

UPDATED 5.20.22

**NDIA**

AT THE HEART  
OF THE MISSION

# 2022 HUMAN SYSTEMS CONFERENCE

**Teaming at the Edge – Joint Cognitive Systems**

June 15 – 16 | [NDIA.org/HumanSystems22](https://www.ndia.org/HumanSystems22)

# AGENDA

WEDNESDAY, JUNE 15

7:00 am – 6:00 pm

## REGISTRATION

7:00 – 8:00 am

## NETWORKING BREAKFAST

8:00 – 8:15 am

## WELCOME AND INTRODUCTORY REMARKS

**Kara Orvis, Ph.D.**

Chair, Human Systems Division, NDIA

Senior Vice President, Research and Engineering Group, APTIMA, Inc.

8:15 – 9:00 am

## KEYNOTE ADDRESS

**Matthew Johnson**

Research Scientist, IHMC

9:00 – 9:30 am

## COI OVERVIEW

**Patrick Mason, Ph.D., SES**

Department Head, Warfighter Performance, Code 34, Office of Naval Research

9:30 – 10:00 am

## NETWORKING BREAK

10:00 – 10:30 am

## INTRO TO TECHNICAL SESSION & COI TRACK BRIEF

**Kendy Vierling, Ph.D.**

Director, Naval Education Division, Office of the Assistant Secretary of the Navy (Manpower & Reserve Affairs)

PAE&T Government Co-Chair, Human Systems Division, NDIA

10:30 – 11:50 am

## SESSION 1 ABSTRACTS (PAE&T)

**24440 – A Selective Model for Accelerated Realtime Training**

Amanda Bond, Lead Scientist, Soar Technology, Inc.

**24446 – What is Known and What is Hype? Understanding the State of AR/VR Training Effectiveness**

Dr. James Belanich, Assistant Director – Research Staff Member, Institute for Defense Analysis

**24453 – Reduce Subjectivity: Automated Performance Evaluation**

Dr. Gwendolyn Campbell, Portfolio Manager, Automated Assessment, Design Interactive

**24451 – First Steps in Validating Explicit and Implicit On-the-Job Performance Assessment**

Dr. Lillian Asiala, Cognitive Scientist, Sonalysts, Inc.

11:50 am – 1:00 pm

## NETWORKING LUNCH

1:00 – 2:00 pm

## POSTERS & REFRESHMENT BREAK

2:00 – 2:30pm

**COI BRIEF FOR SESSION 2****Logan Williams, Ph.D.**Lead, Human Performance Medical Product Area, Air Force Research Laboratory  
PSWP Government Co-Chair, Human Systems Division, NDIA

2:30 – 3:50 pm

**SESSION 2 ABSTRACTS (PS&WP)****24464 – Modeling Paired-Choice Data to Effectively Predict Human Evaluations of Individual Performance**

Dr. Joshua Fiechter, Research Scientist, Kairos Research

**24465 – Skydrate: Maintaining Hydration for Peak Cognitive Performance**

Dr. Kelly VandenBossche, Ph.D., Omni Defense Technologies

**24466 – Integrating Humans and Technology for Resilient, Cognitive Preparedness and Assessment for Warfighting Systems Through the Human Engineered Resilience Optimization (HERO) Methodology**

Angie Sandritter, CEO &amp; Founder, RippleWorx, Inc.

**24461 – Multi-Modal Data Collection System for Team Research: A Comprehensive Approach to Capture and Measure Team Processes**

Alexa Bessey, Scientist, Aptima, Inc.

3:50 – 4:00pm

**DAY 1 CLOSING REMARKS****Kara Orvis, Ph.D.**Chair, Human Systems Division, NDIA  
Senior Vice President, Research and Engineering Group, APTIMA, Inc.

5:00 – 7:00 pm

**NETWORKING RECEPTION**

WATERFORD FOYER

**THURSDAY, JUNE 16**

7:00 am – 3:00 pm

**REGISTRATION**

7:00 – 8:00 am

**NETWORKING BREAKFAST**

8:00 – 8:05 am

**WELCOME AND INTRODUCTORY REMARKS**

Kara Orvis, Ph.D.

8:05 – 9:00 am

**KEYNOTE ADDRESS**Time subject  
to change**Dr. David Honey**

Deputy Under Secretary of Defense for Research and Engineering, (DUSD(R&amp;E))

9:00 – 10:10 am

**OPEN SESSION**

10:10 – 10:40 am

**NETWORKING BREAK**

10:40 – 11:10 am

### **COI BRIEF FOR SESSION 3**

**Mark Draper, Ph.D.**

Lead, Adaptive Warfighter Interfaces Core Technical Competency, Air Force Research Laboratory  
SI&CP Government Co-Chair, Human Systems Division, NDIA

11:10 am – 12:30 pm

### **SESSION ABSTRACTS 3 (SI&CP)**

**24436 – Toward Calibrating Trust in Autonomy**

Glenn Taylor, Senior Scientist, Soar Technology, Inc.

**24441 – Anatomy of an Autonomous Virtual Agent**

Glenn Taylor, Senior Scientist, Soar Technology, Inc.

**24443 – The Impact of Communication Mode on Human-Agent Teaming**

Rachel Champoux, Research Engineer, Aptima

**24468 – Evaluation of Human-Machine Teaming Approach for Probabilistic Maritime Mission Planning**

Dr. Adam Fouse, Division Director, Aptima

12:30 – 1:30 pm

### **NETWORKING LUNCH**

1:30 – 2:50 pm

### **SESSION ABSTRACTS 4 (A&M)**

**24433 – Human Representation Taxonomy for Model-Based Systems Engineering**

Dr. Michael Miller, Professor, Air Force Institute of Technology

**24449 – Lessons Learned: Improving Interview and Focus-Group Protocol for the Collection of Systems Data from Military Personnel**

Eugenia O'Kelly, Ph.D. Candidate, Cambridge University

**24456 – Characterizing and Quantifying Bi-directional Mission-System Influence**

Dr. C.J. Hutto, Senior Research Scientist, Georgia Tech Research Institute

**24460 – The Generalized, Adaptive Cooper-Harper System Design Appraisal**

Dr. C.J. Hutto, Senior Research Scientist, Georgia Tech Research Institute

2:50 – 3:20 pm

### **NETWORKING BREAK**

3:20 – 4:50 pm

### **Q & A SESSION**

4:50 – 5:00 pm

### **CLOSING REMARKS**

AUDITORIUM

**Kara Orvis, Ph.D.**

Chair, Human Systems Division, NDIA  
Senior Vice President, Research and Engineering Group, APTIMA, Inc.

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