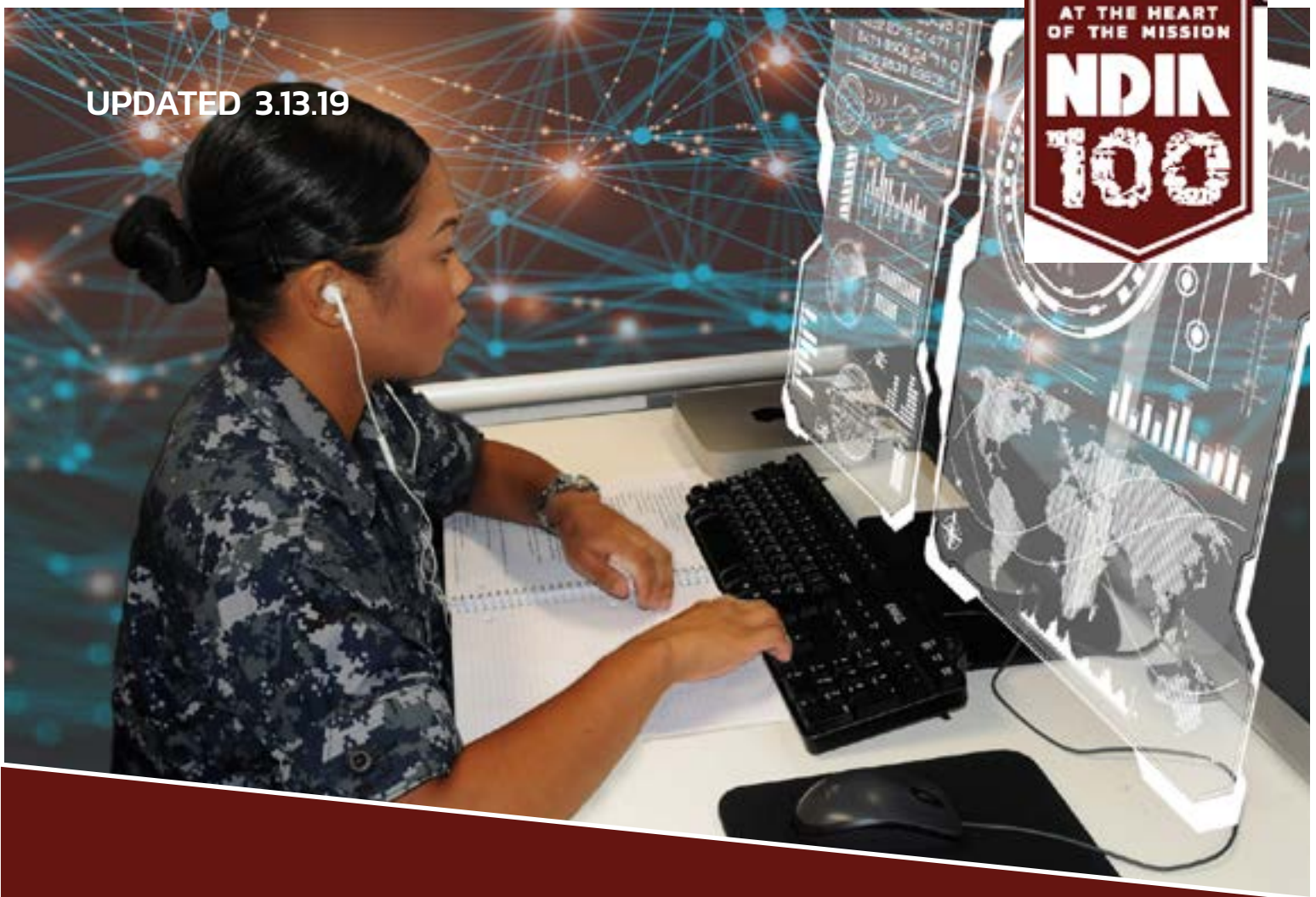


UPDATED 3.13.19



# 2019 HUMAN SYSTEMS CONFERENCE

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Leading Human Systems Innovation: Partnering  
to maximize warfighter effectiveness

April 16 – 17 | Aberdeen Proving Ground, MD | [NDIA.org/HumanSystems19](http://NDIA.org/HumanSystems19)

# AGENDA

**TUESDAY, APRIL 16**

7:00 am – 5:00 pm **REGISTRATION**  
MTF FOYER

7:00 – 8:00 am **NETWORKING BREAKFAST**  
MTF FOYER

8:00 – 8:15 am **WELCOME AND INTRODUCTORY REMARKS**  
AUDITORIUM

8:15 – 9:00 am **SPEAKER 1**  
AUDITORIUM  
Army Futures Command Representative

9:00 – 9:30 am **SPEAKER 2**  
AUDITORIUM

9:30 am – 10:00 am **SPEAKER 3**  
AUDITORIUM

10:00 – 10:30 am **NETWORKING BREAK**  
MTF FOYER

10:30 – 11:30 am **PANEL: COI BRIEF**  
AUDITORIUM  
**Dr. Kevin Geiss**  
Moderator  
Panelists to be announced soon.

11:30 – 11:40 am **COMMUNITY BRIEF: NDIA HUMAN SYSTEMS DIVISION**  
AUDITORIUM  
**Jared Freeman**  
Chief Scientist, Aptima, NDIA Human Systems Division Chair

11:40 – 11:50 am **COMMUNITY BRIEF: HFE TAG**  
AUDITORIUM

- 11:50 – 12:00 pm **COMMUNITY BRIEF: ARI / ARL**  
AUDITORIUM
- 12:00 – 1:00 pm **NETWORKING LUNCH**  
10 A & B
- 12:15 – 2:15 pm **NETWORKING POSTER AND DEMONSTRATION SESSION**  
MTF FOYER
- 2:15 – 4:00 pm **CONCURRENT ROUNDTABLE DISCUSSIONS**
- PAET Thrust 1: Training, Education, and Personnel Development  
10A
- PAET Thrust 2: Personnel Selection and Assignment  
10A
- SICP Thrust 1: Human-Machine Teaming Human Factors Engineer  
Naval Surface Warfare Center Panama City Division  
Classroom 3
- SICP Thrust 2: Intelligent, Adaptive Aiding  
Classroom 4
- SICP Thrust 3: Human Information, Interpretation and Influence  
Classroom 5
- PSWP Thrust 1: Understanding and Quantifying Warfighter Variability  
10B
- PSWP Thrust 2: Enhancement and Mitigation Strategies  
10B
- Human Systems Metrics  
Classroom 15
- 2:15 – 4:00 pm **PANEL: JOINT HSI STEERING COMMITTEE AND WORKING GROUP ACTIVITY**  
AUDITORIUM
- Panelists to be announced soon.
- 4:00 - 4:15 pm **BREAK [FACILITATORS ASSEMBLE BRIEFS, PARTICIPANTS  
RETURN TO AUDITORIUM]**  
MTF FOYER
- 4:15– 4:45 pm **ROUNDTABLE AND PANEL OUTBRIEF**  
AUDITORIUM

4:45 – 5:00 pm **CLOSING REMARKS**  
AUDITORIUM

5:30 – 7:00 pm **RECEPTION AT TOP OF THE BAY**  
TRANSPORTATION ON OWN

## WEDNESDAY, APRIL 17

7:00 am – 4:30 pm **REGISTRATION**  
MTF FOYER

7:00 – 8:00 am **NETWORKING BREAKFAST**  
MTF FOYER

8:00 – 8:15 am **WELCOME AND INTRODUCTORY REMARKS**  
AUDITORIUM

8:15 – 9:00 am **KEYNOTE ADDRESS**  
AUDITORIUM  
**Dr. Nancy Cooke**  
Professor, Human Systems Engineering, Arizona State University

9:00 – 9:05 am **INTRODUCTION TO TECHNICAL SESSIONS**

9:05 – 10:20 am **SESSION 1: PERSONALIZED ASSESSMENT, EDUCATION & TRAINING**  
AUDITORIUM

**COACH-ABT: Conduits for Optimizing and Accelerating Comprehensive [Unit] Health during Army Basic Training**

**Tim Clark**  
Senior Research Engineer, Aptima

**Measuring Performance and Cognitive Workload Across Proficiency Levels**

**Amy Dideriksen**  
Senior Training Research Manager, Rockwell Collins

**Modeling performance for marksmanship training tools**

**Dr. Jennifer Murphy**  
Founder and CEO, Quantum Improvements Consulting

**Characteristics of Engagement in Short Form Video Tutorials**

**Lauren Ogren**  
Human Systems Engineer, Naval Undersea Warfare

10:20 – 10:50am **NETWORKING BREAK**  
MTF FOYER

10:50 – 12:05 pm **SESSION 2: PROTECTION, SUSTAINMENT, AND WARFIGHTER PERFORMANCE**  
AUDITORIUM

**STANCE: Sensor Technologies for Augmenting the Naturalistic Control of Exoskeletons**

**Zachary Kiehl**

Capability & Research Engineer, Aptima

**The Effect of High Deck Accelerations on Surgical Tasks**

**Steen Jensen**

Engineering Psychologist, Naval Surface Warfare Center Panama City Division

**Warrior Performance Platform (WP2™) for U.S. Navy: Leveraging Human Performance Technology to Enhance Navy's Physical Fitness, Wellness, and Nutrition Capabilities**

**Jake Repanshek**

Director of Solutions & Technology, The Informatics Application Group

**Kevin Dawidowicz**

President & Co-Founder, CoachMePlus

**Integrating Physical and Cognitive Performance Data through SPEAR: A DoD Initiative**

**Dr. Eric Sikorski**

Program Manager, Combatting Terrorism Technical Support Office

12:05 pm – 1:00 pm **NETWORKING LUNCH**  
10 A & B

12:30 – 2:00 pm **NETWORKING POSTER AND DEMONSTRATION SESSION**  
MTF FOYER

2:00 – 3:15 pm **SESSION 3: SYSTEMS INTERFACE AND COGNITIVE PROCESSING**  
AUDITORIUM

**Reconnaissance Chess**

**William Li**

Researcher, Johns Hopkins Applied Physics Lab

**CEDARS: Combined Exploratory Data Analysis Recommender System**

**Dr. Mark Livingston**

Computer Scientist, Naval Research Laboratory

**Human-in-the-loop Experimentation for the Test, Evaluation, Verification and Validation of Autonomous Systems**

**Dr. Poornima Madhavan**

Research Psychologist, Institute for Defense Analyses

**Speech Recognition and Conversational Artificial Intelligent Solutions for Maximizing Warfighter Effectiveness**

**Cynthia Hoyt**

Director of Business Development, Think-A-Move

3:15 – 3:30 pm	<b>REFRESHMENT BREAK</b> MTF FOYER
3:30 – 4:45 pm	<b>SESSION 4: HUMAN SYSTEMS METRICS</b> AUDITORIUM  <b>When Acceptance Isn't Enough; Improving Evaluations of Novel Decision Support Tools</b> <b>Jesslyn Alekseyev</b> Human Systems Analysis, MIT Lincoln Laboratory  <b>Measuring Post Transition Performance Impacts</b> <b>Darren Willison, CHFEP</b> Senior Scientific and Technical Advisor, Science & Technology Directorate, Department of Homeland Security  <b>Measurement Models, Metrics, and Decision Support for the HSI Personnel Domain</b> <b>Dr. C.J. Hutto</b> Research Scientist, Georgia Tech Research Institute  <b>Identifying Design Issues “Beyond the Checklist”</b> <b>Kenneth Light</b> HSI Engineer, Army Research Laboratory
4:45 – 5:00 pm	<b>CLOSING REMARKS</b> AUDITORIUM
5:00 pm	<b>CONFERENCE ADJOURNS</b>
TBD	<b>NO-HOST SOCIAL AT STEELFISH GRILLE</b> TRANSPORTATION ON OWN

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