NDIA

2017
Ground Robotics Capabilities Conference & Exhibition

Preparing for the Third Offset

March 22–23, 2017
Waterford, Springfield, VA

TUESDAY, MARCH 21, 2017

12:00PM – 5:00PM REGISTRATION OPEN

12:00PM – 5:00PM EXHIBITOR MOVE-IN

WEDNESDAY, MARCH 22, 2017

7:00AM – 6:00PM REGISTRATION OPEN

7:00AM – 8:00AM NETWORKING CONTINENTAL BREAKFAST

8:00AM – 8:15AM OPENING REMARKS
Mr. Jorgen Pedersen, *Chairman, NDIA Robotics Division; President & CEO, RE^2, Inc.*

8:15AM – 8:45AM OUSD ROBOTICS
Mr. Robert Gold, *Director, Engineering Enterprise, Office of the Under Secretary of Defence (ATL)*

8:45AM – 9:15AM ROBOTICS ADDRESS
Mr. Paul Scharre, *Senior Fellow and Director of the Future of Warfare Initiative, The Center for a New American Security*

9:00AM – 6:00PM EXHIBIT AREA OPEN

9:15AM – 9:45AM ARMY ROBOTICS
BG John George, USA, *Director, Capabilities Developments Directorate, Army Capabilities Integration Center*

9:45AM – 10:15AM DARPA ROBOTICS
Mr. Brad Tousley, *Office Director, Tactical Technology Office, Defense Advanced Research Projects Agency*

10:15AM – 10:45AM NETWORKING BREAK IN THE EXHIBIT AREA

10:45AM – 12:00PM WHERE IOP, VICTORY AND ROS-M CONVERGE PANEL
Moderator: Mr. Will Thomasmeyer, *Consultant, National Advanced Mobility Consortium*

Panelists:

- Mr. Orin Hoffman, *Autonomy and Robotics, HQE, DIUx*
- Mr. Mark Mazzara, *Robotics Interoperability Lead, PM Force Projection*
- Mr. Michael Moore, *President, Senior SME, Moore Integrity Engineering*
- Mr. David Stone, *GCE Project Officer Robotics, Marine Corps Warfighting Lab, Science and Technology Division*

12:00PM – 12:30PM AWARDS CEREMONY

12:30PM – 1:45PM NETWORKING LUNCHEON

1:45PM – 2:15PM AIR FORCE ROBOTICS
Dr. Robert Diltz, *Robotics Program Manager, Air Force Civil Engineer Center/AFCEC/CXAE*

2:15PM – 2:45PM COUNTERING UNMANNED SYSTEMS
Mr. Chris O'Donnell, *Director, Joint Rapid Acquisition Cell Executive Secretary, Warfighter Senior Integration Group*

2:45PM – 3:15PM DIUX AUTONOMY PRESENTATION
Mr. Orin Hoffman, *Autonomy and Robotics, HQE, DIUx*

3:15PM – 3:45PM NETWORKING BREAK IN THE EXHIBIT AREA

3:45PM – 5:00PM COMMON CONTROL ARCHITECTURE PANEL
Moderator: Dr. Parag Batavia, *President, Neya Systems, LLC*

Panelists:

- Mr. Jeff Hyams, *Senior Software Engineer, Neya Systems, LLC*
- Mr. Tom Phelps, *Director of New Products, Endeavor Robotics*
- Mr. Dave Rusbarsky, *Senior Software Engineer, RE^2 Robotics*
- Mr. Matt Waters, *Senior Project Manager, Dynetics (Invited)*
- Mr. Jun Yu, *Technical Program Manager, Unmanned Systems, QinetiQ North America (Invited)*

5:00PM – 6:00PM NETWORKING RECEPTION IN THE EXHIBIT AREA

THURSDAY, MARCH 23, 2017

7:00AM – 2:45PM REGISTRATION OPEN

7:00AM – 8:00AM NETWORKING CONTINENTAL BREAKFAST

8:00AM – 8:30AM OPENING KEYNOTE ADDRESS
LTG Joseph Anderson, USA, *HQDA Deputy Chief of Staff, G-3/5/7*

8:30AM – 9:00AM TARDEC ROBOTICS
Dr. Paul Rogers, *Director, U.S. Army Tank Automotive Research Development & Engineering Center*

9:00AM – 1:00PM EXHIBIT AREA OPEN

9:00AM – 9:30AM ARL ROBOTICS
Mr. Dan Baechle, *Mechanical Engineer, U.S. Army Research Laboratory (Invited)*
Mr. Harris Edge, *Army Research Lab*

9:30AM – 10:00AM NETWORKING BREAK IN THE EXHIBIT AREA

10:00AM – 11:15AM UNMANNED SYSTEMS TESTING PANEL
Moderator: Mr. Bob Mawson, *QinetiQ-North America*

Panelists:

- Mr. Adam Bennett, T*est and Training Lead, Robotic Logistics Support Center (RLSC)*
- Ms. Jean Imboden, *Test Lead, PM UGV*
- Mr. Brian Wise, *Senior Test Officer, Army Test and Evaluation Command (ATEC)*
- Mr. Dave Stone, *Marine Corp Warfighting Lab (MCWL)*
- Mr. Michael Kastanas, *QinetiQ-North America (QNA)*

11:15AM – 11:45AM NAVY EOD ROBOTICS
Mr. Jim Ryan, *PMS-408, U.S. Navy*

11:45AM – 1:00PM NETWORKING LUNCHEON

1:00PM – 1:30PM	ROBOTIC WINGMAN ADDRESS MAJ Mike Dvorak, USA, Army Capabilities Integration Center
1:30PM – 2:00PM	PM FORCE PROJECTION ROBOTICS Mr. Bryan McVeigh, *Project Manager, Force Projection*
2:00PM – 2:30PM	CLOSING KEYNOTE ADDRESS The Honorable Frank Kendall
2:30PM – 2:45PM	CLOSING REMARKS Mr. Jorgen Pedersen, *Chairman, NDIA Robotics Division; President & CEO, RE^2, Inc.*
2:45PM	CONFERENCE ADJOURNS

NOTES

THANK YOU TO OUR PROGRAM COMMITTEE

CONFERENCE CHAIR

Mr. Jorgen Pedersen
Chairman, NDIA Robotics Division;
President & CEO, RE^2, Inc.

COMMITTEE MEMBERS

Dr. Parag Batavia
Neya Systems, LLC

Mr. Dan Deguire
QinetiQ, North America

Mr. Mathew Dooley
John H. Northrop & Associates

Ms. Angela Duff
Booz Allen Hamilton

Mr. Thomas Gonzalez
Stratom, Inc.

Mr. Jesse Hurdus
TORC Robotics

Mr. Kevin Ryan
Endeavor Robotics

Mr. William Thomasmeyer
National Advanced Mobility Consortium

EXHIBITOR INFORMATION

By Company	Booth #
Alion Science & Technology	307
AM General	106
Ambot	107
Carnegie Robotics	103
Endeavor Robotics	201
Harris Corp.	210
Milrem Robotics, Inc.	202
National Defense Industrial Association	308
National Robotics Engineering Center	302
Neya Systems, LLC	305
QinetiQ North America	301
QSA Global, Inc.	105
RE2 Robotics	102
Remotec/Northrop Grumman	100
Robotic Research, LLC	310
Roboteam, Inc.	304
Telefactor Robotics	208

EXHIBIT SCHEDULE

EXHIBITOR MOVE IN:

Tuesday, March 21, 2017
12:00PM - 5:00PM

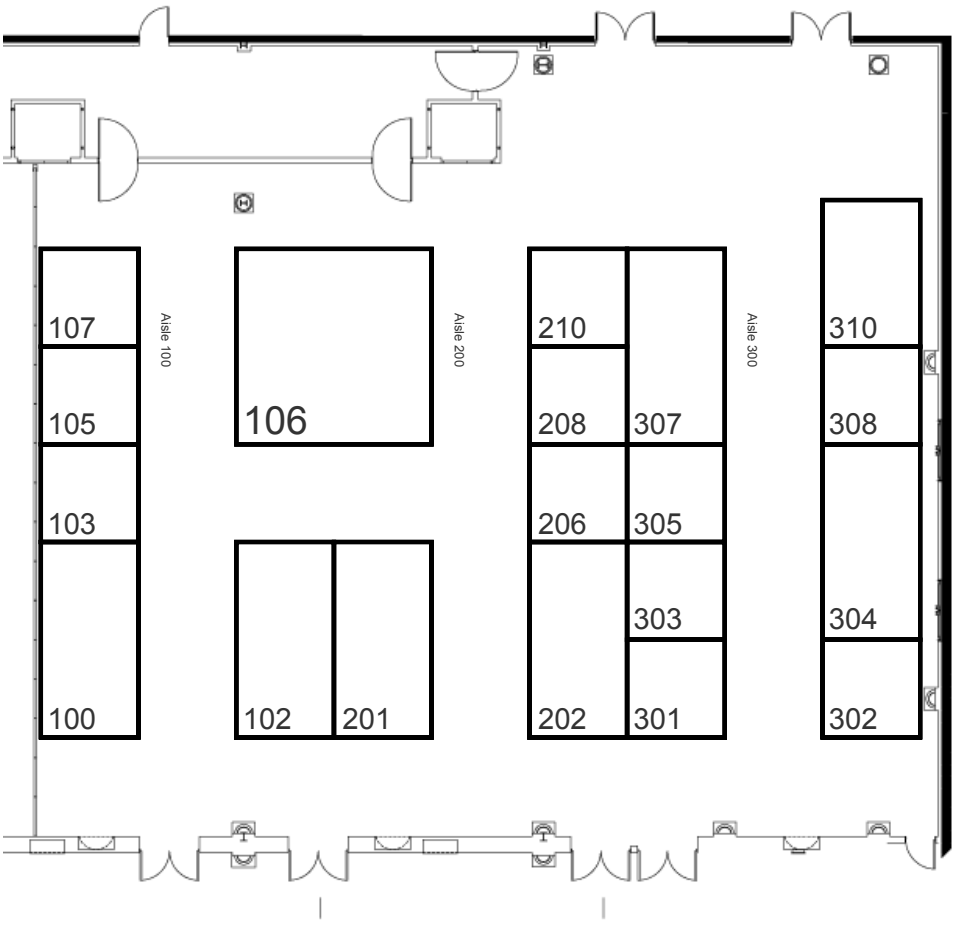
EXHIBIT HALL HOURS:

Wednesday, March 22, 2017
9:00AM - 6:00PM

Thursday, March 23, 2017
9:00AM - 1:00PM

EXHIBITOR MOVE OUT:

Thursday, March 23, 2017
1:00PM - 5:00PM



ALION SCIENCE & TECHNOLOGY **307**
Realion Robotics joins the extensive capabilities of two companies at the vanguard of defense engineering: Alion Science & Technology and Reamda Limited. We are reimagining the future of robots, with technology that's more reliable, more affordable, and more capable than ever. Realion Robotics delivers the solutions and services you need to achieve your mission: engineering, integration, communications platform development, program management, operations and logistics, rapid prototyping & more.

AM GENERAL **106**
The MV-1A offers a driver-less solution in a commercially available, streetready, spacious and great driving vehicle offering easy entry and exit convenience while meeting or exceeding Americans with Disabilities Act (ADA) guidelines right off the assembly line. Designed for wheelchair accessibility from the ground up, AM General's automatic driving option adds another valuable degree of freedom for those who need it.

AMBOT **107**
AMBOT provides solutions for EOD, Leader/Follower, Autonomous Vehicle, Autonomous Convoy, Autonomous Transport, ISR and Subterranean Investigations. Our focus on Interoperability allows our UGV's to be seamlessly integrated with a wide range of DoD mission profiles.

CARNEGIE ROBOTICS **103**
Carnegie Robotics, LLC (CRL) is a leading provider of advanced robotics sensors and platforms for defense, agriculture, & mining. CRL designs and builds reliable & robust 3D sensors, GPS-denied pose systems, and advanced field robots. In 2014, the US Army awarded CRL a $23M contract to develop the Autonomous Mine Detection System (AMDS), a platform to detect, mark and neutralize explosive hazards at standoff in complex and urban terrain.

ENDEAVOR ROBOTICS **201**
With nearly 30 years developing practical robots for defense and industrial applications, iRobot has delivered more than 6,000 mobile robots worldwide. We have partnered with customers and end-users to maximize capabilities and to integrate mobile robots with standard operations in numerous industries. Our robots provide a safer, stand-off distance from danger and gather actionable intelligence to protect military personnel, first responders, workers, the public and the environment.

HARRIS CORP. **210**
Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers in more than 100 countries and has approximately $6 billion in annual revenue. The company is organized into three business segments: Communication Systems, Space and Intelligence Systems and Electronic Systems.

NDIA **308**
NDIA's vast network of members embodies the full spectrum of corporate, government, academic, and individual stakeholders who advocate for a strong, vigilant, and innovative national defense. As part of this diverse network, over 1,600 corporate and 85,000 individual members are actively developing best practices, initiatives, technology, and products in defense with continued guidance and feedback from key stakeholders. NDIA Affiliates are subsidiary organizations that focus on specific areas and missions related to it's community of interest. Each affiliate has its own membership, structure, and dues.

NATIONAL ROBOTICS ENGINEERING CENTER **302**
NREC is home to the world's leading robotics experts. 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. Stop by our booth to know more.

NEYA SYSTEMS, LLC **305**
Neya Systems LLC is a leading developer of advanced unmanned systems technologies. We work with defense, homeland security, and commercial customers to deliver novel solutions to some of the hardest problems related to autonomy, computer vision, and general unmanned systems development and deployment.

MILREM ROBOTICS, INC. **202**
Milrem Robotics is the designer and manufacturer of THeMIS: Tracked Hybrid Modular Infantry System, a modular diesel-electric hybrid unmanned ground vehicle for SMET and other purposes such as a Mobile Remote Weapons Station with integrated Target Acquisition and Fire Control. Milrem is a Northern European Transportation and Automotive Company of 1000 employees with a presence in the United States in Arlington, Virginia as a Delaware corporation.

QINETIQ NORTH AMERICA **301**
QinetiQ North America delivers world-class technology and revolutionary products to defense, security, and commercial markets worldwide. Our offerings range from survivability and unmanned systems to power, controls, sensors and transportation solutions. Customers rely on our products to increase readiness, improve mission effectiveness, streamline operations, increase situational awareness and enhance security. QinetiQ North America is part of QinetiQ Group PLC (QQ: LSE), one of the world's leading defense and security technology companies.

QSA GLOBAL, INC. **105**
QSA Global Inc., manufacturer of OpenVision™ live-video x-ray systems, has a worldwide reputation for quality, reliability and safety. OpenVision™ achieves real-time inspection and investigation of unattended items and suspicious situations. OpenVision™ is lightweight and flexible, enabling mission specific configurations; reducing risk while investigating potential threats and is deployable in hand-held or robot equipped mode in under two minutes.

RE2 ROBOTICS **102**
RE2 Robotics develops mobile robotic technologies that enable robot users to remotely interact with their world from a safe distance -- whether on the ground, in the air, or underwater. RE2 creates interoperable robotic manipulator arms with human-like performance, intuitive human robot interfaces, and advanced autonomy software for mobile robotics.

REMOTEC/NORTHROP GRUMMAN **100**
Military, EOD, first responders and law enforcement agencies worldwide rely on Remotec to help assure a safe, successful outcome for their most challenging missions. Remotec is the global leader in mobile robot systems for hazardous-duty operations.

RESEARCH ROBOTICS, LLC **310**
Robotic Research is a small disadvantaged engineering firm committed to finding innovative, cost-effective solutions in unmanned systems development with a focus on autonomous mobility.

ROBOTEAM, INC. **304**
Roboteam designs, develops and manufactures cutting edge, user-oriented, multi-purpose, unmanned platforms and controllers for Defense, Law Enforcement and Public Safety missions. Roboteam provides solutions for: Tactical Intelligence Missions, Surveillance and Reconnaissance (ISR), Explosive Ordnance Disposal (EOD), Subterranean/ Tunnel Investigations, Search & Rescue, and Chemical, Biological, Radiological, Nuclear and hazardous material removal (CBRNE/HAZMAT).

TELEFACTOR ROBOTICS **208**
At Telefactor Robotics, we design and build advanced vision and dexterity solutions for robots, with special focus on the realistic projection of human-like capabilities for remote operations. Products include HARV head-aimed vision systems and gimbals, VISPRO H.264 cameras and encoders, and Contineo grippers and dexterity systems.

THANK YOU TO OUR RECEPTION SPONSOR

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