



2019 HUMAN SYSTEMS CONFERENCE

Leading Human Systems Innovation: Partnering
to maximize warfighter effectiveness

April 16 – 17 | Aberdeen Proving Ground, MD | NDIA.org/HumanSystems19



WHO WE ARE

The National Defense Industrial Association is the trusted leader in defense and national security associations. As a 501(c)(3) corporate and individual membership association, NDIA engages thoughtful and innovative leaders to exchange ideas, information, and capabilities that lead to the development of the best policies, practices, products, and technologies to ensure the safety and security of our nation. NDIA's membership embodies the full spectrum of corporate, government, academic, and individual stakeholders who form a vigorous, responsive, and collaborative community in support of defense and national security. NDIA is proud to celebrate 100 years in support of our warfighters and national security. The technology used by today's modern warfighter was unimaginable 100 years ago. In 1919, BG Benedict Crowell's vision of a collaborative team working at the intersection of science, industry, government and defense began what was to become the National Defense Industrial Association. For the past century, NDIA and its predecessor organizations have been at the heart of the mission by dedicating their time, expertise and energy to ensuring our warfighters have the best training, equipment and support. For more information visit NDIA.org



HUMAN SYSTEMS DIVISION

WHO WE ARE

NDIA's Human System Division promotes the exchange of technical information and discussions between government, industry and academia, and the expansion of research and development in areas related to the human as a system whose performance must be integrated into any military system of systems. To this end, the division will serve as an infrastructure by providing a variety of ways for government, industry and academia to collaborate to advance human performance in air, land, sea, space and cyberspace through research, education and consultation.

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DIVISION LEADERSHIP

Dr. Jared Freeman
Division Chair

BG Pete Palmer, USA (Ret)
Vice Chair

Scott Kozak
Deputy Chair

Eric Jones
Industry Conference Chair

Dr. Kristin Schaefer-Lay
Government Conference Chair

SCHEDULE AT A GLANCE

TUESDAY, APRIL 16

General Session

Auditorium
8:00 am - 5:00 pm

Networking Poster and Demonstration Session

MTF Foyer
12:00 - 2:00 pm

Roundtable Discussions

Concurrent Sessions
2:00 - 3:30 pm

Networking Reception

Top of the Bay
5:30 - 7:00 pm

WEDNESDAY, APRIL 17

General Session

Auditorium
8:00 am - 5:00 pm

Networking Poster and Demonstration Session

MTF Foyer
12:30 - 2:00 pm

No-Host Reception

Steelfish Grille
5:30 pm

NATIONAL TRAINING AND SIMULATION ASSOCIATION
THE WORLD'S LARGEST MODELING & SIMULATION EVENT



- ▶ 16,200 Attendees
- ▶ 485 Exhibitors
- ▶ 186,000 sq. ft. Exhibit Hall
- ▶ 1,800 International Attendees, from 50 Countries



**INTERSERVICE/INDUSTRY TRAINING,
SIMULATION & EDUCATION CONFERENCE**
WINNING THE WAR OF COGNITION
BY PUSHING READINESS AND LETHALITY BOUNDARIES

WWW.IITSEC.ORG ▶ DECEMBER 2 – 6, 2019 ▶ ORLANDO, FLORIDA

EVENT INFORMATION

LOCATION

Conference Sessions
Mallette Training Facility
6575 Jayhawk Road
Building 6008
Aberdeen Proving
Ground, MD 21005

Tuesday Reception
Top of the Bay
30 Plum Point Loop W
Aberdeen Proving
Ground, MD 21005

**Wednesday No-Host
Reception**
Steelfish Grille
660 Boulton Street
Bel Air, MD 21014

EVENT WEBSITE

NDIA.org/HumanSystems19

EVENT THEME

Leading Human Systems Innovation: Partnering to maximize warfighter effectiveness

ATTIRE

Civilian: Business
Military: Uniform of the day

SURVEY AND PARTICIPANT LIST

You'll receive via email a survey and list of attendees (name and organization) after the conference. Please complete the survey, which helps make our event even more successful in the future.

EVENT CONTACT

Andrea Lane
Meeting Manager
(703) 247-2554
alane@ndia.org

Tatiana Jackson
Program Coordinator
(703) 247-9479
tjackson@ndia.org

SUBCOMMITTEE LEADS

Brad Chedister
PSWP Industry Chair

Dr. Kelly Hale
HSM Industry Chair

George Salazar
HSM Government Chair

Mark Draper
SICP Government Chair

Dr. James McCarthy
PAET Industry Chair

Dr. Peter Squire
PSWP Government Chair

Dr. Glenn Gunzelmann
PAET Government Chair

Henk Ruck
SICP Industry Chair

SPEAKER GIFTS

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation.

HARASSMENT STATEMENT

NDIA is committed to providing a professional environment free from physical, psychological and verbal harassment. NDIA will not tolerate harassment of any kind, including but not limited to harassment based on ethnicity, religion, disability, physical appearance, gender, or sexual orientation. This policy applies to all participants and attendees at NDIA conferences, meetings and events. Harassment includes offensive gestures and verbal comments, deliberate intimidation, stalking, following, inappropriate photography and recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome attention. Participants requested to cease harassing behavior are expected to comply immediately, and failure will serve as grounds for revoking access to the NDIA event.



Naval Postgraduate School

Human Systems Integration Cohorts Begin September 2019!

Deadline for Application is July 1, 2019

The Naval Postgraduate School

offers the nation's premier distance learning

Master of Human Systems Integration (HSI) degree program and
Human Systems Integration Certificate program.

The Human Systems Integration Program is pleased to announce **open registration** for both programs, for all federal government employees (military and civilian) and to defense contractor employees (on a space available basis).

HSI Certificate Program

Program length is one year (four consecutive academic quarters, one course per quarter). Course delivery is asynchronous (with weekly assignments). Graduates earn the NPS HSI Certificate!

Prerequisites for Certificate Program

- Baccalaureate Degree from a regionally accredited college or university
- GPA of 2.2 or better
- One lower level calculus course with a grade of C or better
- Waivers considered

Master's Degree in HSI Program

Program length is two years (eight consecutive academic quarters, two classes per quarter) with plans to have one synchronous and one asynchronous class per quarter. Graduates earn an HSI Certificate, the Master's Degree in HSI, and DAU Course Credits!

Prerequisites for the Master's Program

- Baccalaureate Degree from a regionally accredited college or university
- GPA of 2.2 or better
- One lower level calculus course with a grade of C or better
- Waivers considered

“ All of our airmen, soldiers and seamen have demanding and critical jobs to do that depend on well-designed systems that will work the way that they do - supporting the accomplishment of their tasks rapidly and effectively. *It is critical that we avoid system designs that are obstacle courses of hidden hazards and latent failures.* ”

~ Endsley, 2017

Application Process for Both Programs

- To apply please visit my.nps.edu/web/dl
- Program designators:
 - HSI Certificate Program - 262
 - Master's Degree in HSI - 359

For More Information

HumanSys@nps.edu

HSI Certificate Program: nps.edu/hsicertificate

HSI Master's Degree Program: nps.edu/hsimasters

AGENDA

TUESDAY, APRIL 16

7:15 am – 5:00 pm **REGISTRATION**
MTF FOYER

7:15 – 8:00 am **NETWORKING BREAKFAST**
MTF FOYER

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

Dr. Jared Freeman
Chief Scientist, Aptima
Chair, NDIA Human Systems Division

Dr. Kevin Geiss
Director, Airman Systems Directorate, 711th Human
Performance Wing, Air Force Research Laboratory
Chair, Human Systems COI

8:15 – 9:00 am **KEYNOTE ADDRESS**
AUDITORIUM

BG James Gallivan, USA
Chief of Staff, Army Futures Command

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

Dr. James Pharmer
Principal Scientist, Naval Air Warfare Center Training Systems Division

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

CAPT Ira Minor, USN (Ret)
Engineering Product Manager, Space and Naval Warfare Systems Command

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

10:30 – 11:30 am **PANEL: HUMAN SYSTEMS COMMUNITY OF INTEREST (COI)**
AUDITORIUM

Dr. Kevin Geiss
Director, Airman Systems Directorate, 711th Human Performance Wing, Air Force Research Laboratory
Chair, Human Systems COI
Moderator

Dr. Glenn Gunzelmann
Senior Research Psychologist, Air Force Research
Laboratory
PAET Air Force Lead, Human Systems COI

Dr. Peter Squire
Program Manager, Human Performance Training and
Education, Office of Naval Research
PSWP Navy Lead, Human Systems COI

- 11:30 – 11:40 am **COMMUNITY BRIEF: NDIA HUMAN SYSTEMS DIVISION**
AUDITORIUM
Dr. Jared Freeman
Chief Scientist, Aptima
Chair, NDIA Human Systems Division
- 11:40 – 11:50 am **COMMUNITY BRIEF: HFE TAG**
AUDITORIUM
John Plaga
Human Systems Integration Directorate, 711HPW.HPIF, Air Force Research Laboratory
Chair, DoD HFE TAG
- 11:50 am – 12:00 pm **COMMUNITY BRIEF: ARL**
AUDITORIUM
Dr. Corde Lane
Director, Human Research and Engineering Directorate, U.S. Army Research Laboratory
- 12:00 – 1:00 pm **NETWORKING LUNCH**
10 A & B
- 12:00 – 2:00 pm **NETWORKING POSTER AND DEMONSTRATION SESSION**
MTF FOYER
- 2:00 – 3:30 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
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

2:00 – 3:30 pm

**PANEL: JOINT HSI STEERING COMMITTEE AND
WORKING GROUP ACTIVITY**

AUDITORIUM

Mitchell Woods

HSI Systems Safety Lead, OUSD DASD-Systems Engineering
Moderator

Dr. Jared Freeman

Chief Scientist, Aptima
Chair, NDIA Human Systems Division

Andrew Monje

Acting Director, Systems Engineering, OUSD (R&E)

John Plaga

Human Systems Integration Directorate, 711HPW.HPIF, Air
Force Research Laboratory
Chair, DoD HFE TAG

Dr. Kevin Geiss

Director, Airman Systems Directorate, 711th Human
Performance Wing, Air Force Research Laboratory
Chair, Human Systems COI

3:30 - 4:00 pm

NETWORKING BREAK

MTF FOYER

4:00 – 4:45 pm

ROUNDTABLE AND PANEL OUTBRIEF

AUDITORIUM

4:45 – 5:00 pm

CLOSING REMARKS

AUDITORIUM

Dr. Jared Freeman

Chief Scientist, Aptima
Chair, NDIA Human Systems Division

5:30 – 7:00 pm

RECEPTION AT TOP OF THE BAY

TRANSPORTATION ON OWN

WEDNESDAY, APRIL 17

7:15 am – 4:30 pm

REGISTRATION

MTF FOYER

7:15 – 8:00 am

NETWORKING BREAKFAST

MTF FOYER

8:00 – 8:15 am

WELCOME AND INTRODUCTORY REMARKS

AUDITORIUM

Dr. Jared Freeman

Chief Scientist, Aptima
Chair, NDIA Human Systems Division

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

AUDITORIUM

Eric Jones

Principal Human Factors Engineer, Draper
Industry Conference Chair, NDIA Human Systems Division

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

Timothy Clark

Senior Research Engineer, Aptima

Measuring Performance and Cognitive Workload Across Proficiency Levels

Amy Dideriksen

Senior Training Research Manager, Collins Aerospace

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 Center Division Newport

10:20 – 10:50 am

NETWORKING BREAK

MTF FOYER

10:50 am – 12:05 pm

SESSION 2: PROTECTION, SUSTAINMENT, AND WARFIGHTER PERFORMANCE

AUDITORIUM

STANCE: Sensor Technologies for Augmenting the Naturalistic Control of Exoskeletons

Zachary Kiehl

Capability Lead & 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, Combating Terrorism Technical Support Office

David Batka

Chief Operating Officer, Titus

12:05 – 1:00 pm

NETWORKING LUNCH

10B

12:30 – 2:00 pm

NETWORKING POSTER AND DEMONSTRATION SESSION

MTF FOYER

2:00 – 3:00 pm

SESSION 3: SYSTEMS INTERFACE AND COGNITIVE PROCESSING

AUDITORIUM

Operator-Autonomy Teaming Interfaces for Multi-Unmanned Vehicle Management

Gloria Calhoun

Principal Engineering Research Psychologist, Air Force Research Laboratory

Reconnaissance Chess

William Li

Researcher, The Johns Hopkins Applied Physics Laboratory

CEDARS: Combined Exploratory Data Analysis Recommender System

Dr. Mark Livingston

Computer Scientist, Naval Research Laboratory

Human-Autonomy Teaming Essential Research Program Project 2: Transparent Multimodal Crew Interfaces

Dr. Kristin Schaefer-Lay

Engineer, U.S. Army Research Laboratory

3:00 – 3:30 pm

NETWORKING BREAK

MTF FOYER

3:30 – 4:45 pm

SESSION 4: HUMAN SYSTEMS METRICS

AUDITORIUM

When Acceptance Isn't Enough; Improving Evaluations of Novel Decision Support Tools

Jesslyn Alekseyev

Human Systems Analysis, MIT Lincoln Laboratory

Measuring Post Transition Performance Impacts

Darren Wilson, CHFEP

Senior Scientific and Technical Advisor, Science & Technology Directorate, Department of Homeland Security

Measurement Models, Metrics, and Decision Support for the HSI Personnel Domain

Dr. C.J. Hutto

Research Scientist, Georgia Tech Research Institute

Identifying Design Issues “Beyond the Checklist”

Kenneth Light

HSI Engineer, Army Research Laboratory

4:45 – 5:00 pm

CLOSING REMARKS

AUDITORIUM

Dr. Jared FreemanChief Scientist, Aptima
Chair, NDIA Human Systems Division

5:00 pm

CONFERENCE ADJOURNS

5:30 pm

NO-HOST SOCIAL AT STEELFISH GRILLE

TRANSPORTATION ON OWN

The NDIA has a policy of strict compliance with federal and state antitrust laws. The antitrust laws prohibit competitors from engaging in actions that could result in an unreasonable restraint of trade. Consequently, NDIA members must avoid discussing certain topics when they are together at formal association membership, board, committee, and other meetings and in informal contacts with other industry members: prices, fees, rates, profit margins, or other terms or conditions of sale (including allowances, credit terms, and warranties); allocation of markets or customers or division of territories; or refusals to deal with or boycotts of suppliers, customers or other third parties, or topics that may lead participants not to deal with a particular supplier, customer or third party.

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Ball Aerospace located near Wright-Patterson Air Force Base, supports the missions of the Air Force Research Laboratory (AFRL), the National Space Intelligence Center (NASIC), and several Air Force Life Cycle Management Center (AFLCMC) Program Executive Officer's programs. Ball is a prime contractor providing research and development and technology transition in partnership with the Airman Systems Directorate (RH) and AFRL to discover, develop, and integrate affordable technologies to improve Warfighter performance, exploit autonomous systems and enhance Airman-machine teaming in Air, Space and Cyberspace. In collaboration with RH, Ball provides the Special Forces and Intelligence Communities with innovative, human-centered solutions to complex customer challenges and creates new warfighting capabilities. We work with RH and AFRL across multiple research programs to ensure that future Airmen – through training and technology - will work effectively and responsively with autonomous teammates in highly-contested, dynamic environments leveraging integrated, multi-domain operations.

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Collins Aerospace would like to recognize our research collaborators:

- University of Iowa OPL specializes in civilian and military flight-testing and assessment of technologies in operational contexts. This includes: development and testing of LVC, degraded visual environments, quantification of data link and sensor performance, human factors assessments, Synthetic Vision Systems, physiological-based workload measurement systems, pilot spatial orientation enhancement systems, embedded flight simulation capabilities, and more. OPL has 6 manned and 5 unmanned aircraft.
- Faubert Applied Research Centre is a non-profit research center dedicated to furthering cognitive human performance potential. The ARC works with industry thought leaders, government and academia addressing unmet needs in assessing and improving brain function and performance. One of our key technologies is NeuroTracker, an evidence-based VR training system that enhances focus, situational awareness and decision-making under pressure.

Amy Dideriksen | Advanced Technologies Lead Researcher | Collins Aerospace | Amy.Dideriksen@collins.com | (321) 308-2604

BIOGRAPHIES



DR. NANCY COOKE

Professor, Human Systems Engineering
Arizona State University

Nancy J. Cooke is a professor of Human Systems Engineering at Arizona State

University and is Science Director of the Cognitive Engineering Research Institute in Mesa, AZ. She also directs ASU's Center for Human, AI, and Robot Teaming. She received her PhD in Cognitive Psychology from New Mexico State University in 1987. She has participated in several National Academies of Science, Engineering, and

Medicine committees including chairing the committee on Enhancing the Effectiveness of Team Science and most recently participating in the Committee on a Decadal Survey of Social and Behavioral Sciences and Applications to National Security. Dr. Cooke was a member of the US Air Force Scientific Advisory board from 2008-2012. In 2014 Dr. Cooke received the Human Factors and Ergonomics Society's Arnold M. Small President's Distinguished Service Award. Dr. Cooke's research interests include

the study of individual and team cognition and its application to the development of cognitive and knowledge engineering methodologies, human-robot teaming, cyber and intelligence analysis, remotely-piloted aircraft systems, healthcare systems, and emergency response systems. Dr. Cooke specializes in the development, application, and evaluation of methodologies to elicit and assess individual and team cognition. Her work is funded primarily by DoD.



BG JAMES GALLIVAN, USA

Chief of Staff
Army Futures Command

was commissioned an
Armor Officer through
ROTC upon graduation from Florida State
University in 1992.

His initial duty assignment was with the 1st Cavalry Division at Fort Hood, Texas, where he served as a tank platoon leader, scout platoon leader and tank company executive officer. He commanded Headquarters Company, 3rd Battalion, 15th Infantry and Delta Company, 1st Battalion, 64th Armor in the 3d Infantry Division (Mechanized) at Fort Stewart, Georgia. Following graduate school, he served on the Army Staff as a plans officer in the War Plans Division.

Brigadier General
James "Jay" Gallivan
was commissioned an
Armor Officer through

With the 3d Armored Cavalry Regiment, he served as a squadron operations officer in 3d Squadron in Iraq and as the regimental operations officer in Fort Carson, Colorado, and Iraq. He served as an interagency and civil support plans officer in USNORTHCOM's Standing Joint Force Headquarters as well as the deputy executive officer to the Commander, NORAD and USNORTHCOM.

General Gallivan commanded the 1st Battalion, 77th Armor Regiment at Fort Bliss, Texas, and in Iraq. He served as the senior reconnaissance squadron trainer and senior brigade trainer at the National Training Center in Fort Irwin, California. Prior to joining the 402nd Field Artillery Brigade and the 5th Armor Brigade, he served as the Chief of Staff with the 1st Armored Division's CENTCOM Forward-Jordan.

Following brigade command, he served as the Chief of Staff for the 1st Cavalry Division. His most recent assignment was with the National Security Council and he currently serves as the 1AD Deputy Commanding General, Operations.

General Gallivan is a graduate of the Command and General Staff College and the United States Army War College. He also received a Master in Public Administration from the John F. Kennedy School of Government.

His awards and decorations include the Legion of Merit, Bronze Star with V Device, Bronze Star, Purple Heart, Defense Meritorious Service Medal, Meritorious Service Medal, the Army Staff Identification Badge, the Combat Action Badge and the Parachutist Badge.



CAPT IRA MINOR, USN (RET)

Product Manager, ExAMS
Space and Naval Warfare Systems Command

the Naval Postgraduate School, Ira is a
retired Navy Captain (Surface Warfare) with

A 1980 graduate
of the U.S. Naval
Academy, and
2010 graduate of

a Masters in Systems Engineering and a
Graduate Certificate in Network Engineering,
an Architecture & Systems Engineering
Professional Certificate from MIT, and
extensive experience working for Fortune
500 corporations in Silicon Valley. He is

currently responsible for the development
of the System of Systems Executable
Architecture capability at SPAWAR Systems
Command, and is certified in the DoD
Acquisition and Cybersecurity workforces.



DR. JAMES PHARMER

Principal Scientist, Human Systems Department
Naval Air Warfare Center Training Systems Division

and the Principal Scientist for the Human

Dr. James "Jim"
Pharmer is a Naval
Aviation Systems
Command Fellow

Systems Department at the Naval Air
Warfare Center Training Systems Division.
His research interests are in applying HSI
principles to the systems engineering and
acquisition processes. He holds a PhD in

Applied Experimental and Human Factors
Psychology from the University of Central
Florida and an MS in Engineering Psychology
from the Florida Institute of Technology.

POSTER AND DEMONSTRATION SESSIONS

TUESDAY, APRIL 16

12:00 – 2:00 pm

WEDNESDAY, APRIL 17

12:30 – 2:00 pm

An Integrated Model of Physical and Cognitive Effects of Non-lethal Weapons

Christian Dobbins
Dr. Poornima Madhavan
Institute for Defense Analyses

Considerations for the HSI Risk Analysis Tool

Patricia Burcham
U.S. Army Research Laboratory

Contributions of Usability Metrics to User-Centered Design

Dr. Pam Savage-Knepshield
CCDC-Data and Analysis Center

Scott Sines
PM MC, PdM FSC2

Crowdsourcing Situational Awareness through Passive Physiological and Behavioral Monitoring

Dr. Stephen Gordon
Robert Smith
DCS Corporation

Dr. Jonathan Touryan
U.S. Army Research Laboratory

Developing New Methods for Evaluating Human-Agent Team Communication

Dr. Anthony Baker
Ralph Brewer
Susan Hill
Dr. Kristin Schaefer-Lay
U.S. Army Research Laboratory

FitForce Planner: Data-Driven Support for Planning and Evaluating USMC Physical Training

Timothy Clark
Laura Cassani
Gabe Ganberg
Dr. Lisa Lucia
Angelica Smith
Aptima

Gut-on-Chip Microfluidic Systems: Applications in Host-Microbiome Interactions and Evaluation of Engineered Bacterial Platforms

Dr. Mark Nelson
Air Force Research Laboratory

Improving Human-System Performance through Technology-Enabled Employee Relationship Management

Andrew Moore
Tracy Cassidy
Software Engineering Institute

Denise Rousseau
Carnegie Mellon University

Leveraging Deep Learning and Machine Learning Algorithms to Build Adaptive and Adjustable User Interfaces to Support Human-Machine Teams

Dr. Jonathan Chow
Dr. Bennie Lewis
Lockheed Martin Space

MALUM: A U.S. Marine Corps Simulation System for Injury Avoidance

Karim Abdel-Malek
Rajan Bhatt
Jasbir Arora
University of Iowa

Landon Evans
Kimberly Farrell
Travis Klopfenstein

Meme Guard – The Case for Building Cognitive Resilience to Neurocognitive Warfare

Michael Ross
Indiana Criminal Justice Institute

Non-Invasive Real Time Implicit Communication of Human Signals (N-RICH)

Dr. Pooja Patnaik Bovard
Louis Kim
Draper Laboratory

Personnel Assessment Education and Training for Human-machine Teaming in Unmanned Underwater Vehicles (UUVs)

Dr. Jacob Norris
SPAWAR Systems Center Pacific

Portable Real-time Imaging for Cognitive Monitoring

Dr. Erik Nemeth
NeuroGen Technologies, Inc.

Dr. Bryann Gabbard
Defense Group, Inc.

Publishing Opportunities in the Journal of DoD Research & Engineering

Dr. Ryan Makinson
Defense Technical Information Center

Predicting Individualized Human-exoskeleton Adaptability from Baseline Sensorimotor and Cognitive Factors

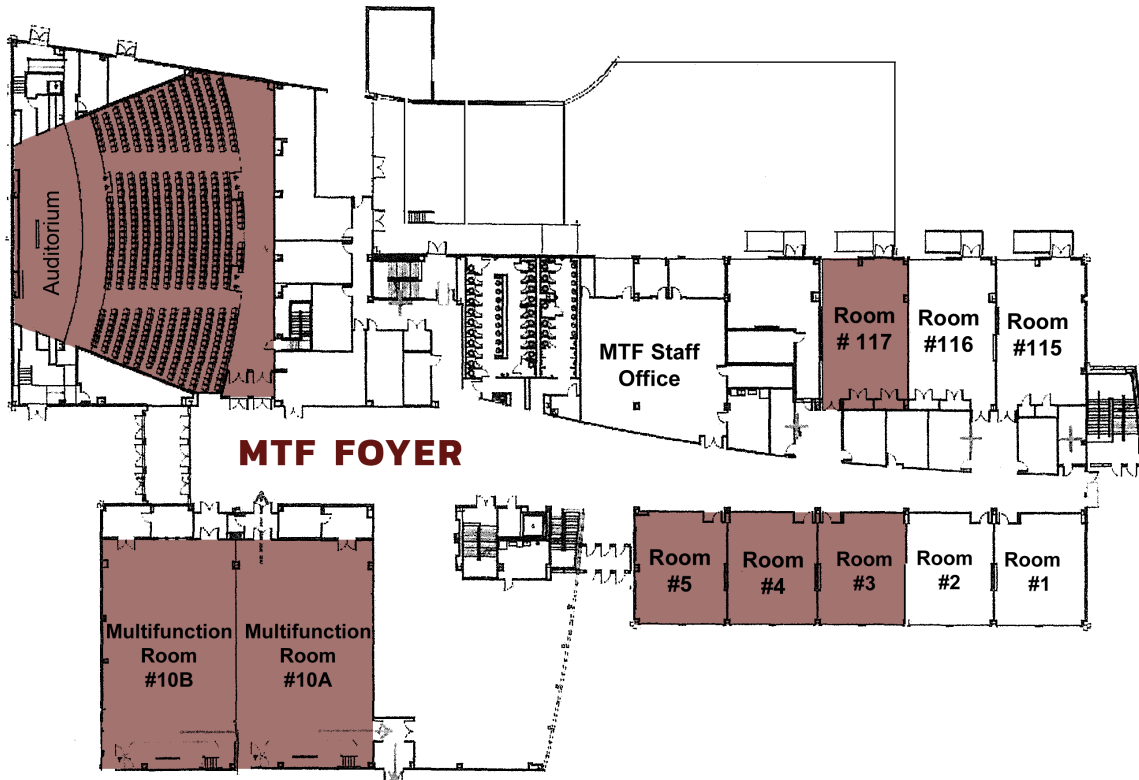
Aditi Gupta
Harvey Edwards, III
Ryan McKindles
Aaron Rodriguez
Leia Stirling
Massachusetts Institute of Technology

Touch Interaction for Console Redesign

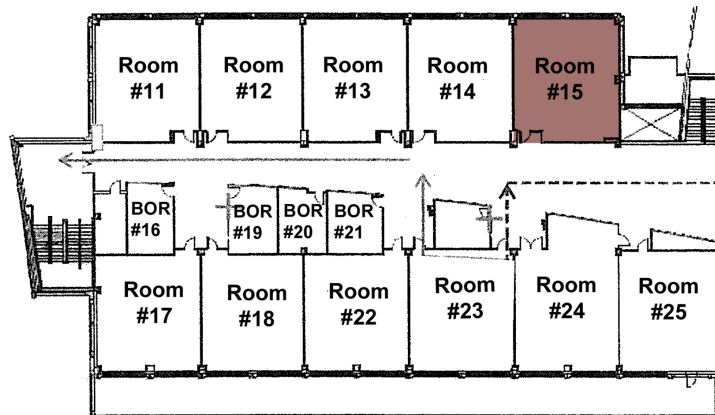
Oliver Mestre
Jennifer O’Leary
Naval Undersea Warfare Center Division Newport

VENUE MAP

MALLETTE TRAINING FACILITY - FIRST FLOOR



MALLETTE TRAINING FACILITY - SECOND FLOOR





AT THE HEART
OF THE MISSION

NDIA

1919 2019

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May 20 – 23 | Tampa, FL | SOFIC.org

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