



2013



# SURVEYING AND SPATIAL SCIENCES CONFERENCE 2013

National Convention Centre  
Canberra, Australia

15-19 April 2013 | [www.sssc2013.org](http://www.sssc2013.org)

**REGISTRATIONS ARE NOW OPEN!**  
VISIT [WWW.SSSC2013.ORG](http://WWW.SSSC2013.ORG)

The theme for the Surveying & Spatial Sciences Institute conference is ***“Collect, Connect, Capitalise”*** and aims to give you an opportunity to ***“Collect”*** the profession and the industry’s latest happenings; ***“Connect”*** with the who’s who of not only the Australian Surveying & Spatial scene but also international attendees; and ***“Capitalise”*** on being amongst many of the leading professionals that will be attending.

## Introducing our Panel and Keynote Speakers

As part of the **Big Issues, Big Talk** speaker series – **SSSC2013** is hosting one of these ground breaking sessions, as the opening Panel Discussion on ***“Collect, Connect, Capitalise – how diverse spatial applications help me to build my community”***.



**Greg Babinski**  
King County GIS Center, Seattle  
URISA Past President



**CDRE Brett Brace**  
Hydrographer of Australia



**Mark Croweller**  
AFSM FAIM  
Director General Emergency  
Management Australia



**Anne Gawen**  
CEO Connecting Up



**Sue Vardon**  
Chair, South Australian  
Red Cross





**David DiBiase - Thursday  
Keynote Speaker**  
Director of Education &  
Industry Solutions, ESRI Inc USA



**Dr David Headon -  
Friday Keynote Speaker**  
Centenary of Canberra  
ACT Government

Read more about our Speakers  
and also find out about the range  
of workshops available on  
[WWW.SSSC2013.ORG](http://WWW.SSSC2013.ORG)

## Wednesday 17 April 2013

Wednesday 17 April 2013						
VENUE	BRADMAN THEATRE, GROUND FLOOR					
09:00-10:00	Official Conference Opening by Senator Kate Lundy, Minister for Industry & Innovation <i>Featuring "Welcome to Country" by Shane Mortimer, Ngambri Elder</i>					
10:00-10:30	Morning Tea in the Exhibition Hall					
10:30-12:30		<b>Plenary Session - Big Issues Big Talk Speaker Series</b> <i>Featuring:</i> Mark Crosweller, Director General Emergency Management Australia Greg Babinski, URISA CDRE Brett Brace, Hydrographer of Australia Anne Gawen and Sue Vardon, ConnectingUp Australia				
12:30-13:30	Lunch in the Exhibition Hall					
VENUE	MURRAY ROOM	SUTHERLAND THEATRE	NICHOLLS THEATRE	FITZROY ROOM	SWAN ROOM	
	Land Surveying - 1	GIS Analysis/ Mapping - 1	Spatial Data Frameworks: Putting You in the Picture	RS&P -1	Other -1	
13:30-14:00	An XML Schema for Geodetic Data Transfer in Australia and New Zealand <b>Nic Donnelly</b> Land Information NZ	Effects of Spatial Resolution on Landscape Function using the Landscape Leakiness Calculator <b>Ernest Dunwoody</b> USQ	The Power of Coordinated & Cohesive Location Information for a Digital Economy <b>Helen Owens</b> OSP	Rectified vs Orthorectified Image - A Quantitative Analysis <b>Sushma Yadav</b> Indian Institute of Remote Sensing	Clever Maps and Apps for a Smartphone generation <b>Cassandra Barker</b> MapData Services	
14:00-14:30	An Update on the Development of Standards & Practices for Control Surveys (SP1) <b>Roger Fraser</b> Office of the Surveyor General, Victoria	SpatialLogic - A Framework to Enable Evidence-based Decision-making - A Peri-Urban Strategic Planning Case Study <b>Bill Fish</b> Spatial Vision	ANZ Engagement in the International Spatial Standards Environment <b>Chris Body</b> OSP - Building Fundamental Spatial Datasets: Strategic Initiatives of ICSM <b>Paul Harcombe</b> ICSM	Active Fire Detection using MODIS Images - Golestan National Park in Iran <b>Ali Darvishsefat</b> University of Tehran	What are the Issues with Natural Resources? How can Emerging Interactive Technology Help? <b>Mark Brown</b> UTAS	
14:30-15:00	Steps Towards Recovering the Geodetic System in Christchurch, NZ, After the 2010 & 2011 Earthquakes <b>Rachelle Winefield</b> Land Information NZ	The Evaluation of Public Transport Journey Planners <b>Xuejing Sun</b> University of Melbourne	ANZ FSD - Panel Discussion - facilitator <b>Brian Sloan</b> ANZLIC Secretariat	Provisioning of a Nationwide Digital Elevation Model <b>Abhineet Jain</b> DigitalGlobe	Mobile GIS - Geospatially Enabling a Multi-Discipline Workforce <b>Chris Loty</b> Cardno	
15:00-15:30	Afternoon Tea in the Exhibition Hall					
VENUE	MURRAY ROOM	SUTHERLAND THEATRE	SWAN ROOM	NICHOLLS THEATRE	FITZROY ROOM	
	Land Surveying - 2	GIS Analysis/ Mapping - 2	Other - 2	RS&P - 2	WIS Forum	
15:30-16:00	Impacts of Regional and Global Geodesy Modernisation on the Australian Geospatial Industry <b>Chris Rizos</b> UNSW	A Method of Developing Regional Road Traffic Noise Management Strategies <b>Nick Lawrence</b> Old Dept Of Transport & Main Roads	Collaborative Research into the Next Generation Spatial Infrastructure <b>Tai Chan</b> CRC-SI	Big Data LiDAR <b>Gordon Sumerling</b> Esri Australia	Women in Spatial Forum	
16:00-16:30	Legal Traceability of GPS Positions in Australia <b>Guorong Hu</b> Geoscience Australia	Geospatial Enablement in S.A.Public Health <b>Andrew Brown &amp; Andrew Vickers</b> SA Health	Finding your "Old" Place in the "New" World <b>David Bruce</b> Uni SA	Finding Malleefowl Mounds with LiDAR Data <b>Stephen Swabey</b> Umwelt		
16:30-17:00	Legal Traceability of GNSS Measurements <b>Matt Higgins</b> Land and Spatial Information Group	Data Management - Breaking Down the Spatial Wall of Mystery <b>Liz Fulton</b> Cardno	Hellenic Mapping and Cadastral Organisation GIS PORTAL towards Greek SDI <b>Defkalion Kalogridis</b> Intergraph			
17:00-19:00	Young Professionals Cocktails in the Exhibition Hall					

Thursday 18 April 2013

07:00-09:00					
Scrivener's Breakfast, Surveyors Park, Barton					
VENUE	BRADMAN THEATRE, GROUND FLOOR				
09:00-10:00	Keynote Address David DiBiase Esri				
10:00-10:30 Morning Tea in the Exhibition Hall					
VENUE	MURRAY ROOM	SWAN ROOM	NICHOLLS THEATRE	SUTHERLAND THEATRE	FITZROY ROOM
	Land Surveying - 3	GIS Analysis/ Mapping - 3	GIS Analysis/ Mapping - 4	Hydrography - 1	Defence - 1
10:30-11:00	Shaping the cadastral infrastructure for a digital future <b>Craig Sandy</b> Esri Australia	Advances in GIS Mapping of Waterways <b>Bruce Harris</b> BMT WBM	Defining Australia's Urban Population: A New Methodology <b>Darren Hossack</b> ABS		A Recipe for Data Management Success <b>Doug White &amp;            Lucia Scimone</b> Australian Hydrographic Service
11:00-11:30	A Deformation Model to Support a Next Generation Australian Geodetic Datum <b>Richard Stanaway</b> UNSW	Building an e-Infrastructure to Support Urban Research in Australia: A Lens Centred view <b>Chris Pettit</b> Uni of Melbourne	GIS Mapping of a Natural Gas Distribution Network <b>Furqan Iqbal</b> Sui Northern Gas Pipelines	South West Pacific Regional Hydrography Programme <b>Stuart Caie</b> Land Information NZ	JP2064 Update <b>Kevin Rosenbaum</b> Geospatial Development Centre
11:30-12:00	The Standard for Australian Survey Control <b>Don Abbey</b> Woodside Energy	Spatial Enablement & Data Interoperability for a Collaborative Primary Health Care Data Platform <b>James Peterson</b> Spatial Vision	Spatial and Web Enablement of Australia's Groundwater Dependent Ecosystems (GDE) <b>Zaffar Sadiq Mohamed-            Ghouse</b> SKM	Simultaneous Airborne LiDAR Bathymetry (ALB) and Hyperspectral data collection <b>Craig Williams</b> Fugro LADS	The Geospatial Enterprise Vision for Defence and National Security <b>Daniela Bramante</b> Esri Australia
12:00-12:30	New Zealand Vertical Datum Improvement <b>Rachelle Winefield</b> Land Information NZ	Lossless Compression of Digital Elevation Models <b>Gabriel Scarmana</b> USQ	Local Government Benchmark Study Results SSSI and Esri Australia	A Hydrographic Note for the 21st Century <b>Stuart Caie</b> Land Information NZ	
12:30-13:30 Lunch in the Exhibition Hall					
VENUE	NICHOLLS THEATRE	FITZROY ROOM	MURRAY ROOM	SUTHERLAND THEATRE	SWAN ROOM
13:30-14:30	SICC General Meeting	RS&P General Meeting	LSC General Meeting	HC General Meeting	EMSC General Meeting
14:30-15:00 Afternoon Tea in the Exhibition Hall					
VENUE	MURRAY ROOM	NICHOLLS THEATRE	SUTHERLAND THEATRE	SWAN ROOM	FITZROY ROOM
	Land Surveying - 4	GIS Analysis/ Mapping - 5	Hydrography - 2	Other - 3	Other - 4
15:30-16:00	ePlan Forum	Mapping Potential Rate of Spread and Intensity of Bushfires using Project Vesta GIS Toolbox <b>Craig Carpenter</b> Dept of Environment & Conservation	Mini Keynote: <b>CDRE Brett Brace</b> Hydrographer of Australia <b>CMR Dave Crossman</b> RNZN	From Riverina Water Shortage to Snowy Surplus: Charles Scrivener's Task to Locate a National Capital <b>Terry Birtles</b> ADFA	Profiling Victoria's Groundwater - Automation Meets Information Fusion: A Receipt to Drive Innovation in Groundwater Management <b>James Peterson</b> Spatial Vision
16:00-16:30		Your Place in the Cloud: Satisfying the Demand for Location-Based Information <b>Erik Sandin</b> Esri Australia		The Crucial Role of Public- Private Partnerships and Teamwork in the Rapid Response to Disasters <b>Brett O'Hagan</b> AAM	3D Cylinder Estimation for Precise Engineering Surveying <b>Kwang-Ho Bae</b> Fugro Spatial
16:30-17:00		WebGIS and MobileGIS Apps on the Job <b>Martin Russell</b> Aurecon Australia		Hydrography Certification <b>CDRE Brett Brace</b> RAN	Vendors and Tenders - or How Some Vendors Lose Them. <b>Bruce Douglas</b> Corporate GIS Consultants
18:30-19:00 Pre Dinner Drinks in the Exhibition Hall					
19:00-23:00 Conference Dinner / Asia-Pacific Spatial Excellence Awards - Ballroom, Level 1 Dress Code: Men: Lounge Suit/Dinner Suit Ladies: Evening Dress					