

SINGAPORE DEFENCE TECHNOLOGY SUMMIT

Rapid advances in technology have and will continue to shape the nature of military and security operations. Today, defence forces and security agencies have to deal with diverse and complex missions, ranging from counter-terrorism to cybersecurity and hybrid warfare. Innovative concepts of operation will be required. The development and sustenance of defence and security capabilities are correspondingly getting increasingly difficult and challenging. Deciding on the technologies to invest in and transitioning them quickly to the forces is no small feat. However, there are opportunities for collaboration.

The **Singapore Defence Technology Summit** or “Tech Summit” in short is a unique gathering of global thought leaders from defence, security establishments, industry, academia and think tanks to network, confer and collaborate in the development of defence and security capabilities.

Attendees will include:

- Defence technology policy makers
- National armament directors responsible for capability development
- Chief Defence Scientists responsible for research and development
- Chief Executive Officers and Chief Technology Officers from the industry
- Thought leaders from academia and think tanks

Theme

**Impact of the 4th Industrial Revolution
on Defence and Security**

Guest of Honour

Mr Teo Chee Hean

Deputy Prime Minister and
Coordinating Minister for National Security

Date

27-29 June 2018

Venue

Shangri-La Hotel, Singapore

Participation is by invitation only. Contact techsummit@dsta.gov.sg

P R O G R A M M E

Wednesday 27 June 2018

1800hrs Cocktail Reception followed by Opening Dinner

Welcome Address by Dr Ng Eng Hen, Minister for Defence, Singapore

Thursday 28 June 2018

0900hrs Opening Remarks

0920hrs Keynote Address by Mr Teo Chee Hean, Deputy Prime Minister and Coordinating Minister for National Security, Singapore

0940hrs Tea Break

1010hrs **Plenary Session 1 – Opportunities and Challenges for Defence and Security**

Moderator: Dr Kathleen Hicks, Senior Vice President; Henry A. Kissinger Chair; Director, International Security Program, Center for Strategic and International Studies, USA

Speakers include:

- Dr Thomas Burns, Director, Strategic Technology Office, Defense Advanced Research Projects Agency, USA
- BG(Ret) Dr Daniel Gold, Head, Directorate of Defense Research and Development, Israel
- IGA Caroline Laurent, Director, Strategy Directorate, Directorate-General for Armaments, France
- Mr Jan-Olof Lind, Director General and President, Swedish Defence Research Agency, Sweden
- Mr Quek Gim Pew, Chief Defence Scientist and Future Systems and Technology Architect, Singapore

1210hrs Lunch

1330hrs **Plenary Session 2 – Technological Advancements and Disruptions**

Moderator: Dr Anthony Tether, Former Director, Defense Advanced Research Projects Agency, USA

Speakers include:

- Prof Hugh Durrant-Whyte, Chief Scientific Adviser, Ministry of Defence, UK
- Dr Hong Won-Pyo, President and Chief Executive Officer, Samsung SDS, South Korea
- Prof Richard Kitney, Professor of BioMedical Systems, Department of Bioengineering, Imperial College, UK
- Mr Peter Platzer, Chief Executive Officer and Founder, Spire Global Inc, USA
- Prof Tang Xiaou, Founder, SenseTime, People's Republic of China

1530hrs Tea Break

1600hrs **Plenary Session 3 – Innovation through Collaboration**

Moderator: Prof Low Teck Seng, Chief Executive Officer, National Research Foundation, Singapore

Speakers include:

- Dr Jean-Luc Beylat, Chairman, Business Cluster for Systematic Paris-Region, France
- Mr Antoine Bouvier, Chief Executive Officer, MBDA, France
- Vice ADM Arie Jan de Waard, National Armament Director and Director, Defence Materiel Organisation, Netherlands
- Dr Chris Kirchoff, Visiting Technologist, Harvard University and Former Partner, Defense Innovation Unit Experimental, USA
- Prof Alberto Sangiovanni-Vincentelli, The Edgar L. and Harold H. Buttner Chair, Department of EECS, University of California, Berkeley, USA

1800hrs Networking Cocktail followed by Dinner

P R O G R A M M E

Friday 29 June 2018

0900hrs Breakout Session 1: Realising the Potential of Autonomous Systems

Moderator: **Mr John Markoff**, Pulitzer Prize Winner, Author of *Machines of Loving Grace*, USA

Speakers include:

- **Mr Amir Husain**, Founder and Chief Executive Officer, SparkCognition; Author of *The Sentient Machine: The Coming Age of Artificial Intelligence*, USA
- **MG(Ret) Robert Latiff**, Consultant and Author of *Future War: Preparing for the New Global Battlefield*, USA
- **Dr Robert Sadowski**, Army Chief Robotacist, US Army Tank Automotive Research, Development and Engineering Center, USA

OR Breakout Session 2: Finding the Terrorist in Big and Small Data

Moderator: **Mr Cheong Chee Hoo**, Chief Executive Officer, DSO National Laboratories, Singapore

Speakers include:

- **Prof Anthony Finkelstein**, Chief Scientific Adviser for National Security, UK
- **Dr Kira Radinsky**, Chief Scientist and Director of Data Science, eBay, Israel
- **Prof Neil Robertson**, Founding Chief Technology Officer, AnyVision; Professor of Research for Image and Vision Systems and Director of Research for Data Science and Scalable Computing, Queen's University of Belfast, UK
- **Dr Wu Shuang**, Scientist, Head of Research in Singapore and Silicon Valley, YITU Technology, People's Republic of China

OR Breakout Session 3: Forging a New Cyber Security Paradigm

Moderator: **Mr David Koh**, Defence Cyber Chief and Chief Executive, Cyber Security Agency, Singapore

Speakers include:

- **GEN(Ret) Keith Alexander**, Founder and Chief Executive Officer, IronNet Cybersecurity, USA
- **Mr Srinivasan CR**, Chief Digital Officer, Tata Communications, India
- **Prof Stuart Madnick**, John Norris Maguire Professor of Information Technologies, MIT Sloan School of Management and Professor of Engineering Systems, MIT School of Engineering; Founding Director of MIT's Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity, USA
- **Mr Hudi Zack**, Acting Chief Executive Director, Technology Unit, Israel National Cyber Directorate, Israel

1100hrs Tea Break

1130hrs Summary Plenary

Moderator: **Dr Linton Wells II**, Former Acting Assistant Secretary of Defense and Department of Defense Chief Information Officer, USA

Panellists include:

- **IGA(Ret) Laurent Collet-Billon**, Former Director General, Directorate-General for Armaments, France
- **Mr Peter Ho**, Senior Advisor, Centre for Strategic Futures, Prime Minister's Office, Singapore
- **Mr Frank Kendall**, Former Under Secretary of Defense (Acquisition, Technology and Logistics), USA
- **Mr Thomas Philbeck**, Head of Science and Technology Studies, World Economic Forum, Switzerland

1300hrs Lunch

1430hrs Site Visits (*Choice of one*)

- Campus for Research Excellence and Technological Enterprise (CREATE)
- DSO National Laboratories
- Gardens by the Bay
- Littoral Mission Vessel
- NEWater Visitor Centre
- Port Operations Command Centre
- Singtel's Future Now Innovation Centre
- Smart Airbase of the Future
- ST Engineering
- Woodlands Checkpoint

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