

Disaster Management Workshop

6th December 2011

Allens Arthur Robinson Theatre (G23)

Law Building
The University of New South Wales



www.acser.unsw.edu.au

Disaster Management Workshop Program Tuesday 6 th December 2011		
8.30 am	COFFEE / REGISTRATION	
9.00 am	Andrew Dempster Welcome & Introduction	ACSER
9.15 am	Joe Andrews Use of Satellite Imagery for Disaster Response	Space Policy Unit
9.40 am	Anthony Rea Use of Real Time Remotely Sensed Data in Extreme Weather Events	Bureau of Meteorology
10.05 am	Norman Mueller Geoscience Australia's Capability in Emergency Response from Satellite Imagery	Geoscience Australia
10.30 am	MORNING TEA	
Satellite Communications		
10.55 am	Paul Sheridan Answering the Call	Optus Satellite
11.20 am	David Ball Satellites to the Rescue	NewSat
11.45 am	Paul Krzystoszek Satellite Communication Solutions Overview	Australian Satellite Communication P/L
12.10 pm	LUNCH	
Remote Sensing		
1.10 pm	Anthony Milne Earth Observation and Deriving Spatial Information for Disasters and Hazards	UNSW
1.35 pm	David Hall International Charter - Space and Major Disasters	Astrium
2.00 pm	Steven Tsitas Flood Monitoring Design Process	ACSER
2.25 pm	AFTERNOON TEA	
Satellites U		
2.50 pm	Andrew Edwards Creating and Using Satellite Derived Spatial Datasets to Monitor, Manage and Assess the Effect of Fire in Northern Australia	Bushfire Council NT
3.15 pm	Andrew Matthews Fire Monitoring from the Ground Up	DSE Victoria
3.40 pm	Discussion	
5.00 pm	WORKSHOP CLOSE	

Speakers



Andrew Dempster is Director of the Australian Centre for Space Engineering Research (ACSER) at the University of New South Wales (UNSW). Andrew is leading the Garada project, which supports the development of Australia's capability in the rapidly expanding field of satellite earth observation. Garada will also focus on the important national and transferable benefits for environmental monitoring and disaster mitigation, climate change science, national security and policy development.



Joe Andrews is the Assistant Manager of the Space Policy Unit, Department of Innovation, Industry, Science and Research. The Space Policy Unit co-ordinates Australia's national and international space activities, delivers the Australian Space Research program and is developing a national space policy for Australia. Joe will talk about a joint project undertaken by the Space Policy Unit, Geoscience Australia and the CRC for Spatial Information to gain greater understanding of the use of satellite imagery, and spatial information more generally, in responding to disaster situations.



Anthony Rea is the Head of the Bureau of Meteorology's Planning and Strategy Section, within the Observations and Engineering Branch. The Section manages the strategic planning of the Bureau's national observations network, including staffed stations, automatic weather stations, radars, satellite reception facilities and marine networks, across Australia and the surrounding region. Anthony also leads satellite-related activities within the Branch. After graduating as a surveyor, Anthony worked in a number of different fields, including oil exploration, road construction and hydrography, before joining the Bureau of Meteorology in 2000. In 2005 he obtained his PhD from RMIT University in the use of meteorological satellites for tracking cloud motion.



Norman Mueller is a Remote Sensing Applications Scientist and the Emergency Response Coordinator of the National Earth Observation group at Geoscience Australia. Norman has a background in physics and IT and entered the remote sensing and GIS field in 2002. Since 2007 he has specialised in the detection and feature extraction of water in the landscape from optical satellite imagery and more recently radar imagery.



Paul Sheridan has been with Optus since 1994 and has over 25 years experience in the Satellite industry. Since November 2005 he has held the role of Director, Optus Satellite. Paul leads a team responsible for all facets of Optus' satellite business across Australia and New Zealand. Under Paul's leadership the Optus Satellite business has undergone a transformation, investing over \$600M in a growth strategy which has added an additional satellite, Optus-D3 to the Optus fleet effectively increasing the on-orbit capacity by 30%. Paul is proud to represent the only satellite operator invited to participate in the development of Australia's critical space policy, as part of the Space Industry Innovation Council.



David Ball, the Chief Technology Officer at NewSat, has 25 years of experience in the telecommunications, media and technology sectors with a significant portion of his career specialising in satellite communications. David has held senior positions encompassing sales team management, product development, engineering and space systems development. Prior to joining NewSat, David was the Regional Vice President Asia-Pacific for Intelsat and also held that position for PanAmSat prior to the merger between PanAmSat and Intelsat in 2006. More recently, David was the Managing Director for Intelsat Broadband Pty Ltd, a subsidiary of Intelsat Corporation.



Paul Krzystoszek originates from Poland and arrived in Australia in 1983. He graduated from University of South Australia with a Bachelor Degree in Mechanical Engineering and later on completed Advanced MBA at Adelaide University. He has held senior positions with Minelab Electronics as Manufacturing Manager and since 1999 as Operations Manager and more recently Operations and Marketing Manager with Australian Satellite Communications.



Anthony Milne is a Professor of Geography and Remote Sensing in the School of Biological, Earth and Environmental Sciences at the University of New South Wales, Sydney, Australia and Remote Sensing Science Manager of the Australian Government sponsored Cooperative Research Centre for Spatial Information (2003-2010). He is also a Co-Director of a private company, Horizon Geoscience Consulting Pty Ltd, founded in 2002.



David Hall has worked at EADS Astrium for the last 29 years. Having started in the ultra-high vacuum field working with mass spectrometers, he moved to work with thermal imaging systems and thence to Marconi, now Astrium, where his field encompasses radar, synthetic and real aperture, very low to very high frequencies as well as microwave and optical radiometers.



Steven Tsitas completed his PhD in Planetary Science with a Minor in Astronomy from the California Institute of Technology. He completed a MSc in Astronautics and Space Engineering at Cranfield University. His most recent papers detail the system design and commercial applications for an 8 kg, 6U CubeSat that can carry out the Earth Observation mission of a 150 kg micro-satellite. Steven is a Senior Research Associate at ACSER, UNSW where he works on the Garada project.



Andrew Edwards developed techniques for the mapping of fires using satellite imagery at various scales appropriate to fire management in the NT's extensive conservation estate, as a Spatial Scientist for Parks and Wildlife in the Northern Territory. Andrew was then seconded to Bushfires NT (the NT's rural fire service), employed specifically in research that underpins the west Arnhem Land Fire Abatement project. Andrew continues to be involved in the research to improve the parameters for calculating greenhouse gas emissions across potential Carbon Farming Initiative areas, and recently completed a PhD.



Andrew Matthews received his PhD (Geophysics - remote sensing of fire) from Monash University. He has 20 years experience working for the Victorian Department of Sustainability and Environment and its predecessors, specialising in remote sensing of fire, fire information and systems, aircraft management and more.



Kensington Campus Map

