



2013



SURVEYING AND SPATIAL SCIENCES CONFERENCE 2013

National Convention Centre
Canberra, Australia

15-19 April 2013 | www.sssc2013.org

REGISTRATIONS ARE NOW OPEN!
VISIT 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

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		Plenary Session - Big Issues Big Talk Speaker Series <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 Nic Donnelly Land Information NZ	Effects of Spatial Resolution on Landscape Function using the Landscape Leakiness Calculator Ernest Dunwoody USQ	The Power of Coordinated & Cohesive Location Information for a Digital Economy Helen Owens OSP	Rectified vs Orthorectified Image - A Quantitative Analysis Sushma Yadav Indian Institute of Remote Sensing	Clever Maps and Apps for a Smartphone generation Cassandra Barker MapData Services
14:00-14:30	An Update on the Development of Standards & Practices for Control Surveys (SP1) Roger Fraser Office of the Surveyor General, Victoria	SpatialLogic - A Framework to Enable Evidence-based Decision-making - A Peri-Urban Strategic Planning Case Study Bill Fish Spatial Vision	ANZ Engagement in the International Spatial Standards Environment Chris Body OSP - Building Fundamental Spatial Datasets: Strategic Initiatives of ICSM Paul Harcombe ICSM	Active Fire Detection using MODIS Images - Golestan National Park in Iran Ali Darvishsefat University of Tehran	What are the Issues with Natural Resources? How can Emerging Interactive Technology Help? Mark Brown UTAS
14:30-15:00	Steps Towards Recovering the Geodetic System in Christchurch, NZ, After the 2010 & 2011 Earthquakes Rachelle Winefield Land Information NZ	The Evaluation of Public Transport Journey Planners Xuejing Sun University of Melbourne	ANZ FSD - Panel Discussion - facilitator Brian Sloan ANZLIC Secretariat	Provisioning of a Nationwide Digital Elevation Model Abhineet Jain DigitalGlobe	Mobile GIS - Geospatially Enabling a Multi-Discipline Workforce Chris Loty 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 Chris Rizos UNSW	A Method of Developing Regional Road Traffic Noise Management Strategies Nick Lawrence Old Dept Of Transport & Main Roads	Collaborative Research into the Next Generation Spatial Infrastructure Tai Chan CRC-SI	Big Data LiDAR Gordon Sumerling Esri Australia	Women in Spatial Forum
16:00-16:30	Legal Traceability of GPS Positions in Australia Guorong Hu Geoscience Australia	Geospatial Enablement in S.A.Public Health Andrew Brown & Andrew Vickers SA Health	Finding your "Old" Place in the "New" World David Bruce Uni SA	Finding Malleefowl Mounds with LiDAR Data Stephen Swabey Umwelt	
16:30-17:00	Legal Traceability of GNSS Measurements Matt Higgins Land and Spatial Information Group	Data Management - Breaking Down the Spatial Wall of Mystery Liz Fulton Cardno	Hellenic Mapping and Cadastral Organisation GIS PORTAL towards Greek SDI Defkalion Kalogridis 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 Craig Sandy Esri Australia	Advances in GIS Mapping of Waterways Bruce Harris BMT WBM	Defining Australia's Urban Population: A New Methodology Darren Hossack ABS		A Recipe for Data Management Success Doug White & Lucia Scimone Australian Hydrographic Service
11:00-11:30	A Deformation Model to Support a Next Generation Australian Geodetic Datum Richard Stanaway UNSW	Building an e-Infrastructure to Support Urban Research in Australia: A Lens Centred view Chris Pettit Uni of Melbourne	GIS Mapping of a Natural Gas Distribution Network Furqan Iqbal Sui Northern Gas Pipelines	South West Pacific Regional Hydrography Programme Stuart Caie Land Information NZ	JP2064 Update Kevin Rosenbaum Geospatial Development Centre
11:30-12:00	The Standard for Australian Survey Control Don Abbey Woodside Energy	Spatial Enablement & Data Interoperability for a Collaborative Primary Health Care Data Platform James Peterson Spatial Vision	Spatial and Web Enablement of Australia's Groundwater Dependent Ecosystems (GDE) Zaffar Sadiq Mohamed- Ghouse SKM	Simultaneous Airborne LiDAR Bathymetry (ALB) and Hyperspectral data collection Craig Williams Fugro LADS	The Geospatial Enterprise Vision for Defence and National Security Daniela Bramante Esri Australia
12:00-12:30	New Zealand Vertical Datum Improvement Rachelle Winefield Land Information NZ	Lossless Compression of Digital Elevation Models Gabriel Scarmana USQ	Local Government Benchmark Study Results SSSI and Esri Australia	A Hydrographic Note for the 21st Century Stuart Caie 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 Craig Carpenter Dept of Environment & Conservation	Mini Keynote: CDRE Brett Brace Hydrographer of Australia CDR Dave Crossman RNZN	From Riverina Water Shortage to Snowy Surplus: Charles Scrivener's Task to Locate a National Capital Terry Birtles ADFA	Profiling Victoria's Groundwater - Automation Meets Information Fusion: A Receipt to Drive Innovation in Groundwater Management James Peterson Spatial Vision
16:00-16:30		Your Place in the Cloud: Satisfying the Demand for Location-Based Information Erik Sandin Esri Australia		The Crucial Role of Public- Private Partnerships and Teamwork in the Rapid Response to Disasters Brett O'Hagan AAM	3D Cylinder Estimation for Precise Engineering Surveying Kwang-Ho Bae Fugro Spatial
16:30-17:00		WebGIS and MobileGIS Apps on the Job Martin Russell Aurecon Australia		Hydrography Certification CDRE Brett Brace RAN	Vendors and Tenders - or How Some Vendors Lose Them. Bruce Douglas 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					

Title	Author Details	First	Last	Author Position	Author Organisation	Author Department	Author Email
Finding your "old" place in the "new" world	David Bruce (University of South Australia, -), Paul Corcoran (University of South Australia, AU)	David	Bruce	Associate Professor	University of South Australia	School of Natural and Built Environments	david.bruce@unisa.edu.au
Mapping Potential Rate of Spread and Intensity of Bushfires using Project Vesta GIS Toolbox	Craig Carpenter (Department of Environment and Conservation, -), Lachie McCaw (Department of Environment and Conservation, AU)	Craig	Carpenter	Business Information Analyst	Department of Environment and Conservation	Fire Management	craig.carpenter@dec.wa.gov.au
Collaborative Research into the Next Generation Spatial Infrastructure	Tai Chan (CRCSI, -), Geoff West (Curtin University, AU), David McMeekin (Curtin University, -), Peter Woodgate (CRCSI, -)	Tai	Chan	Program Director	CRCSI	Spatial Infrastructure Program	tai.chan@dse.vic.gov.au
Trans Basin Water Transfer	Chris Sloan, David Bruce and Brian Kirke (University of South Australia)	Chris	Sloan		University of South Australia	School of Natural and Built Environments	chris.sloan@unisa.edu.au
Effects of Spatial Resolution on Landscape Function Using the Landscape Leakiness Calculator	Ernest Dunwoody (University of Southern Queensland, -), Armando Apan (University of Southern Queensland, AU), Xiaoye Liu (University of Southern Queensland, AU)	Ernest	Dunwoody	PhD Candidate	University of Southern Queensland	Faculty of Engineering and Surveying	ernest.dunwoody@usq.edu.au
Advances in GIS Mapping of Waterways	Bruce Harris (BMT WBM, -), Kevin McDougall (University of Southern Queensland, AU), Michael Barry (BMT WBM, AU)	Bruce	Harris	Manager	BMT WBM	Spatial and Graphics Group	bruce.harris@bmtwbm.com.au
Using GNSS CORS to augment long-term tide gauge observations in NSW	Volker Janssen (NSW Land and Property Information, -), Russell Commins (NSW Land and Property Information, AU), Phil Watson (Office of Environment and Heritage, NSW Department of Premier and Cabinet, AU), Simon McElroy (NSW Land and Property Information, AU)	Volker	Janssen		NSW Land and Property Information		volker.janssen@lpi.nsw.gov.au