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Home

The Surveying and Spatial Sciences Conference 2011 (SSSC2011) will be one of the largest and most important spatial events in Australasia.

Jointly run by the New Zealand Institute of Surveyors and the Surveying and Spatial Sciences Institute this event will bring together the disciplines, sectors and user groups in an unprecedented all-of-industry event.

Spatial information and technology continue to develop as integral components of spatially-enabled enterprises. Consumers are continuously using more location-based services, and demanding greater innovation and enterprise.

Applications that use location based information are advancing rapidly. Nobody thinks twice about using interactive maps and services that use location as their basis – and the surveying and spatial sciences fields need to keep pace with demand.

Our field needs to keep growing and changing rapidly – which means new ideas, new people and new skills are constantly needed.

SSSC2011 will be where the industry comes together to discuss the need for Innovation in Action – Working Smarter.

New Zealand has always had an innovative, hi-tech society that has excelled in the spatial sciences. Wellington, a compact, creative and innovative city, is the perfect host.

Papers

Information for Authors

Authors' full papers MUST be formatted to SSSC2011 Conference Publications Guidelines. It is highly recommended that you proofread and check the layout of your paper before submitting.

- Guidelines for formatting the layout of your paper are attached [here](#).
- A blank template to help you get started is attached [here](#).
- The paper limit is 16 pages and must be in Microsoft Word format.
- The final date for acceptance of full papers is **19 August 2011**.
- Submit your paper saved like this "LAST NAME_First Name_Title of paper" to convenor@sssc2011.org.
- Reviewer's comments sent to authors **2 September 2011**.
- Response to reviewers back from authors **16 September 2011**.
- **Please note:** all authors need to [register](#) for the conference by **16 September 2011** to confirm attendance.
- Reviewed papers will require final edits to be completed by **23 September 2011**.

Posters will not be peer reviewed. Papers that are presented at the conference by at least one registered author will be published in the conference proceedings.

If you require any further information please email the [Conference Convenor](#).

Invited Speakers

We've got some exciting speakers confirmed for SSSC2011. Their knowledge and experience spans GIS, geospatial, surveying, local and central government and industry. You can find information on each of our confirmed speakers below - and watch this space as we update it with new additions to the line up.

[Michael Goodchild](#)

Michael Goodchild is Professor of Geography at the University of California, Santa Barbara, and Director of UCSB's Center for Spatial Studies. He received his B.A. degree from Cambridge University in Physics in 1965 and his Ph.D. in geography from McMaster University in 1969, and has received four honorary doctorates.

[Brent Jones](#)

Brent Jones, PE, PLS, spearheads the global marketing for the Surveying, Engineering, and Land Administration markets at ESRI, the largest geographic information system (GIS) software provider in the world.

[Celia Wade-Brown](#)

Current Mayor of Wellington Celia Wade-Brown was born in West London and grew up in a council flat overlooking Paddington railway line. After a "gap year" working as a laboratory assistant in a girls' school in Ghana and travelling in Africa, she studied at Nottingham University.

[Andrew Coote](#)

Andy has over twenty-five years experience in developing and using information systems, specialising in managing location-enabled applications. He has held senior management positions in both the public and private sector in the UK and the Seychelles and the Middle East.

[Tony Smale](#)

For the last five years Tony has been on a quest to understand why some firms and countries, and New Zealand in particular, can be highly creative and inventive yet not produce the economic outcomes that would be expected.

[Manfred Ehlers](#)

Full Professor for GIS and Remote Sensing at the University of Osnabrueck, Germany. He holds a Master degree in Mathematics and a Ph.D. and Habilitation degree (*venia legendi*) in Surveying Engineering with emphasis on remote sensing, digital image processing and GIS.

Adrian Tout

Adrian currently heads Google Australia / New Zealand Geo Business. Google Earth and Maps are playing a major role in how consumers and corporations interact and leverage mapping.

Find a paper

Title	Surname	Day	Time
A Contour based approach to digital image compression	Scarmana	Friday	11:20
A dense surface modelling technique for human plantar surface	Ahmed Ali Al-Baghdadi	Friday	11:42
A geographic reference image for Australia	Lewis	Wednesday	12:14
A national infrastructure in support of innovation	Sweeney	Thursday	12:01
Property address data - getting it right at source	Haanen	Wednesday	16:07
A recipe for national environmental information	King	Wednesday	11:30
Accessing your geodatabase through SQL	Hart	Thursday	15:45
An informed GIS based approach for mapping salinity hazard and aquifer systems in the Ord Valley, Western Australia	Apps	Thursday	16:07
ArcGIS 10.1: the road ahead	Singh	Friday	10:09
ArcGIS in the cloud	Singh	Thursday	16:51
ArcGIS in the mobile world	Wilmott	Wednesday	11:30
Are we there yet? Getting Australian Government Spatial Policy & Governance Right	Hill	Thursday	11:15
Assessing temporary accommodation needs following the 22nd February 2011 Christchurch earthquake	Mason	Wednesday	16:07
Augmented reality at Waikato District Council	Marais	Wednesday	15:45
Australia and New Zealand spatial marketplace demonstrator project	Crooks	Thursday	11:39
Automated matching of segmented terrestrial laser scanning to as-built plans	Belton	Friday	12:04
Bathymetric data management: the ports and waterways environment	Kruimel	Wednesday	11:52
Boundaries: is what you see really what you get?	Strack	Thursday	15:45

Building a spatially enabled e-Infrastructure to support urban researchers in Australia	Pettit	Thursday	16:51
Building better hyperspectral datasets: The fundamental role of metadata protocols in hyperspectral field campaigns	Rasaiah	Thursday	11:39
Building web applications using ArcGIS	Singh	Wednesday	11:52
Business benefits of automated data flows – a case study	Weir	Thursday	12:23
Cadastral survey datasets getting the basics right	Haanen	Wednesday	12:14
Characterising heterogeneous vegetated surfaces using multiangular satellite data	McCamley	Friday	9:47
Issues related to the use of non-traditional digital data sources for enhancing park management data	Elsely	Friday	12:04
Contrast and Luminance Normalised (CLN) fusion to enhance the spatial resolution of remote sensed data	Brabyn	Friday	12:04
CORSnet-NSW: Improving positioning infrastructure for New South Wales	Roberts	Thursday	11:17
Crime analysis within NZ Police	Holloway	Thursday	12:01
Developing spatio-temporal prediction models for arbovirus activity in Northern Australia based on remotely sensed bioclimatic variables	Klingseisen	Wednesday	11:30
Disaster change detection using airborne LIDAR	Trinder	Thursday	16:29
Earth platinum – the making of the world’s largest atlas	Smith	Thursday	16:29
Enabling GIS in Schools	Thurlow	Friday	11:20
Technical certification – what does it mean for me, the organisation	Thurlow	Friday	11:42
Future of bathymetry	Greenland	Wednesday	12:14
GeoDataHub: building geospatial data repository for New Zealand	McColley	Thursday	16:07
Geodetic network: mark orders, upgrades and the submission of geodetic data	Winefield	Wednesday	16:29

Geospatial standards in an emergency situation	Blyth	Wednesday	15:45
Geospatially enabling Maori Land Court's www.maorilandonline.govt.nz	Luetticke	Wednesday	11:52
Harvesting user generated content for semantic spatial information	Richter	Thursday	16:29
High density bathymetry on the web	Kruimel	Wednesday	11:30
Identifying foliage density by decay rate in LIDAR waveforms	Adams	Friday	9:47
Implementing the Phoenix Fire Spread Model for operational Use	Patterson	Thursday	15:45
Improving project communication and collaboration using interactive mapping tools	Ladd	Thursday	16:07
Improving the accuracy of New Zealand's digital cadastre	King	Wednesday	11:52
In search of the Holy Grail: the journey toward a spatially accurate cadastral fabric for South Australia	Kentish	Wednesday	11:30
Innovative applications of remotely sensed evapotranspiration and vegetation cover	Sheffield	Wednesday	11:52
Interpolation of the GNSS wet troposphere delay	El-Mowafy	Thursday	12:23
Large scale evidence-driven visual processing for cities	Simpson	Wednesday	16:29
Leveraging the power of the geodatabase	Hart	Thursday	16:51
Local government perspective on climate change	Lennox	Friday	11:42
Mapping cycling pathways and route selection using GIS and GPS	McDougall	Thursday	12:23
Mapping the Basin: the Murray-Darling Basin information infrastructure project	Bashfield	Thursday	15:45
Measuring dynamic deformation of structures and ground surfaces by close range terrestrial photogrammetry	Dash	Wednesday	15:45
Measuring Transport Choice and Energy Resilience	Rendall	Wednesday	16:29
Metadata: Keeping it real!	Mason	Thursday	12:23

MisUnderEstimating unknown unknowns in GIS analyzation: 25 lessons learnt while implementing GIS projects	Wilkins	Thursday	11:39
Modelling abitats network in metropolitan Melbourne, an application of graph theory	Elsely	Wednesday	11:30
Modelling mobile radar unit signal visibility in the detection of bird migration patterns	Daniels	Friday	9:47
Modelling sediment runoff for the Transmission Gully alignment	Hastings	Wednesday	11:52
Monitoring industrial land supply in south east Queensland	Josipovic	Thursday	16:29
Napier City Council	Tidy	Thursday	11:17
Near enough GIS	Blyth	Thursday	11:39
Optimising bridge asset management	Rose	Wednesday	16:07
Oregon's Virtual Emergency Network of Multnomah (VENOM)	Esnard	Thursday	12:23
Panel Discussion: Perspectives on cadastral compliance and professional responsibility	Gawn	Friday	9:45
Post earthquake public transport planning	Bates	Thursday	12:01
Post-earthquake spatial imaging in the Christchurch red zone	Hewitt	Friday	11:20
Practical application of spatial systems in transport	Darby	Thursday	11:39
Preparing for the invasion – retreat from the coast	Strack	Wednesday	12:14
Promotion of Certificatcn in offshore hydrography	Ironside	Wednesday	16:07
Property Guru - Meeting a specific sector needs and providing relevant land and property information	Nicol	Thursday	11:17
Quantifying data quality and spatial standards	Marais	Thursday	16:29
Quick visualisation of the damage of the Christchurch earthquake via the web	Nicol	Thursday	12:01
Re-establishment of cadastral boundaries following the Canterbury earthquakes	Smith	Thursday	16:07
Re-establishment of the New Zealand Survey	Amos	Wednesday	16:07

Control System following the 2010 Darfield and 2011 Lyttelton (Canterbury) earthquakes			
Remotely sensed crown structure as an indicator of wood quality	Adams	Friday	10:09
Review of Australian landuse, land management practice and land care groups	Baral	Friday	10:09
Safety at intersections prioritisation tool	Janssen	Wednesday	15:45
Schema element dependencies in a federated spatial database system	Xiaoying	Thursday	16:07
SDI and what it means for the enterprise	Campbell	Thursday	15:45
Simplicity or complexity- the case for a coordinate cadastre in New Zealand	Lim	Wednesday	16:07
Should RTK Surveyors care about the new GNSS signals?	Roberts	Thursday	12:01
Shove over Gen Y: Gen Z is almost here	Pupedis	Friday	12:04
Simplicity or complexity- the case for a coordinate cadastre in New Zealand	Rhodes	Thursday	16:29
Smarter Public Transport Management	Davies	Thursday	11:17
Social media: A new wave movement in hydrography	Kruimel	Wednesday	15:45
Spatial analysis methodology for the re-location of MFB fire stations	Voller	Friday	10:09
Spatial data infrastructure for catchment management	McDougall	Wednesday	11:30
Spatially enabling risk for management of land and property	Potts	Thursday	16:07
SSSC future of geodetic and vertical datum	Amos	Thursday	11:39
Standardizing Australian semi-urban land cover mapping through FAO LCCS	Perera	Friday	11:42
Standards for SDI in New Zealand: as little as possible, as much as necessary	Murcott	Thursday	15:45
Starting to talk about Place	Winter	Wednesday	16:29
Strategic Planning –a new approach using modern technology	Lester	Friday	10:31
Subsurface utility engineering (SUE) – innovation in action	Gordon	Thursday	11:17

Survey mark protection advisory service	Tait	Wednesday	15:45
Take you desktop out in the field to collect more data, more efficiently	Robson	Friday	10:31
The ArcGIS enhanced editing experience	Wilson	Friday	10:31
The Canterbury earthquake viewer: a behind the scenes look	Singh	Wednesday	12:14
The challenges of spatial data replication	Cook	Thursday	16:07
The Future of Hydrographic Education in Australasia	Preskett	Wednesday	16:29
The LINZ data service: Improving access to LINZ Data	Palmer	Wednesday	12:14
The role of geospatial information technologies for sustainable development	Trinder	Thursday	16:51
The role of research to support the development of New Zealand's spatial data infrastructure	Severn	Thursday	12:23
The trans Tasman reciprocal agreement for cadastral surveyors	Coutts	Thursday	16:51
The Victorian Land Use Information System (VLUIS): a new method for creating land use data for Victoria (Australia)	Morse-McNabb	Friday	9:47
Tips and tricks for ArcGIS desktop	Thurlow	Friday	9:47
To infinity and beyond, GIS shapes the Australian and New Zealand bid to host the Square Kilometre Array Radio Telescope	Russell	Friday	10:31
Tools and resources to help in creating ANZLIC compliant metadata	Harrison	Thursday	12:01
Top of the South maps – Behind the scenes with data and cartography!	Stephens	Thursday	15:45
Towards a stream hierarchy and classification system for Victorian waterways	Delaney	Wednesday	11:52
Trends in geospatial information: The end of bespoke web-based GIS viewers and the beginning of information architecture + g	Garrett	Thursday	12:01
Undercover virtual globes	Beard	Wednesday	16:07
Understanding the relationship between spatial information, property markets and	Tambuwalla	Friday	11:20

macroeconomic policy			
Using volunteered information to map the Queensland floods	McDougall	Thursday	11:17
Utilising imagery in ArcGIS, top 10 now and then	Merz	Wednesday	16:29
Vicmap API & VicGIS – open source in practice	McKenzie	Wednesday	11:30
Victorian Departments of Health and Human Services enterprise GIS	da Costa	Thursday	11:15
Welcome to Te Ika a Maui OIESS 2020	Williams	Wednesday	16:29
Welcome to Te Ika a Maui OIESS 2020: An addendum	Williams	Thursday	16:51
Wetland mapping using remote sensing imagery and ModelMap	Zhu	Friday	10:09
What's in a name? official geographic names in New Zealand	Nelson	Wednesday	15:45
When three become one! Enterprise GIS at the Department for Transport, Energy and Infrastructure: a business case study in return on investment	Callaghan	Thursday	16:29
Working smarter in your office	Evans	Thursday	12:23

SURVEYING & SPATIAL SCIENCES CONFERENCE 2011

Wellington Convention Centre, Wellington, New Zealand

21–25 November 2011