

Unmanned Systems Capabilities Conference II
December 13 - 14, 2005

San Diego, CA

PROCEEDINGS

The 2nd annual Unmanned Systems Capabilities Conference (USCC) was held at the Town and Country Hotel & Resort in San Diego, CA. The meeting was called to order at 9:00am on Tuesday, December 13 and adjourned at 4:30pm on Wednesday, December 14, 2005.

Administrative comments were made by Mr. Jeff Kotora. The official welcome was given by Mr. Cliff Hudson, Joint Robotics Program (JRP) and Mr. Mark Asselin, Technical Support Working Group (TSWG).

The meeting agenda is provided at [TAB A](#), and the attendee list at [TAB B](#).

BRIEFINGS

Day 1

HQ Air Combat Command, Langley AFB, VA: CMSgt Jim Petree provided a briefing titled *AF EOD Robotics and ECM Challenges*. His briefing can be found at [TAB C](#).

National Bomb Squad Commanders Advisory Board Mr. David Heaven and LT Jeff Fuller provided a briefing titled *Requirements for Bomb Squad Robots*. Their briefing is located at [TAB D](#).

US Army Maneuver Support Center, Ft. Leonard Wood MO: Mr. Dave Knichel provided a briefing titled *Autonomous Robotic Countermine Experiment Results*. His briefing is located at [TAB E](#).

National Institute of Standards and Technology, Gaithersburg, MD: Ms. Elena Messina provided a briefing titled *NIST Autonomous Vehicles Research and Performance Evaluation*. Ms. Messina's briefing can be found at [TAB F](#).

Research, Development & Engineering Command – Simulation & Training Technology Center, Orlando, FL: Dr. Amos Freedy presented a briefing titled *A Mixed Initiative Team Performance Assessment System For use In Training And operational Environments*. His briefing can be found at [TAB G](#).

Joint Explosive Ordnance Disposal, Indianhead, MD: TSgt Steven Coppock provided a briefing titled *Joint Explosive Ordnance Disposal*. His briefing can be found at [TAB H](#).

Tucson Police Department, Tucson AZ: Mr. Peter Buchanan provided a briefing titled *Robotics and Tactical Operations*. His briefing is located at [TAB I](#).

US Army Maneuver Support Futures Center, Ft Leonard Wood, MO: MAJ Scott Werkmeister provided a briefing titled *Fido/Packbot Military Users Assessment*. His briefing is not available at this time.

Technical Support Working group (TSWG), Arlington, VA: Mr. Bruno Eddy provided a briefing titled *Next Generation RCV Operational Analysis*. His briefing can be found at [TAB K](#).

Blitz Solutions, Inc: Mr. John Blich provided a briefing titled *Robot Assisted Crisis Assessment in New Orleans*. His briefing is not available.

Exhibits

Throughout both days, conference attendees were able to gain valuable knowledge from exhibits presented by a wide variety of companies. Companies represented were:

AEA Technology Engineering Services, Inc

Allen-Vanguard

Applied Research Associates, Inc.

Association for Unmanned Vehicle Systems International (AUVSI)

Autonomous Solutions, Inc.

Battelle

CornerTurn LLC

Eclipse International Corporation

Foster-Miller

iRobot Corporation

Kuchera Defense Systems

MAGNAPhone Defense Systems & Electronics

Mesa Robotics, Inc.

Nomadics, Inc.

Prizm Advanced Communications Electronics, Inc.

Remotec

Roper Resources LTD

San Diego State University (SDSU)

Sanswire Networks LLC

Space & naval Warfare Systems Center (SPAWAR) San Diego

Technical Support Working Group (TSWG)

Telerob GMBH

The West Virginia High Technology Consortium Foundation (WVHTCF)

Virginia Polytechnic Institute and State University (JOUSTER)

WM Robots LLC

BRIEFINGS

Day 2

University of South Florida: Dr. Robin Murphy provided a briefing titled *Requirements for Search and Rescue Robots*. Her briefing is located at [TAB L](#).

Tank-Automotive Research, Development and Engineering Center (TARDEC), Warren, MI: Mr. Bob Watts provided a briefing titled *Inspiring Joint Robotic Programs*. His briefing can be found at [TAB M](#).

Texas A&M University: Ms. Christina Robertson provided a briefing titled *the SAVER Program*. Her briefing is at [TAB N](#).

Carnegie Mellon University: Dr. John Dolan provided a briefing titled *Human Telesupervision of Multirobot Teams*. His briefing can be found at [TAB O](#).

Explosive Ordnance Disposal/Low Intensity Conflict program (EOD/LIC), Arlington, VA: Mr. Neil Smith provided a briefing titled *EOD/LIC Enhancements*. His briefing can be found at [TAB P](#).

US Army Medical Research and Materiel Command TATRC, Ft Detrick, MD: Dr. Gary Gilbert provided a briefing titled *Robotic Combat Casualty Care, Extraction and Evacuation S&T Programs*. His briefing can be found at [TAB Q](#).

US Army Maneuver Support Center, Ft. Leonard Wood MO: SFC Christopher Jones provided a briefing titled *National Unmanned Systems Experimentation Environment (NUSE2)*. His briefing can be found at [TAB R](#).

Santa Ana Fire Department, Santa Ana, CA: Mr. Jim Melton provided a briefing titled *Hazardous Materials Robot*. His briefing is at [TAB S](#).

Penn State University: Mr. Ed Crow provided a briefing titled *COTS Game-Based Operator Interface Unit for UGVs and Payloads*. His briefing is located at [TAB T](#).

Virginia Tech University: Dr. Andrew Kurdilla provided a briefing titled *Joint Unmanned Systems Test, Experimentation & Research (JOUSTER) Status and Future Plans*. His briefing is at [TAB U](#).

Joint Robotics Program, Arlington, VA: Dr. Robert Finkelstein provided a briefing titled *Intelligent Vehicle Technology Transfer*. His briefing is at [TAB V](#).

Industry Panel: The conference was closed by having an Industry Panel expressing their needs from a user community as well as answering questions from the audience. The panel was made up by:

Mr. Mack Barber – Remotec

Mr. George Bustilloz – WVHTCF

Mr. Joe Dyer – iRobot

Mr. Don Jones – Mesa Robotics

Mr. Tom Morehead – Allen-Vanguard

Mr. Bob Quinn – Foster-Miller

Their briefing can be found at [TAB W](#).

NEXT MEETING

The next JRP Working Group is scheduled for June 6-7, 2006 in Detroit MI.

The next Unmanned Systems Capabilities Conference will be held in Dec 06 in Huntsville, AL

ACKNOWLEDGMENTS: Mr. Cliff Hudson, JRP, and Mr. Mark Asselin, TSWG, closed the meeting by expressing their appreciation to the planners and exhibitors. The joint effort of the conference was very successful.

ADJOURNMENT

The meeting was adjourned at 4:30pm.