

The logo for the National Defense Intelligence Agency (NDIA) is located in the top left corner. It consists of the letters "NDIA" in a bold, white, sans-serif font, set against a yellow shield-shaped background.

AT THE HEART
OF THE MISSION



2020

HUMAN SYSTEMS CONFERENCE

Human Systems and Multi-Domain Operations

March 3 – 4 | Arlington, VA | [NDIA.org/HumanSystems20](https://www.ndia.org/HumanSystems20)

TUESDAY, MARCH 3

7:00 am – 5:00 pm

REGISTRATION

ASSEMBLY FOYER

7:00 – 8:00 am

NETWORKING BREAKFAST

ASSEMBLY FOYER

8:00 – 8:15 am

WELCOME AND INTRODUCTORY REMARKS

CAVALIER BALLROOM

8:15 – 9:00 am

KEYNOTE ADDRESS

CAVALIER BALLROOM

BG Stephen L.A. Michael, USA

Deputy Commanding General, U.S. Army Combined Arms Center - Training

9:00 – 9:45 am

KEYNOTE ADDRESS

CAVALIER BALLROOM

Holly Handley, PhD, PE

Associate Professor, Engineering Management & Systems Engineering, Old Dominion University

9:45 – 10:15 am

NETWORKING BREAK

ASSEMBLY FOYER

10:15 – 11:15 am

PANEL: HUMAN SYSTEMS COMMUNITY OF INTEREST (COI)

CAVALIER BALLROOM

Michelle Zbylut

Director, Army Research Institute

Moderator

Kendy Vierling

Head, Future Learning Group, G5, USMC Training and Education Command

Mark Draper

Title, Company

Michael LaFiandra

Title, Company (Invited)

11:15 – 11:20 am

INTRODUCTION TO TECHNICAL SESSIONS

CAVALIER BALLROOM

Name

Title, Company

SESSION 1: PERSONALIZED ASSESSMENT, EDUCATION & TRAINING

11:20 – 11:25 am	<p>INTRODUCTION TO SESSION CAVALIER BALLROOM</p> <p>Kendy Vierling Title, Company</p> <p>Beth Biddle Title, Company</p>
11:25 – 11:45 am	<p>DATASIM: The Data and Training Analytics Simulated Input Modeler Shelly Blake-Plock CEO, Yet Analytics, Inc.</p>
11:45 am – 12:05 pm	<p>Achieving & Sustaining Optimal Human Performance in High-risk Environments Michael Hirsch President, Assessment Technologies</p>
12:05 – 12:25 pm	<p>Holistic Human Performance Training Combined with Neurotechnology Enhances Performance Potential in AETC and US Army “Training Next” Programs Frances MacInnes Research and Innovation Manager, Faubert Applied Research Centre</p>
12:25 – 12:45 pm	<p>Getting the Right Data: Implementing Squad Level Shooting and Communication Measures without Overburdening the Solider Eric Sikorski Research Psychologist II, Quantum Improvements Consulting</p>
12:45 – 1:05 pm	<p>AI-based Performance Assessment and Precision Learning for Aegis Janet Spruill Vice President, Aptima, Inc</p>
1:05 – 2:35 pm	<p>NETWORKING LUNCH & POSTER AND DEMO SESSION COMMONWEALTH BALLROOM</p>
2:35 – 3:20 pm	<p>KEYNOTE ADDRESS CAVALIER BALLROOM</p> <p>Gary Frost Deputy Director, STE CFT</p>
3:20 – 3:40 pm	<p>NETWORKING BREAK ASSEMBLY FOYER</p>

SESSION 2: PROTECTION, SUSTAINMENT, AND WARFIGHTER PERFORMANCE

3:40 – 3:45 pm

INTRODUCTION TO SESSION

CAVALIER BALLROOM

Mike LaFiandra (Invited)

Title, Company

Brad Chedister

Title, Company

3:45 – 4:05 PM

Developing High Performance Indicators (HPI) for Close Combat Forces Study**Rory O'Brien**

Chief, Program Evaluation Office, MCoE, U.S. Army Maneuver Center of Excellence

4:05 – 4:25 PM

In-Flight Physiological Monitoring**Lloyd Tripp, PhD, FAsMA, FAsHFA,**

Lead, Acceleration and Altitude Research

4:25 – 4:30 pm

CLOSING REMARKS

CAVALIER BALLROOM

4:30 – 5:30 pm

NETWORKING RECEPTION

ASSEMBLY FOYER

WEDNESDAY, MARCH 4

7:00 am – 4:30 pm

REGISTRATION

ASSEMBLY FOYER

7:00 – 8:00 am

NETWORKING BREAKFAST

ASSEMBLY FOYER

8:00 – 8:15 am

WELCOME AND INTRODUCTORY REMARKS

CAVALIER BALLROOM

MG James Boozer, Sr., USA (Ret)

Executive Vice President, National Defense Industrial Association

8:15 – 9:00 am

KEYNOTE ADDRESS

CAVALIER BALLROOM

COL Michael McGurk, USA

Director, Research and Analysis, Directorate CIMT

9:00 – 10:15 am **PANEL: HUMAN BEHAVIOR REPRESENTATION DEFINITIONS, STANDARDS, AND REQUIREMENTS**

10:15 – 10:45 am **NETWORKING BREAK**
ASSEMBLY FOYER

10:45 – 10:50 am **INTRODUCTION TO TECHNICAL SESSIONS**
CAVALIER BALLROOM

Name
Title, Company

SESSION 3: SYSTEMS INTERFACE AND COGNITIVE PROCESSING

10:45 – 10:50 am **INTRODUCTION TO SESSION**
CAVALIER BALLROOM

Mark Draper
Title, Company

Steve Dorton
Title, Company

10:50 – 11:10 am **AI for Strategy: Leveraging Human Factors to create man-machine symbiosis in strategic planning**
Melissa Carraway
Human Factors Engineer, Johns Hopkins University Applied Physics Laboratory - Force Projections Sector

11:10 – 11:30 am **Prioritizing Events with Headline Visualization**
John Ianni
Senior Computer Scientist, Air Force Research Laboratory

11:30 – 11:50 am **Fusing Macrocognition, Commander's Critical Information Requirements (CCIR) and System Interfaces to Facilitate Effective Decision-making in Multi-Domain Operations**
Jeffery Marshall
President, Morgan Works

11:50 – 12:10 pm **Decision Support for Multi-Domain Tactical Combat Casualty Care**
Christopher Nemeth
Principal Scientist, Applied Research Associates, Inc.

12:10 – 1:10 PM **NETWORKING LUNCH & POSTER AND DEMO SESSION**
COMMONWELATH BALLROOM

SESSION 4: HUMAN SYSTEMS METRICS

- 1:10 – 1:15 pm** **INTRODUCTION TO SESSION**
 CAVALIER BALLROOM
George Salazar
 Title, Company

Eric Jones
 Title, Company
- 1:15 – 1:45 pm** **Assessing Cognitive Load for Quantifying Swarming Wave Glider System Usability**
Andre Douglas
 Section Supervisor, The John Hopkins University Physics Lab
- 1:45 – 2:05 pm** **Defining Realistic Human Behavior Representation in Modeling & Simulation: Leveraging Mature Technology to Inform Standards, Requirements, and Measurement Criteria**
Karim Malek
 Director and Professor, University of Iowa Technology Institute
- 2:05 – 2:35 pm** **Driving Intuitive System Design with Usability Metrics**
Pamela Savage-Knepshield
 Research Psychologist, Combat Capabilities Development Command, Data Analysis Center
- 2:35 – 3:00 pm** **NETWORKING BREAK**
 ASSEMBLY FOYER
- 3:00 – 4:00 pm** **ROUNDTABLE/WORKING GROUP DISCUSSIONS**
 1 – 2 Topics for each session (PAET, SICP, PSWP, and HSM)
 CAVALIER BALLROOM
- 4:00 – 4:30 pm** **ROUNDTABLE OUTBRIEF**
 CAVALIER BALLROOM
- 4:30 pm** **CLOSING REMARKS**
 CAVALIER BALLROOM

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