



IRAHS SYMPOSIUM 19-20 MAR 2007

Centre of Excellence for National Security (CENS)

Programme Highlights and Speaker Profiles

Day One – 19 March 2007 (Monday)

Panel 1 (Singapore, RAHS and the Civil Service Initiative)

Richard Lim (Defence Science & Technology Agency), “Introduction of Panel 1”. Richard is the Chief Executive of DSTA and a former Deputy Secretary of Technology at the Ministry of Defence, Singapore. From 1996 to 1999, he held the position of Chief of Navy, Republic of Singapore Navy.

How Khee Yin (Defence Science and Technology Agency), “The Progress to Date on the RAHS Project”. Khee Yin is a deputy director of DSTA and a winner of Singapore’s Defence Technology Prize in 2003.

John Peterson (Arlington Institute), “RAHS— An Important Idea Whose Time Has Come”. John is best known for his work in the area of high impact surprises— “wild cards”— as well as the area of surprise anticipation. He is one of two principle consultants to the RAHS project.

Dave Snowden (Cognitive Edge), “How RAHS Can Make Networked Government a Reality”. Dave is known for his Cynefin framework, one of the first practical applications of complexity theory to management science. He is the other principle consultant to the RAHS project.

Alicia Juarrero (Prince George’s Community College), “The Philosophy behind RAHS”. Alicia is a professor of philosophy, and her areas of research include work with “attractors” in complex adaptive systems.

Keynote Speaker Lunch Address

Speech by James Surowiecki, Author of *The Wisdom of Crowds*. James is an acclaimed American journalist at *The New Yorker*, where he writes a column on business and finance. He is famed for the international bestseller, “*The Wisdom of Crowds*”.

Panel 2 (RAHS Concepts and Methods)

Lam Chuan Leong (Ministry of Foreign Affairs, Singapore), “The Importance of Diversity in Horizon Scanning”. Chuan Leong is an Ambassador-at-Large for Singapore. He is also the Chairman of the Infocomm Development Authority as well as Chairman of the Competition Commission.

Paul Ormerod (Volterra Consulting Inc.), “Cognitive Mapping”. Paul is a theoretical economist as well as a founding director of Volterra Consulting. He is the author of the well-known book, “*Why Most Things Fail: Evolution, Extinction & Economics*”.

Paul Saffo (Institute for the Future), “Studying the Future Systematically”. Paul is the Roy Amara Fellow at the Institute for the Future, a research firm which focuses on emerging trends and discontinuities that transform the global marketplace.

Gary Ackerman (Center for Terrorism and Intelligence Studies), “Mapping the Threatscape”. Gary is Director of the U.S. Center for Terrorism and Intelligence Studies as well as the Director of the WMD Terrorism Research Programme at the Monterey Institute of International Studies. His work focuses on the various aspects of terrorism, including modeling and simulation of terrorist behavior as well as threat assessment.

Max Boisot (ESADE, Spain), “The Information-Space”. Max is best known for his work on the conceptualization of the “Information Space”, which examines the nature of information and the dynamics of information sharing.

Gary Klein (Klein Associates), “Naturalistic Decision-making”. Gary is noted for his work in the field of naturalistic decision making, particularly in demanding situations that are marked by time pressure and organizational constraints.

Day Two – 20 March 2007 (Tuesday)

Panel 3 (Technology and RAHS)

John Poindexter, “Technology Panel Introduction”. John was Director of the Defense Advanced Research Projects Agency (DARPA)’s Information Awareness Office which had been tasked to develop the Total (Terrorism) Information Awareness programme.

Bernardo Huberman (Hewlett-Packard), “Predicting the Future”. Bernardo is a Senior HP Fellow and the Director of the Information Dynamics Lab at HP. He is currently working on the design of novel mechanisms for discovering and aggregating information in distributed systems as well as understanding the dynamics of information in large networks.

John Lowrance (Stanford Research Institute), “Structured Argumentation and Brainstorming by Analyst Teams”. John is Director of the Representation and Reasoning Programme at the Artificial Intelligence Center, a unit of the Stanford Research Institute. His recent work centers on making evidential reasoning accessible to real world analysts and decision makers.

Michael Stein (British Aerospace), “Data”. Michael is a mathematician and an internet strategist currently with British Aerospace. He is developing algorithms to detect pre-patterns or associations across disparate pieces of information.

Jeff Jonas (IBM). Jeff is the Chief Scientist of IBM’s Entity Analytics Solutions Group and is in charge of shaping the overall technical strategy of next generation identity analytics and its application for IBM. He is also a member of the Markle Foundation Task Force on National Security in the Information Age.

Keynote Speaker Lunch Address

Speech by Jaron Lanier. Jaron is famed for his work on Virtual Reality (VR)—a term that he coined in the 1980s—and is the founder of VPL Research, the first enterprise to sell VR products. He is known as the “prodigy” amongst the American cyber elite (also called the “digerati”) and is a winner of various computing awards.

Panel 4 (Country and Domain Options for RAHS)

Chan Heng Kee (Civil Service College, Singapore), “Introduction of Domain and Country Panel”. Heng Kee is the Dean and Chief Executive Officer of Singapore’s Civil Service College. He is also the Deputy Secretary of Development at the Prime Minister’s Office in Singapore.

Rupert Lewis (National Horizon Scanning Centre, UK), “Horizon Scanning and the United Kingdom”. Rupert is Head of UK’s National Horizon Scanning Center, an organization which promotes governmental horizon scanning activities and inter-agency decision making. The Center also spots emerging trends relating to science and technology.

Alex Wolfson (Nokia), “The Nokia WorldMap”. Alex is a senior manager in Nokia’s Corporate Strategy and Foresight department. His department identifies emerging disruptive technologies, analyzes their consequences and pinpoints business opportunities for the company.

Gregory Sherman (Office of Public Health Practice, Public Health Agency of Canada), “The GPHIN Experience and Public Health Horizon Scanning”. Gregory was one of the two persons who conceived the Global Public Health Intelligence Network (GPHIN) based in Canada. GPHIN searches the internet and other databases for informal sources of information on disease outbreaks, and contributes to global intelligence on communicable diseases.

Dave Martin (M.CAM Inc.), “Risk Assessment and Horizon Scanning in the World of Finance”. David is the founding CEO of M.CAM Inc, the international leader in intellectual property based financial risk management. He is known for his expertise in intangible asset risk management and accounting standards.

Heinrich Stuckenschneider (Siemens Corporate Technology Group), “Pictures of the Future”. Heinrich is Head of Strategic Marketing at Siemens. Using Siemens’ “pictures of the future” methodology, he oversees research into future markets and provides strategic recommendations for the organization’s direction.

Other Events

Jerry Michalski (Sociate). Jerry will be the “dot-connector” for the symposium as well as the moderator for the open-space forum—a free-following discussion platform during the first day of the Symposium. Jerry is a “pattern finder” and conducts research into technology-human interfaces. He is also the founder and president of Sociate, a technology consulting firm.

John Kao (Kao & Company) John is Chairman of Kao & Company as well as the founder of the Idea Factory. A well known speaker on corporate innovation and transformation, John will be providing a conceptual introduction to the Symposium at the pre-event cocktail reception. [Note: reception is for selected guests only]