



**NDIA**

AT THE HEART  
OF THE MISSION

# 2022 HUMAN SYSTEMS CONFERENCE

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

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

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## 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](http://NDIA.org)

## GET INVOLVED

Learn more about NDIA's Divisions and how to join one at [NDIA.org/Divisions](http://NDIA.org/Divisions)



### LEADERSHIP AND COMMITTEES

**Kara Orvis, PhD**  
Division Chair

**BG Pete Palmer, USA (Ret)**  
Vice Chair

**Lillian Asiala, PhD**  
Deputy Chair

**Travis Klopfenstein, PhD**  
Committee Chair

# HUMAN SYSTEMS

## WHO WE ARE

NDIA's Human Systems 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.

# WELCOME TO 2022 HUMAN SYSTEMS CONFERENCE

On behalf of NDIA's Human Systems Division, we welcome you to the 2022 Human Systems Conference!

The last two years have been interesting to say the least. When we met in 2020, 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 our everyday vocabulary. Then in 2021 we were agile and re-imagined our annual meeting as a digital experience, running half-a-day online sessions for five weeks. In 2022, we were committed to returning in person, in as safe a way as possible. As we see each other in person, some for the first time in over two years, we remember why we are here. To learn and grow. To exchange technical information and make connections among government, industry, and academia. To support our warfighters as we confront human systems challenges.

For the next two days, we will hear presentations and view posters of interest to our community. These include forward looking topics around Artificial Intelligence; human-machine teaming; assessment and training; and the design of system interfaces. Additionally, we have provided ample time for

in person networking. To help facilitate conversations with people you may not know, we are providing topic stickers for your badge. Set a goal to meet someone new and ask about their interests.

We are tremendously grateful to all those who have contributed to the 2022 program, either by serving as a featured speaker, submitting an abstract, or supporting conference planning activities. Looking forward to 2023, we are scheduled to hold the conference in March. As you enjoy the 2022 program, please reflect on what you would like to hear and see next year. Share those ideas with us. We are here to serve the community.

A warm welcome to all those who joined us in person this year. We, the members of the Division, our exemplary speakers, and the Human Systems community, hope you will both contribute to and learn from this year's conference!

**Kara Orvis, PhD**  
*Chair, Human Systems Division, NDIA*

**Lillian Asiala, PhD**  
*Deputy Chair, Human Systems Division, NDIA*

## SCHEDULE AT A GLANCE

### WEDNESDAY, JUNE 15

**Keynote Address**

Auditorium  
8:15 — 9:00 am

**COI Brief for Session 1**

Auditorium  
10:00 — 10:30 am

**Presentations (PAE&T)**

Auditorium  
10:30 am — 12:10 pm

**Posters Session & Refreshment Break**

Art Gallery  
1:20 — 2:20 pm

**COI Brief for Session 2**

Auditorium  
2:20 — 2:50 pm

**Presentations (PS&WP)**

Auditorium  
2:50 — 4:30 pm

**Networking Reception**

Multipurpose Rooms  
4:35 — 7:00 pm

### THURSDAY, JUNE 16

**Keynote Address**

Auditorium  
8:05 — 9:00 am

**Posters Session**

Art Gallery  
9:00 — 10:10 am

**COI Brief for Session 3**

Auditorium  
10:40 — 11:10 am

**Presentations (SI&CP)**

Auditorium  
11:10 am — 12:50 pm

**Presentations (A&M)**

Auditorium  
2:20 — 4:00 pm

# EVENT INFORMATION

## LOCATION

George Mason University Arlington Campus  
3351 Fairfax Drive, MS 5A7  
Arlington, VA 22201

## WIFI

- 1) Connect to MASON wireless network using your device.
- 2) Go to <https://its.gmu.edu/knowledge-base/guest-wi-fi-self-registration/> A portal will open.
- 3) Create an account to get online.

## ATTIRE

Civilian: Business  
Military: Uniform of the Day

## SURVEY AND PARTICIPANT LIST

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

## EVENT CONTACT

**Renata Casiel**  
Meeting Planner  
(703) 247-2561  
[rcasiel@NDIA.org](mailto:rcasiel@NDIA.org)

**Kimberly Williams, CMP**  
Director, Meetings  
(703) 247-2578  
[kwilliams@NDIA.org](mailto:kwilliams@NDIA.org)

**Jacqueline Dupre**  
Division Coordinator  
(703) 247-2575  
[Jdupre@NDIA.org](mailto:Jdupre@NDIA.org)

## 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.

## EVENT CODE OF CONDUCT

NDIA's Event Code of Conduct applies to all National Defense Industrial Association (NDIA), National Training & Simulation Association (NTSA), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, and WID are committed to providing a productive and welcoming environment for all participants. All participants are expected to abide by this code as well as NDIA's ethical principles and practices. Visit [NDIA.org/CodeOfConduct](https://www.ndia.org/CodeOfConduct) to review the full policy.

## REAL-TIME CROWD-SOURCED Q&A



**Sli.do** is an audience engagement platform that allows users to crowd-source top questions to drive meaningful conversations and increase crowd participation. Participants can up-vote the questions they would most like to hear discussed. Simply tap the thumbs-up button to up-vote a question. Top questions are displayed for the moderator and speaker to answer. Ask your questions by downloading the Sli.do app or by accessing [www.sli.do](http://www.sli.do) through your web browser. Event code: #HSD



# NDIA | CAREER CENTER

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## Connecting Talent with Great Opportunities – NDIA Career Center

The National Defense Industrial Association offers qualified defense and national security professionals and employers an intuitive platform to identify the next best opportunity or candidate.

### Looking for the Right Candidate?

Interested in a better way to engage with and recruit qualified defense and national security professionals? NDIA's new online career center will make searching for candidates easier.

### Looking for the Right Job?

Looking for your next career opportunity? The NDIA Career Center is your solution.

**Complete your profile today at [Jobs.NDIA.org](https://Jobs.NDIA.org)**



# AGENDA

WEDNESDAY, JUNE 15

7:00 am – 6:00 pm

**REGISTRATION**  
LOBBY

7:00 – 8:00 am

**NETWORKING BREAKFAST**

8:00 – 8:15 am

**WELCOME AND INTRODUCTORY REMARKS**  
AUDITORIUM

**Kara Orvis, PhD**

Chair, Human Systems Division, NDIA

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

8:15 – 9:00 am

**KEYNOTE ADDRESS**  
AUDITORIUM

**Michael Sorrento, SES**

Director, Defense Manpower Data Center

9:00 – 9:30 am

**COI OVERVIEW**  
AUDITORIUM

**Patrick Mason, PhD, SES**

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

9:30 – 10:00 am

**NETWORKING BREAK**

10:00 – 10:30 am

**COI BRIEF FOR SESSION 1**  
AUDITORIUM

**Kendy Vierling, PhD**

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

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



## JOIN THE CONVERSATION



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@NDIAMembership



NDIA.org/LinkedIn



@NDIAToday



@NDIAToday

10:30 am – 12:10 pm

**PRESENTATIONS (PAE&T)**

AUDITORIUM

**BG Peter Palmer, USA (Ret)**President, P2 Consulting Services, LLC  
Vice Chair, Human Systems Division, NDIA  
*Moderator***24440 – A Selective Model for Accelerated Realtime Training****Amanda Bond, PhD**

Lead Scientist, Soar Technology, Inc.

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

Assistant Director – Research Staff Member, Institute for Defense Analysis

**24453 – Reduce Subjectivity: Automated Performance Evaluation****Kay Stanney, PhD**

CEO and Founder of Design Interactive

**24451 – First Steps in Validating Explicit and Implicit On-the-Job Performance Assessment****Lillian Asiala, PhD**Deputy Chair, Human Systems Division, NDIA  
Cognitive Scientist, Sonalysts, Inc.**Question & Answer with Kendy Vierling, PhD**


12:10 – 1:20 pm

**NETWORKING LUNCH**

1:20 – 2:20 pm

**POSTERS SESSION & REFRESHMENT BREAK**

ART GALLERY



**The definitive guide  
to AI providers**

**DOWNLOAD YOUR FREE PDF**

**NDIA.org/AISourcebook**

**NDIA**

Sponsored by **UPTAKE**

2:20 – 2:50pm

## **COI BRIEF FOR SESSION 2**

AUDITORIUM

**Logan Williams, PhD**

PSWP Government Co-Chair, Human Systems Division, NDIA  
Lead, Human Performance Medical Product Area, Air Force Research Laboratory

2:50 – 4:30 pm

## **PRESENTATIONS (PS&WP)**

AUDITORIUM

**Travis Klopfenstein, PhD**

Industry Conference Chair, Human Systems Division, NDIA  
Executive Director, Programs, University of Iowa Technology Institute HSDE  
*Moderator*

### **24464 – Modeling Paired-Choice Data to Effectively Predict Human Evaluations of Individual Performance**

**Joshua Fiechter, PhD**

Research Scientist, Kairos Research

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

**Kelly VandenBossche, PhD**

Omni Defense Technologies

### **24466 – Integrating Humans and Technology for Resilient, Cognitive Preparedness and Assessment for Warfighting Systems**

**Angie Sandritter**

CEO & Founder, RippleWorx, Inc.

**Mark Derriso, PhD**

Chief Engineer, 711 HPW/EN, Air Force Research Laboratory

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

**Alexxa Bessey**

Scientist, Aptima, Inc.

### **Question & Answer with Logan Williams, PhD**

4:30 – 4:35pm

## **DAY 1 CLOSING REMARKS**

AUDITORIUM

**Lillian Asiala, PhD**

Deputy Chair, Human Systems Division, NDIA  
Cognitive Scientist, Sonalysts, Inc.

4:35 – 7:00 pm

## **NETWORKING RECEPTION**

MULTIPURPOSE ROOMS



**THURSDAY, JUNE 16**

7:00 am – 3:00 pm

**REGISTRATION**

LOBBY

7:00 – 8:00 am

**NETWORKING BREAKFAST**

8:00 – 8:05 am

**WELCOME AND INTRODUCTORY REMARKS**

AUDITORIUM

**Lillian Asiala, PhD**

Deputy Chair, Human Systems Division, NDIA

Cognitive Scientist, Sonalysts, Inc.

8:05 – 9:00 am

**KEYNOTE ADDRESS**

AUDITORIUM

**David Honey, PhD**

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

9:00 – 10:10 am

**POSTER SESSION**

ART GALLERY

## EMERGING TECH HORIZONS

**ETI** EMERGING  
TECHNOLOGIES  
INSTITUTE

### An ETI Podcast

Listen in as our nation's security experts share their personal takes on the latest defense technology.

Hosted by our resident expert Dr. Mark Lewis, Executive Director of NDIA's new Emerging Technologies Institute, our brand-new podcast takes a deep dive into how technology will shape the future of warfare.

[EmergingTechnologiesInstitute.org/Podcast](https://EmergingTechnologiesInstitute.org/Podcast)



10:10 – 10:40 am

## NETWORKING BREAK

10:40 – 11:10 am

## COI BRIEF FOR SESSION 3

AUDITORIUM

**Mark Draper, PhD**

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

11:10 am – 12:50 pm

## PRESENTATIONS (SI&CP)

AUDITORIUM

**BG Peter Palmer, USA (Ret)**

Vice Chair, Human Systems Division, NDIA  
President, P2 Consulting Services, LLC  
*Moderator*

### **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, Inc.

**Zach Kleinfelter PhD**

Scientist, Aptima, Inc.

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

**Adam Fouse, PhD**

Division Director, Aptima, Inc.

### **Question & Answer with Mark Draper, PhD**

12:50 – 1:50 pm

## NETWORKING LUNCH

MULTIPURPOSE ROOM

1:50 – 2:20 pm

## BRIEF FOR SESSION 4

AUDITORIUM

**George Salazar**

A&M Government Co-Chair, Human Systems Division, NDIA  
Human Computer Interface Technical Discipline Lead, Avionics Systems Division, NASA

# VITAL SIGNS 2022

## THE HEALTH AND READINESS OF THE DEFENSE INDUSTRIAL BASE

Download the Free Report  
[NDIA.org/VitalSigns](https://ndia.org/VitalSigns)



2:20 – 4:00 pm

### PRESENTATIONS (A&M)

AUDITORIUM

**Travis Klopfenstein, PhD**

Industry Conference Chair, Human Systems Division, NDIA  
 Executive Director, Programs, University of Iowa Technology Institute HSDE  
*Moderator*

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

**Michael Miller, PhD**

Professor, Air Force Institute of Technology

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

**C.J. Hutto, PhD**

Senior Research Scientist, Georgia Tech Research Institute

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

**C.J. Hutto, PhD**

Senior Research Scientist, Georgia Tech Research Institute

#### Question & Answer with George Salazar

4:00 – 4:05 pm

### CLOSING REMARKS

AUDITORIUM

**Kara Orvis, PhD**

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

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.

# BIOGRAPHIES



## DAVID A. HONEY, PHD

*Deputy Under Secretary*  
Defense for Research and Engineering (DUSD(R&E))

Dr. David A. Honey is the Deputy Under Secretary of Defense for Research and Engineering (DUSD(R&E)). In this role, he assists the Under Secretary and Chief Technology Officer in managing research, development, and prototyping activities across the Department of Defense (DoD) enterprise. He also helps oversee the activities of the Defense Advanced Research Projects Agency (DARPA), the Missile Defense Agency (MDA), the Defense Innovation Unit (DIU), the Space Development Agency (SDA), the DoD Laboratory and Engineering Center enterprise, and the Under Secretariat staff focused on developing advanced technology and capability for the U.S. military.

Dr. Honey previously served a Special Assistant to the Director, Defense Advanced Research Projects Agency (DARPA). He

has served in several other capacities at DARPA; as the Acting Deputy Director, the Director of the Strategic Technology Office (STO), Director of the Advanced Technology Office (ATO) and the Deputy Director of and program manager in the Microsystems Technology Office (MTO).

In 2019, he served as Acting Director of the Strategic Capabilities Office. From 2011 – 2017, he served as the Director, Science and Technology, and as the Assistant Deputy Director of National Intelligence for Science and Technology in the Office of the Director of National Intelligence.

From 2009 to 2011, Dr. Honey served as the Deputy Assistant Secretary of Defense for Research in the Office of the Assistant Secretary of Defense for Research and Engineering. He was responsible for oversight of DoD science and technology programs from basic research through advanced technology development.

From 2007 to 2009, Dr. Honey was the Defense Sector General Manager and a Senior Vice President in a small business and during this time he also served on the US Air Force Scientific Advisory Board.

Dr. Honey is a retired US Air Force Lieutenant Colonel who began his military career as a pilot in the B-52D and H model bombers and the FB-111 fighter-bomber, and later transitioned into managing a wide variety of R&D programs.

Dr. Honey holds a Doctorate of Philosophy in solid state science from Syracuse University, a Master of Science in optical science from the University of Arizona, a Master of Science in engineering physics from the Air Force Institute of Technology (AFIT), and a Bachelor of Science in photographic science from Rochester Institute of Technology.



## MICHAEL SORRENT, SES

*Director, Defense Manpower Data Center*  
Warfighter Performance at the Office of Naval Research (ONR)

Mr. Sorrento, a member of the Senior Executive Service, currently serves as the Director of the Defense Manpower Data Center (DMDC), a high-performing operational support organization within the Defense Human Resource Activity, which reports to the Under Secretary of Defense for Personnel and Readiness. DMDC maintains the central repository of 58 million records for military, civilians, retirees, family members, and contractors.

DMDC's three major business lines include: benefits and entitlements, identity management, and decision support with over 300 employees and 1,500 contractors. Additionally, DMDC supports worldwide operations of over 2,500 sites issuing ID cards and over 130 bases using its

base access control system. DMDC's mission directly supports the security of DoD networks, facilities, and personnel across world for identification of potential fraud and abuse, personnel policies and programs, the delivery of the right benefit to the right person at the right time, and most importantly the national interest goal of supporting a positive life-time relationship with its members and families.

Sorrento began his federal career in 1990 with the Small Business Administration's (SBA) Disaster Loan Program. He served in numerous supervisory, management, and executive roles prior to being promoted to the Senior Executive Service in 2010. During his career with SBA, Sorrento deployed for several lengthy field duty assignments to assist victims of onsite in support of direct recovery efforts including the September

11, 2001 terrorist attacks, the Northridge earthquake, and several major hurricanes. He is credited with leading several major transformational initiatives that incrementally modernized the disaster loan program towards a customer centric focus with vastly improved responsiveness.

Sorrento was selected to the position of DMDC Director in November 2016, his third Senior Executive Service appointment within DoD. He previously held the position of Director, Cyber Capabilities and Compliance, U.S. Air Force Chief Information Officer from September 2014 – November 2016 and Chief Information Officer, Assistant Secretary of the Air Force for Financial Management and Comptroller from October 2010 – August 2014.

# SPONSOR DESCRIPTIONS



## PREMIER

Leidos's mission is to make the World Healthier, Safer, and more Efficient using technology, engineering, and science solutions and services in the defense, intelligence, civil, and health markets. The company's 43,000 employees support vital missions for government and commercial customers. Leidos is a leading provider of health and human data solutions for federal agencies. We deliver secure, whole health solutions, across ever-changing sites of care, to improve patient outcomes and system efficiencies.

As a leading provider of data-driven, value-based solutions for federal healthcare agencies and non-federal customers across the healthcare ecosystem, we believe today's complex health challenges call for revolutionary problem-solving. Our mission is to deliver secure health solutions to improve health outcomes and efficiencies. By bringing our expertise in implementing and optimizing electronic health record (EHR) systems, enterprise IT and network modernization, cybersecurity, and other health services to bear, we deliver solutions that provide immediate benefits aimed at our customers' most important needs. Our multidomain knowledge of the underlying science enables us to take a disciplined, efficient, evidence-based approach that distinguishes our integrated solutions.

Our scientists, engineers, technologists and clinical teams draw on decades of success to deliver a broad range of customizable, scalable solutions to hospitals and health systems, biomedical organizations, and every U.S. federal agency focused on health, including the Department of Defense (DOD), Veterans Affairs (VA), and Health & Human Services (HHS).

We work with customers across the continuum of care from the research lab to the patient bedside. From leading digital transformation of medical records and other supporting systems to conducting groundbreaking research to developing and supporting large-scale technology programs, we help our customers improve clinical, operational, and financial outcomes – designed to revolutionize the future of health.

For more information, visit [www.Leidos.com](http://www.Leidos.com).



## REGISTRATION & LANYARD

Our Story:

Founded in 2015 in Dayton, Ohio, Mile Two is a trusted partner with experience building custom software for a range of diverse clients, including startups, Fortune 500 companies, and the US government.

Mile Two has developed a collaborative culture that encourages employees to support one another and collectively explore ideas and generate solutions, which fosters innovation and encourages employees to build relationships and trust across disciplines. Our culture is built on our core values: Supported Autonomy, Success is a Team Effort, Tangible Results, and Humble Expertise.



## NETWORK RECEPTION

Since 1995, Aptima's mission has been to optimize and improve human performance in mission-critical, technology-intensive settings. We apply deep expertise in how humans think, learn, and perform to today's challenges. Whether for fighter pilots functioning in the cockpit, medical staff in the ICU, or teams collaborating across distributed networks, our solutions help measure, assess, inform, and augment human performance in defense, intel, aviation, law enforcement, and healthcare..

# POSTER AND DEMONSTRATION SESSIONS

**WEDNESDAY, JUNE 15**

1:20 pm – 2:20 pm

**THURSDAY, JUNE 16**

9:00 am – 10:10 am

## **Knowledge Acquisition, Transfer, And Retention Using Augmented Reality Technology**

James Cooper | Dr. Kay Stacey | Diana Perera  
Design Interactive

## **Measuring Resilience in Team Communication Skills via Remote VR Training Tool**

Conor McKenna | Jerry Bresee  
Vocavio Technologies

## **Multi-Modal Event Standardization Platform of Biometric-Derived Human Performance**

Dr. Arlington Wilson | Joseph Alemany | Dr. Meghan Garvey | Robyn Highfill-McRoy | Patrick Walsh  
Leidos

## **Precision Form Training™ and BrainBodyVoice Systems: Priming the Systems for Warfighter Operational Readiness with Real-time Protocols, inclusive of the Proprioceptive System and Voice Mechanism**

Dr. Veera Asher  
INSPIRE 2 INSPIRE INC. dba KPERFORM

## **Using VR as an AR Testbed – Rapid Assessments of Decision Support Technologies in Simulated Environments**

Dr. Summer Rebensky | Dr. Adrian Flowers | Jonathan Reynolds | Dr. Samantha Perry  
Aptima

## **Using Cognitive Systems to Promote Positive Online Discourse**

Dr. Robert McCormack | Dr. Nathan Schurr | Laura Cassani | Deirdre Kelliher | Louis Penafiel  
Aptima

## **An Interactive Digital Dual-Purpose Defense Technology Optimization & Visualization Tool for Management & Maintenance Workflow Optimization and Resource Scheduling**

Mrs. Angie Sandritter  
RippleWorx, Inc.

## **Effect of Mount and Shroud Angles on Night Vision Goggle Orientation Ranges**

Dr. Brian Higginson | Dr. Martin Fultot | Lauren Brewer | Jesse Smith  
Galvion

## **Brain Management Evidence Interface for AI-Enabled Edge Processing for Unmanned Aerial Systems**

Dr. Joseph Geeseman | Heather James | Mei Lau  
Joint Artificial Intelligence Center



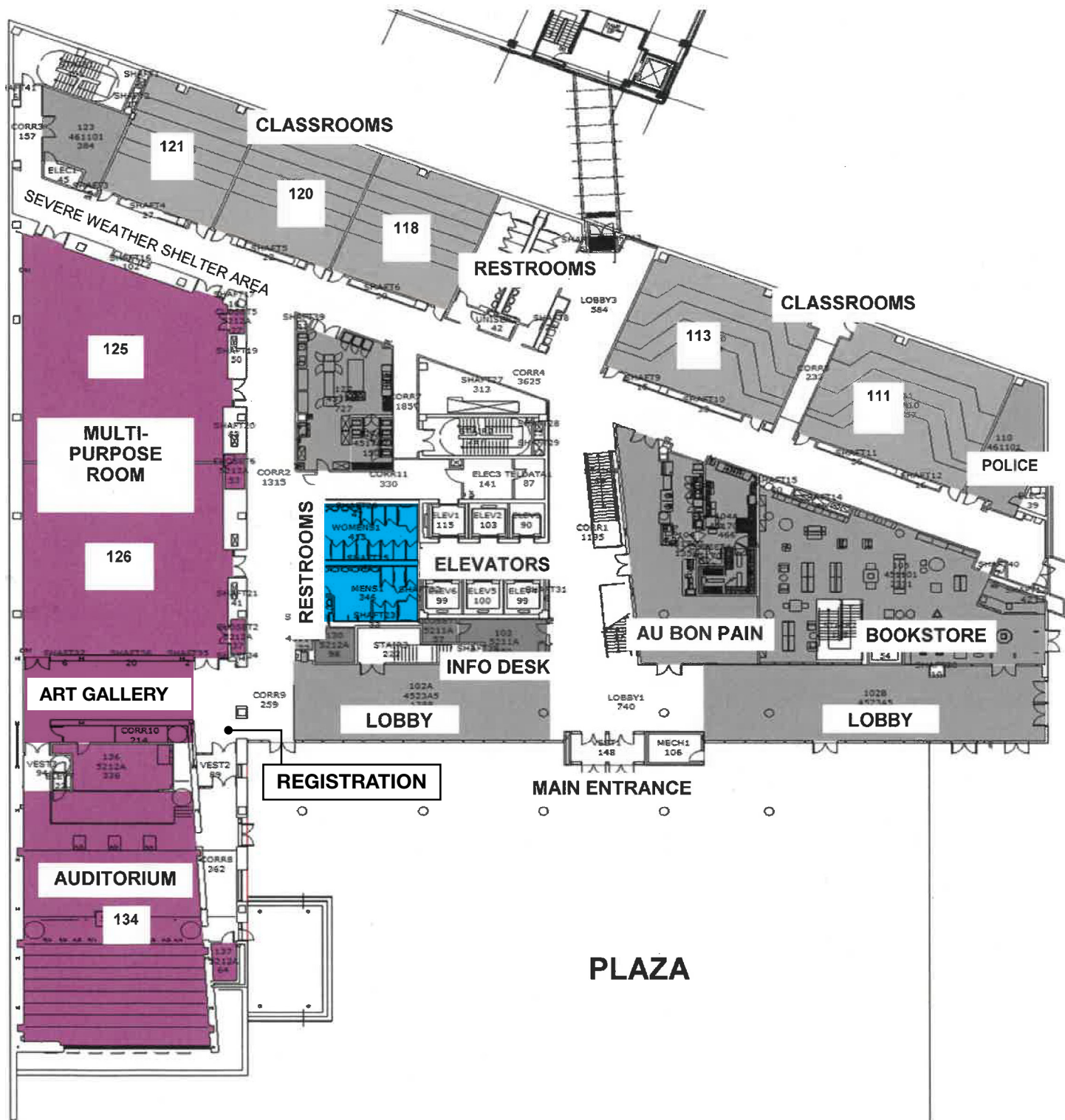
## **STAY UP TO DATE ON CHANGES AND TRENDS IN REGULATORY POLICY WITH NDIA'S POLICY BLOG**

The NDIA Policy Team monitors, advocates for, and educates government stakeholders on policy matters of importance to the defense industrial base. Help ensure the continued existence of a viable, competitive national technology and industrial base by keeping up with the latest reforms, rules, and regulations.

**Read more at [NDIA.org/PolicyBlog](https://www.ndia.org/PolicyBlog)**

# VENUE MAP

## VAN METRE HALL: FIRST FLOOR LAYOUT





### TRAINING & SIMULATION INDUSTRY SYMPOSIUM (TSIS)

June 15 – 16, 2022 | Orlando, FL

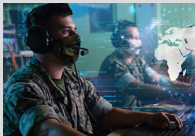
Training | Simulation | Modeling | Acquisition/Funding



### WOMEN IN DEFENSE NATIONAL CONFERENCE

September 27, 2022 | Arlington, VA

Pivots and Prospects: Success in the New Normal



### 2022 HUMAN SYSTEMS CONFERENCE

June 15 – 16, 2022 | Arlington, VA

Human Systems | Joint Cognitive Systems | Human Systems Integrations | Artificial Intelligence



### PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-22)\* SECRET – NOFORN

October 18 – 20, 2022 | Laurel, MD

Precision Capability | Air & Missile Defense | Technology Advancements



### 2022 JADC2 & ALL DOMAIN WARFARE SYMPOSIUM\*\*

July 11 – 13, 2022 | McLean, VA

Cyber | Cyber-Augmented Operations | Information Technology | Warfare



### 2022 INSENSITIVE MUNITIONS & ENERGETIC MATERIALS (IMEM) TECHNOLOGY SYMPOSIUM

October 18 – 20, 2022 | Indianapolis, IN

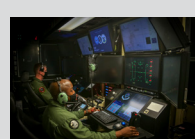
Energetic Materials | Inensitive Munitions | Munitions Technology



### 2022 CBRN DEFENSE CONFERENCE AND EXHIBITION

July 26 – 28, 2022 | Baltimore, MD

Combat Architecture | Defensive Measures | Demilitarization | Preparedness | Industrial Base



### 25<sup>TH</sup> ANNUAL SYSTEMS & MISSION ENGINEERING CONFERENCE

November 1 – 3, 2022 | Orlando, FL

Program Management | Security Models | Test & Evaluation | Manufacturing



### 2022 SPACE WARFIGHTING INTEGRATION FORUM (SWIF)\*\*

August 17 – 19\*, 2022 |

Colorado Springs, CO

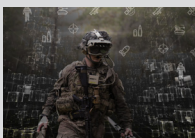
Defense Research & Development | Science & Technology



### AIRCRAFT SURVIVABILITY SYMPOSIUM

November 2 – 4, 2022 | Monterey, CA

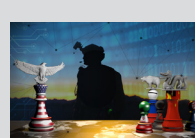
Combat Survivability | Concealment and Deception | Countermeasures | Urban Warfare | Vulnerability Reduction



### FUTURE FORCE CAPABILITIES CONFERENCE & EXHIBITION

September 19 – 22, 2022 | Austin, TX

Autonomous Systems | GARM | Live Fire | Multi-Domain | Small Arms | EOD



### 33<sup>RD</sup> ANNUAL NDIA SO/LIC SYMPOSIUM

November 17 – 18, 2022 | Washington, DC

Special Operations Forces | Strategic Competition



### UNDERSEA WARFARE FALL CONFERENCE\*

September 26 – 28, 2022 | Groton, CT

Aviation USW | C4I | Mine Warfare | Undersea Sensors & Vehicles | Warfighter Performance



### I/ITSEC 2022

November 28 – December 2, 2022 |

Orlando, FL

Simulation | Training | Virtual Reality

\*All Classified | \*\*Partially Classified