

# GROUND ROBOTICS CAPABILITIES CONFERENCE & EXHIBITION

WHAT DOES THE NEXT ERA OF GROUND ROBOTICS HOLD?



AUGUST 13-14, 2014  
[WWW.NDIA.ORG/MEETINGS/4380](http://WWW.NDIA.ORG/MEETINGS/4380)

COLLEGE PARK MARRIOTT HOTEL & CONFERENCE CENTER ► HYATTSVILLE, MD

EVENT #4380

# GROUND ROBOTICS CAPABILITIES CONFERENCE & EXHIBITION

August 13-14, 2014 ► Hyattsville, MD

## 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. With a waning defense budget, uncertainty of future budgets, and a leaner military force, an opportunity presents itself for new, efficient and effective technologies, to continue to extend and complement the warfighter's capabilities. It's more important than ever to bring together industry leaders and service-users, on one stage, in order to explore these emerging trends and determine, "What does the Next Era of Ground Robotics Hold?"

The purpose of the 2014 Ground Robotics Capabilities Conference & Exhibition is to provide a forum for Industry and Government to have an honest dialogue for identifying the technologies that will be able to meet the future needs of the warfighter.

## 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 the 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 the OUSD AT&L (Defense Systems, Land Warfare and Munitions), the Robotic Systems Joint Program Office, 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

There will be over 300 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 both women and men of all professional levels are encouraged to attend.

- ▶ Tactical Users
- ▶ Concept Developers
- ▶ Trainers
- ▶ Logisticians
- ▶ Government Labs

## COMMITTEE MEMBERS

- ▶ Mr. Jorgen Pedersen  
RE2, Inc.
- ▶ Mr. Reeg Allen  
RE2, Inc.
- ▶ Dr. Parag Batavia  
Neya Systems, LLC
- ▶ Mr. Phillip Bryan  
Northrop Grumman Remotec
- ▶ Mr. Andrew Culhane  
TORC
- ▶ Mr. Andrew Dallas  
Soar Technology, Inc.
- ▶ Dan Deguire  
QinetiQ
- ▶ Ms. Angela Duff  
Booz Allen Hamilton
- ▶ Mr. Jonathan Lesser  
iRobot Corporation
- ▶ Mr. Kevin Ryan  
iRobot Corporation
- ▶ Tom Gonzalez  
Stratom
- ▶ Mr. William Thomasmeyer  
National Center for Defense  
Robotics
- ▶ Mr. Randy Williams  
Booz Allen Hamilton

## MESSAGE FROM THE CHAIRMAN

Welcome to the Ground Robotics Capabilities Conference and Exhibition (GRCCE), the premier conference for ground robotics in support of our Warfighters. As the U.S. Military resets and reshapes the force, we are faced with an opportunity to educate and demonstrate how ground robotics help create a leaner, more effective and efficient force. This year's conference theme asks the question "what does the next era of ground robots hold".

The goal of the 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 keynotes, bringing complementary perspectives that will help us collectively plan on how to do more with less. The conference offers service-centric perspectives from leaders such as the Hon. Heidi Shyu from ASA (ALT), Mr. Tom Dee from DASN (ELM), Mr. Brian Skibba from Air Force Civil Engineer Center, and BGen Kevin Killea, USMC from MCWL. Mr. George Rumford from Test Resource Management Center, will discuss issues surrounding testing and evaluation of ground robots. Dr. Ron Arkin, Associate Dean at Georgia Tech, will discuss the ethics lethal autonomous weapons. We will hear about farther-reaching research from Dr. Gill Pratt of DARPA. Paul Scharre will present the operational advantages of using robots on the battlefield. Panels include topics such as Open Architecture and Synergy with Parallel Markets, where we will hear from government and industry. We conclude the conference with the highly anticipated Warfighter Panel, where we hear experiences and suggestions directly from Warfighters who are using ground robots today.

I wanted to thank the GRCCE Planning Committee and in particular, Britt Bommelje, Kari King, and Camille Briggs, and their colleagues at NDIA for the hard work to pull this conference together. I would also like to thank Mr. Chris O'Donnell 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 is faced with an opportunity to help the DoD reshape the future force. Thank you for being here 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  
NDIA Board of Trustees  
President & CEO, RE2, Inc.

## HOTEL INFORMATION

College Park Marriott Hotel & Conference Center  
3501 University Blvd E  
Hyattsville, MD 20783-7998  
Tel: (301) 985-7300

Ground Robotics Capabilities  
Conference & Exhibition Rate:  
\$159

A block of rooms has been reserved at the College Park Marriott Hotel & Conference Center. In order to ensure the discounted rate, you must make your reservations early and ask for the “National Defense Industrial Association” room block. Rooms will not be held after Tuesday, July 21, 2014 and may sell out before then. Rates are also subject to change after this date.

To make your reservation, please call Marriott reservations at 1 (800) 228-9290 or (301) 985-7300.

### Parking

Complimentary on-site parking garage.

### High-Speed Internet Access

- Guest rooms: Complimentary Wireless, Wired
- Lobby and public areas: Complimentary Wireless

### Nearby Airports

- Ronald Reagan Washington National Airport - DCA (15 miles - \$60 est. taxi fare)
- Baltimore/Washington International Thurgood Marshall Airport - BWI (30 miles - \$65 est. taxi fare)

Car rental is recommended.

# REGISTRATION INFORMATION

## REGISTRATION PROCESS

To register online for this conference, please visit [www.ndia.org/meetings/4380](http://www.ndia.org/meetings/4380) and click on the “Registration” tab. Pre-registration will close at 5pm EST on August 1, 2014. You must register onsite in Hyattsville after this date.

To register via fax or mail complete the registration form, which can be found at [www.ndia.org/meetings/4380](http://www.ndia.org/meetings/4380), and fax it to (703) 522-1885 or mail to: Event #4380, National Defense Industrial Association, 2111 Wilson Boulevard, Suite 400, Arlington, VA, 22201. Please do not fax or mail forms after August 1, 2014. Payment must be made at the time of registration. Registrations will not be taken over the phone. Please be sure you are registering with the correct credit card or form of payment, as a \$25 fee will be applied to registrations switching credit cards or forms of payment.

CONFERENCE REGISTRATION FEES	EARLY (ON/BEFORE 5/9)	REGULAR (5/10 - 8/1)	LATE (AFTER 8/1)
FEDERAL U.S. GOVERNMENT	\$350	\$350	\$350
ACADEMIA & STATE/ALLIED GOVERNMENT	\$100	\$110	\$125
INDUSTRY NDIA MEMBER	\$600	\$660	\$745
INDUSTRY NDIA NON-MEMBER	\$700	\$770	\$865

## WHAT IS INCLUDED IN MY REGISTRATION?

With your purchase of conference registration, you are entitled access to:

- General Sessions
- Exhibit Hall
- Continental Breakfasts, Networking Breaks, Networking Luncheons
- Networking Reception
- Onsite Agenda and Meeting Materials
- Post-event Online Speaker Proceedings (if releasable by speaker)

## CANCELLATIONS AND SUBSTITUTIONS

Cancellations received by Friday, August 1, 2014 will receive a refund minus a \$75 cancellation fee. No refunds will be given for cancellations received after Friday, August 1, 2014. Substitutions to this event are welcome in lieu of cancellations. Cancellations and substitutions must be made in writing to [cbriggs@ndia.org](mailto:cbriggs@ndia.org). Please note: Cancellation policy does not apply to exhibit booth cancellations.

# EXHIBITOR INFORMATION

## EXHIBITS

Purchase your booth in real time: [www.ndia.org/exhibits/4380](http://www.ndia.org/exhibits/4380).

### Cost to Exhibit

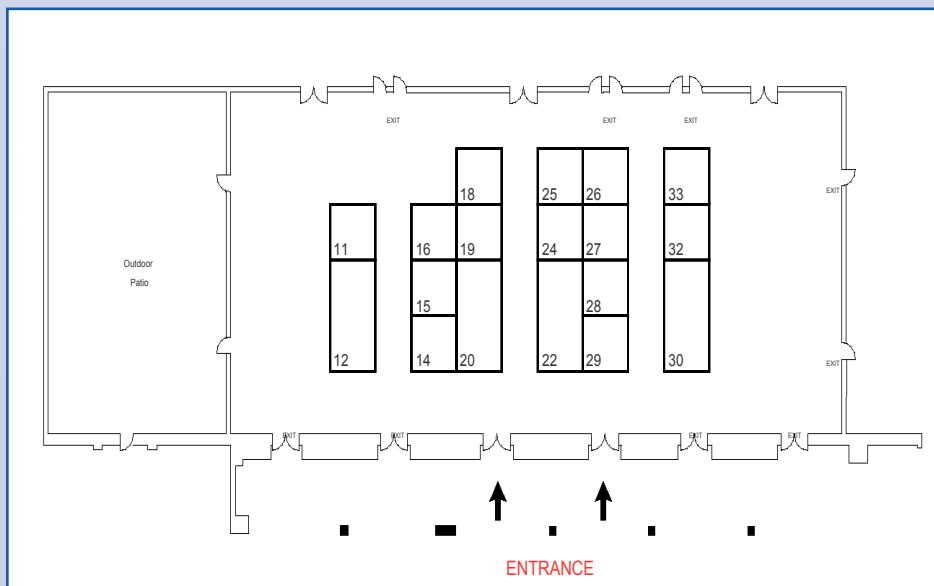
- ▶ Corporate Member Rate\*: \$25.00 / sq. ft.  
(Note: your corporate member dues must be current to be able to get the member rate).  
\*Rate also applies to bona-fide U.S. government agencies and academic institutions.
- ▶ Corporate Non-Member Rate: \$30.00 / sq. ft.

Please Note! There is a height restriction of 9 feet in the exhibit ballroom. Please plan accordingly.

### Exhibit Rate Includes\*:

- ▶ All networking social functions
- ▶ All scheduled meal events including breakfasts, lunches, etc.
- ▶ Two complimentary full registrations for exhibit personnel, per 10' x 10'
- ▶ Company profile online
- ▶ 24 hour security
- ▶ Fabric back and side walls and 7" x 44" ID sign

\*An Exhibits and/or Conference Badge is required for access to any above referenced benefit.



## EXHIBIT SCHEDULE

### Exhibitor Move In:

Tuesday, August 12  
12:00pm - 5:00pm

### Exhibit Hall Hours:

Wednesday, August 13  
9:30am - 6:00pm

Thursday, August 13  
7:00am - 1:00pm

### Exhibitor Move Out:

Thursday, August 13  
1:00pm - 5:00pm

## SPONSORSHIP INFORMATION

The Ground Robotics Capabilities Conference & Exhibition sponsorship menu offers many categories to fit your budget. By enhancing your brand with a sponsorship at this premier event, you'll build a stronger perception from the audience and stand out from the crowd.

Sponsorship packages are available from \$2,500 to \$20,000. View the Sponsorship Menu at [www.ndia.org/meetings/4380](http://www.ndia.org/meetings/4380) under the Sponsorship Information tab.

For additional information, please contact Ms. Camille Briggs, Meeting Planner, at (703) 247-2570 or [cbriggs@ndia.org](mailto:cbriggs@ndia.org).

## WEDNESDAY, AUGUST 13, 2014

7:00 am - 6:00 pm **REGISTRATION OPEN**

7:00 am **CONTINENTAL BREAKFAST**

8:00 am **OPENING REMARKS**

- ▶ Mr. Jorgen Pedersen, *President & CEO, RE2, Inc.; Chairman, NDIA Robotics Division*
- ▶ Lt Gen Larry Farrell, USAF (Ret), *President & CEO, NDIA*

8:10 am **KEYNOTE ADDRESS**

- ▶ Dr. Gill Pratt, *Program Manager, Defense Sciences Office, Defense Advanced Research Projects Agency (DARPA)*

8:45 am **KEYNOTE ADDRESS**

- ▶ Brigadier General Kevin J. Killea, USMC, *Director, Futures Directorate, Commanding General, Marine Corps Warfighting Laboratory, and Vice Chief of Naval Research*

9:30 am - 6:00 pm **EXHIBIT HALL OPEN**

9:30 am **NETWORKING BREAK IN THE EXHIBIT HALL**

10:00 am **SYNERGY WITH PARALLEL MARKETS:** There is a great deal of technological overlap between ground robotics systems developed for our nation's warfighters and comparable systems designed to address a myriad of needs in related field and mobile robotics markets, such as agriculture, mining, and logistics. While the technologies are similar, the market differences are significant. This panel will discuss the applications for field and mobile robotic systems, the differences in the business strategies and models required, and other issues that defense robotics companies need to consider when they weigh whether to pivot to pursue opportunities in these parallel markets.

Moderated by Mr. William Thomasmeyer, *Executive Director, Robotics Technology Consortium*

- ▶ Mr. Nathan Dorn, *Director Farming Systems, Reiter Affiliated Companies*
- ▶ Mr. Mel Torrie, *President and CEO, Autonomous Solutions, Inc.*
- ▶ Mr. Mitch Weiss, *Chief Operating Officer, Seegrid Corporation*

11:00 am **KEYNOTE ADDRESS**

- ▶ Mr. Chris O'Donnell, *Staff Specialist, Joint Ground Robotics Enterprise Tactical Warfare Systems (Land Warfare and Munitions), OUSD (AT&L)*

11:45 am **AWARDS CEREMONY**

- ▶ Ground Robotics Champion
- ▶ Ground Robotics Technology Innovator
- ▶ Defense User Recognition Award
- ▶ Joint Ground Robotics Enterprise Staff Specialist's Award

12:00 pm **NETWORKING LUNCHEON**

1:15 pm **KEYNOTE ADDRESS**

- ▶ Honorable Heidi Shyu, *Assistant Secretary of the Army for Acquisition, Logistics & Technology*

**2:00 pm**     **PANEL: OPEN ARCHITECTURE:** The Open Architecture Panel includes experts from DoD and Industry on issues related to interoperability, acquisition, and open business models. In this panel, we will be discussing the latest developments in both ground systems and multi-platform open architectures. Specifically, we will be focusing on advances in technical interoperability through model driven architectures, acquisition issues related to how OA is specified in contracting language and how proposals can be evaluated against it, IP and data rights issues, and the bridge between commercial and DoD interoperability efforts and standards.  
Moderated by Dr. Parag Batavia, *President, Neya Systems, LLC*  
▶ Mr. Mark Mazzara, *Department of the Army Systems Coordinator (DASC) for Robotics, U.S. Army*  
▶ Mr. Rich Ernst, *Interoperability Lead, OSD*  
▶ Mr. Brian Gerkey, *CEO, Open Source Robotics Foundation (OSRF)*

**3:00 pm**     **DEMONSTRATIONS OF CUTTING-EDGE ROBOTICS TECHNOLOGY**

**4:30 pm - 6:00 pm**     **NETWORKING RECEPTION IN THE EXHIBIT HALL**

## THURSDAY, AUGUST 14, 2014

**7:00 am - 3:00 pm**     **REGISTRATION OPEN**

**7:00 am - 1:00 pm**     **EXHIBIT HALL OPEN**

**7:00 am**     **CONTINENTAL BREAKFAST IN THE EXHIBIT HALL**

**8:00 am**     **KEYNOTE ADDRESS: THE COMING SWARM - OPERATIONAL ADVANTAGES OF ROBOTICS ON THE BATTLEFIELD**

▶ Mr. Paul Scharre, *20YY Warfare Project Director, CNAS*

**8:45 am**     **KEYNOTE ADDRESS: LETHAL AUTONOMOUS WEAPONS**

▶ Dr. Ronald C. Arkin, *Regents' Professor & Director, Mobile Robot Laboratory; Associate Dean for Research & Space Planning, College of Computing, Georgia Institute of Technology*

**9:30 am**     **NETWORKING BREAK IN THE EXHIBIT HALL**

**10:15 am**     **KEYNOTE ADDRESS: GROUND ROBOTIC NEEDS FOR THE AIR FORCE CIVIL ENGINEER**

▶ Mr. Brian Skibba, *Airbase Acquisition Branch Chief, Air Force Civil Engineer Center*

**11:00 am**     **KEYNOTE ADDRESS**

▶ Mr. George Rumford, *Program Manager, Test Resource Management Center*

**12:00 pm**     **NETWORKING LUNCHEON**

**1:00 pm - 5:00 pm**     **EXHIBITOR MOVE-OUT**

**1:00 pm**     **KEYNOTE ADDRESS**

▶ Mr. Tom Dee, *Deputy Assistant Secretary, Expeditionary Programs and Logistics Management, Office of the Assistant Secretary of the Navy (Research, Development and Acquisition)*

**1:45 pm**     **PANEL: WARFIGHTERS**

Moderated by Mr. Thomas Gonzalez, *Vice President, Stratom, Inc.*

- ▶ 1SG David Allen Grotkin, *USA, 71st EOD Group Team*
- ▶ CPT Thomas Clay Kirkpatrick, *USA, 71st EOD Group Team*
- ▶ SSG Derek Christopher Croy, *USA, 71st EOD Group Team*
- ▶ MSG David J. Silva, *USA, 71st EOD Group Team*

**2:45 pm**     **CLOSING REMARKS**

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

**3:00 pm**     **CONFERENCE ADJOURNS**

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