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**SIMULATION
SUPPORT TO
HOMELAND
SECURITY
SYMPOSIUM**

presented as part of

**SimTect
2007**

SIMULATION: IMPROVING CAPABILITY
AND COMPETITIVENESS



Thursday 7 June 2007

0900-1600

Brisbane Convention and Exhibition Centre, Brisbane, AUSTRALIA



SimTect 2007 is held under the auspices of the
Simulation Industry Association of Australia (SIAA) Ltd
ABN 13 087 862 619



Outline of Symposium

This Symposium will provide an overview of the key issues and concepts associated with the use of simulation for Homeland Security applications. The Symposium will provide an introduction and case studies/ lessons learnt from key practitioners in the field.

Target Group

A broad range of Managers, Technologists and Systems Engineers having a vested interest in the area of Homeland Security.

Benefits of Participation

Participation will generate a broad knowledge in use of simulation to support Homeland Security. It will provide lessons learned from practitioners and how it can be best managed and deployed for optimal analysis, rehearsal and training transfer.

Objective

This Symposium encourages those agencies and organisations with security needs, to engage with local and international providers, to elicit areas of commonality, challenges, standards required, and a way ahead.

Who Should Attend

Federal, state and local government agencies, defence, utilities, telecommunications providers, major infrastructure owners, healthcare, national security consultants, simulation providers, data providers.

Disclaimer: *The Conference program and registration information is correct at the time of printing. However, the organisers reserve the right to change the information where necessary without notice.*

The Use of Modelling and Simulation in National Security [Keynote Address]

Dr Richard Davis

Thursday 7 June 2007

1030-1120

In 2006, Dr Richard Davis became Head of the National Security Science and Technology (NSST) Unit within the Department of Prime Minister & Cabinet. The NSST Unit role is to act as a national focus for science and technology to support Australia's counter terrorism capability. This keynote is presented as part of **SimTecT 2007**.

Outline of Program

1300-1600

Introduction	David McKeague
Scene setting	Richard Davis
Case Studies and User Requirements	Presenters listed above, plus others working in Emergency Management and National Security
Challenges/Directions	
Panel/Audience Discussion	Moderator - David McKeague



Richard Davis

*Head National Security Science & Technology Unit
Prime Minister & Cabinet Department, Australia*

Dr Davis has a BSc and MSc in Psychology and a PhD in Human Computer Interaction. He worked as a Defence consultant in the UK for a number of years before moving to the Defence Science and Technology Organisation (DSTO) in 1991 to work on Command and Control systems. Initial projects included distributed collaborative planning, knowledge & information management and HQ analysis & design. On promotion to Research Leader in 2000, the focus shifted to examining whole of force capabilities, with an emphasis on Joint Experimentation, Networked Warfare, Systems Engineering/Architectures and Modelling & Simulation. Dr Davis was the founding leader of the DSTO Modelling & Simulation Hub.

Chris Pogue

*President
CAE Professional Services, Canada*

Chris is a leader and innovator in the field of Capability Engineering and his efforts over the past 5 years have seen the evolution and adaptation of Capability Engineering practices to the Department of National Defence and the Homeland Security sector in Canada. He has extensive experience providing capability engineering support and strategic guidance to Emergency Services training colleges, DRDC Ottawa's Future Force Synthetic Environment Section (FFSE), the C4ISR capability area, aerospace strategic planning, and the Collaborative Capability Definition, Engineering and Management TDP (CapDEM). Chris served in the Canadian Air Force accumulating over 3500, C-130 hours in Search and Rescue (SAR), Strategic and Tactical Airlift missions in Canada and around the world. He also served as the Aerospace Systems Flight Commander at the CF School of Aerospace Studies (CFSAS) and within the research and development community at DRDC Atlantic. Chris retired from the Air Force in 2003 as the lead military operator in the DND Synthetic Environment Coordination Office (SECO) at the CF Experimentation Centre (CFEC).

Dr Rick Nunes-Vaz

*Senior Analyst
Land Operations Division
Defence Science and Technology Organisation (DSTO)*

Rick works in both the defence and civilian sectors of national security. Since joining DSTO in 2000 and prior to 2005, he led areas of capability and methodology development in support of Defence experimentation. Rick has a physics degree from Imperial College, London and completed his PhD in oceanography at the University of Wales. He also holds postgraduate qualifications in arts and engineering. He held academic positions in oceanography at Flinders University of South Australia and University of New South Wales until 2000 and has an extensive publication record in a number of disciplines.

Richard Hodge

Booz Allen Hamilton

Mr Hodge is leading the Defence strategy and planning account within Booz Allen's Canberra-based, Defence and Strategic Security business, covering Booz Allen's government work in strategy for defence, national security, critical infrastructure protection (CIP), enterprise resilience and simulation. He has 23 years experience in national security policy development and strategic systems analysis, having a terrorism security risk analysis for a commercial transport infrastructure operator in Melbourne, co-led the review of the NZ Health System's capacity to respond to serious and unusual emergencies. He also contributed to the stakeholder engagement and risk analysis in our CIP work in the Banking and Finance sector. Mr Hodge was lead author for the recently published Defence Simulation Roadmap, having also worked with Defence to examine experimentation processes as an integral element of its strategy and capability life cycles and define the role of simulation within those processes to enhance capability, save resources and reduce risk.

Dr Michael Ling

*Senior Complex Systems Analyst
Human Protection and Performance Division
Defence Science and Technology Organisation (DSTO)*

Since joining DSTO in 1999, Michael has worked on a range of topics including military experimentation, campaign modelling, systems and operational analysis, and modelling and simulation. Michael's research interests include the dynamics of interactions in complex systems, and he is responsible for the development of the Dynamic Agents Representation of Networks of Systems (DARNOS) project for modelling Network Centric Warfare and command and control. More recently, Michael turns his attention to operational level modelling and analysis of the impact of chemical, biological and radiological attacks on military operations and the response options for National Security response agencies in the context of civilian counter-terrorism.

David McKeague

*Principal
Xon Xoff Pty Ltd*

For seven years Xon Xoff has been providing strategic advice on emerging technologies and industries to a broad range of clients. David has over 18 years experience covering a wide range of systems technologies in Command and Control, Simulation systems, High Performance Computing, Communications, and Information Security systems. He has authored a major study into the emerging / developing National Security / Homeland Security industry. "The Race to Close" provides insight into how simulation can be harnessed to close a number of critical capability gaps.

