill	<input type="radio"/> Dr. Ram Jakhu		
MITRE	<input type="radio"/> Mr. Zheng Tao	<input type="radio"/> Mr. Dean Fulmer	
NASA	<input type="radio"/> Mr. Alex MacDonald	<input type="radio"/> Dr. Dan Rasky	<input type="radio"/> Mr. Mark Redlinger
NASA-AMES	<input type="radio"/> Mr. Michael Dudley		
Simpson	<input type="radio"/> Dr. Chris Draper	<input type="radio"/> Ms. Kristina Smith	
Solstar/ SatWest	<input type="radio"/> Mr. Brian Barnett		

**Executive Committee Meeting Access Information**

Video Link: <http://breeze.nmt.edu/webinar>

Dial-In #: 712-432-0075, Participant Access Code: 381319#

**NOTE: Video Link and Dial-in # both to be used if accessing video.**

Next telecom is scheduled for 09 Jan 2017

Orion America – teleconference recording and distribution

## 1. AGENDA ITEMS

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- 1.0 2017 Research Funding Status (Ken Davidian/Evelina Bern)
- 2.0 OMIS 2.0, Web page (Fred Bowen)
- 3.0 ATM6 Executive Summary Report Requirements (Carol Gregorek)
  - 3.1 Awards, Recognition, Promotions, Video productions
  - 3.2 Publications
  - 3.3 Students
  - 3.4 Associates/Affiliates
- 4.0 ATM6 – October 11, 2016 Review (Jim Vanderploeg)
- 5.0 American Society of Testing & Manufacturing - Commercial Spaceflight Standards held on 24 Oct 2016, Washington DC (Tristan Fiedler)  
  
FAA - AST Industry Day - Civil & Commercial Orbital Safety & Space Traffic Management held on 25 Oct 2016, Washington DC (Tristan Fiedler)  
  
Agenda: [https://www.faa.gov/about/office\\_org/headquarters\\_offices/ast/media/Industry\\_Day\\_Agenda.pdf](https://www.faa.gov/about/office_org/headquarters_offices/ast/media/Industry_Day_Agenda.pdf)  
  
Presentations: [https://www.faa.gov/about/office\\_org/headquarters\\_offices/ast/meetings\\_events/](https://www.faa.gov/about/office_org/headquarters_offices/ast/meetings_events/)
- 6.0 Review of Action Items (Jim Vanderploeg)

## 2. EXTERNAL RELATIONS COMMITTEE

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- CSF Member Company Interviews update (Tristan Fiedler)
- Affiliate Members Update (Tristan Fiedler)

## 3. PLANNING COMMITTEE

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- Updates (Pat Hynes)

## 4. OTHER BUSINESS

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2017 COE CST Executive Committee Telecoms: second Monday of each month

Jan 9  
Feb 13  
Mar 13  
Apr 10  
Ma 8  
Jun 12  
Jul 10  
Aug 14  
Sep 11  
Oct 9  
Nov 13

## ACTION ITEMS / NEXT STEPS

	<b>ACTION ITEM</b>	<b>ASSIGNEE</b>	<b>Status</b>
1	Technical Presentations for Annual Report	All funded PIs	Open
2	Definition of students added to appropriate documentation	Ken, Carol	In discussion AAM7
3	Estimate of total COE exposure to students	All	Implement in OMIS 2.0
4	AAM7 Preparation	Committee	In Work
4.a	Location for future ATMs	Jim, Ken, Carol, Fred	
4.b	Theme-based ATM approach	Ken, Jim	Working
5	Investigate forming an organizational structure for the COE of the self-sufficient future	Jim	In Draft
6	Establish draft criteria for adding and/or dropping a core member university	Tristan	AAM7 deadline
7	Investigate an dedicated issue of a journal (e.g. New Space)	Dave	Working



