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**