



7TH INTERNATIONAL SYMPOSIUM ON DIGITAL EARTH

SUPPORTED BY:



IN CONJUNCTION WITH:



DAY ONE: TUESDAY 23 AUGUST 2011

8:00 - 8:30	Registration							
8:30 - 8:40	Welcome - MC Riverside Theatre							
8:45 - 10:15	ISDE Welcome Ceremony Welcome to Country Our World Presentation Official Opening - Hon Brendon Grylls Minister for Lands Launch of Digital Earth Vision 2020, ISDE President Riverside Theatre							
10:15 - 11:00	Keynote: Chris Holmes (OpenGeo) , Building the Same Digital Earth – spatial data infrastructure and architectures of participation Riverside Theatre							
11:00 - 11:30	Morning Tea sponsored by Spatial Vision							
11:30 - 12:15	Keynote: Elizabeth Lee (CyArk) , Digitally Preserving Cultural Heritage Sites Riverside Theatre							
	Digital Earth Vision Riverside Theatre Chair: Gerry Gannon	NRM Riverview Rooms 4 & 5 Chair: Piers Higgs	Digital Earth: the Urban Environment Meeting Rooms 1 - 3 Chair: Dr Marnie Leybourne	Data Management Meeting Room 6 Chair: Paul Duncan	Health Meeting Room 7 Chair: Dr Grace Yun	Digital Earth: the Marine Environment Meeting Room 8 Chair: Jenny Smith	Workshop 1 Meeting Room 9	Workshop 2 Meeting Room 10
12:15 - 12:45	Keynote: Professor Guo Huadong (ISDE) Digital Earth: From Theory to Action - a digital earth science platform in CAS	Maximising the Economic Value of Biosolids: creating catchment and waterway restoration, climate adaptation, and business improvement – all at once! Dr. Bob Humphries	The Path More Travelled Shawn Hickey	Landgate's Cartographic Enhancement Process Susan Burrows	Spatial Resolution, Health Informatics and Privacy Narelle Mullan	Performance of DEM Generation Technologies in Coastal Environments Prof. Clive Fraser		
12:45 - 13:15	Keynote: Professor Li Deren (ISDE) From Digital Earth to Smart Earth	Achieving Better Environmental and Sustainability Practices for SMEs Scott Favacho	Are our Neighbourhoods Livable? Paula Hooper	Effective Agency Collaboration in Managing the State's Topographic Database Marty Stamatis	Healthtracks - can you see Shannon Carter	WA Node of Australian Ocean Data Network Luke Edwards	Getting Your Paper Published - an editor's view A.P. Cracknell - University of Dundee, UK Sponsored by International Journal of Remote Sensing	
13:15 - 13:45	Keynote: Dr. Max Craglia (ISDE) A European Journey Towards Digital Earth	Total Resource Management Kathe Purvis	Road Rage or New Age Matthew Linnane	A Remote Sensing-Based Global Agricultural Drought Information System Dr. Meixia Deng	We Are What we Eat Damber Shrestha	The Construction of GIS-Based Marine Exploration Data Dongil Kim		
13:45 - 14:45	Lunch							
	Digital Earth Vision Riverside Theatre Chair: Gerry Gannon	NRM Riverview Rooms 4 & 5 Chair: Damian Shepherd	Digital Earth: the Urban Environment Meeting Rooms 1 - 3 Chair: Mark Taylor	Data Management Meeting Room 6 Chair: Peter Ingwersen	Mining and Minerals in Digital Earth Meeting Room 7 Chair: Stephen Bandy	Digital Earth: the Marine Environment Meeting Room 8 Chair: Rodney Hoath	Workshop 1 Meeting Room 9	Workshop 2 Meeting Room 10
14:45 - 15:15	Keynote: Michael Haines Virtual Australia: a tool for the 21st Century	Sustainable Farm Practices - a model for success Sandy Pate	A Framework for Mapping and Modelling Informality in the Urban Century Dr. Richard Sluza	Why Land and Property are not the Same? Simon Young	3D Mineral Map of Australia Dr. Thomas Cuddeby	Building and Progress of the China Digital Ocean Information Infrastructure Xiaoyi Jiang		Screening of 'Greener Horizons' – five wheatbelt farmers tell their tree crop stories. Monica Durcan A different story every 10 minutes: 14:50 – Andrew and Suzi Sprigg of Bonnie Rock 15:00 – Kingsley Vaux of Ongeup 15:10 – Norm and Trudi Quicke of Kulin 15:20 – Michael Hogan of Bencubbin 15:30 – Ian Hall of Aldersyde
15:15 - 15:45	Towards the Digital Earth - a virtual tour on HUNAGI blog posts Dr. Gabor Remetev-Fulopp	Using the Carbon Farming Initiative to Support Wetland Restoration Dr. Robert Wocheslander	Sydney Down Under - enabling the third dimension John Moore	WA's Street Address Improvement Program Dr. Lesley Arnold	Classification and use of Landform Information Deanna Tucker	GIS-Based Database Construction to Support Decision-Making on the Maritime Boundary Delimitation Dongchul Lee		
15:45 - 16:15	The Future of Earth Sciences Dr. Robert Bishop	Using Carbon and Water Ecosystem Services to Restore Catchment Function Prof. Richard Harper	Keynote: Prof. Dr. Manfred Ehlers Simplifying and Exchanging 3D Utility Network Using City Models	OneMap Nelson Liew	Model of Searching for Optimal Vehicle Route Assoc. Prof. Marian Rybansky	Creating a Marine Habitat Falak Sheth		
16:15 - 16:45	Stepping up: tackling the growth challenges that really matter Dr. Peter Woodgate	The Farm Practice Change Model: a method for achieving sustainable agriculture outcomes in the Western Australian Wheatbelt Dr. David Grasby	Automatic Generation of 3D City Models Prof. Kenichi Sugihara	Positional Accuracy Improvement Chee Ng	Comparison of Relative Radiometric Normalisation Methods Nisha Bao	Research and Realisation of Visual Digital Ocean Feng Zhang	Digital Cities Working Group Workshop on Digital Cities Objectives Richard Simson	
17:00 - 19:00	Welcome Reception sponsored by PSMA							

* SSSI CPD Points for Day One: 6.5 points

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DAY TWO: WEDNESDAY 24 AUGUST 2011

8:00 - 8:30	Registration							
8:30 - 8:40	Welcome - MC Riverside Theatre							
8:40 - 9:00	Keynote: Jack Dangermond (Esri), <i>The Geographic Approach (Pre-recorded Video Presentation)</i> Riverside Theatre							
9:00 - 9:45	Keynote: Ian Jackson (OneGeology Executive, British Geological Survey), <i>Liberating Rocks – the exploitation of geoscience data for societal benefit</i> Riverside Theatre							
9:45 - 10:30	Keynote: A/ Prof. Linlin Ge (University of NSW), <i>Near Real Time Mapping of Recent Flooding Events in Australia with Satellite Radar Interferometry</i> Riverside Theatre							
10:30 - 10:45	Discussion Time Riverside Theatre							
10:45 - 11:15	Morning Tea sponsored by Spatial Vision							
	Digital Earth and the Changing World Riverside Theatre Chair: Gerry Gannon	Digital Earth in Space Riverview Rooms 4 & 5 Chair: Matt Adams	NRM Meeting Rooms 1 - 3 Chair: Erin Devlin	ABCC Scientific Workshop Meeting Room 6 Chair: Dr. Peter Woodgate	The Social Impacts of the Changing World Meeting Room 7 Chair: Rob Freeth	Spatial Data Infrastructure (SDI) Meeting Room 8 Chair: Kylie Armstrong	Workshop 1 Meeting Room 9	Workshop 2 Meeting Room 10
11:15 - 11:45	Keynote: Dr. Robert Kay <i>Helping Pacific Islanders Visualise Potential Futures: using spatial tools to assess climate change impacts and adaptation responses in the Republic of Kiribati</i>	Keynote: Michele Clement <i>Digital Earth in a Space Policy Context</i>	Knotweed in Agricultural Land Kelli Gillies	<i>Climatological Analysis of Satellite-Based Snow Cover Parameters Over the Tibet Plateau</i> Dr. Qiu Yubao	<i>Addressing the Skills Shortage</i> Alan Smart	Keynote: Roland Slee (Oracle) <i>Next-Generation Spatial Data Infrastructure - Oracle Spatial Applications on Exadata and Exalogic</i>		
11:45 - 12:15	<i>Understanding the Impact of Volunteer Geographic Information During the Queensland Floods</i> Dr. Kevin McDougall	<i>The Achievements and Future Prospects of China Space Optical RS Technology</i> Feng Zhou	<i>Bullsbrook Biodiversity Corridor</i> Bonny Dunlop-Heague	<i>A Data Assimilation Approach for Producing Daily Snow Cover Maps Using the Canadian Meteorological Centre Snow Depth Analysis and Daily Satellite Observations</i> Rasim Latifovic	<i>Developing a Land Account for Australia</i> Mark Lound	<i>The Pioneering Relationship Between PSMA and Eurogeographics</i> Sallie White		
12:15 - 12:45	<i>The Future of GIS</i> Paul Farrell	<i>Research on the Construction of Virtual Lunar Environment Platform</i> Dr. Min Chen	<i>Lake Meallup Recovery Program</i> Agnidhar Bhandari	<i>Muztaga Glacier Velocity Extraction Based on the Offsets Derived from SAR Images</i> Dr. Li Xinwu	<i>Collaborative Slum Mapping with Google Map Maker</i> Dr. Richard Sliuzas	<i>ANZLIC Economic Assessment</i> Martin van Bueren		
12:45 - 13:15	<i>GeoDesign for Sustainable Development</i> Tom Gardner	<i>Image Reconstruction in the Contour Domain</i> Dr. Gabriel Scarmana	<i>Bay OK - shining the spotlight on water</i> Gene Hardy	<i>Attending the Glacier Size Biases in Canada's Reference Glacier Mass Balance Observing System</i> Paola de Rose	<i>GIS-Based Spatial 3D Visual Highway Construction</i> Liwei Wang	<i>How do you provide simple-to-use geospatial workflows to non-GIS experts that are cost-effective and manageable</i> Anton van Wyk	O-Spec and Prelude to B-Spec George Havakis	Screening of 'Greener Horizons' – five wheatbelt farmers tell their tree crop stories. Monica Durcan A different story every 10 minutes: 12:20 – Andrew and Suzi Sprigg of Bonnie Rock 12:30 – Kingsley Vaux of Ongerup 12:40 – Norm and Trudi Quicke of Kulin 12:50 – Michael Hogan of Bencubbin 13:00 – Ian Hall of Aldersyde
13:15 - 13:45	<i>Geospatial Visualisation in Place: new opportunities with augmented reality</i> Prof Mark Billinghurst	<i>Integrated Database Design</i> Sungjoo Lee	<i>Restoring Lake Ewilyamartup</i> Ella Maesep	<i>A Trial of Landcover Change Carbon Accounting in Guangxi Province</i> Dr. P. A. Caccetta	<i>Strategic Planning - a new approach using modern technology</i> Alex Leith	<i>Spatial Data as a Service</i> Paul Tetley		
13:45 - 14:45	Lunch sponsored by Whelans							
	The Social Impacts of the Changing World Riverside Theatre Chair: Gerry Gannon	GIS and NRM Riverview Rooms 4 & 5 Chair: Bruce Hamilton	NRM Meeting Rooms 1 - 3 Chair: Marieke Jansen	ABCC Scientific Workshop Meeting Room 6 Chair: Dr. Hilceea Ferreria	Digital Earth Technologies Meeting Room 7 Chair: Mike Ridout	Spatial Data Infrastructure (SDI) Meeting Room 8 Chair: Marty Stamatis	Workshop 1 Meeting Room 9	Workshop 2 Meeting Room 10
14:45 - 15:15	<i>Social Impact Assessments of Major Development Projects</i> Andreas Sadler	<i>Remote Sensing of Intensively Managed Dairy Pastures of NZ</i> Dr. Rebecca Handcock	<i>Adaptive Management - developing IT to incorporate social science into environmental management auditing of small businesses (SMEs)</i> Paul Lock	<i>Landscape-Scale Monitoring and Modelling Applied in a Chinese Environment</i> Dr. Peter Caccetta	Keynote: Assoc. Prof. Dr. Temenujka Bandrova <i>Multifunctional Cartographic Application of 3D Model</i>	<i>A-Spec.....What are the lessons for developing specifications?</i> George Havakis	ANZLIC - OSDM Access and Discovery Tools John Weaver and Margie Smith Office of Spatial Data Management	
15:15 - 15:45	<i>Citizen Science and the Environment</i> Piers Higgs	<i>Improvement of Land Cover Classification</i> A/ Prof. Linlin Ge	<i>Managing the Impacts of Peri-Urban Development</i> Stephen Farrell	<i>Land Cover Time Series from Long-Term Satellite Data Records</i> Rasim Latifovic	<i>On Geographical Thought and Research Methods Based on Digital Earth</i> Prof. Xinyuan Wang	<i>Growth While Maintaining the Integrity of the Network</i> Bob Schwartz		
15:45 - 16:15	<i>PGIS Supported Knowledge Based Participation/ Empowered Community Members</i> Dr. Mulalu Mulalu	<i>Prototyping the Visualisation of Geographic and Sensor Data</i> Dr. Petr Kubicek	<i>How do we get Women to the NRM Party?</i> Natarsha Woods	<i>Characterisation of Human Occupation Trajectories – Patterns in the Amazon through Data Mining</i> Dr. Hilceea Ferreria	<i>Immersive Technologies, Human Computer Interfaces and Digital Earth</i> David Wortley	<i>Managing Scheme Evolution in a Federated Database</i> Xiaoping Wu		WA Local Government GIS Workshop Paul Jupp
16:15 - 16:45	Keynote: Alison McGilvray <i>Managing WA's Western Deserts with the Traditional Owners</i>	<i>Three Gorges Project Eco-Environmental Information System</i> Bing-Jiang Wu	<i>Working with the Wine Industry on Improving Energy and Water Management</i> Keith Pekin	<i>Comparative Study of Urban Land Cover Change - Tianjin and Toronto</i> Dr. Li Xinwu	Keynote: Prof. Dr. Manfred Ehlers <i>An Empirical Case Study for the Importance of Mobile Webmapping</i>	<i>Opening up Enterprise GIS: a Web 2.0 spatial architecture</i> Brian Hope	IJDE Editorial Board Meeting Closed Session	
16:45 - 17:15	<i>Dynamic Visualisation of Tourism Impact</i> Prof. Geoff West	<i>TargetOn – facilitating and measuring on-ground action by farmers using collaborative Web 2.0 technologies</i> Ian Kininmonth	<i>Evaluation of the Effectiveness of the Blackberry Containment Zone, South West Western Australia</i> Andrew Reeves	<i>Forest Information Monitoring in Tasmania using Synthetic Aperture Radar Data</i> Prof. Tony Milne	<i>The Issue of Cloud Computing for Digital Earth</i> Dr. Yong Xue	<i>An SDI for Points of Interest</i> Peter Twiby		
19:00 - 23:00	Gala Dinner sponsored by <i>Helping Hand</i> Dinner Speakers: Fiona Milburn and Mark Schafer from <i>WireFrame Inc.</i> , "Playing in the Foam"							

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DAY THREE: THURSDAY 25 AUGUST 2011

8:45 - 9:15	Registration							
9:15 - 9:25	Welcome - MC Riverside Theatre							
	The Cloud Discussion <i>Riverside Theatre</i> Chair: <u>Gerry Gannon</u> Co-Chair: Darren Mottolini	Health <i>Riverview Rooms 4 & 5</i> Chair: <u>Narelle Mullan</u>	Digital Earth: Emergency Management <i>Meeting Rooms 1 - 3</i> Chair: <u>Prof. Dr. Milan Konecny</u>	GIS and NRM <i>Meeting Room 6</i> Chair: <u>Prof. Bert Veenendaal</u>	NRM <i>Meeting Room 7</i> Chair: <u>James Lush</u>	Earth Visualisation <i>Meeting Room 8</i> Chair: <u>Dr Alan Forghani</u>	Workshop 1 <i>Meeting Room 9</i>	Workshop 2 <i>Meeting Room 10</i>
9:30 - 10:00	The Cloud Presentations and Panel Discussion <u>Roland Slee</u> Oracle Matthew Coleman Google Earth Builder from an Ergon Energy Perspective co-presenting with Adrian Tout from Google Chaowei Yang George Mason University and CISC Dr. <u>Sonny Tham</u> Amistar, The NBN, GIS and "the Cloud" Prep time for WA Landcare Awards Gala Luncheon	<i>Where, How Far and at What Speed?</i> <u>Dr. Bryan Boruff</u>	<i>How LI Helps in Responding to Natural Disasters</i> <u>Ben Somerville</u>	<i>Landsat Vegetation Trends and Land Management</i> <u>Katherine Zdujic</u>	WA Landcare Award Finalists' Presentations	<i>Temporal Earth: Visualising World History at all Timescales</i> <u>Matt Collier</u>		
10:00 - 10:30		<i>Tobacco Outlets: exacerbating tobacco-use disparities between socio-economic groups?</i> <u>Dr. Grace Yun</u>	<i>National Exposure Profile</i> <u>Dr. Krishna Nadimpalli</u>	<i>Island Trails: using GIS to tread carefully through the planning process</i> <u>Shane Kearney</u>		<i>Digital Earth and Advancements in Evidence Driven 3D Visualisation</i> <u>Richard Simpson</u>		
10:30 - 11:00		<i>Extending Health Web Mapping with Spatial Analytical Tools</i> <u>Ishara Kotiah</u>	<i>3D Laser Scanner to Detect Large Reservoir Landslide Displacement</i> <u>Mowen Xie</u>	<i>Spatial Analysis Drives Strategic Investment</i> <u>Kylie Bishop</u>		<i>Fresh Eyes to Old Problems: extending the digital realm through interdisciplinary and community cooperation</i> <u>Dr. Felicity Morel-Ednie Brown</u>		
11:00 - 11:30		<i>Geospatial Related Activities After 3.11 Crisis in Japan</i> <u>Prof. Hiromichi Fukui</u>	<i>Managing Acid Sulphate Risk</i> <u>Dr. Balbir Singh</u>	<i>Using a Virtual Globe to Present National Geoscience Data</i> <u>James Navin</u>				
11:30 - 12:00		<i>An Integrated Approach to Controlling Weeds</i> <u>Klaus Braun</u>	<i>Presentation of Animal and Environmental Data</i> <u>Prof. Dr. Manfred Ehlers</u>					
12:00 - 13:00	Lunch							
	Rapid Fire Emerging Technologies <i>Riverside Theatre</i> Chair: <u>Gerry Gannon</u>	WA Landcare Awards Gala Luncheon (commences at 12:00) <i>Riverview Rooms 4 & 5</i> PR NRM Vision and Challenges <u>Dr. Bruce Hamilton</u> Estimating the Environmental, Social and Economic Value of Native Bushland <u>Paul Hardisty</u>	Digital Earth: Emergency Management <i>Meeting Rooms 1 - 3</i> Chair: <u>Prof. Dr. Milan Konecny</u>	ABCC Scientific Workshop <i>Meeting Room 6</i> Chair: <u>Paola de Rose</u>	Monitoring Digital Earth <i>Meeting Room 7</i> Chair: <u>Dr. Rebecca Hancock</u>	GIS and Data Management <i>Meeting Room 8</i> Chair: <u>Lisa Buckleton</u>	Workshop 1 <i>Meeting Room 9</i>	Workshop 2 <i>Meeting Room 10</i>
13:00 - 13:30	Keynote: Stuart McLean Head of Enterprise at Google Australia - New Zealand		<i>What's New in the Crisis Management of the Czech Republic</i> <u>Assoc. Prof. Josef Janosec</u>	<i>The Global Forest Observation Initiative (GFOI)</i> <u>Dr. Hilceia Ferreria</u>	<i>Urban Monitor</i> <u>Dr. Peter Caccetta</u>	<i>Role of Spatial Information to Support a Major Policy in Water and Natural Resource Management in Australia</i> <u>Dr. Alan Forghani</u>	Screening of 'Greener Horizons' - five wheatbelt farmers tell their tree crop stories. <u>Monica Duncan</u> A different story every 10 minutes: 13:05 - Andrew and Suzi Sprigg of Bonnie Rock 13:15 - Kingsley Vaux of Ongerup 13:25 - Norm and Trudi Quicke of Kulin 13:35 - Michael Hogan of Bencubbin 13:45 - Ian Hall of Aldersyde	
13:30 - 14:00	Quick 10-minute updates Fly in for a fly through of the most exciting, innovative and up-to-date technologies in your industry! Using GIS and Realtime 3D to Create Intelligent Interactive Models in Arup (Ben Cooper-Wootley) 3D GIS in the Age of Cloud Computing (Tamrat Belayneh) Make GIS Accessible to all Areas of Your Enterprise (Joseph McGehan) nearmap.com: past, present and future (Simon Cope) HyperWeb: large-scale image serving for the internet (Ben Last) Google: the new wave of distributing spatial information (Nathan Eaton)		<i>Soil Erosion Risk Assessment After Severe Bushfires Using RUSLE and MODIS</i> <u>Dr Xihua Yang</u>	<i>Case Study: Using the SISMADEEN - Natural Disaster Monitoring and Alert System - in a Landslide event in Angra dos Reis, Brazil</i> <u>Dr. Hilceia Ferreria</u>	<i>Spatial Assessment of the Impact of Land Clearing on Water Balance Using Remote Sensing, GIS and 1-D Modeling in the Daly Catchment, NT</i> <u>Dr Guy Boggs</u>	<i>The Changing of the Guard</i> <u>Ryan Fraser</u>		
14:00 - 14:30	Building a Spatial Information and Mapping System <u>Shane Conserdyne</u>		Plans for Future ABCC Meetings	<i>Combined Analysis of Optical and SAR Remote Sensing Data for Forest Mapping and Monitoring</i> <u>Dr. Eric Lehmann</u>	<i>Streamlining Aboriginal Heritage Applications</i> <u>Chris Dorrain</u>	WireFrame Workshop Invitation Only		
14:30 - 15:00	Volunteering your GIS Skills <u>Mark Taylor</u>		<i>Vegetation Monitoring of Lake Toolibin using Landsat Satellite Imagery: analysis and implementation</i> <u>Ricky van Dongen</u>	<i>Diversity Across the Wheatbelt</i> <u>Cliff Morris</u>				
15:00 - 15:30	WALIS 30th Anniversary Afternoon Tea							
15:30 - 16:00	Mike Bradford (Landgate), The Location Information Strategy for Western Australia <i>Riverside Theatre</i>							
16:00 - 16:30	Conference Wrap-up Closing Ceremony (handover of flag) <i>Riverside Theatre</i>							
16:30 - 17:30	Closing Function <i>Riverside Theatre Foyer</i>							

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