SUMMIT ON
TRUSTED
AUTONOMY
RESEARCH & TECHNOLOGY

AGENDA

DAY 1: HUMAN AND MACHINE CENTRIC PERSPECTIVES

8:30 AM	**Arrival/Breakfast**
9:00 AM	**Welcome/Introductory Remarks** **Prof. Shreyas Sundaram** and **Prof. Shaoshuai Mou**, Co-Directors of ICON, Purdue **Dr. Theresa Mayer**, Executive Vice President for Research and Partnerships, Purdue **Dr. Jaret Riddick**, Principal Director for Autonomy, Office of the Undersecretary of Defense for Research and Engineering - Video from **Dr. David Honey**, Deputy Under Secretary of Defense for Research and Engineering
9:30 AM	**Theme 1 - Human Centric: Introduction - Mr. Robert Walker, NSWC Crane** **Problem Statement:** Formulate criteria and metrics to capture how humans perceive and trust autonomous systems, characterize methods to measure and modify human trust, and identify salient features of human decision making that will be relevant to design and operation of trusted autonomous systems.
9:40 AM	**Theme 1: Panel** Moderator: **Prof. Brandon Pitts**, Purdue - DoD Panelist: **Dr. Joe Lyons**, AFRL - Academic Panelist: **Prof. Robert Proctor**, Purdue - VC Panelist: **Mr. Tommy Hendrix**, Decisive Point
10:25 AM	**Break**
10:35 AM	**Theme 1: Breakout**
11:35 AM	**Theme 1: Report Out**
12:05 — 1:15 PM	**Lunch**
1:15 PM	**Theme 2 - Machine Centric: Introduction - Dr. Robert Sadowski, Ground Vehicle Systems Center** **Problem Statement:** Formulate criteria and metrics that capture trustworthiness of autonomous systems, characterize methods to measure trustworthiness of autonomous systems, and identify techniques for autonomous systems to dynamically improve trustworthiness.
1:25 PM	**Theme 2: Panel** Moderator: **Prof. Shaoshuai Mou**, Purdue - DoD Panelist: **Dr. Kristin Schaefer-Lay**, ARL - Academic Panelist: **Prof. Shreyas Sundaram**, Purdue - VC Panelist: **Mr. Dan Madden**, Squadra Ventures

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DAY 1: HUMAN AND MACHINE CENTRIC PERSPECTIVES

2:10 PM	**Break**
2:20 PM	**Theme 2: Breakout**
3:20 PM	**Theme 2: Report Out**
3:50 –4:05 PM	**Coffee Break**
4:05 PM	**Close Out - Review - Feedback**
4:30 PM	**Summary and Preview of Day 2**
5:15 PM	**Reception and Networking**
6:30 PM	**Banquet** MCs: • **Prof. Mahsa Ghasemi**, Assistant Professor, Purdue • **Prof. Hubo Cai**, Professor, Purdue Speakers: • **Prof. Wayne Chen**, Associate Dean for Research and Innovation, Purdue • **Dr. Jaret Riddick**, Principal Director for Autonomy, OUSD(RE) • **Prof. Darcy Bullock**, Professor, Purdue • **Dr. Cara LaPointe**, Co-Director, JHU IAA • **Prof. Richard Voyles**, Professor, Purdue

DAY 2: INTEGRATION AND TRANSLATION FROM LAB TO PRODUCT

8:30 AM	**Arrival/Breakfast**
9:00 AM	**Welcome**
9:05 AM	**Theme 3 - Integration Centric: Introduction - Dr. Laura Steckman, AFRL** **Problem Statement:** Formulate criteria and metrics to evaluate the effectiveness of human-machine teams, characterize methods to measure bidirectional trust, and identify closed-loop techniques to dynamically adapt bidirectional trust for improving mission effectiveness.
9:15 AM	**Theme 3: Panel** Moderator: **Dr. Neera Jain**, Purdue • DoD Speaker: **Dr. Sandeep Neema**, DARPA • Academic Speaker: **Dr. Phil Smith**, OSU • VC Speaker: **Ms. Lauren Bedula**, Beacon Global Strategies
10:00 AM	**Break**
10:10 AM	**Theme 3: Breakout**
11:10 AM	**Theme 3: Report Out**

DAY 2: INTEGRATION AND TRANSLATION FROM LAB TO PRODUCT

11:40-12:40 PM	**Lunch**
12:40 PM	**Overview of Commercialization Logistics for Academic Research** ● **Mr. Matthew Halladay**, Business Development Manager, Office of Technology Commercialization ● **Ms. Angela Goldenstein**, Director of Growth, Purdue Foundry
1:10 PM	**Showcase of Early-stage Trusted Autonomy for Venture** Moderator: **Mr. Mike Dodd**, NSTXL ● **Ubicept** ● **MVision** ● **Pierce Aerospace**
2:40 PM	**Break**
2:50 PM	**Post-showcase Open Discussion about the Summit**
3:30 PM	**Concluding Remarks and Forward Looking Action Items** ● **Dr. Jaret Riddick**, Principal Director for Autonomy, OUSD(RE) ● **Dr. Mung Chiang**, Executive Vice President for Strategic Initiatives, Dean of Engineering, and incoming President of Purdue
4:00 PM	**End of Summit**

THIS EVENT IS PRESENTED IN PARTNERSHIP WITH:

USD R&E   NATIONAL SECURITY INNOVATION NETWORK   PURDUE UNIVERSITY   JOHNS HOPKINS INSTITUTE for ASSURED AUTONOMY   ICON Center for Innovation in Control, Optimization, and Networks