



Ministry
of Defence



Second International Cyber Symposium

Cyberspace and the Transformation of 21st Century Warfare

19-20 October 2016
Church House, London

Day One: Wednesday 19 October

0900 **Registration and welcome coffee**

1000 **Keynote Addresses**
Speaker: **The Rt Hon Mike Penning MP**, Minister of State for the Armed Forces

1015 **Context Setting**
Speaker: **General Sir Gordon Messenger**, Vice-Chief of Defence Staff

1030 **Session One: How should military objectives and capabilities be integrated into National Cyber Strategy?**

Chair: **Professor Malcolm Chalmers**, Deputy Director-General, RUSI

Speakers: **Paddy McGuinness**, Deputy National Security Advisor, Cabinet Office
Professor David Betz, Professor of War in the Modern World,
Department of War Studies, King's College London
Conrad Prince, Cyber Security Ambassador, Defence and Security
Organisation, Department for International Trade
Air Marshal Philip Osborn, Chief of Defence Intelligence

1200 **Lunch**
Kindly sponsored by: **THALES**

1300 **Session Two: What is the nature of future threats in cyberspace?**

Chair: **Ewan Lawson**, Senior Research Fellow, RUSI

Speakers: **Sven Sakkov**, Director, NATO Cooperative Cyber Defence Centre of Excellence
Paul Chichester, Director of Operations, National Cyber Security Centre
Oisín Fouere, EMEA Head of Cyber Investigations and Defence, K2

1430 **Tea**

1500 **Session Three: How should nations respond to the international/domestic, legal and policy consequences of developments in cyber capability and practice?**

Chair: **Elizabeth Quintana**, Director, Military Sciences, RUSI

Speakers: **Professor Thomas Rid**, Professor of Security Studies, Department of War Studies, King's College London
Ambassador Sorin Ducaru, Assistant Secretary General for Emerging Security Challenges, NATO
Nigel Inkster, Director of Future Conflict and Cyber Security, International Institute for Strategic Studies (IISS)
Captain Wen Baihua, Associate Professor, Information Management Center, PLA National Defense University Beijing

1630 **Day 1 Capstone Summary**

Speaker: **Lieutenant General James K. "Kevin" McLaughlin**, Deputy Commander, US Cyber Command

1700 **Conference Drinks Reception**

Kindly sponsored by:





Ministry
of Defence



Second International Cyber Symposium

Cyberspace and the Transformation of 21st Century Warfare

19-20 October 2016
Church House, London

Day Two: Thursday 20 October

0830 **Registration and welcome coffee**

0900 **Session Four: How can governments and defence departments work effectively with industry?**

Chair: **Dr Kevin A. O'Brien**, Senior Manager, Cyber/Digital Intelligence, Accenture

Speakers: **James Snook**, Deputy Director, Office of Cyber Security & Information Assurance, Cabinet Office
Andre Pienaar, Founder and Executive Chairman, C5
Major General Ivan Hooper, ISS Director Operations
Dr Andrew Tyler, Chief Executive Europe, Northrop Grumman
Dr Lucas Kello, Senior Lecturer in International Relations; Director of the Cyber Studies Programme; Co-Director of the Centre for Doctoral Training in Cyber Security, University of Oxford

1025 **Coffee**

1050 **Session Five: What are the practical challenges presented by developments in cyberspace for military capability?**

Chair: **Peter Roberts**, Senior Research Fellow, RUSI

Speakers: **Vice Admiral Arnaud Coustillière**, French Cyber Commander, Ministry of Defence, France
Major General James Hockenull, Director, Cyber Intelligence and Information Integration (DCI3), Joint Forces Command
Brigadier General Paul Rutherford,
Director General Information Management Operations,
Canadian Armed Forces

1215

Lunch

Kindly sponsored by:



1300

Session Six: How do we integrate cyber capabilities into full spectrum operations?

Chair:

Sir David Capewell, Senior Associate Fellow, RUSI

Speakers:

Colonel Eric Alardet, Deputy-Cyber, Planning and Operations Centre, French Defence Staff

Brigadier-General Professor Paul Ducheine, Professor for Cyber Operations and Cyber Security, Netherlands Defence Academy

Air Vice Marshal Gary Waterfall, Chief of Staff Operations, Permanent Joint Headquarters

1415

Keynote

Speaker:

The Rt Hon Sir Michael Fallon MP, Secretary of State for Defence

1430

Closing Reflections

Speaker:

Major General James Hockenhull, Director, Cyber Intelligence and Information Integration (DCI3), Joint Forces Command

1450

Close of Conference