

# **AUVSI Unmanned Systems Program Review 2007**

**Washington, DC, USA  
7-9 February 2007**

**ISBN: 978-1-61782-305-3**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2007) by the Association for Unmanned Vehicle Systems International

All rights reserved.

Printed by Curran Associates, Inc. (2011)

For permission requests, please contact the Association for Unmanned Vehicle Systems International at the address below.

Association for Unmanned Vehicle Systems International  
2700 South Quincy Street  
Suite 400  
Arlington, VA 22206

Phone: (703) 845-9671

Fax: (703) 845-9679

[info@auvsi.org](mailto:info@auvsi.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## MARITIME DAY PROCEEDINGS

<b>Navy Unmanned Maritime Systems Update</b> .....	1
<i>Mike Alperi</i>	
<b>NECC Capability and Vision Brief</b> .....	25
<i>N/A</i>	
<b>Battery Technologies for Unmanned Underwater Vehicle (UUV) Systems</b> .....	47
<i>Julie Banner</i>	
<b>Transformation of NATO’s MCM Capability</b> .....	68
<i>Rob Cornick</i>	
<b>Association for Unmanned Vehicle Systems International - Sea Day</b> .....	95
<i>N/A</i>	
<b>AUVSI’s Unmanned Systems Program Review 2007</b> .....	125
<i>Tom Swean Jr.</i>	
<b>Status Navy Unmanned Systems Common Control (USCC) Study</b> .....	160
<i>Lora G. Weiss</i>	

## GROUND DAY PROCEEDINGS

<b>Joint Service EOD Program for AUVSI’s Unmanned Systems Program Review</b> .....	194
<i>Byron Brezina</i>	
<b>Army Physical Security Robotics Initiatives</b> .....	218
<i>Don C. Carter</i>	
<b>Explosive Ordnance Disposal Operations and Robotics</b> .....	232
<i>N/A</i>	
<b>AUVSI FCS UGV Technology Overview</b> .....	238
<i>Scott Fish</i>	
<b>Robotic Systems Joint Project Office</b> .....	245
<i>N/A</i>	
<b>DARPA’s LAGR, L2 and UPI Programs</b> .....	276
<i>Larry Jackel</i>	
<b>U. S. Army RDECOM Initiatives</b> .....	297
<i>Jeff Jaczkowski</i>	
<b>Joint Robotic Repair Detachment - Iraq</b> .....	319
<i>Joseph M. Parker</i>	
<b>Joint Ground Robotics Enterprise: Moving Robotics from the Lab to the Warfighter</b> .....	336
<i>Ellen M. Purdy</i>	
<b>Army Support to Future Combat Systems Unmanned Ground Vehicles</b> .....	353
<i>Paul D. Rogers</i>	
<b>Robotics Overview</b> .....	365
<i>N/A</i>	
<b>Performance Based Logistics (PBL)</b> .....	382
<i>N/A</i>	
<b>DOE Robotic Activities</b> .....	390
<i>N/A</i>	

## AIR DAY PROCEEDINGS

<b>Idaho National Laboratory Critical Infrastructure Protection</b> .....	400
<i>Nicholas R. Alley</i>	
<b>FAA Roadmap and Program Office - FAA Update</b> .....	414
<i>Doug Davis</i>	
<b>UAS Airspace Integration JIPT “DoD Resource Focus and Alignment”</b> .....	426
<i>Paul Frederick</i>	

<b>Commercial Issues for Unmanned Aerial Systems</b> .....	436
<i>Jon Montgomery</i>	
<b>DoD UAS Operations in the National Airspace System</b> .....	450
<i>Fred Pease</i>	
<b>AUVSI Unmanned System Program Review</b> .....	461
<i>Dyke D. Weatherington</i>	
<b>Author Index</b>	