



## **AUS&R 2013 – Call for Papers:**

As the Chairman of AUS&R 2013, I am inviting you to propose and submit presentations or papers for presentation at the first Autonomous Unmanned Systems & Robotics conference, taking place at the Yes Planet hall, Rishon LeZion, Israel on 27 November 2013.

Our program focuses on three tracks: Solutions, Platforms and Applications.

### ***The Solutions Track***

This track is tailored for senior decision makers in the military and intelligence branches, defense and homeland security ministries, government agencies, and organizations as well as security services in the private and public sector, in Israel and abroad, are invited to attend to discuss the applications, benefits and challenges of unmanned systems.

We will discuss solutions for different aspects - defense related issues highlighting the roles of unmanned systems' providing new capabilities like persistent surveillance, terrain dominance and force protection.

HLS aspects will discuss how maritime security can leverage unmanned systems technologies to offer affordable security over wide coastal, littoral and blue waters. In addition, this track will explore innovative technologies introducing lifesaving capabilities for first responders - bomb disposal teams, firefighters, medics and rescue teams, operating in hazardous environment, on land, in the air, at sea and underwater. We will also learn about the evasive tactics developed by terrorists facing the unmanned perils for over a decade.

### ***Live demonstration highlights - Solutions Track***

Live demonstrations associated with this track will include the display of advanced EO/IR sensors on unmanned aerial system, tethered and hovering platforms, and the integration of air, land and maritime capabilities. On the counter-terror application side, advanced UGVs will be displayed, designed to deal with EOD threats from unexploded rockets and bombs to massive VBIEDs.



## ***Platforms Track (P)***

Senior executives from leading industries in Israel and abroad, researchers and developers from the academy, government and military will share the platforms track, discussing the future aspects of robotic platforms.

This track will cover a wide list of topics, including an examination of weaponized unmanned platforms, the integration of human and machine, evolving command, control and communications toward intelligent, synchronized, multi-robot swarms and autonomous, robotic space applications. We will also examine the proliferation of unmanned systems technology by terror groups.

### *Live Demonstration highlights - Platforms Track*

Live demonstrations associated with this track will include unique platforms never before shown on live display, including miniature aerial systems, hovering platforms and rapid aerial mapping techniques and more.

## ***Missions Track (M)***

The missions track highlights the latest capabilities and technologies enabling users and operators to improve the use of existing and future systems already deployed in the field.

Delegates invited to this track include users and operators from the military, government agencies and private sector, service providers (outsourcing, training and support) here they will meet industry representatives and developers offering auxiliary systems and tools for unmanned systems (manipulators, payloads, system upgrades, illuminators, displays, controllers, power-packs, load bearing, packing etc.).

### *Live Demonstration highlights - Missions Track*

Live demonstrations associated with this track will be provided on the exhibition ground, in audio-visual and live demonstration. Equipment on display will include accessories and systems improving the handling, control, mission efficiency and utilization of robotic systems.



## Presentation Proposal Submission Process

The following topics are planned for discussion at AUS&R 2013

Please check the specific topics you would like to present:

### Solutions Track:

- \_ Drones & National Security
- \_ HLS, Law Enforcement, Firefighting
- \_ Maritime & EEZ Security
- \_ Force Protection – air, land and sea
- \_ Border and Infrastructure Security
- \_ Terrain Dominance
- \_ Legal, Social & ethical considerations of unmanned systems operations

### Platforms Track:

- \_ Command, control & autonomy
- \_ Manufacturing technologies & materials implications for platform design & performance
- \_ Remote control, datalinks & navigation
- \_ Multi-platform, Multi-tier, Swarms
- \_ Mobility Aspects for Robots
- \_ Power & propulsion for unmanned systems
- \_ Mission Payloads

### Missions Track:

- \_ Persistent Surveillance, Actionable Intelligence
- \_ Target acquisition & combat support
- \_ Image and Video Processing and their contribution to advanced mission capabilities
- \_ New developments and techniques in C-IED/ EOD
- \_ Advanced applications of radar technology with robotic and unmanned systems
- \_ The human aspects of unmanned systems (training, operations)
- \_ Human – Machine Interface – A Look into the Future

Please refer for page 4 for deadlines and specifications.



We are currently receiving proposals from presenters from Israel and abroad, to take part in the program.

- The presentations at the conference will be held in English or Hebrew.
- Presentations by international guests will be given in English.
- Presentation slides will be provided in English.
- Each presentation will be limited to 20 minutes.
- All material presented at AUS&R must be 'Unclassified'.

Submission Schedules:

1. Presentation proposal deadline: August 15, 2013

Proposal should include the title of the presentation, the name and affiliation of the presenter, an abstract of up to 500 words, presentation synopsis, contact details and passport photo in digital format.

2. Presentation approval deadline: October 15, 2013

Submission of final version of the presentation, for approval by the conference board, summarized resume of up to 250 words.

Thank you for your cooperation and assistance in making AUS&R a success.

Yours sincerely

Tamir Eshel  
Chairman – AUS&R 2013  
[editor@defense-update.com](mailto:editor@defense-update.com)  
[eshel@ausrexpo.com](mailto:eshel@ausrexpo.com)

Tel: +972-54-450-8028