

# CENTER OF EXCELLENCE FOR TECHNICAL TRAINING & HUMAN PERFORMANCE

## 2ND ANNUAL TECHNICAL MEETING (COE TTHP Y2M2)

APRIL 4-5, 2018

DREXEL UNIVERSITY, PHILADELPHIA, PA

**FINAL AGENDA & Conference Details Web Site: [www.coetthp.com](http://www.coetthp.com)**

### Pre-Meetings — Tuesday, April 3, 2018

<i>Time</i>	<i>Agenda Item</i>
11:00 am – 12:30 pm	<b>Leadership Meeting</b> FAA, ERAU, OU, and WSU Location: Sheraton University City Hotel, Club Level Floor Contact Fred Bowen at 614-499-2002 for access.
12:30 – 1:30 pm	<b>Lunch on your own</b>
1:30 – 4:00 pm	<b>Executive Committee Meeting</b> <i>Location: The Skyview Room, MacAlister, 6<sup>th</sup> Floor, 3250 Chestnut Street</i> <i>Phone Telecon Conference</i> <ul style="list-style-type: none"> <li>• <b>Compliance with COE Administrative and Technical Requirements</b> <ul style="list-style-type: none"> <li>○ Updates for Leads Management Plan (OU, ERAU, WSU)               <ul style="list-style-type: none"> <li>▪ Administrative Requirements</li> <li>▪ Technical Requirements</li> <li>▪ Task Force Assignments</li> <li>▪ Communication Plan</li> </ul> </li> <li>○ Updates for COE Policies and Procedures</li> </ul> </li> <li>• <b>Finalize Task Forces and Launch Plan</b> <ul style="list-style-type: none"> <li>○ TF Research Strategy</li> <li>○ TF Fund Development and Partnerships</li> <li>○ TF Outreach and Communications</li> </ul> </li> <li>• <b>Status of Future Funding/New Funding Goals</b> <ul style="list-style-type: none"> <li>○ COE TTHP Funding Goals 2019, 2020, 2021</li> <li>○ IDIQ Process and Next Steps</li> </ul> </li> <li>• <b>Future Meetings 2019, 2020, 2021</b></li> <li>• <b>Student Engagement</b></li> </ul>
6:00 – 7:30 pm	<b>Networking Dinner</b> Location: White Dog Café, 3420 Sansom Street

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## Day 1, General Session — Wednesday, April 4, 2018

*All General Sessions will be held at the Creese Student Center, Behrakis Grand Hall, 1<sup>st</sup> Floor,  
3210 Chestnut Street, Philadelphia, PA 19104*

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Time	Agenda Item
8:00 – 8:30 am	<b>Networking Coffee, Welcome, and Introduction</b>
8:30 – 8:45 am	FAA Goals and Strategy for Technical Agenda, <i>Abigail Smith (FAA)</i>
8:45 – 9:15 am	Year 2 Overview and EC/IAB Report, <i>Dr. Mark Friend (ERAU)</i>
9:15 – 9:45 am	<b>Networking/Coffee Break</b> <i>Research Poster Reviews</i> <b>** PI/Research Team Video Recordings – In LeBow Studio – Lisa will escort</b>
9:45 – 11:00 am	<b>Technical Panel A: Improving the Mission Readiness of Employees and the Safety of the NAS</b> (e.g., AJI-2 HF, SPTT, SA and AJW-3 projects) <i>Video Recording</i> <b>Moderator: Jeff Tyrcha, COE Industry Advisory Board Co-Chair</b>
11:00 – 12:00 pm	<b>Networking Lunch</b> <i>Research Area &amp; Project Discussions</i> <b>** PI/Research Team Video Recordings – In LeBow Studio – Lisa will escort</b>
12:00 – 1:15 pm	<b>Technical Panel B: Improving Training Management and Delivery</b> (e.g., AJI-2 CA, CMD, AN and AFB-500 projects) <i>Video Recording</i> <b>Moderator: Dr. Mark Friend (ERAU) and Lindy Ritz (EC)</b>
1:15 – 1:45 pm	<b>Networking/Coffee Break</b> <i>Research Poster Reviews</i> <b>** PI/Research Team Video Recordings – In LeBow Studio – Lisa will escort</b>
1:45 – 3:30 pm	<b>Ideas for Expanding Future Research</b> <ul style="list-style-type: none"> <li>➤ <b>Group A — Addressing the Pilot and Mechanic Shortage: Research to Ensure Aviation Professionals for the Future</b> <b>Facilitators:</b> Dr. Beth Bjerke (UND) and Dr. James Birdsong (Auburn) <b>Location:</b> Bossone 709, with Teleconference Capability, Lisa will provide escort</li> <li>➤ <b>Group B — Anticipated Changes in Training Technology</b> <b>Facilitators:</b> Vicki Cox (EC) and Dr. Scott Tarry (UNO) <b>Location:</b> Behrakis Grand Hall Front Side</li> <li>➤ <b>Group C — Training Needs in other FAA Areas</b> <b>Facilitators:</b> Lindy Ritz (EC) and Walt Cochran (EC/IAB) <b>Location:</b> Behrakis Grand Hall Back Side</li> <li>➤ <b>Group D — USAF ATC Operations, Procedures, &amp; Training Research Needs</b> <b>Facilitators:</b> Jeff Tyrcha (EC/IAB) and Dr. Robert Wood (OU) <b>Location:</b> MacAlister Hall, Room 4011</li> </ul>
3:30 – 4:30 pm	<ul style="list-style-type: none"> <li>• <b>Session Option A: Student Research Poster/Project Involvement Presentations</b></li> <li>• <b>Session Option B: Research Area/Project Discussion Time</b></li> </ul>
4:30 – 5:30 pm	<b>Drexel Laboratory Tours – See Drexel Laboratory Tours for details</b>
6:00 – 8:00 pm	<b>Networking Reception &amp; Group Photo – Location: Skyview – 6<sup>th</sup> Floor, MacAlister</b>

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## Day 2, General Session – Thursday, April 5, 2018

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<i>Time</i>	<i>Agenda Item</i>
8:30 – 9:00 am	<b>Networking Coffee and Welcome</b>
9:00 am	<b>FAA Only – Gamification Demo – JoEllen Sefton – Bossone 709</b>
9:00 – 11:45 am	<p><b>Research Area Discussions (PIs, Industry, FAA)</b></p> <ul style="list-style-type: none"> <li>➤ <b>Group 1 — Curriculum Architecture, Content Management, and Delivery and Analytics</b>  <b>Facilitators:</b> Ben Bell (IAB) and Ned Reese (EC/IAB)  <b>Location:</b> Behrakis Grand Hall Front Section</li> <li>➤ <b>Group 2 — Simulation and Part-Task Training, Human Factors, and Safety</b>  <b>Facilitators:</b> Dr. Scott Tarry (UNO) and Captain Scott Shankland (IAB)  <b>Location:</b> Behrakis Grand Hall Middle Section</li> <li>➤ <b>Group 3 — Flight Standards</b>  <b>Facilitator:</b> Caroline Ocasio (IAU)  <b>Location:</b> MacAlister Hall 4014</li> <li>➤ <b>Group 4 — Flight Program Operations</b>  <b>Facilitator:</b> Dr. Robert Wood (OU)  <b>Location:</b> MacAlister Hall, Room 4016</li> <li>➤ <b>Group 5 — Similar Research Mind-Mapping</b>  <b>Facilitators:</b> Jeff Tyrcha (EC/IAB) and Lindy Ritz (EC)  <b>Location:</b> Behrakis Grand Hall Back Section <ul style="list-style-type: none"> <li>○ <i>OU: Phase II Course Development – Dr. Hubbard</i></li> <li>○ <i>Auburn: Explore Use of Gamification – Dr. Sefton</i></li> <li>○ <i>OU: Part Task Training – Dr. Hubbard</i></li> <li>○ <i>OU, WSU, UNO: Applied Game Theory – Dr. Barker, Dr. He, Dr. Taylor</i></li> <li>○ <i>ERAU: ATC Scenario Training - Dr. Jafer</i></li> <li>○ <i>ERAU: Optimize Simulation – Dr. Jafer</i></li> </ul> </li> </ul>
11:00 am – 12:00 pm	<p><b>Student Mentoring and Leadership (Student Attendees)</b>  <b>Location: MacAlister Room 4011</b></p>
12:00 pm – 1:00 pm	<b>Lunch</b>
1:00 pm – 2:00 pm	<p><b>Training Session, Caleb Loss (WSU) and Fred Bowen (Orion)</b></p> <ul style="list-style-type: none"> <li>• TM Quarterly Briefings, PI Support</li> <li>• Project Closeout</li> <li>• OMIS</li> <li>• Reporting</li> </ul>
2:00 pm	<b>Adjourn</b>

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## Drexel Laboratory Tours

- *The Human-System Evaluation and Analysis Laboratory (H-SEAL)* addresses human performance by developing quantitative modeling methodologies and associated experimental designs that can be used to evaluate human-automation interaction and human-human collaboration in the context of total system performance. The research outcomes can be used in the systems engineering process: to inform system requirements, procedures, display designs and training interventions and to support system evaluation.
- *Drexel University's Animation, Capture and Effects Lab (ACE-Lab)* is home to the Westphal College of Media Arts & Design's programs focusing on the development and application of production pipelines for VR/AR and other immersive media formats, along with digital Animation and Visual Effects, in areas including education, cultural heritage, medicine and narrative experiences.
- *Cognitive Neuroengineering and Quantitative Experimental Research (CONQUER) Collaborative* is part of School of Biomedical Engineering, and is equipped with a comprehensive suite of monitoring, processing, analysis and visualization technologies, such as flight simulators to conduct human-in-the-loop studies. Current projects related to the field of cognitive workload assessment include cognitive workload and level of expertise monitoring for manned and unmanned aerial vehicle pilots and air traffic controllers.

## Map and Locations

Walking distance from the Sheraton to the Creese Student Center, Behrakis Grand Hall, is about a 5-minute walk from the Sheraton. Behrakis Grand Hall, 1<sup>st</sup> Floor, 3210 Chestnut Street, Creese Student Center is the main meeting location for Day 1 and 2.

