

NDIA

2017 Ground Robotics Capabilities Conference & Exhibition

*Preparing for the
Third Offset*



**Connect with
Industry | Government | Academia**

**March 22-23, 2017
Waterford, Springfield, VA**

GROUND ROBOTICS CAPABILITIES CONFERENCE & EXHIBITION

ABOUT THE PROGRAM

The ability of robots to save lives has secured a path for ground robotics' future alongside the warfighter. Ground robotics, rapidly adopted during the Afghanistan and Iraq wars, has enabled the U.S. and its allies to be more effective, efficient, and protected in a range of different missions, such as Explosive Ordnance Disposal (EOD), Combat Engineering, and Reconnaissance. As the Department of Defense looks to execute its Unmanned Systems Integrated Roadmap and implement Better Buying Power 3.0, greater focus is being placed on interoperability and teaming of ground robots; not only with other unmanned systems, but with manned vehicles as well. As the U.S. Military creates the next generation of requirements, it is more important than ever to bring together industry leaders and service-users, on one stage, in order to explore "Preparing for the Third Offset".

The purpose of the 2017 Ground Robotics Capabilities Conference & Exhibition is to provide a forum for industry and government to have an honest dialogue that explores the anticipated effectiveness and efficiency gained through the use of connected manned and unmanned assets across all services of the U.S. military. We expect 250 senior defense professionals from government, industry and the military at this year's conference. Registration is open to the public and all professional levels are encouraged to attend.

ABOUT NDIA'S ROBOTICS DIVISION

Established in June 2006, the Robotics Division has been organized to focus on the national security-related applications of robotics technology. Focus areas for the division include research, development, acquisition, application, integration and sustainment of unmanned ground vehicles to enhance the capabilities and survivability of warfighters. Emphasis is placed on the underlying technologies that will yield integrated and interoperable unmanned systems to meet present and future operational requirements.

The division engages with the OUSD AT&L (Tactical Warfare Systems, Land Warfare and Munitions), the PEO CS&CSS, the military service research laboratories, research and development centers, program offices, other government agencies, academia and commercial companies to discuss issues, provide industry insights into promising technologies, and propose systems solutions to challenges associated with tactical and logistical robot operations.

PAST ATTENDEES SAID:

"The NDIA Ground Robotics meeting is really the best forum for the exchange of information, ideas and methodologies on unmanned ground systems. This conference always features speakers and panels that address the issues, focus areas and goals as they have been laid out by DoD's Ground Robotics Vision."

"You'll participate in an honest dialogue for identifying the technologies capable of satisfying the future needs of the Warfighter."

"This conference allowed me to determine exactly what capabilities industry currently has in order to make my work easier. Overall, a great event."

"A perfect mix of government and industry personnel."



WHO WILL ATTEND:

We expect 250 senior defense professionals from government, industry and the military, from throughout the nation, in attendance at this year's conference. Conference registration is open to the public, and women and men of all professional levels are encouraged to attend. Registered attendees will likely include:

Logisticians

Government Laboratories

Warfighters

Industry Leaders

DoD Agencies

Tactical Users

Combat Developers

Trainers



LETTER FROM THE CHAIRMAN

The Defense Department's Third Offset Strategy seeks to gain asymmetric advantage that capitalizes its strengths and outmaneuver its top adversaries. Similar to the previous offset strategies, innovation is the key. Robotics and autonomous systems will be a critical component of the plan. The 2017 Ground Robotics Capabilities Conference and Exhibition will generate a dialogue surrounding how the US Military is preparing for the third offset using ground robotics capabilities.

There are several new rapid innovation efforts across the Department of Defense that are gaining additional emphasis and budget share. Organizations like DIUx, with a new office in Boston, and the Army's new Rapid Capabilities Office (RCO) are eagerly reaching out to industry for submissions. Robotics and Autonomous Systems, IT and Cyber technologies are all sought-after capabilities driving these new lines of effort. It is a time of transformation with exciting opportunities and potential for collaboration.

The goal of this conference is to educate industry about future needs and programs, while educating the government on what technologies and capabilities exist or are in development. As part of the conference, I encourage both industry and government to engage in honest dialogue during the question and answer sessions as well as during the networking breaks.

We have a great line-up of speakers and panelists, bringing complementary perspectives that will help us collectively address this year's conference theme: "Preparing for the Third Offset". Government and industry leaders will address the salient topics surrounding robotics and autonomous systems.

I wanted to thank the GRCCE Planning Committee and in particular, Mrs. Britt Sullivan, Ms. Tina Fletcher, Mrs. Allison Carpenter, and their colleagues at NDIA for the hard work to pull this conference together. I would also like to thank Mr. Jose Gonzalez and his staff of the Office of the Under Secretary of Defense (OUSD) for Acquisition Technology and Logistics for collaborating with the Robotics Division to organize a meaningful conference.

The ground robotics industry has an opportunity to help the DoD prepare for the 3rd Offset by leveraging robotics and autonomous systems. Thank you for your interest in this conference and being part of this critical discussion. I encourage you to take full advantage of this exceptional opportunity to fully participate and help influence the future of defense-related ground robotics.

Sincerely,

Jorgen Pedersen

Chairman, NDIA Robotics Division

President & CEO, RE² Robotics

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

9:00AM – 6:00PM EXHIBIT AREA OPEN

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

8:00AM – 8:15AM OPENING REMARKS

Mr. Jorgen Pedersen, *Chairman, NDIA Robotics Division; President & CEO, RE², 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*

9:15AM – 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, <i>Autonomy and Robotics, HQE, DIUx</i>
3:15PM – 3:45PM	NETWORKING BREAK IN THE EXHIBIT AREA
3:45PM – 5:00PM	COMMON CONTROL ARCHITECTURE PANEL Moderator: Dr. Parag Batavia, <i>President, Neya Systems, LLC</i> Panelists: <ul style="list-style-type: none"> • Mr. Jeff Hyams, <i>Senior Software Engineer, Neya Systems, LLC</i> • Mr. Tom Phelps, <i>Director of New Products, Endeavor Robotics</i> • Mr. Dave Rusbarsky, <i>Senior Software Engineer, RE² Robotics</i> • Mr. Matt Waters, <i>Senior Project Manager, Dynetics (Invited)</i> • Mr. Jun Yu, <i>Technical Program Manager, Unmanned Systems, QinetiQ North America (Invited)</i>
5:00PM – 6:00PM	NETWORKING RECEPTION IN THE EXHIBIT AREA

THURSDAY, MARCH 23, 2017

7:00AM – 2:45PM	REGISTRATION OPEN
9:00AM – 1:00PM	EXHIBIT AREA OPEN
7:00AM – 8:00AM	NETWORKING CONTINENTAL BREAKFAST
8:00AM – 8:30AM	OPENING KEYNOTE ADDRESS LTG Anderson, USA
8:30AM – 9:00AM	TARDEC ROBOTICS Dr. Paul Rogers, <i>Director, U.S. Army Tank Automotive Research Development & Engineering Center</i>
9:00AM – 9:30AM	ARL ROBOTICS Mr. Dan Baechle, <i>Mechanical Engineer, U.S. Army Research Laboratory (Invited)</i> Mr. Harris Edge, <i>Army Research Lab</i>
9:30AM – 10:00AM	NETWORKING BREAK IN THE EXHIBIT AREA
10:00AM – 11:15AM	UNMANNED SYSTEMS TESTING PANEL Moderator: Mr. Bob Mawson, <i>QinetiQ-North America</i> Panelists: <ul style="list-style-type: none"> • Mr. Adam Bennett, <i>Test and Training Lead, Robotic Logistics Support Center (RLSC)</i> • Ms. Jean Imboden, <i>Test Lead, PM UGV</i> • Mr. Brian Wise, <i>Senior Test Officer, Army Test and Evaluation Command (ATEC)</i> • Mr. Dave Stone, <i>Marine Corp Warfighting Lab (MCWL)</i> • Mr. Michael Kastanas, <i>QinetiQ-North America (QNA)</i>
11:15AM – 11:45AM	NAVY EOD ROBOTICS Mr. Jim Ryan, <i>PMS-408, U.S. Navy</i>
11:45AM – 1:00PM	NETWORKING LUNCHEON
1:00PM – 1:30PM	ROBOTIC WINGMAN ADDRESS MAJ Mike Dvorak, USA, <i>Army Capabilities Integration Center</i>

TRAVEL INFORMATION

The recommended hotel for the meeting is the Courtyard Marriott Springfield. There is no room block; however reservations can be made by calling the hotel directly at the number below. The hotel is located directly across the street from the Waterford Springfield.

Marriott Courtyard Springfield
6710 Commerce St.
Springfield, VA 22150
Tel: (703) 924-7200

NEARBY AIRPORTS

- Ronald Reagan Washington National Airport - DCA
- Washington Dulles International Airport - IAD
- Baltimore/Washington International Thurgood Marshall Airport - BWI

Car rental is recommended.

DRESS CODE

The dress for civilians is business attire and uniform of the day for military.

MEETING CONTACT

Ms. Tina Fletcher
Meeting Planner
tfletcher@ndia.org
(703) 247-2558

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, RE², Inc*

2:45PM

CONFERENCE ADJOURNS

EXHIBITOR INFORMATION as of 2/16/2017

By Company	Booth #
Alion Science & Technology	307
AM General	106
Carnegie Robotics	103
Endeavor Robotics	201
Harris Corp.	210
Milrem Robotics, Inc.	206
Mistral, Inc.	208
National Robotics Engineering Center	302
Neya Systems, LLC	305
Polartherm	202
QinetiQ North America	301
RE ² , Inc.	102
Remotec/Northrop Grumman	100
Roboteam North America	304

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

CONFERENCE CHAIR

Mr. Jorgen Pedersen
Chairman, NDIA Robotics
Division;
President & CEO, RE², Inc.

Ms. Angela Duff
Booz Allen Hamilton

Mr. Thomas Gonzalez
Stratom, Inc.

COMMITTEE MEMBERS

Dr. Parag Batavia
Neya Systems, LLC

Mr. Jesse Hurdus
TORC Robotics

Mr. Kevin Ryan
Endeavor Robotics

Mr. Dan Deguire
QinetiQ, North America

Mr. William Thomasmeyer
National Advanced
Mobility Consortium

Mr. Mathew Dooley
John H. Northrop &
Associates

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