



NDIA
AT THE HEART
OF THE MISSION

2021 HUMAN SYSTEMS DIGITAL EXPERIENCE

Maximizing Human Readiness

March 2, 9, 16, 23, & 30 | [NDIA.org/HSDE](https://www.ndia.org/HSDE)

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NDIA

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. For more than 100 years, 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

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LEADERSHIP

Jim McCarthy
Division Chair

Kelly Hale
Deputy Chair

Peter Palmer
Vice Chair

Travis Klopfenstein
HSDE Industry Co-Chair

Jeffrey Thomas
HSDE Government Co-Chair

HUMAN SYSTEMS

WHO WE ARE

The NDIA Human Systems Division promotes the exchange of technical information and discussions between government, industry, and academia, and supports 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 serves as an essential infrastructure by providing a variety of ways for government, industry, and academia to collaborate and advance human performance in air, land, sea, space, and cyberspace through research, education, and consultation.

WELCOME TO THE 2021 HUMAN SYSTEMS DIGITAL EXPERIENCE

On behalf of the NDIA Human Systems Division, we welcome you to our Human Systems Digital Experience!

When we met last March in Washington, DC, the seriousness of the pandemic was just beginning to emerge. We received last-minute instructions to avoid handshakes, but masks and social distancing were not yet part of the national discourse. How things have changed! As we began to plan for our 2021 annual meeting, we started with the tried-and-true: an in-person gathering that would allow colleagues to interact and benefit from those “hallway moments” that can be such an important part of professional gatherings. However, over time, it became apparent that a live gathering would not be possible; it simply would not be safe.

In reimagining our annual meeting, we applied the lessons learned from countless “Zooms” and “WebExs.” We knew how tiring they could be and how difficult it was to step away from normal day-to-day activities when you were still in your office (wherever that may be). Based on these insights, we decided to try something completely new. Rather than a one- or two-

day intensive gathering, we opted to design our meeting as five bite-sized chunks that would take place at the same time each week for a month. The thought was that the relatively small and predictable structure would enable you to more actively participate in the discussions that make these sorts of meetings so valuable. Each week will focus on a topic of particular interest to our community, such as the demand signals from the government; the latest advances in fields such as personalized assessment and training; supporting and protecting our warfighters; the design of system interfaces harmonized with the cognitive processing ability of our users; and measuring and advocating for the power of human systems design.

We are pleased that you are joining us for this ground-breaking event. We—the members of the NDIA Human Systems Division, our invited speakers, and community participants—hope you will both contribute to and learn from this month-long exploration of the many dimensions of the human systems challenge!

Jim McCarthy, PhD
 Vice President, Instructional Systems, Sonalysts, Inc.
 Chair, Human Systems Division, NDIA

Kelly Hale, PhD
 Principal Member, Technical Staff, Draper
 Deputy Chair, Human Systems Division, NDIA

SCHEDULE AT A GLANCE

DAY 1: TUESDAY, MARCH 2

Keynote Speakers & Col Panel

11:00 am – 2:00 pm EST

DAY 2: TUESDAY, MARCH 9

Focus: Personalized Assessment, Education, & Training

11:00 am – 2:00 pm EST

DAY 3: TUESDAY, MARCH 16

Focus: Protection, Sustainment, & Warfighter Performance

11:00 am – 2:00 pm EDT

DAY 4: TUESDAY, MARCH 23

Focus: Systems Interface & Cognitive Processing

11:00 am – 2:00 pm EDT

DAY 5: TUESDAY, MARCH 30

Focus: Advocacy & Metrics

11:00 am – 2:00 pm EDT

EVENT INFORMATION

EVENT WEBSITE

NDIA.org/HSDE

EVENT THEME

Maximizing Human Readiness

SURVEY AND PARTICIPANT LIST

You will receive via email a survey and list of participants (name and organization) after the event. Please complete the survey to make our event even more successful in the future.

EVENT CONTACTS

Jessica Lewton
Meeting Planner
(703) 247-2588
jlewton@NDIA.org

Jacqueline Dupre
Coordinator, Divisions
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SPEAKER GIFTS

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

PLATFORMS

GoToWebinar: We will be utilizing GoToWebinar for the majority of this digital experience. You should have received a confirmation email from GoToWebinar after registering. These emails will be resent 24 hours and 1 hour before each webinar.

Zoom.Gov: The final session of Days 2 – 5 (the Roundtable Discussions) will be hosted on Zoom.Gov to allow maximum attendee participation. A calendar invitation will be sent 24 business hours prior to each of these sessions.

ON-DEMAND POSTER SESSIONS

Poster presentations will be available in an on-demand format on the event website: NDIA.org/HSDE.

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AGENDA

The following program is in the Eastern Time Zone.

DAY 1: TUESDAY, MARCH 2

11:00 – 11:10 am

OPENING REMARKS

Jim McCarthy, PhD

Vice President, Instructional Systems, Sonalysts, Inc.

Chair, Human Systems Division, National Defense Industrial Association (NDIA)

NDIA REMARKS

Gen Herbert “Hawk” Carlisle, USAF (Ret)

President and Chief Executive Officer, NDIA

EXCLUSIVE WEBINAR SPONSOR REMARKS

Tony Kurta

Strategic Account Executive, Health & Human Performance, Leidos

11:10 – 11:55 am

KEYNOTE SPEAKER

Lernes Hebert

Deputy Assistant Secretary of Defense, Military Personnel Policy, Office of the Secretary of Defense, U.S. Department of Defense

Includes Q&A

11:55 am – 12:00 pm

BREAK

12:00 – 1:05 pm

COI PANEL

Michelle Zbylut, PhD

Director, Army Research Institute

Moderator

Mark Draper

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

Michael LaFiandra

Deputy Chief Scientist, Army Research Laboratory

PS&WP Government Representative, Human Systems Division, NDIA

Kendy Vierling, PhD

Director, Naval Education Division, Office of the Assistant Secretary of the Navy (Manpower & Reserve Affairs)
PAE&T Government Co-Chair, Human Systems Division, NDIA

Includes Q&A

1:05 – 1:10 pm

BREAK

1:10 – 1:55 pm

KEYNOTE SPEAKER

VADM Richard Brown, USN (Ret)
President, Siren Consulting, LLC

Includes Q&A

1:55 – 2:00 pm

CLOSING REMARKS

Kelly Hale, PhD
Principal Member, Technical Staff, Draper
Deputy Chair, Human Systems Division, NDIA



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DAY 2: TUESDAY, MARCH 9 | PAE&T

11:00 – 11:15 am

OPENING REMARKS

Jim McCarthy, PhD

Vice President, Instructional Systems, Sonalysts, Inc.
Chair, Human Systems Division, NDIA

EXCLUSIVE WEBINAR SPONSOR REMARKS

Tony Kurta

Strategic Account Executive, Health & Human Performance, Leidos

PERSONALIZED ASSESSMENT, EDUCATION, & TRAINING RECAP OF STRATEGY/GAPS

Kendy Vierling, PhD

Director, Naval Education Division, Office of the Assistant Secretary of the Navy (Manpower & Reserve Affairs)
PAE&T Government Co-Chair, Human Systems Division, NDIA

11:15 – 11:20 am

INTRO TO PERSONALIZED ASSESSMENT, EDUCATION, & TRAINING

Elizabeth Biddle, PhD

Senior Technical Fellow, Advanced Learning Capabilities, Mission Systems & Autonomy,
Boeing Research & Technology, The Boeing Company
PAE&T Industry Co-Chair, Human Systems Division, NDIA

11:20 – 11:40 am

FIVE FACTORS THAT SHOULD BE CONSIDERED WHEN CHOOSING TECHNOLOGY FOR TRAINING

Julian Abich, PhD

Senior Engineer, Human Factors, Quantum Improvements Consulting

Eric Sikorski, PhD

Secondary Author

Includes Q&A

11:40 am – 12:00 pm

MEASURING AND ASSESSING HUMAN READINESS: USING DATA STANDARDS TO IMPROVE THE FIDELITY OF ASSESSMENT DATA (XAPI, XAPI PROFILES, RCDS, AND P2881)

Ashley Howell

Project Manager and Systems Engineer, Advanced Distributed Learning Initiative

Hunter Smith

Software Engineer, Advanced Distributed Learning Initiative

Includes Q&A

12:00 – 12:05 pm

BREAK

12:05 – 12:25 pm

FATIGUE DETECTION/PREDICTION USING MACHINE LEARNING AND WEARABLE TECHNOLOGY

Alex Kniffin

Biomedical Engineer, Dahlgren Division, Naval Surface Warfare Center

Includes Q&A

12:25 – 12:45 pm

THE TEAM-BASED ADVANCED RESILIENCE ACCELERATOR (TARA) SYSTEM: A TABLET-BASED OBSERVATIONAL PERFORMANCE ASSESSMENT TOOL FOR DEVELOPMENT OF RESILIENT TEAMS

Kristy Kay

Scientist, Aptima, Inc.

Lisa Lucia, PhD, and Jeff Beaubien, PhD

Secondary Authors

Includes Q&A

12:45 – 12:50 pm

CLOSING REMARKS

Kendy Vierling, PhD

Director, Naval Education Division, Office of the Assistant Secretary of the Navy (Manpower & Reserve Affairs)
PAE&T Government Co-Chair, Human Systems Division, NDIA

12:50 – 1:00 pm

BREAK/TRANSFER TO ZOOM.GOV

1:00 – 2:00 pm

Hosted on Zoom.Gov

ROUNDTABLE FOCUSED ON PERSONALIZED ASSESSMENT, EDUCATION, & TRAINING

Elizabeth Biddle, PhD

Senior Technical Fellow, Advanced Learning Capabilities, Mission Systems & Autonomy,
Boeing Research & Technology, The Boeing Company
PAE&T Industry Co-Chair, Human Systems Division, NDIA

Kendy Vierling, PhD

Director, Naval Education Division, Office of the Assistant Secretary of the Navy (Manpower & Reserve Affairs)
PAE&T Government Co-Chair, Human Systems Division, NDIA

Includes Q&A

DAY 3: TUESDAY, MARCH 16 | PS&WP

11:00 – 11:15 am

OPENING REMARKS

Jim McCarthy, PhD

Vice President, Instructional Systems, Sonalysts, Inc.
Chair, Human Systems Division, NDIA

EXCLUSIVE WEBINAR SPONSOR REMARKS

Tony Kurta

Strategic Account Executive, Health & Human Performance, Leidos

PROTECTION, SUSTAINMENT, & WARFIGHTER PERFORMANCE RECAP OF STRATEGY/GAPS

Travis Klopfenstein

Executive Director, Programs, University of Iowa Technology Institute
HSDE Industry Co-Chair, Human Systems Division, NDIA

11:15 – 11:20 am

INTRO TO PROTECTION, SUSTAINMENT, & WARFIGHTER PERFORMANCE

Brad Chedister

Chief Technology Officer, DEFENSEWERX
PS&WP Industry Co-Chair, Human Systems Division, NDIA

11:20 – 11:40 am

PEAKSLEEP: A WEARABLE NEUROTECHNOLOGY FOR SLEEP AND MEMORY ENHANCEMENT

Stephen Simons, PhD

Principal Scientist, Teledyne Scientific

Michael Weisend, PhD, Alexandra Yanoschak, and Calvin Schmidt

Secondary Authors

Includes Q&A

11:40 am – 12:00 pm

WARRIOR PERFORMANCE PLATFORM (WP2™) FOR THE UNITED STATES AIR FORCE: ENABLING REMOTE FITNESS COACHING AND WELLNESS TRACKING CAPABILITIES FOR GEOGRAPHICALLY DISTRIBUTED POPULATIONS

Jake Repanshek

Executive Director, Solutions & Technology, TIAG

Kevin Dawidowicz

Co-Founder and President, CoachMePlus

Includes Q&A

12:00 – 12:05 pm

BREAK

12:05 – 12:25 pm

ADDING STRESSORS TO TACTICAL COMBAT CASUALTY CARE AND CARE UNDER FIRE VIRTUAL REALITY PERFORMANCE ASSESSMENTS USING HAPTICS AND INTEGRATED IMMERSIVE TECHNOLOGIES

Conner Parsey

Manager, Science & Technology, Combat Capabilities Development Command Soldier Center (DEVCOM SC),
U.S. Army

Joanne Barnieu

Director, Instructional Science, Engineering & Computer Simulations

William Pike, PhD, Madison Quinn, and Justin Welzien

Secondary Authors

Includes Q&A



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As the National Defense Industrial Association's members-only online community, NDIA Connect offers 24/7 exclusive access to content, contacts, and collaboration capabilities. Each day, defense professionals from around the world post their thoughts, questions, and answers—even related to the human as a system, biometrics, human-centered research, human performance, manpower, occupational health, and all physical domains. Log in today to join these conversations and take advantage of all that NDIA Connect enables:

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- Collaborate on projects and documents of all kinds
- Plan meetings, seminars, webinars, conferences, or any NDIA-related event
- Foster discussion, promote innovation, and grow your network

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12:25 – 12:45 pm

MEASURING AND PREDICTING SOLDIER PERFORMANCE AND LETHALITY THROUGH SOLDIER-SYSTEMS MODELING**Robb Wilcox, PhD**

Lead, Science & Technology, Human Systems Performance, DEVCOM SC, U.S. Army

Includes Q&A

12:45 – 12:50 pm

CLOSING REMARKS**Travis Klopfenstein**

Executive Director, Programs, University of Iowa Technology Institute

HSDE Industry Co-Chair, Human Systems Division, NDIA

12:50 – 1:00 pm

BREAK/TRANSFER TO ZOOM.GOV

1:00 – 2:00 pm

Hosted on Zoom.Gov

ROUNDTABLE FOCUSED ON PROTECTION, SUSTAINMENT, & WARFIGHTER PERFORMANCE**Brad Chedister**

Chief Technology Officer, DEFENSEWERX

PS&WP Industry Co-Chair, Human Systems Division, NDIA

Travis Klopfenstein

Executive Director, Programs, University of Iowa Technology Institute

HSDE Industry Co-Chair, Human Systems Division, NDIA

Includes Q&A**DAY 4: TUESDAY, MARCH 23 | SI&CP**

11:00 – 11:15 am

OPENING REMARKS**Lillian Asiala, PhD**

Cognitive Scientist, Sonalysts, Inc.

Incoming Deputy Chair, Human Systems Division, NDIA

EXCLUSIVE WEBINAR SPONSOR REMARKS**Tony Kurta**

Strategic Account Executive, Health & Human Performance, Leidos

SYSTEMS INTERFACE & COGNITIVE PROCESSING RECAP OF STRATEGY/GAPS**Mark Draper**

Lead, Adaptive Warfighter Interfaces Core Technical Competency, Air Force Research Laboratory

SI&CP Government Co-Chair, Human Systems Division, NDIA

11:15 – 11:20 am

INTRO TO SYSTEMS INTERFACE & COGNITIVE PROCESSING**Steve Dorton**

Director, Human-Autonomy Interaction Laboratory, Sonalysts, Inc.

Vice President, Research & Development, Sonalysts, Inc.

SI&CP Industry Co-Chair, Human Systems Division, NDIA

11:20 – 11:40 am

REVOLUTIONIZING PREVENTATIVE MAINTENANCE CHECKS AND SERVICES WITH AUGMENTED REALITY

Charis Horner

Product Engineer, Design Interactive, Inc.

Includes Q&A

11:40 am – 12:00 pm

CONTEXT-SENSITIVE ADAPTIVE FRAMEWORK FOR CROSS-PLATFORM INTERACTION

Pooja Bovard, PhD

Senior Engineer, Human Systems, Draper

Includes Q&A

12:00 – 12:05 pm

BREAK

12:05 – 12:25 pm

BATTLEFIELD CARE DECISION SUPPORT

Christopher Nemeth, PhD

Principal Scientist, Applied Research Associates, Inc.

Includes Q&A

12:25 – 12:45 pm

PERFORMANCE IN NOISE SPEECH TO TEXT COMMUNICATIONS AID

Tyler Ferro, PhD

Engineer, Operational Design & Performance, Dahlgren Division, Naval Surface Warfare Center

Includes Q&A

12:45 – 12:50 pm

CLOSING REMARKS

Mark Draper

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

12:50 – 1:00 pm

BREAK/TRANSFER TO ZOOM.GOV

1:00 – 2:00 pm

Hosted on Zoom.Gov

ROUNDTABLE FOCUSED ON SYSTEMS INTERFACE & COGNITIVE PROCESSING

Steve Dorton

Director, Human-Autonomy Interaction Laboratory, Sonalysts, Inc.

Vice President, Research & Development, Sonalysts, Inc.

SI&CP Industry Co-Chair, Human Systems Division, NDIA

Moderator

Mark Draper

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

Includes Q&A

DAY 5: TUESDAY, MARCH 30 | A&M

11:00 – 11:15 am

OPENING REMARKS**Kara Orvis, PhD**Vice President, Research & Development, Aptima, Inc.
Incoming Division Chair, Human Systems Division, NDIA**EXCLUSIVE WEBINAR SPONSOR REMARKS****Tony Kurta**

Strategic Account Executive, Health & Human Performance, Leidos

ADVOCACY & METRICS RECAP OF STRATEGY/GAPS**George Salazar**Discipline Lead, Human Computer Interface Tech, Lyndon B. Johnson Space Center, NASA
A&M Government Co-Chair, Human Systems Division, NDIA

11:15 – 11:20 am

INTRO TO ADVOCACY & METRICS**Eric Jones**Engineer, Human Factors, Cooper Perkins | Part of PA Consulting
A&M Industry Co-Chair, Human Systems Division, NDIA

11:20 – 11:40 am

HUMAN PREVENTATIVE MAINTENANCE CHECKS AND SERVICES MANUAL**BG Peter Palmer, USA (Ret)**President, P2 Consulting Service, LLC
Vice Chair, Human Systems Division, NDIA**Includes Q&A**

11:40 am – 12:00 pm

USING DATA MANAGEMENT AND AI TO IMPROVE READINESS AND RETURN**Scott Keplinger**

Chief Executive Officer, Malum Terminus Technologies, Inc.

Kyle Peterson and David Batka

Secondary Authors

Includes Q&A

12:00 – 12:05 pm

BREAK

12:05 – 12:25 pm

READINESS IN REAL-TIME: USING COGNITIVE SCIENCE AND AI TO PREDICT HUMAN CAPABILITY**Iain Harlow, PhD**

Vice President, Science, Cerego, Inc.

Includes Q&A

12:25 – 12:45 pm

ADDRESSING THE GAP IN DATA MANAGEMENT: A HEALTH AND HUMAN PERFORMANCE DATA ARCHITECTURE

Adam Faurot

Chief Executive Officer, TITUS Human Performance Solutions

David Batka

Secondary Author

Includes Q&A

12:45 – 12:50 pm

CLOSING REMARKS

George Salazar

Discipline Lead, Human Computer Interface Tech, Lyndon B. Johnson Space Center, NASA
A&M Government Co-Chair, Human Systems Division, NDIA

12:50 – 1:00 pm

BREAK/TRANSFER TO ZOOM.GOV

1:00 – 2:00 pm

Hosted on Zoom.Gov

ROUNDTABLE FOCUSED ON ADVOCACY & METRICS

Eric Jones

Engineer, Human Factors, Cooper Perkins | Part of PA Consulting
A&M Industry Co-Chair, Human Systems Division, NDIA

George Salazar

Discipline Lead, Human Computer Interface Tech, Lyndon B. Johnson Space Center, NASA
A&M Government Co-Chair, Human Systems Division, NDIA

Includes Q&A

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NDIA
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NDIA NATIONAL SECURITY AI CONFERENCE & EXHIBITION

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This will be the premier event on innovation in artificial intelligence (AI) for national security, focusing on topic areas such as the competition continuum, AI solutions, federal AI initiatives, and real-world AI technology. Attending this event includes unparalleled access to key information and members of the AI community. Join us in leveraging the pace of AI development and deployment to strengthen the safety and security of the United States and our allies.

March 23 – 25 | [NDIA.org/NSAICE](https://ndia.org/nsaice)

KEYNOTE BIOGRAPHIES



VADM RICHARD BROWN, USN (RET)

President

Siren Consulting, LLC

Vice Admiral

Richard Brown is a recognized expert in crisis management,

including the single most important issue of our time, COVID-19, having successfully kept the 92 Surface Ships of the Pacific Fleet and their crews operational during the height of the pandemic. As demonstrated during his 35-year career in the United States Navy, he is also a change leader who led the digital transformation and technical refresh of the Navy's Personnel System; completely revamped the Surface Warfare Officer career path; brought Surface Warfare training into the 21st century by transforming the curricula and devices to state-of-the-art virtual systems; and created programs and policies that professionalized the Surface Warfare community. He designed, initiated, tracked, oversaw, and successfully implemented the most comprehensive culture change the United States Navy has ever achieved.

Brown was appointed Commander, Naval Surface Forces/Commander, Naval Surface Force, U.S. Pacific Fleet, following the tragic destroyer collisions and loss of 17 sailors in 2017 in the Pacific. He was hand-selected

to fix a deteriorating institution. He revamped the career and training continuum of over 6,500 Surface Warfare Officers, revitalized training regimens of the 162 surface ships, and changed the culture of the Surface Force of over 55,000 sailors to a Culture of Excellence. He led a staff of 475 in the manning, training, and equipping of the United States Navy's Surface Ship Fleet, influencing a \$40-billion annual enterprise-wide budget and directly executing a \$3-billion annual Naval Surface Force U.S. Pacific Fleet budget. He directed detailed succession planning for Surface Warfare senior and flag officers, ensuring the right leader was available at the right time.

Brown was hand-selected twice to lead two high-visibility and critical investigations. In August 2017, he led the dual-purpose investigation into the collision of USS JOHN S MCCAIN (DDG 56) and Motor Vessel ALNIC MC in the Singapore Traffic Separation Scheme. Then, in May 2020, he led the USS THEODORE ROOSEVELT investigation into the command relationships, decisions, and climate following the COVID-19 breakout that took this capital asset off-line for two months. These

investigations resulted in concrete and measurable recommendations for Navy improvement in operational oversight, safety, crew training, and personnel.

Brown excels in key stakeholder engagement, including an extensive history of successfully engaging directly with and being held accountable through briefings and congressional testimony to the Senate and House Armed Services Committees.

Brown held seven command tours throughout his career. Prior commands include USS THE SULLIVANS (DDG 68), USS GETTYSBURG (CG 64), Surface Warfare Officers School Command, Naval Service Training Command, Carrier Strike Group Eleven/NIMITZ Carrier Strike Group, and Navy Personnel Command/Deputy Chief of Navy Personnel.

Brown holds a BS in Mathematics from the United States Naval Academy, an MS in Operations Research from the United States Naval Postgraduate School, and an MA in National Security and Strategic Studies from the United States Naval War College.



LERNES HEBERT

Deputy Assistant Secretary of Defense, Military Personnel Policy
Office of the Secretary of Defense, U.S. Department of Defense

Mr. Lernes Hebert oversees the full spectrum of human resource policies for

over two million military personnel serving in the Department of Defense. As the Deputy Assistant Secretary of Defense for Military Personnel Policy, a component of the Office of the Under Secretary of Defense for Personnel and Readiness, his responsibilities include accessions, compensation, development, separations, and recognition programs. He is directly responsible for policies to sustain the all-volunteer force.

Mr. Hebert has served in Military Personnel Policy since 2003. During his tenure, he led the Department through major initiatives to restructure career longevity provisions, joint officer management, and general and flag officer management. His achievements were recognized in 2017 with his receipt of the Presidential Rank Award of Meritorious Executive in 2017.

He previously served in the Air Force and, after a 24-year military career, retired as a colonel. He served at every level in the field of personnel management, including key

assignments in the Office of the Secretary of Defense, in the Air Staff, at the Air Force Personnel Center, and with the Air Combat Command.

Mr. Hebert earned an MS in National Security Strategy from the National War College at the National Defense University. He also holds an MA in Management and Computer Resource Management from Webster University. He attended the University of Louisiana, where he earned his BS in Management.

POSTERS

PERSONALIZED ASSESSMENT, EDUCATION, & TRAINING

Training Cognitive Overmatch through Esports

Allison Brager, PhD

Director, Human Performance, U.S. Army Recruiting Command

Contact: allison.brager@gmail.com

PROTECTION, SUSTAINMENT, & WARFIGHTER PERFORMANCE

Mission Task Analysis Tool (MTAT): Preparing to Fight a New Mission

Lisa Bolin

Program Manager, SimVentions

Contact: lisabolin@simventions.com

Matthew Wilson and Cory Cheek

Secondary Authors

SYSTEMS INTERFACE & COGNITIVE PROCESSING

Task-Centered Approaches to Human Interface Design

Michael Cowen, PhD

Technical Director, Monterey Technologies, Inc.

Contact: mcowen@montereytechnologies.com

Empowering Knowledge Transition through AR-Based Complex Troubleshooting

Lori Mullen

Senior Business Analyst, Design Interactive, Inc.

Contact: lori.mullen@designinteractive.net

Selecting Best-in-Breed HMI Components for MUM-T

Blake Piper

Research Scientist, Leidos

Contact: blake.piper@leidos.com

Assessing Interface Readiness Using Model-Based Systems Engineering

Michael Miller, PhD

Professor, Air Force Institute of Technology

Contact: michael.miller@afit.edu

The Science of Understanding

Leslie Blaha, PhD

Senior Research Psychologist, Warfighter Interactions & Readiness

Division, 711th Human Performance Wing, Air Force Research Laboratory

Contact: leslie.blaha@us.af.mil

Implementing Decision-Centric Warfare

Brian Clark

Senior Fellow, Hudson Institute

Contact: bclark@hudson.org

ADVOCACY & METRICS

Human Readiness Levels: Ensuring Systems Are “Ready” for Human Users

Benjamin Schwartz

Systems Engineer, Engineering For Humans

Contact: benjamin@engineeringforhumans.com

Holly Handley, PhD

Secondary Author