

Ground Robotics: Lightening the Load, Enhancing Effectiveness and Delivering the Edge

18 February 2010

0830 Registration, Tea and Coffee

0900 **Session One: Keynote Presentations**

Chair : Graham Jordan, Science and Technology Advisor, RUSI

Speaker : **'The Role of Unmanned Ground Vehicles for UK Defence'**
Professor Phil Sutton, Director General of Research and Technology Strategy, UK MoD

'The US Army's Unmanned Ground Vehicle Strategy: Evolution and Outputs'
Colonel Craig Effinger, Chief, Science and Technology Division, Army Capabilities
Integration Center, US Army Training and Doctrine Command

1030 Morning Tea and Coffee

1100 **Session Two: Panel Session – Practical Implications of Ground Robotics**

Chair : Olivier Grouille, Head, RUSI Land Capabilities and Operations Programme

Speakers: Lieutenant Colonel Mark Adams, Assistant Team Leader, DE&S Special Projects
Search and Countermeasures (SPSCM) Delivery Team, UK MoD

Colonel (Ret'd) Bruce Jette PhD, President and CEO, Synovision

1200 Lunch

1300 **Session Three: Considering the Ethical and Legal Landscape**

Chair : Elizabeth Quintana, Head, RUSI Technology and Acquisition Programme

Speakers : **‘The Legal Context : Challenges and Opportunities’**
Professor Steven Haines, Head, Security and Law Programme, Geneva Centre for Security Policy

‘Governing Lethal Behavior in Autonomous Systems’
Professor Ron Arkin, Regents' Professor & Director of the Mobile Robot Laboratory, Georgia Institute of Technology

‘Unmanned Weapons Platforms: a Banquet for Thought’
Mark Steinbeck, International Committee of the Red Cross

1430 Afternoon Tea and Coffee

1500 **Session Four: Conceptual Considerations**

Chair : Air Vice Marshal (Ret'd) Martin Routledge, former Chief of Staff for Strategy, Policy and Plans at HQ Air Command

Speakers : **‘Biological Robots & Future Interactions’**
Professor Kevin Warwick, Professor of Cybernetics, University of Reading

‘Information Security for Robot Swarms’
Dr. Allan Tomlinson, Information Security Group, Royal Holloway, University of London

‘Minimising Human Risk and Workload: New Possibilities from Recent Research’
Professor William Bardo, Technical Director, Systems Engineering for Autonomous Systems Defence Technology Centre (SEAS DTC)

1630 **Summary Session**

Chair : Olivier Grouille, Head, RUSI Land Capabilities and Operations Programme

Speaker : **‘Reflections and Considerations for the Way Forward’**
Elizabeth Quintana, Head, RUSI Technology and Acquisition Programme

1645 Conference Closes