

Association of the United States Army's Institute of Land Warfare

ARMY AUTONOMY & ARTIFICIAL INTELLIGENCE SYMPOSIUM & EXPOSITION

A Professional Development Forum



SHOW GUIDE

AUTONOMY AND AI TO ENABLE MULTI-DOMAIN OPERATIONS

28-29 November 2018

Cobo Center | Detroit, Michigan



**ASSOCIATION OF THE
UNITED STATES ARMY**



LANPAC

SYMPOSIUM & EXPOSITION

21-23 May 2019 | Sheraton Waikiki | Honolulu, HI



1,500+
Attendees



25+
Partner
Nations



65+
Exhibits
& Demos

A PROFESSIONAL DEVELOPMENT FORUM

**Exhibit Space &
Sponsorships Available**

EXHIBITS
Natalie Norris
nnorris@ausa.org

SPONSORSHIPS
Gaye Hudson
ghudson@ausa.org

www.ausa.org/lanpac2019



Table of Contents

Message from the President, AUSA	3
Welcome Letter from the Mayor of Detroit.....	5
Important Show Reminders	6
Thank You to our Sponsors.....	7
Agenda.....	8
Floor Plan.....	11
Exhibitor Descriptions	12
Index.....	17



USA SECURITY AND DEFENSE PAVILION

ORGANIZED BY THE ASSOCIATION OF THE UNITED STATES ARMY

IDEX 2019

INTERNATIONAL DEFENCE
EXHIBITION & CONFERENCE

ABU DHABI, UAE

17-21 FEBRUARY 2019



WE'LL INTRODUCE YOU TO THE GLOBAL DEFENSE MARKET



Full-Service
Support



Global
Visibility



Valuable
Connections

**Exhibit Space &
Sponsorships Available**

WWW.AUSA.ORG/IDEX2019

EXHIBITS

Michael Cerami
mcerami@ausa.org

SPONSORSHIPS

Gaye Hudson
ghudson@ausa.org



**WELCOME TO THE 2018 AUSA ARMY
AUTONOMY & AI SYMPOSIUM & EXPOSITION**
A Professional Development Forum

On behalf of all of us at AUSA, thank you for joining us at our first Army Autonomy and Artificial Intelligence Symposium and Exposition in Detroit, MI. We are extremely pleased to be holding this event at the Cobo Center.

This important event will explore and showcase innovative ways the U.S. Army is addressing critical capability requirements in robotics, autonomy, machine learning, and artificial intelligence to effectively operate below armed conflict and, when necessary, to fight and win across all operational domains – land, air, maritime, space and cyberspace. We will explore how the Army-Industry team can best collaborate to achieve cost-effective ground-breaking solutions to military operational challenges, seamlessly reallocate operational resources as conditions change, and do so with the speed and efficiency that adversaries cannot match.

This event provides a forum for attendees to interact and participate in discussions with senior leaders from the Army, other military services, academia and industry about the Army's efforts to develop autonomy and AI capabilities for all of the domains. It will also provide a platform for industry partners to demonstrate breakthrough technologies that could help the U.S. Army meet its operational requirements.

In this Show Guide you'll find a complete listing of all exhibiting organizations, as well as key details on how to take full advantage of our event. A special thank you to all of our great exhibitors and sponsors for making this Show Guide possible. We look forward to seeing you throughout this event.

Carter F. Ham
General, U.S. Army Retired
President & CEO
Association of the United States Army

WHY JOIN AUSA?

TREMENDOUS SUPPORT AT INCREDIBLE VALUE

FOR \$1.67 A MONTH
OR LESS

GIVE



Support
to your Army

Knowledge



Talent

Time



SAVE



25% off
University
Courses

Up to
35% off
Electronics



Up to 40% off
Event Tickets

Insurance
& Dental



\$2.75M+/yr
Educational
Resources

GET

\$1M+/yr
Soldier & Family
Programming



Representation
on Capitol Hill



Largest Land
Power Expo



In the last **10 YEARS**, members
have contributed towards...



300+ Military
Organizations & Events



\$2.8M+
in Scholarships



\$11.8M+
in Grants

Preserving
Centuries of
Army History



\$120,000+
Scholarships/yr



130,000+
Member Network



8,000+
Jobs

2,000
Employers

AUSA Career Center



\$53/yr
ARMY
Magazine



Community
Events

Instant Resume Boost
with AUSA Affiliation



Up to
25% off
Car Rentals



Up to
80% off
Office Supplies

Up to
34% off
Shipping



Up to
60% off
Hotels

MORE BENEFITS AT
WWW.AUSA.ORG/BENEFITS

JOIN TODAY AT AUSA BOOTH #204 OR WWW.AUSA.ORG/JOIN



Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 1126
Detroit, Michigan 48226

Phone 313•224•3400
Fax 313•224•4128
www.detroitmi.gov

November 28, 2018

Dear Friends and Greetings to all in attendance:



As Mayor of the City of Detroit, it is my pleasure to welcome you to our beloved city. We are honored to welcome all in attendance to the 2018 Association of the United States Army, Army Autonomy and Artificial Intelligence Symposium and Exposition where attendees will have the opportunity to explore and showcase innovative ways the U.S. Army is developing critical capabilities in robotics, autonomy, machine learning and artificial intelligence.

The theme for this year's symposium is "*Autonomy and AI to Enable Multi-Domain Operations*" and will feature speakers and panelists from the Department of Defense, senior U.S. Army leadership, other government agencies and departments, industry and academia. We are delighted that you chose Detroit to host this year's symposium.

The City of Detroit is confident that you will find the Cobo Center a perfect setting for your symposium and exposition. While you are here, I invite you to enjoy all that our city has to offer and I encourage you to visit our riverfront, museums, restaurants, and explore the heart of Detroit.

On behalf of the City of Detroit, Welcome to Detroit!

Sincerely,

Mike Duggan,
Mayor

AUSA Membership

Booth 204

Contact: Christine Lathrop

Deputy Director, Membership

2425 Wilson Boulevard

Arlington, VA 22201 United States

Telephone: +1 703-907-2681

Email: clathrop@ausa.orgWebsite: www.ausa.org/join

Membership with the Association of the United States Army (AUSA) offers tailored professional opportunities, community events, and educational materials for the Total Army—Regular, Guard, Reserve, Civilians, industry partners, retirees, veterans, family members, and supportive citizens in your local community.

Why join AUSA? For less than \$2 a month:

- Give your time, talent, and support to the world's greatest Army, preserve 240+ years of Army history, and nurture your Army community.
- Get access to the largest land power expo in North America, \$120K+ in scholarships, \$2.5M+ in educational resources, \$1M+ in Soldier and Family programming, a community of 100K+ members, career and professional opportunities, monthly subscriptions, and strong representation with the Army.
- Save big on AUSA events, travel, group insurance, event tickets, office supplies, and more. Visit Booth 204 to speak with active AUSA members, pick up free materials from AUSA's Institute of Land Warfare, and join today!

OPENING NIGHT RECEPTION (EXHIBIT HALL E)

Open to all registered attendees

Wednesday, 28 November: 1700 – 1830

REGISTRATION

Cobo Center Atrium

Tuesday, 27 November: 1400 – 1700

Wednesday, 28 November: 0700 – 1830

Thursday, 29 November: 0700 – 1500

EXHIBIT HALL HOURS

Wednesday, 28 November: 0900 – 1830

(Reception 1700 – 1830)

Thursday, 29 November: 0900 – 1500

REFRESHMENT BREAKS (EXHIBIT HALL E)

Wednesday, 28 November:

1030 – 1100

1230 – 1330

1500 – 1530

Thursday, 29 November:

1030 – 1100

1230 – 1350

ONSITE MEETING ROOMS

A limited amount of meeting space is available for use during the symposium. For more information, please visit the AUSA registration desk located in the atrium of the Cobo Center.

PRESENTATIONS & PHOTOS

Conference presentations and photos will be available online post event at: www.ausa.org/meetings

ACCESSIBILITY

The Cobo Center provides visitors with ADA compliant accessibility. Wheelchairs including electric scooters may be requested at the concourse Information Desk.

WIFI

To connect to complimentary WiFi throughout the Cobo Center, search for the wireless network named "CoboFree." Next, check mark the box to accept terms. No password is needed to access the network.

NETWORKING LOUNGE SPONSORS



**MICHIGAN
DEFENSE CENTER**
MICHIGAN ECONOMIC
DEVELOPMENT CORPORATION



FOUR STAR OPENING RECEPTION SPONSOR



GENERAL DYNAMICS

ONE STAR OPENING RECEPTION SPONSORS



GENERAL DYNAMICS
Land Systems

TUESDAY, 27 NOVEMBER1400 – 1700 REGISTRATION (*Hall E Atrium*)**WEDNESDAY, 28 NOVEMBER**

0700 – 1830 REGISTRATION – Hall E Atrium

0700 – 0800 COFFEE SERVICE – Hall E Atrium

0800 – 0805 SYMPOSIUM ADMINISTRATION, SAFETY, SECURITY
Mr. Alex Brody
 Director, Industry Programs
 Association of the United States Army

0805 – 0815 INTRODUCTION/WELCOME
GEN Carter F. Ham
 United States Army Retired
 President and Chief Executive Officer
 Association of the United States Army

0815 – 0820 WELCOME TO DETROIT
Ms. Tammy J. Carnrike
 Civilian Aide to the Secretary of the Army, Michigan
 Chief Operating Officer
 Detroit Regional Chamber

0820 – 0825 ROBOTICS DISPLAY INTRODUCTION

0825 – 0850 OPENING KEYNOTE SPEAKER
GEN John M. (Mike) Murray
 Commanding General
 United States Army Futures Command

0850 – 0915 PRESENTATION
Introduction to Multi-Domain Operations
LTG Eric J. Wesley
 Deputy Commanding General, Futures
 Director, Army Capabilities Integration Center
 United States Army Training and Doctrine Command

0900 – 1830 EXHIBIT HALL HOURS

0915 – 1030 PANEL DISCUSSION
*Autonomy and Artificial Intelligence for Continuous
 Integration of Intelligence and Fires in an A2/AD
 Environment*

Panel Chair:
Mr. Andrew P. Ladas
 Chief, Signal & Image Processing Division Lead
 Army AI Innovation Institute
 Army Research Laboratory

Moderator:
Mr. Sydney J. Freedberg Jr.
 Deputy Editor
 Breaking Defense

Panel Members:
Mr. Alexander T. Miller
 Science and Technology Advisor
 Office of the Deputy Chief of Staff, G-2
 United States Army

BG Randall A. McIntire
 Director
 Air and Missile Defense Cross Functional Team
 United States Army Futures Command

COL Jason Chung
 Assistant Chief of Staff, G-2
 United States Army Pacific

COL David S. Lee
 Chief of Staff
 Long Range Precision Fires Cross Functional Team
 United States Army Futures Command

Mr. Sri Iyer
 Chief Technology Officer
 Guidehouse Federal Advanced Projects

1030 – 1100 REFRESHMENT BREAK – Hall E

1100 – 1110 TECH TEN
Mr. Craig Powell, CD
 Vice President
 Global ISR Business Development
 Systel, Inc.

1110 – 1230 PANEL DISCUSSION
Robotics, Autonomy, and Artificial Intelligence in Small Units

Chair:
BG Richard R. (Ross) Coffman
 Director
 Next Generation Combat Vehicle Cross Functional Team
 United States Army Futures Command

Moderator:
LTC Christopher M. Korpela
 Associate Professor and Director, Robotics Research Center
 United States Military Academy

Panel Members:
Mr. Ted Maciuba, PE
 Deputy Director, Robotics Requirements
 United States Army Maneuver Center of Excellence

BG David M. Hodne
 Deputy Commanding General, Infantry
 Maneuver Center of Excellence
 Commandant, United States Army Infantry School

Mr. Armin Krishnan, PhD
 Professor & Director, Security Studies Program
 East Carolina University
 Author, “Killer Robots”

Ms. Helen Greiner
 Highly Qualified Expert for Robotics,
 Autonomous Systems, and AI
 Office of the Assistant Secretary of the Army -
 Acquisition, Logistics, and Technology
 Co-Founder, iRobot

Mr. Robert W. Sadowski, PhD
 Chief Roboticist
 United States Army Tank Automotive Research,
 Development & Engineering Center

1230 – 1330 REFRESHMENT BREAK – Hall E

1330 – 1340 TECH TEN
COL Scott D. Lathrop, PhD
 United States Army Retired
 Director of Cyber and Secure Autonomy
 Soar Technology, Inc.

WEDNESDAY, 28 NOVEMBER (CONTINUED)

1340 – 1500

PANEL DISCUSSION

Autonomy and Artificial Intelligence in Periods of Competition

Panel Chair:

Mr. Alexander Kott, PhD

Chief Scientist

United States Army Research Laboratory

Moderator:

Mr. Stephen Rodriguez

Founder, One Defense

Senior Advisor, Atlantic Council

Panel Members:

Mr. Andrew A. Hill, PhD

Chair of Strategic Leadership

United States Army War College

BG Mark W. Odom

Director, Concept Development and Learning

Army Capabilities Integration Center

United States Army Training and Doctrine Command

Dr. David Pynadath

Director, Social Simulation Research,

Institute for Creative Technologies

University of Southern California

Mr. Robert Toguchi, PhD

Chief, Concepts Division

United States Army Special Operations Command

1500 – 1530

REFRESHMENT BREAK – HALL E

1530 – 1545

TECH TEN

Mr. Jeffery Rupp

Chief Technical Officer, Chief Safety Officer

The American Center for Mobility

1545 – 1700

PANEL DISCUSSION

Autonomy and Artificial Intelligence Enabled Mission Command in Multi-Domain Operations

Panel Chair:

MG Douglas C. Crissman

Director

Mission Command Center of Excellence

Panel Moderator:

MAJ Benjamin Jensen, PhD

Senior Fellow, Atlantic Council

Professor, Marine Corps University and American University

United States Army Reserve

Panel Members:

Lt Gen Dave Deptula

United States Air Force Retired

Dean

The Mitchell Institute for Aerospace Studies

BG Christopher T. Donahue

Director, Soldier Lethality Cross Functional Team

Deputy Director, Special Operations and Counter Terrorism

J-3, Joint Staff

Dr. Peter Schwartz

Lead Enterprise Systems Engineer

The MITRE Corporation

Col James Cook

Assistant Head Concepts

Directorate of Capability

British Army

1700 – 1830

OPENING RECEPTION – EXHIBIT HALL E

open to all registered attendees

THURSDAY, 29 NOVEMBER

0700 – 1500

REGISTRATION – Hall E Atrium

0700 – 0800

COFFEE SERVICE – Hall E Atrium

0800 – 0810

OPENING REMARKS

GEN Carter F. Ham

United States Army Retired

President and Chief Executive Officer

Association of the United States Army

0810 – 0840

KEYNOTE PRESENTATION

Mr. Charles E. Freese

Executive Director, Global Fuel Cell Activities

General Motors Company

0840 – 0850

TECH TEN

Mr. Brady Moore

United States Army Retired

Cognitive Solution Leader

IBM Corporation

0850 – 0915

RE-THINKING SPACE AND ACTIONABLE AUTONOMY

Ms. Fatema Hamdani

Co-Founder and President

Kraus Aerospace

0900 – 1500

EXHIBIT HALL HOURS

0915 – 1030

PANEL DISCUSSION

Managing Autonomy and Artificial Intelligence Development and Fielding

Panel Chair and Moderator:

LTG Edward C. Cardon

United States Army Retired

Former Director, Office of Business Transformation

Office of the Under Secretary of the Army

Panel Members:

BG Matthew P. Easely

Director, Artificial Intelligence Task Force

United States Army Futures Command

Mr. Robert W. Sadowski, PhD

Chief Robotician

United States Army Tank Automotive Research,

Development and Engineering Center

Mr. Philip Perconti, PhD

Director, United States Army Research Laboratory

United States Army Research, Development and

Engineering Command

THURSDAY, 29 NOVEMBER (CONTINUED)

0915 – 1030

PANEL DISCUSSION (Continued)*Managing Autonomy and Artificial Intelligence Development and Fielding***Mr. Mike Colson**Senior Solutions Architect
Amazon Web Services**Mr. Charlie Greenbacker**Vice President, Analytics
In-Q-Tel**Mr. Michael Wagner**Co-Founder and Chief Executive Officer
Edge Case Research

1030 – 1100

REFRESHMENT BREAK

1105 – 1115

TECH TEN

Mitchell M. Rohde, PhDChief Executive Officer
Quantum Signal, LLC

1115 – 1230

PANEL DISCUSSION*Using Autonomy and Artificial Intelligence to Streamline Acquisition and Logistics*

Panel Chair:

Col. Jered P. HelwigChief of Transportation
United States Army Transportation Corps

Moderator:

Mr. Orin HoffmanAutonomy and Robotics HQE
Defense Innovation Unit

Panel Members:

MG John CharltonUnited States Army Retired
Former Commander
United States Army Test and Evaluation Command**LTG Anthony R. Ierardi**Director, Force Structure, Resources and Assessment
J-8, Joint Staff**MG Michael A. Stone**Assistant Adjutant General for Installations
Michigan Army National Guard**Mr. Amir Husain**Founder and Chief Executive Officer
SparkCognition**Mr. Bruce Busler**Director of the Joint Distribution Process Analysis Center
United States Transportation Command

1230 – 1350

REFRESHMENT BREAK – Hall E

1350 – 1400

TECH TEN

Mr. Charlie KawasakiChief Technology Officer
PacStar

1400 – 1500

PANEL DISCUSSION*The Autonomy and Artificial Intelligence Capable Force: Evolving the Institutional Army*

Chair:

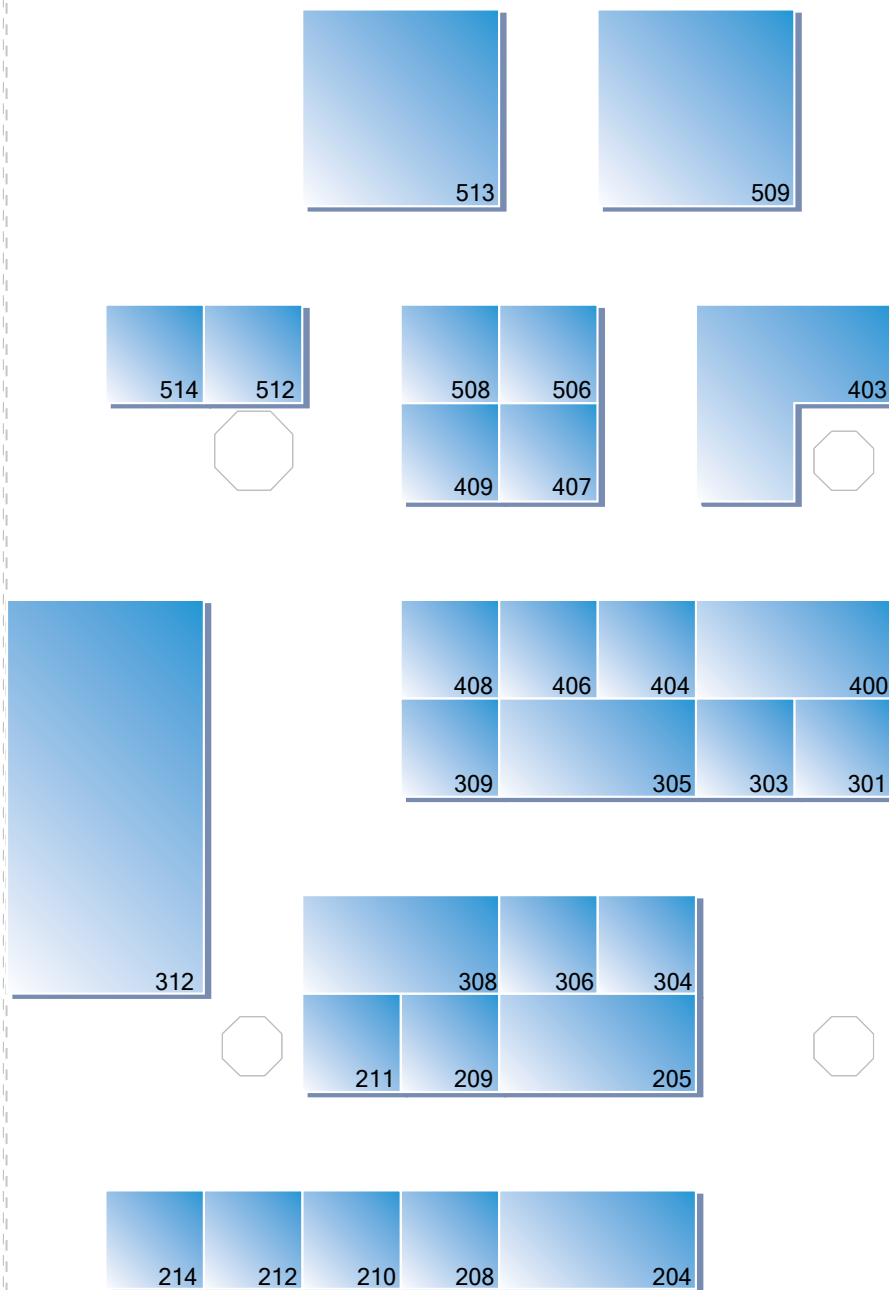
BG Joseph P. McGeeDirector, Talent Management Task Force
Office of the Deputy Chief of Staff, G1

Panel Members:

Mr. Michael Gray, PhDSenior Data Scientist
Army Analytics Group's Research Facilitation Laboratory**Mr. Bill Veenhuis**Senior Solutions Architect, Automotive
NVIDIA**COL W. Mark Valentine**United States Air Force Retired
Director, United States Army Team
Microsoft**Mr. Marc Mancher**Principal, Federal Automation
Deloitte

1500

DEPARTURE



Exhibitor Name	Booth
AAFMAA Wealth Management & Trust	409
Ace Electronics Defense Systems	304
Altair Engineering	210
AUSA - Membership	204
Crystal Group, Inc.	301
Cybernet Systems Corp.	309
Defense Mobility Enterprise	303
Defense Systems Information Analysis Center	506
FLIR Systems	305
General Dynamics Land Systems	403
Getac	404
IBM Corporation	308
iMerit	208
Kettering University	514
Macomb County + FIRST Robotics	509
Michigan Defense Center - Networking Lounge	513
MyComputerCareer.com	408
National Robotics Engineering Center	407
Neya Systems	211
PacStar	512
Perkins Technical Services, Inc.	209
Polaris Government & Defense	400
Quantum Signal LLC	508
Soar Technology, Inc.	306
Systel Rugged Computers	205
Tactical Defense Media	406
U.S. Army TARDEC	312

ENTRANCE

28-29 NOVEMBER
COBO CENTER
DETROIT, MICHIGAN

EXHIBIT HALL HOURS

Wednesday, 28 November: 0900 – 1830
(Reception 1700 – 1830)
Thursday, 29 November: 0900 – 1500

AAFMAA Wealth Management & Trust

Contact(s): Katie Gushen- Relationship Manager
 639 Executive Place Suite 200
 Fayetteville, NC 28305 United States
 Telephone: +1 248-369-5698
 Email: kgushen@aafmaa.com
 Website: www.aafmaa.com/wealth

AAFMAA Wealth Management & Trust empowers members of the armed forces community and their families with the tools to achieve financial security and independence. We are AAFMAA's trust company, providing servicemembers and Veterans from all branches with expert financial planning, investment management, and trust services, bound by a fiduciary standard of care for you. AAFMAA is the longest-standing, not-for-profit association exclusively serving the military with affordable financial solutions.

Categories: Banking / Financial Institutions, Financial Institutions, Military Organization, Non Profit Associations

Booth: 409**Ace Electronics Defense Systems, LLC**

Contact(s): Devin Daley
 6210 Guardian Gateway, Suite 150
 Aberdeen Proving Ground, MD 21005 USA
 Telephone: +1 732-603-9800
 Email: ddaley@aceelectronics.com
 Website: www.AceElectronics.com

Ace Electronics Defense Systems is a privately owned Service-Disabled Veteran-Owned Small Business, SDVOSB, which manufactures custom cable assemblies and electronics. We specialize in electronic manufacturing and providing engineering support services. Ace Electronics Defense Systems supports all military branches throughout the world with Mil-Spec and Aerospace manufactured products. We pride ourselves on being 100% committed to meeting the specific requirements in defense contracting.

Categories: Command and Control Systems and Components (C4I), Communications Systems and Equipment, Electrical Equipment; Batteries and Power Supply, Electronics; Subsystems and Components, Manufacturing; Engineering and Test Equipment

Booth: 304**Altair Engineering, Inc**

Contact(s): Stacey Holman
 1820 E. Big Beaver Road
 Troy, MI 48083 United States
 Telephone: +1 248-614-2400
 Email: sholman@altair.com
 Website: altair.com

Altair transforms design and decision making by applying simulation, machine learning and optimization throughout product life cycles. Our broad portfolio of simulation technology and patented units-based software licensing model enable Simulation-Driven Innovation for our customers. With more than 2,000 employees, Altair is headquartered in Troy, Michigan, USA and operates 69 offices throughout 24 countries. Altair serves more than 5,000 customers across broad industry segments. To learn more, please visit www.altair.com.

Categories: Other

Booth: 210**AUSA Membership****Booth: 204**

Contact(s): Christine Lathrop
 2425 Wilson Boulevard
 Arlington, VA 22201 USA
 Telephone: +1 703-907-2681
 Email: clathrop@ausa.org
 Website: www.ausa.org



Membership with the Association of the United States Army (AUSA) offers tailored professional opportunities, community events, and educational materials for the Total Army—Regular, Guard, Reserve, Civilians, industry partners, retirees, veterans, family members, and supportive citizens in your local community.

Visit the AUSA booth to find more about AUSA member benefits, pick up free materials from AUSA's Institute of Land Warfare, and join today for less than \$2 a month!

Categories: Events and Publications, Non Profit Associations, Universities and Educational Organizations

Crystal Group Inc**Booth: 301**

Contact(s): Jakelyn Coon
 855 Metzger Drive
 Hiawatha, IA 52233 USA
 Telephone: +1 319-378-1636
 Email: jcoon@crystalrugged.com
 Website: www.crystalrugged.com

Crystal Group, leading rugged computer hardware manufacturer, offering design, engineering, integration, configuration management, lifecycle planning & 5+ year warranties of rugged servers, displays, power supplies, storage, embedded, networking devices for high reliability in harsh environments. We are an employee-owned small business founded in 1987, located in Hiawatha, Iowa, USA. Our products meet/exceed IEEE, IEC, and MIL-STD-810, 167, 461, MIL-S-901. NIST compliant and certified to AS9100D.

Categories: Command and Control Systems and Components (C4I), Communications Systems and Equipment, Cyber Security, Data Recording and Storage, Electrical Equipment; Batteries and Power Supply, Electronics; Subsystems and Components, Rugged Computers; Workstations and Peripherals, Unmanned Systems

Cybernet Systems Corporation**Booth: 309**

Contact(s): Glenn Beach
 3741 Plaza Drive
 Ann Arbor, Michigan 48108 USA
 Telephone: +1 734-668-2567
 Email: info@cybernet.com
 Website: www.cybernet.com

Cybernet, a small business, is committed to advancing human performance through advanced technology. Cybernet's Michigan HQ focuses on technologies that improve processes through the targeted application of autonomy, automation, and artificial intelligence, including driverless and driver-assisted logistical robotics, human-computer interaction, sensor and image processing, and hardware development. The Florida office focuses on Cybersecurity support and product development.

Categories: Cyber Security, Logistics; Transportation; Supply and Spares, Materials Handling and Packaging, Unmanned Systems

Defense Mobility Enterprise

Contact(s): Alissa Roath
3025 Boardwalk, Suite 130
Ann Arbor, MI 48108 USA
Telephone: +1 734-205-5920
Email: questions@NAMConsortium.org
Website: www.defensemobility.org

The Defense Mobility Enterprise is a single consortium of Government laboratories and program offices managed by the Acquisition Management Office located at the Detroit Arsenal, and an industry/academic component - the National Advanced Mobility Consortium. The DME operates under an Other Transaction Agreement enabling the Government and industry to quickly and effectively develop innovative ground vehicle prototype technology solutions to the warfighter. Join NAMC at www.namconsortium.org.

Categories: Non Profit Associations, Unmanned Systems, Other

Booth: 303**General Dynamics Land Systems**

Contact(s): Jackie Roskopp
38500 Mound Road
Sterling Heights, MI 48310 USA
Telephone: +1 586-825-4653
Email: roskoppj@gdls.com
Website: www.gdls.com

General Dynamics Land Systems provides innovative design, engineering, technology, production and full life-cycle support for land combat vehicles around the globe. The company's extensive experience, customer-first focus and seasoned supply chain network provide unmatched capabilities to the U.S. military and its allies.

Categories: Manufacturing; Engineering and Test Equipment, Military and Special Purpose Vehicles

Booth: 403**Defense Systems Information Analysis Center**

Contact(s): Brian Benesch
4695 Millennium Drive
Belcamp, MD 21017 USA
Telephone: +1 443-360-4600
Email: brian.benesch@dsiac.org
Website: www.dsiac.org

The Defense Systems Information Analysis Center (DSIAC) is a component of the U.S. Department of Defense's Information Analysis Center (IAC) enterprise, under the oversight of the Under Secretary of Defense for Research and Engineering (USDR&E) and the Defense Technical Information Center (DTIC). The purpose of DSIAC is to provide information research and analysis for DoD and Federal government users to stimulate innovation, foster collaboration, and eliminate redundancy.

Categories: Ammunition and Fuzes, Armoured Fighting Vehicles and Upgrades, Artillery and Mortars, Body Armor or Apparel, Bridging; Recovery; Breaching and Engineering, Command and Control Systems and Components (C4I), Communications Systems and Equipment, Countermeasures; Camouflage and Pyrotechnics, Cyber Security, Data Recording and Storage, Design and Information Management Software, Electrical Equipment; Batteries and Power Supply, Electromechanical and Electrohydraulic Equipment, Electronic Warfare and Jamming Systems, Electronics; Subsystems and Components, Events and Publications, Explosive Ordnance Disposal and Mine Clearance, Explosives; Powders and Propellants, Fire and Explosion Protection, Fire Control and Targeting, Government Organization, Helicopters, Machine Guns; Small Arms and Sights, Manufacturing; Engineering and Test Equipment, Military Vehicle Parts and Spares, Missiles; Rockets and Components, Navigation and Satellite Communications, Noise; Shock and Vibration Control, Optronics; Surveillance and Sighting Systems, Personal Protection; Medical and Survival Equipment, Propulsion; Transmission and Components, Tactical Gear, Technical Publications and Media, Tracks; Wheels; Tyres and Runflats, Training and Simulation, Turrets and Turret Sub-systems, Unmanned Aircraft Systems, Unmanned Systems, Vehicle Ballistic Protection, Other

Booth: 506**Getac**

Contact(s): Keri Bolding
15495 Sand Canyon Avenue, Suite 350
Irvine, CA 92618 USA
Telephone: +1 949-390-4852
Email: Keri.Bolding@getac.com
Website: www.getac.com

Since 1989, Getac has been manufacturing rugged computers for some of the most demanding users in the harshest environments. As a leading rugged computer manufacturer, Getac offers the most extensive rugged computing product line, including notebook and tablet computers. Getac products can be found across the globe in every branch of the U.S. military, including DoD deployments and federal civilian agencies where reliability is crucial to mission success.

Categories: Command and Control Systems and Components (C4I), IT; Computing and Software, Materials Handling and Packaging, Rugged Computers; Workstations and Peripherals

Booth: 404**IBM**

Contact(s): Roy Harris
2300 Dulles Station West
Herndon, VA 20170 USA
Telephone: +1 888-426-4968
Email: harrisar@us.ibm.com
Website: <http://www.ibm.com/federal>

Welcome to the cognitive era, in which systems understand, reason, learn and interact. Cognitive systems ingest data to deliver insights, fostering better decision-making and amplifying agility in an increasingly complex threat environment. Compelling applications for defense include fleet readiness and maintenance, cybersecurity, imagery analysis and situational understanding. Are you ready for this new era?

For more information, go to ibm.com/national-security

Categories: Cyber Security, Data Recording and Storage, Design and Information Management Software, IT; Computing and Software, Training and Simulation

Booth: 308**FLIR Systems, Inc.**

Contact(s): Olga Wheeler
27700 SW Parkway Avenue
Wilsonville, OR 97070 USA
Telephone: +1 971-770-4846
Email: Olga.Wheeler@flir.com
Website: www.flir.com

FLIR is a leader in the design and manufacturing of sensor systems that enhance perception and awareness. The U.S. Army uses FLIR's advanced thermal imaging and threat detection systems for a variety of applications, including airborne and ground surveillance, targeting, search and rescue, and CBRNE detection. Strategic development and investments enable FLIR to be forward-looking in enhancing systems with AI, allowing Soldiers to more quickly and accurately make mission-critical decisions.

Categories: Base / Camp Protection and Security, Optronics; Surveillance and Sighting Systems, Unmanned Aircraft Systems, Unmanned Systems

Booth: 305**iMerit**

Contact(s): Robert Frary
14435C Big Basin Way, #256
Saratoga, California 95070 USA
Telephone: +1 650-777-7857
Email: info@imerit.net
Website: <https://imerit.net/>

iMerit provides high-volume data labeling services using an in-house workforce of 1,500+ full time data technicians domestically and abroad. We specialize in image/video, text, and audio data with over 30 million data points labeled to date. We stand apart with our balance of scalability, consultation, data security, competitive pricing, and quality. Whether you're just starting a labeling project or are well underway, we would love to connect and explore ways we can support your team.

Categories: Data Recording and Storage, IT; Computing and Software, Military and Special Purpose Vehicles, Navigation and Satellite Communications, Optronics; Surveillance and Sighting Systems, Training and Simulation, Unmanned Aircraft Systems, Unmanned Systems, Other

Booth: 208

Kettering University

Contact(s): Michael Ciesielski
1700 University Ave.
Flint, Michigan 48504 United States
Telephone: +1 586-489-4393
Website: Kettering.edu
Email: MCiesielski@Kettering.edu

Kettering University is a national leader in experiential STEM and Business education, integrating an intense academic curriculum with applied professional experience. Through this proven approach, we inspire students to realize their potential and advance their ideas by combining theory and practice better than any institution in the world. This year we are celebrating our Centennial and the future of education, built a century ago.

Categories: Universities and Educational Organizations

Booth: 514**Macomb County + FIRST Robotics**

Contact(s): Vicky Rad
1 South Main, 7th Floor
Mount Clemens, MI 48043 United States
Telephone: +1 586-469-5065
Email: vicky.rad@macombgov.org
Website: www.macombbusiness.com

FIRST Robotics inspires young people to become STEM leaders through mentor-based programs and competitions that involve raising funds, honing skills and building robots. It's as close to real-world engineering as a student can get. Macomb County, Mich. is fueling its talent pipeline by supporting its 16 FIRST Robotics high school teams. Stop by Booth 509 to meet these students, experience their innovations and learn why FIRST Robotics is an integral part of building a workforce for the future.

Categories: Government Organization, Other

Booth: 509**Michigan Defense Center Networking Lounge**

Contact(s): Vicki Selva
6633 18 Mile Road
Sterling Heights, MI 48314 United States
Telephone: +1 586-469-5065
Email: vickiselva@ymail.com
Website: ArsenalofInnovation.com

The Michigan Defense Center provides resources and guidance to businesses, stakeholders, and partners to protect and grow Michigan's defense economy and missions. As the automotive capital of the world and home to internationally renowned universities, 375 innovation and testing labs, U.S. Army Centers for current and next generation vehicles, Michigan has the infrastructure and talent to support your needs. We are Michigan's Arsenal of Innovation.

Please visit us: www.arsenalofinnovation.com

Categories: Government Organization

Booth: 513**MyComputerCareer**

Contact(s): Joseph King
346 Raleigh Street
Holly Springs, NC 27540 United States
Telephone: +1 919-440-5951
Email: josephk@mycomputercareer.edu
Website: www.mycomputercareer.edu/military

MyComputerCareer is an accredited college for aspiring IT professionals. Founded in 2007 in NC with a focus on career development through certification, the school now serves over 4000 students nationwide at seven campuses and its LIVE ONLINE program. MyComputerCareer has been serving active and veteran military members since inception. Veterans may use GI Bill and other VA benefits to attend. The school recently launched Cyber Warrior Training to serve IT professionals within the armed forces.

Categories: Cyber Security, IT; Computing and Software

Booth: 408**National Robotics Engineering Center**

Contact(s): Robert Toth
10 40th Street
Pittsburgh, PA 15201-3209 USA
Telephone: +1 412-683-4147
Email: rtoth@nrec.ri.cmu.edu
Website: <https://www.nrec.ri.cmu.edu/nrec/>

NREC is home to 120 world leading robotics experts that delivers advanced autonomous systems to the DoD. Our programs place NREC at the forefront in unmanned ground vehicle design, autonomy, sensing and perception, machine learning, machine vision, autonomous navigation, humanoid, manipulation, operator assistance, robotic safety, as well as, testing and validation. NREC offers the best robotics technology, capabilities and systems for DoD operations and missions. Stop by our booth to know more.

Categories: Universities and Educational Organizations, Unmanned Systems

Booth: 407**Neya Systems**

Contact(s): Kurt Bruck
555 Keystone Drive
Warrendale, PA 15086 United States
Telephone: +1 617-505-9257
Email: kurtb@neyasystems.com
Website: neyasystems.com

Neya Systems, LLC, is a 40-person unmanned systems company in Warrendale (Pittsburgh), PA. Our expertise includes off-road autonomy in unstructured natural environments, multi-robot mission planning and collaboration, interoperability, and open architectures. Neya works with Government and industry customers to provide custom autonomy solutions to challenging outdoor problem. Neya is a wholly owned subsidiary of Applied Research Associates.

Categories: Unmanned Systems

Booth: 211**PacStar**

Contact(s): Charlie Kawasaki
15055 SW Sequoia Parkway, Suite 100
Portland, OR 97224 United States
Telephone: +1 503-403-3000
Email: info@pacstar.com
Website: pacstar.com

PacStar is a leading provider of advanced C4ISR solutions for a wide range of military, intelligence and commercial applications. PacStar designs and manufactures COTS-based rugged, small form factor expeditionary and mobile C4ISR systems. Separately, it develops IQ-Core® Software, a family of integrated network management software for the military, intelligence, federal, and first responder markets. For additional information, please visit <https://pacstar.com>, LinkedIn and Twitter @pacstarcomm.

Categories: Communications Systems and Equipment, Cyber Security

Booth: 512**Perkins Technical Services, Inc.**

Contact(s): Sheila Cain
1318 B Putman Dr.
Huntsville, Alabama 35816 USA
Telephone: +1 256-539-6787
Email: info@pts-inc.com
Website: www.pts-inc.com

Perkins Technical Services, Inc. manufactures and integrates components of the tactical radio Expeditionary Kit (E-Kit™) enabling Soldiers to quickly establish tactical communications in a Command Post (CP). Components of the E-Kit™ include a radio power supply docking station, a portable DC power supply, an integrated mast/antenna and a cross-banding capability. The E-Kit™ provides Soldiers operational radios in a CP in 15 minutes or less and supports currently fielded tactical radios.

Categories: Electrical Equipment; Batteries and Power Supply

Booth: 209

Polaris Government & Defense

Contact(s): Laurie Jacobsma
2100 Highway 55
Medina, MN 55340 USA
Telephone: +1 763-542-1338
Email: laurie.jacobsma@polaris.com
Website: polaris.com/gov

Polaris vehicles are forged from more than 60 years of off-road innovation and leadership. The commercial prowess and innovative culture of Polaris Industries are leveraged to deliver unique value to government entities and military forces worldwide. This dedicated division provides highly capable, simple to use and affordable mobility platforms and vehicles that are readily available through easy procurement channels and supported through lifecycle training, service and maintenance from Polaris.

Categories: Military and Special Purpose Vehicles, Unmanned Systems

Booth: 400**Tactical Defense Media**

Contact(s): SoniaB@tacticaldefensemedia.com
PO Box 12115, Leisure World Plaza
Silver Spring, MD 20908-0115 USA
Telephone: +1 301-974-9792
Email: SoniaB@tacticaldefensemedia.com
Website: www.tacticaldefensemedia.com

Tactical Defense Media publications provide insight into DoD programs and industry technologies supporting joint force ops, mounted/dismounted protection systems, intel/comms applications, and training. TDM collects expert opinion on best practices/lessons learned by military/civilian authority, law enforcement and first responders. Titles: Armor & Mobility, Combat & Casualty Care, Security & Border and CST/CBRNE, Unmanned Tech Solutions, DoD Power & Energy, Naval Power & Force Projection.

Categories: Technical Publications and Media

Booth: 406**Quantum Signal, LLC**

Contact(s): Dr. Mitchell Rohde
200 N. Ann Arbor Street
Saline, MI 48176 United States
Telephone: +1 734-429-9100
Email: rohde@quantumsignal.com
Website: www.quantumsignal.com

Quantum Signal (QS) is an advanced engineering research and product development firm, with special expertise and experience in mobile robotics, autonomy, augmented and long-range teleoperation, perception and control, and real-time modeling and simulation. QS is the creator and core developer of the ANVEL UGV engineering simulation toolset, which is used worldwide to develop robust, safe, and effective robotic capabilities. For more information, see quantumsignal.com or anvelsim.com.

Categories: Command and Control Systems and Components (C4I), IT, Computing and Software, Training and Simulation, Unmanned Systems

Booth: 508**U.S. Army Tank Automotive Research, Development and Engineering Center**

Contact(s): Doug Halleaux
6501 E. 11 Mile Rd.
ATTN: RDTA-COS-CO
Warren, MI 48397-5000 United States
Telephone: +1 586-282-8543
Email: douglas.g.halleaux.civ@mail.mil
Website: https://tardec.army.mil/

As the U.S. Army Research, Development and Engineering Command's Ground Vehicle Systems Center, U.S. Army TARDEC is the Department of Defense's foremost research, development and engineering center for ground vehicle technology. Headquartered at Detroit Arsenal in Warren, Michigan, TARDEC is the Army's lead integrator for these emerging technologies onto ground vehicle systems and develops technology independently and with its collaborative partners in the defense and automotive industries.

Categories: Armoured Fighting Vehicles and Upgrades, Government Organization, Military and Special Purpose Vehicles, Military Vehicle Parts and Spares, Unmanned Systems

Booth: 312**Soar Technology, Inc.**

Contact(s): Lindsay Bayles
3600 Green Court Suite 600
Ann Arbor, MI 48105 USA
Telephone: +1 734-887-7609
Email: lindsay.bayles@soartech.com
Website: www.soartech.com

SoarTech is an AI company based in Ann Arbor, MI. Since 1998, we've modeled human behavior for the U.S. DoD to create software that "thinks the way people think:" constantly learning, getting smarter, and adapting to land, air, sea and cyber environments. Our computational cognitive architecture powers autonomous software agents that can reason over large amounts of human-level knowledge. The end result for users is a system that is not just a tool in their hands, but a thinking partner.

Categories: Command and Control Systems and Components (C4I), Cyber Security, Training and Simulation, Unmanned Systems

Booth: 306**Systel Rugged Computers**

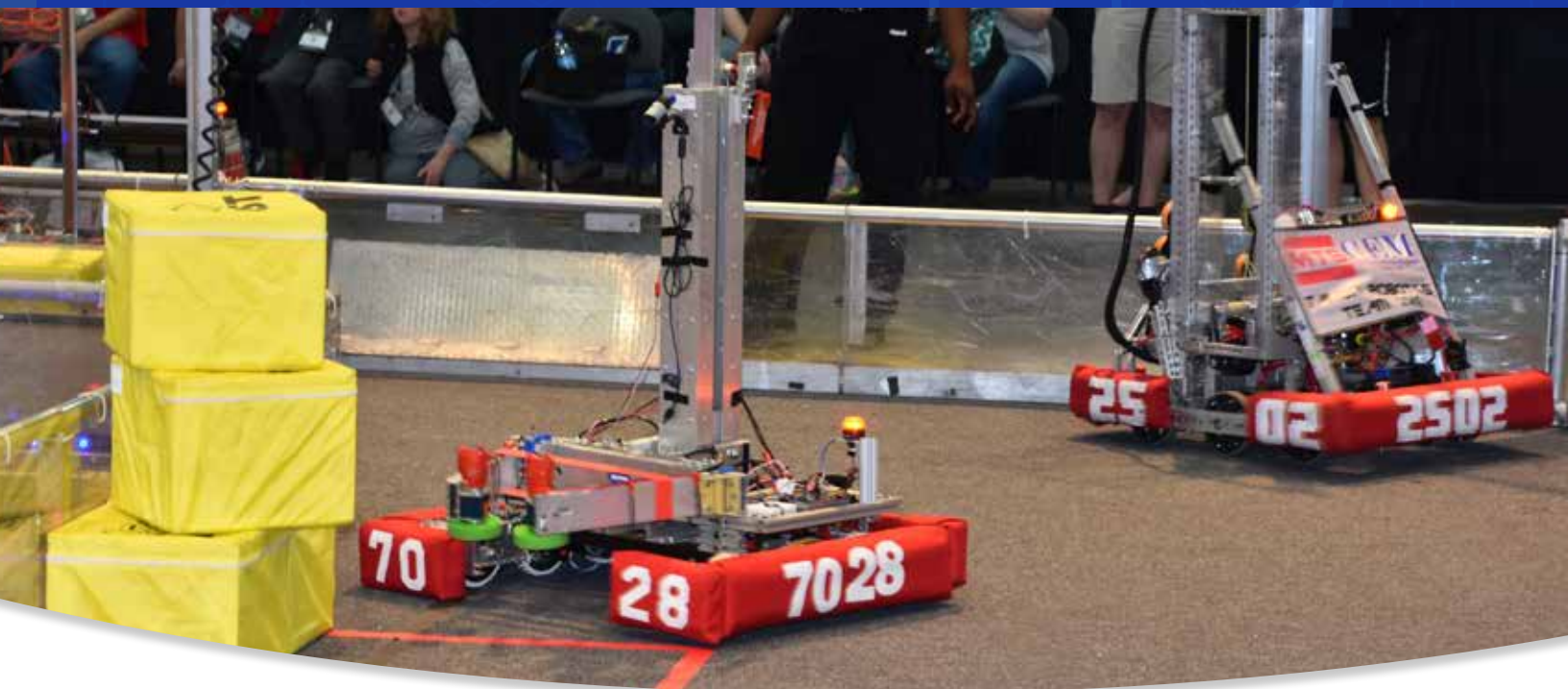
Contact(s): Aneesh Kothari
1655 Industrial Boulevard
Sugar Land, TX 77478 USA
Telephone: +1 281-207-7781
Email: akothari@systelusa.com
Website: www.systelusa.com

Systel is a rugged computer manufacturer, offering next-generation computing solutions enabling machine learning and artificial intelligence capability. Systel has 30 years of experience in providing complex and advanced computer technologies supporting numerous programs and platforms, including some of the most advanced military vehicles. Systel's rugged high-density mission computers act as a single LRU for multi-sensor data fusion, edge computing, and network distribution and storage.

Categories: Command and Control Systems and Components (C4I), Communications Systems and Equipment, Data Recording and Storage, Electronics; Subsystems and Components, IT; Computing and Software, Rugged Computers; Workstations and Peripherals

Booth: 205

MACOMB COUNTY FUELING THE TALENT PIPELINE through **FIRST** Robotics



Nearly 84,000 Michigan
high school students
participate in FIRST Robotics



50% of all corporations that
sponsor FIRST teams

hire one or more FIRST Robotics
students for internships



These students are 2x more likely to
major in a science or engineering
field than non-program participants



Almost 60% of FIRST alumni
had at least one science or technology -
related work experience



Learn more at
MacombBusiness.com

Ammunition and Fuzes

Defense Systems Information Analysis Center 13

Armoured Fighting Vehicles and Upgrades

Defense Systems Information Analysis Center 13

U.S. Army Tank Automotive Research, Development and
Engineering Center 15

Artillery and Mortars

Defense Systems Information Analysis Center 13

Banking/Financial Institutions

AAFMAA Wealth Management & Trust 12

Base/Camp Protection and Security

FLIR Systems, Inc. 13

Body Armor or Apparel

Defense Systems Information Analysis Center 13

Bridging; Recovery; Breaching and Engineering

Defense Systems Information Analysis Center 13

Command and Control Systems and Components (C4I)

Ace Electronics Defense Systems, LLC 12

Crystal Group Inc. 12

Defense Systems Information Analysis Center 13

Getac 13

Quantum Signal, LLC 15

Soar Technology, Inc. 15

Systel Rugged Computers 15

Communications Systems and Equipment

Ace Electronics Defense Systems, LLC 12

Crystal Group Inc. 12

Defense Systems Information Analysis Center 13

PacStar 14

Systel Rugged Computers 15

Countermeasures; Camouflage and Pyrotechnics

Defense Systems Information Analysis Center 13

Cyber Security

Crystal Group Inc. 12

Cybernet Systems Corporation 12

Defense Systems Information Analysis Center 13

IBM 13

MyComputerCareer 14

PacStar 14

Soar Technology, Inc. 15

Data Recording and Storage

Crystal Group Inc. 12

Defense Systems Information Analysis Center 13

IBM 13

iMerit. 13

Systel Rugged Computers 15

Design and Information Management Software

Defense Systems Information Analysis Center 13

IBM 13

Electrical Equipment; Batteries and Power Supply

Ace Electronics Defense Systems, LLC 12

Crystal Group Inc. 12

Defense Systems Information Analysis Center 13

Perkins Technical Services, Inc. 14

Electromechanical and Electrohydraulic Equipment

Defense Systems Information Analysis Center 13

Electronic Warfare and Jamming Systems

Defense Systems Information Analysis Center 13

Electronics; Subsystems and Components

Ace Electronics Defense Systems, LLC 12

Crystal Group Inc. 12

Defense Systems Information Analysis Center 13

Systel Rugged Computers 15

Events and Publications

AUSA Membership 12

Defense Systems Information Analysis Center 13

Explosive Ordnance Disposal and Mine Clearance

Defense Systems Information Analysis Center 13

Explosives; Powders and Propellants

Defense Systems Information Analysis Center 13

Financial Institutions

AAFMAA Wealth Management & Trust 12

Fire and Explosion Protection

Defense Systems Information Analysis Center 13

Fire Control and Targeting

Defense Systems Information Analysis Center 13

Government Organization

Defense Systems Information Analysis Center 13

Macomb County + FIRST Robotics 14

Michigan Defense Center Networking Lounge 14

U.S. Army Tank Automotive Research, Development and Engineering Center 15

Helicopters

Defense Systems Information Analysis Center 13

IT; Computing and Software

Getac 13

IBM 13

iMerit 13

MyComputerCareer 14

Quantum Signal, LLC 15

Systel Rugged Computers 15

Logistics; Transportation; Supply and Spares

Cybernet Systems Corporation 12

Machine Guns; Small Arms and Sights

Defense Systems Information Analysis Center 13

Manufacturing; Engineering and Test Equipment

Ace Electronics Defense Systems, LLC 12

Defense Systems Information Analysis Center 13

General Dynamics Land Systems 13

Materials Handling and Packaging

Cybernet Systems Corporation 12

Getac 13

Military and Special Purpose Vehicles

General Dynamics Land Systems 13

iMerit 13

Polaris Government & Defense 15

U.S. Army Tank Automotive Research, Development and Engineering Center 15

Military Organization

AAFMAA Wealth Management & Trust 12

Military Vehicle Parts and Spares

Defense Systems Information Analysis Center 13

U.S. Army Tank Automotive Research, Development and Engineering Center 15

Missiles; Rockets and Components

Defense Systems Information Analysis Center 13

Navigation and Satellite Communications

Defense Systems Information Analysis Center 13

iMerit 13

Noise; Shock and Vibration Control

Defense Systems Information Analysis Center 13

Non Profit Associations

AAFMAA Wealth Management & Trust 12

AUSA Membership 12

Defense Mobility Enterprise 13

Optronics; Surveillance and Sighting Systems

Defense Systems Information Analysis Center 13

FLIR Systems, Inc. 13

iMerit 13

Other

Altair Engineering, Inc. 12

Defense Mobility Enterprise 13

Defense Systems Information Analysis Center 13

iMerit 13

Macomb County + FIRST Robotics 14

Personal Protection; Medical and Survival Equipment

Defense Systems Information Analysis Center	13
Propulsion; Transmission and Components	13
Defense Systems Information Analysis Center	13

Rugged Computers; Workstations and Peripherals

Crystal Group Inc	12
Getac	13
Systel Rugged Computers	15

Tactical Gear

Defense Systems Information Analysis Center	13
---	----

Technical Publications and Media

Defense Systems Information Analysis Center	13
Tactical Defense Media	15

Tracks; Wheels; Tyres and Runflats

Defense Systems Information Analysis Center	13
---	----

Training and Simulation

Defense Systems Information Analysis Center	13
IBM	13
iMerit.	13
Quantum Signal, LLC	15
Soar Technology, Inc.	15

Turrets and Turret Sub-systems

Defense Systems Information Analysis Center	13
---	----

Universities and Educational Organizations

AUSA Membership	12
Kettering University	14
National Robotics Engineering Center	14

Unmanned Aircraft Systems

Defense Systems Information Analysis Center	13
FLIR Systems, Inc.	13
iMerit.	13

Unmanned Systems

Crystal Group Inc	12
Cybernet Systems Corporation	12
Defense Mobility Enterprise	13
Defense Systems Information Analysis Center	13
FLIR Systems, Inc.	13
iMerit.	13
National Robotics Engineering Center	14
Neya Systems	14
Polaris Government & Defense	15
Quantum Signal, LLC	15
Soar Technology, Inc.	15
U.S. Army Tank Automotive Research, Development and Engineering Center	15

Vehicle Ballistic Protection

Defense Systems Information Analysis Center	13
---	----

A group of soldiers in camouflage uniforms and helmets are standing in a formation, looking towards the right. The image is overlaid with a semi-transparent blue 'P' shape.

PLAN

Technology augmenting human plans.

Two F-35 fighter jets are shown in flight against a cloudy sky. The image is overlaid with a semi-transparent blue 'D' shape.

DECIDE

Technology informing human decisions.

A group of naval deck crew members in yellow safety vests and headsets are standing on the deck of a ship. The image is overlaid with a semi-transparent blue 'A' shape.

ACT

Technology enhancing human actions.

SoarTech is an AI research company headquartered in Ann Arbor, MI. Since 1998, we've studied and modeled human behavior for the U.S. DoD to create software that "thinks the way people think": constantly learning, getting smarter, and adapting to land, air, sea and cyber environments. Our computational cognitive architecture powers autonomous software agents that can reason over large amounts of human-level knowledge. The end result for users is a system that is not just a tool in their hands, but a thinking partner.

Learn more about SoarTech at booth #306



AUSA

2019 ANNUAL MEETING & EXPOSITION

A Professional Development Forum

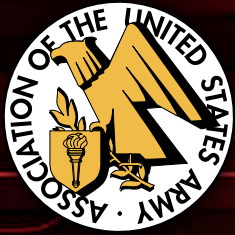


14-16 OCTOBER 2019

WALTER E. WASHINGTON CONVENTION CENTER
WASHINGTON, DC

EXHIBITS
Natalie Norris
nnorris@ausa.org

SPONSORSHIPS
Gaye Hudson
ghudson@ausa.org



GLOBAL FORCE

SYMPOSIUM & EXPOSITION

26-28 MARCH 2019 | HUNTSVILLE, AL | WWW.AUSA.ORG/GF

MISSION: DEFEAT ENEMY

SPOTREP:

ALPHA: BLUE COMMAND

BRAVO: SALUTE, LOADING...

CHARLIE: OBSERVATION, STAND BY

DELTA: SELF-AUTHENTICATION

INITIATING SYSTEMS 1...

CURRENT HEALTH STATUS

cHIBP	HR	RESP	SpO2%	Temp
120	69	14	97	98.6
80 (93) metHg				



6,500
Attendees



200+
Exhibits



50+
Sessions

A PROFESSIONAL DEVELOPMENT FORUM

**EXHIBIT SPACE &
SPONSORSHIPS AVAILABLE**

EXHIBITS

Natalie Norris
nnorris@ausa.org

SPONSORSHIPS

Gaye Hudson
ghudson@ausa.org