

| MONDAY 3 APRIL 2017 |  | TUESDAY 4 APRIL 2017 |  | WEDNESDAY 5 APRIL 2017 |  | THURSDAY 6 APRIL 2017 |                                  |
|---------------------|--|----------------------|--|------------------------|--|-----------------------|----------------------------------|
| 0900 - 1700         | Workshops (see website for more information) | 0900 - 1600          | Market day (exhibition open to all)          | 0700 - 0830            | SIBA breakfast   | 0800 - 1510           | Exhibition open (delegates only) |
|                     |  | 1000 - 1200          | Workshops (see website for more information) | 0800 - 1700            | Exhibition open (delegates only)                                   |                       |                                  |
|                     |  | 1730 - 1930          | Welcome function                             | 0845 - 1745            | Plenary and breakout sessions                                      | 0830 - 1715           | Plenary and breakout sessions    |
|                     |  |                      |  | 1815 - 1900            | Pre-dinner drinks  |                       |                                  |
|                     |  |                      |  | 1900 - 2330            | Asia Pacific Spatial Excellence Awards & ISDE Awards & Recognition |                       |                                  |

## WEDNESDAY 5 APRIL 2017

|      |   |
|------|---|
| 0845 | Opening Ceremony - Order of Proceedings - Welcome to Country; Convenor Welcome Address; Dept of PM and Cabinet (Invited); Dept of Premier and Cabinet NSW (Invited); President ISDE; Chairman SIBA; President SSSI                    |
| 0945 | Achieving sustainable development through digital transformation<br><b>Greg Scott, Inter-Regional Advisor Global Geospatial Information Management, United Nations Statistics Division, Department of Economic and Social Affairs</b> |
| 1005 | Digital transformation and the deluge of geospatial Big Data<br><b>Walter Scott, DigitalGlobe</b>   |
| 1025 | Dr Peter Woodgate and Glenn Cockerton Co-Chairs Working Group, 2026 Spatial Industry Transformation and Growth Agenda<br><b>Peter Woodgate, CRCSI Australia and New Zealand &amp; Glenn Cockerton, Spatial Vision</b>                 |
| 1045 | DBAR: Digital Earth in Practice for the Belt and Road<br><b>GUO Huadong, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences</b>   |
| 1105 | Plenary Speaker Panel Discussion  |
| 1125 | <b>MORNING TEA</b>  |

### CONCURRENT SESSIONS

|      | CS01.1<br>LAND SURVEYING &<br>ADMINISTRATION  | CS01.2<br>OPEN DATA & GOVERNMENT   | CS01.3<br>BIG DATA  | CS01.4<br>SMART CITIES  | CS01.5<br>CAPACITY BUILDING   | CS01.6<br>SMART SENSORS FOR NATURAL<br>RESOURCE MANAGEMENT  | CS01.7<br>SPATIAL INFRASTRUCTURE   | CS01.8<br>VIRTUAL GLOBES   |
|------|---|--|---|---|---|---|--|--|
| 1155 | <b>Keynote &amp; Chair</b><br>Preservation of Survey Infrastructure<br><b>Narelle Underwood, NSW Surveyor General</b>   | <b>Keynote &amp; Chair</b><br>Open data policy in the Earth Sciences: exploring its application across the government, scientific and industry sectors<br><b>Trisha Moriarty, Geological Survey of NSW</b> | <b>Keynote &amp; Chair</b><br>Big Data – New Tools to Understand the World Around Us<br><b>Ian Opperman NSW Data Analytics Centre, DFSI</b> | <b>Keynote &amp; Chair</b><br>A smart cadastre to underpin business intelligence in the NSW property sector<br><b>Adrian White, DFSI Spatial Services</b> | <b>Keynote &amp; Chair</b><br>Generational Change and the Talent of Gen Y<br><b>Kellee Ireland, Destination Spatial</b> | <b>Keynote &amp; Chair</b><br>Polar Hub<br><b>Wenwen Li, Arizona State University</b>   | <b>Keynote &amp; Chair</b><br>Topic TBC<br><b>Bruce Thompson, Executive Director, NSW Spatial Services</b>   | <b>Keynote &amp; Chair</b><br>How Open Source Virtual Globe is supporting the SDGs – the Case of NASA World Wind<br><b>Gabor Remetey-Fülöpp, Hungarian Association for Geo-information</b> |
| 1215 | <b>Keynote</b><br>NT Survey Approval Online - Linking Planning, Land Title Office and Survey in a Digital Land Development System<br><b>Craig Sandy, Department of Infrastructure, Planning and Logistics</b> | Putting even more Open Data on the (National)Map<br><b>Toby Bellwood, Department of the Prime Minister and Cabinet</b>   | Introducing the Rapid Analytics Interactive Scenario Explorer<br><b>Chris Petit, University of NSW</b>                                      | Singapore Smart Nation: Measuring from the ground up<br><b>Daniel Kruiemel, AAM</b>   | Disunity is Death - Surveying & Spatial Leadership for the 21st Century<br><b>Gary Nairn, The Mulloon Institute</b>     | Embracing Opportunities in Remote Sensing for a Digitally Transformed future in Vegetation Management<br><b>Lakdeepal (Lucky) de Silva, Macquarie University / Openspatial</b>  | Towards the Next Generation Spatial Knowledge Infrastructure<br><b>Peter Woodgate, Cooperative Research Centre for Australia and New Zealand CRC for Spatial Information (CRCSI)</b> | Pan-Eurasian Experiment<br><b>Joni Kujansuu, University of Helsinki</b>  |
| 1235 | Surveyor Generals Panel (60 minutes)  | The business secrets of “Open Geospatial”<br><b>Cameron Shorter, OSGeo Foundation</b>  | Australian Bureau of Statistics<br><b>Marcus Blake, Australian Bureau of Statistics</b>   | How crowdsourced data can help shape a smart city<br><b>Simon Jackson, Esri Australia</b>   | The Squad Life - a recipe for self organising geospatial teams<br><b>Elise McKenna, IAG</b>                             | Change Detection of Desert Steppe Ecosystem by Spatiotemporal Analysis Based on Estimation of Fractional Vegetation Cover in Inner Mongolia, China<br><b>Bayaer Wuliangha, Inner Mongolia Normal University</b>   | I want it all and I want it now - How to provide fast access to Big Spatial Data<br><b>Alex Leith, Tidetech</b>  | Visioning a Sunshine Coast Smart City with Big 3D Data<br><b>Toby Clewett, Sunshine City Council</b>   |
| 1255 |   | Marine Data and Products Sharing Service in ODINWESTPAC<br><b>Xiaoyi JIANG, National Marine Data and Information Service</b>   | De-Cluttering Wireless Broadband Networks with Digital Surface Models<br><b>Tishampati Dhar, Aerometrex</b>                                 | Speeding the Creation of Digital Reality: Mobile Technologies and the vital role they play in a Digital World<br><b>Kenneth Smillie, CR Kennedy</b>       | Spatially enabling a thriving New Zealand<br><b>Ben White, New Zealand Transport Agency (NZTA)</b>                      | Integration of image transformation methods for geological exploration of Mongolia: a case study of erdenet-ovoo porphyry copper deposits and open pit mining area (Northern Mongolia)<br><b>Bayartungalag Batsaikhan, Geological Investigation Center of Mongolia &amp; Mongolian Geospatial Association</b> | Determining the Most Effective Spatial Infrastructure Options for a Transport Authority<br><b>Martin Gregory, Business Aspect</b>  | High-Precision Point Cloud Generation of Lidar System Based on Piecewise Cubic Hermite Interpolation (PCHI)<br><b>Xiangrui Tian, Nanjing University of Aeronautics and Astronautics</b>    |
| 1315 |   | Using open-source data to improve the development of local housing strategies- a Sydney case study<br><b>Sian Elliott, Arup</b>  | Theme – Population, geography, planning and policy<br><b>Tom Walter, Australian Bureau of Statistics</b>                                    | A platform for smart government<br><b>Selin Ozdemir, Esri Australia</b>   | Building Capacity in People in a Disruptive Environment<br><b>Patrick Mangan, pas mango Consulting</b>                  | Establishment of Scientific Knowledge Database Focusing on Environmental and Natural Resource Issues in South Asia<br><b>Ainong Li, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences</b>  | Trusting Crowdsourced Geospatial Information<br><b>Paul Goodhue, Curtin University - Australia and New Zealand CRC for Spatial Information (CRCSI)</b>                               |  |

WEDNESDAY 5 APRIL 2017

| 1335 LUNCH          |   |  |   |  |  |  |  |   |
|---------------------|---|--|---|--|--|--|--|---|
| CONCURRENT SESSIONS |   |  |   |  |  |  |  |   |
|                     | CS02.1<br>LAND SURVEYING &<br>ADMINISTRATION  | CS02.2<br>AGRICULTURE  | CS02.3<br>OGC WORKSHOP  | CS02.4<br>INTELLIGENT TRANSPORT  | CS02.5<br>DISASTER & EMERGENCY<br>MANAGEMENT   | CS02.6<br>SMART SENSORS<br>FOR NATURAL RESOURCE<br>MANAGEMENT  | CS02.7<br>SPATIAL INFRASTRUCTURE   | CS02.8<br>DBAR INITIATIVE   |
| 1435                | The Benefits of Addressing Policy in New South Wales, Australia<br><b>Dr Greg Windsor, Department of Finance, Services &amp; Innovation</b> | <b>Keynote &amp; Chair</b><br>Landscape Repair, Sustainable Agriculture, Spatially Driven<br><b>Gary Nairn, The Mulloon Institute</b>  | ISO TC 211 & OGC Workshop on Standards for the Sustainable Development Goals<br><b>Denise McKenzie, Open Geospatial Consortium</b><br>The components of this workshop will include:<br>• What are the SDGs?<br>• Why are they so relevant to the geospatial community?<br>• What standards exist already that we can use now?<br>• Which goals do they relate to?<br>• What standards are under construction?<br>• What standards do we still need? | <b>Keynote &amp; Chair</b><br>Next Generation Intelligent Transport<br><b>Susan Harris, ITS</b>  | <b>Keynote &amp; Chair</b><br>Challenges maintaining accurate topographic and geodetic data products in a restless country<br><b>Bjorn Johns, Land Information New Zealand</b> | <b>Keynote &amp; Chair</b><br>Reporting on the state of New Zealand's environment in maps<br><b>Karl Majorhazi, Statistics New Zealand</b> | <b>Keynote &amp; Chair</b><br>The future of Queensland's Spatial Data Infrastructure<br><b>Steven Jacoby, Department of Natural Resources &amp; Mines (DNRM)</b> | <b>Special Session</b><br>Launching Ceremony of Digital Belt and Road Scientific Alliance<br><b>Chair: Prof. WANG Changlin</b><br>(35 mins)         |
| 1455                | Making leaps and bounds with Metes and bounds<br><b>Geoff Williams, Spatial Vision</b>  | Rice Resilience In Stressful Rice Environment: Challenges and Testing of New Stress Tolerance varieties in Ayeyarwaddy Delta of Myanmar<br><b>Thura Aung, Radanar Ayar Rural Development Association</b> |   | Optimising Speed Camera Placement in New Zealand<br><b>Natalie Scott, Interpret Geospatial Solutions</b>   | Convenience Rating of Post-disaster Recovery Housing Complexes Constructed in Miyagi Prefecture following the 2011 Tohoku Earthquake,<br><b>Noriaki Endo, Iwate University</b> | How do you get more than 1000 records of frogs in a season?<br><b>Imran Qazi, Spatial Vision</b>   | From acquisition of lidar data to visualization in web based virtual model<br><b>Tai Sakaushi, Atlas Aerometrex</b>  | Introduction on Digital Belt and Road Scientific Alliance<br><b>Prof. WANG Changlin</b><br>(15 mins)  |
| 1515                | Privatisation of Land Registry Systems<br><b>Esther Han, Consumer Affairs Editor of the SMH</b>   | Rice key phenology monitoring by means of multi-temporal RADARSAT-2 images<br><b>Shihua Li, University of Electronic Science and Technology of China</b>   |   | Using open-source data and transit network tools to improve our understanding of accessibility - a case study of the Sydney '30-minute city'<br><b>Oliver Lock, Arup</b> | An online tool to assess bush fire risk for existing development<br><b>Ian Miller, Spatial Vision</b>  |  | Improving Search and Discovery of Geospatial Data<br><b>Tristan Reed, Curtin University - Australia and New Zealand CRC for Spatial Information (CRCSI)</b>      | Introduction on "Digital Belt and Road" Initiative<br><b>Prof. CHEN Fang</b><br>(15 mins)   |
| 1535                | Privatisation of Land Registry Systems<br><b>Mohsen Kalantari, Melbourne University</b>   | Virtual Geographic Environments (VGEs) for Water Pollution Control<br><b>Tian Xiang YUE, Chair of Geographical Information Science, University of Chinese Academy of Sciences</b>                        |   | Uber driving: Research to determine how profitable is it and how useful is the app?<br><b>Bruce Douglas, Corporate GIS</b>   | Using Web-mapping in community consultations for flood mitigation options in Bundaberg<br><b>Harikrish Hariram, Jacobs Engineering Group Australia</b>                         |  | How Quality Defines Geoscape<br><b>Tom Spencer, PSMA Australia</b>   | Cloud based CropWatch: Global remote sensing monitoring online system<br><b>Prof. WU Bingfang</b><br>(15 mins)                                      |
|                     |   |  |   |  |  |  |  | Energy and water balance of High Mountain catchments in Asia<br><b>Prof. Massimo Menenti</b><br>(15 mins)   |
|                     |   |  |   |  |  |  |  | Conservation and sustainable development of world heritages in the Belt and Road region based on big data<br><b>Prof. WANG Xinyuan</b><br>(15 mins) |
| 1555 AFTERNOON TEA  |   |  |   |  |  |  |  |   |

WEDNESDAY 5 APRIL 2017

| CONCURRENT SESSIONS |  |  |   |   |  |   |  |   |
|---------------------|--|--|---|---|--|---|--|---|
|                     | CS03.1<br>LAND SURVEYING &<br>ADMINISTRATION   | CS03.2<br>VIRTUAL GLOBES   | CS03.3<br>BIG DATA  | CS03.4<br>STANDARDS   | CS03.5<br>DISASTER & EMERGENCY<br>MANAGEMENT   | CS03.6<br>SMART SENSORS<br>FOR NATURAL RESOURCE<br>MANAGEMENT   | CS03.7<br>SPATIAL INFRASTRUCTURE   | CS02.8<br>DBAR INITIATIVE   |
| 1625                | Australian Surveying Taskforce Initiatives - Educating and training the next generation of surveyors<br><b>Michelle Brooks, Cookie Dough Research &amp; Marketing</b>  | <b>Keynote &amp; Chair</b><br>3D Models of Australian Cities deployed in Cesium<br><b>Fabrice Marre, Geospatial Business Developer, Aerometrex</b>                     | <b>Keynote &amp; Chair</b><br>Business Opportunities for Location Intelligence – A Big Data Platform for Raster, Vector and Graph Processing<br><b>Eve Kleiman, Oracle Corporation (Oracle)</b> | <b>Keynote &amp; Chair</b><br>Changes and Future Trends in the Global Location Industry<br><b>Denise McKenzie, Open Geospatial Consortium</b>                                   | <b>Keynote &amp; Chair</b><br>Title TBC<br><b>Abbas Rajabifard, University of Melbourne</b>  | <b>Keynote &amp; Chair</b><br>Remote sensing of groundwater dependent ecosystems in the western Lake Eyre Basin<br><b>Ken Clarke, University of Adelaide</b>                                      | <b>Keynote &amp; Chair</b><br>A consistent, repeatable, and measurable strategy model for assessing the maturity of national and regional Spatial Data Infrastructures<br><b>Maurits van der Vlugt, Mercury Project Solution</b> | Satellite imagining for the harbors and cities along the BAR<br><b>Prof. HE Guojin</b><br>(15 mins)<br><br>DBAR-Water: Understanding spatial and temporal patterns of water resources and water use in the Belt and Road region by Earth observation<br><b>Prof. JIA Li</b><br>(15 mins)<br><br>Improving the positioning accuracy of satellite imagery based on repeated observation information<br><b>Prof. JIAO Weili</b><br>(15 mins)<br><br>Mapping urban growth in mega cities in South Asia with Landsat data<br><b>Prof. LU Linlin</b><br>(15 mins) |
| 1645                | Surveying the Griffin Plan - a cadastral survey in Canberra's parliamentary triangle<br><b>Mike Stapleton</b>  | On the question of relations between Digital Earth and Cartography<br><b>Eugene Eremchenko, R&amp;D Group</b>  | Consolidation of the Defence Geospatial Domain – Challenges and opportunities<br><b>Maree Wilson, Australian Geospatial-Intelligence Organisation</b>   | Discrete Global Grid Systems – A "New" Approach to an Old Spatial Challenge<br><b>Matthew B.J. Purss, Geoscience Australia</b>  | Geo-spatial Investigation of Fire Severity and its impacts on Vegetation Regrowth at the Blue Mountains and Royal National Park of Sydney, Australia<br><b>Shahriar Rahman, Macquarie University</b> | A vegetation shadow model for mapping perennial arid shrubs and trees using high-spatial multispectral and panchromatic satellite imagery<br><b>Saad Alsharrah, University of South Australia</b> | Title TBC<br><b>Deanna Hutchinson, CEO, SIBA</b>   |   |
| 1705                | National ePlan Working Group Update<br><b>Chris Wilcox, LPI NSW</b>  | DOAS: Comprehensive Marine Information Sharing System based on Virtual Globe and Cloud Computing<br><b>Linchong Kang, National Marine Data and Information Service</b> | GSKY: An scalable geospatial data server<br><b>Pablo Larraondo, NCI</b>   | Challenges facing the Australia & New Zealand geospatial community to further contribute to the development of standards<br><b>Chris Body, Consultant, Geospatial Standards</b> | Title TBC<br><b>Michael Stokes, Navigate</b>   | Digital mapping of soil erodibility for water erosion in New South Wales, Australia<br><b>Xihua Yang, New South Wales Office of Environment and Heritage</b>                                      |  |   |
| 1725                | <b>Research@Locate</b><br>The Current Status and Ongoing Investigations of 2D and 3D Digital Cadastre (ePlan) in Victoria, Australia<br><b>Hamed Olfat, Davood Shojaei, Mark Briffa and Abbas Rajabifard</b> |  | Farming Geospatial Datasets<br><b>Shailesh Shankar, DigitalGlobe Inc</b>  |   | Valuable lessons learned during Water Authority of Fiji's remedial work after Super Cyclone Winston's Fury, to consider before disaster strikes!<br><b>Josua Wainiqolo, Water Authority of Fiji</b>  |   | ELVIS – How to improve access to users by 1000%<br><b>Shane Crossman, Geoscience Australia</b>   |   |
| 1745                | <b>SESSIONS END</b>  |  |   |   |  |   |  |   |
| 1815                | <b>PRE DINNER DRINKS, EXHIBITION HALL</b>  |  |   |   |  |   |  |   |
| 1900                | <b>ASIA PACIFIC SPATIAL EXCELLENCE AWARDS, GRAND BALLROOM</b>  |  |   |   |  |   |  |   |

THURSDAY 6 APRIL 2017

|                            |  |  |   |   |   |   |   |  |
|----------------------------|--|--|---|---|---|---|---|--|
| 0830                       | MC welcome   |  |   |   |   |   |   |  |
| 0840                       | Title TBC<br><b>The Hon Kate Lundy</b>   |  |   |   |   |   |   |  |
| 0900                       | Singapore Land Authority - Smart Cities with AAM<br><b>Dr Victor Khoo, Singapore Land Authority &amp; Brian Nicholls, AAM, Pty Ltd</b>             |  |   |   |   |   |   |  |
| 0920                       | Digital Earth and Digital Transformations: are we ready?<br><b>Alessandro Annoni, Joint Research Center, EU, Italy</b>                             |  |   |   |   |   |   |  |
| 0940                       | Reality as a Service<br><b>Paul Lapstun, Nearmap</b>   |  |   |   |   |   |   |  |
| 1000                       | Title TBC<br><b>Kate Foy, Telco</b>  |  |   |   |   |   |   |  |
| 1020                       | Plenary Speaker Panel Discussion   |  |   |   |   |   |   |  |
| 1040                       | <b>MORNING TEA</b>   |  |   |   |   |   |   |  |
| <b>CONCURRENT SESSIONS</b> |  |  |   |   |   |   |   |  |
|                            | <b>CS04.1<br/>ENGINEERING/UTILITIES</b>  | <b>CS04.2<br/>RESEARCH &amp; INNOVATION</b>  | <b>CS04.3<br/>BIG DATA</b>  | <b>CS04.4<br/>WATER &amp; CLIMATE</b>   | <b>CS04.5<br/>GEOSPATIAL &amp; ECONOMY</b>  | <b>CS04.6<br/>NASA SMAP TUTORIAL</b>  | <b>CS04.7<br/>SPATIAL INFRASTRUCTURE</b>  | <b>CS04.8<br/>NEXT GENERATION POSITIONING<br/>INFRASTRUCTURE</b>   |
| 1110                       | <b>Keynote &amp; Chair</b><br>The role of spatial in digital engineering<br><b>Mary-Ellen Feeney, Jacobs</b>                                       | <b>Keynote &amp; Chair</b><br>Virtual Hubs for facilitating the use of geospatial datasets from heterogeneous data sources<br><b>Paolo Mazzetti, CNR IIA</b> | <b>Keynote &amp; Chair</b><br>Australian Data Cube<br><b>Stuart Minchin, Chief Environment Division, Geoscience Australia</b>   | <b>Keynote &amp; Chair</b><br>Applications of Spatial Analysis to support Integrated Water Management Strategy Development<br><b>Kate Williams, GHD</b> | <b>Keynote &amp; Chair</b><br>The missing LINK - connecting users with the right location information for their business<br><b>Simon Costello, Geoscience Australia</b> | <b>Special Session</b><br>NASA Soil Moisture Active Passive (SMAP) Tutorial<br><b>Susan Moran, NASA SMAP Science Team and Chair of the SMAP Applications Working Group</b><br>The NASA Soil Moisture Active Passive (SMAP) Observatory was launched January 31, 2015 to provide global measurements of soil moisture at high spatial and temporal resolution. SMAP products are now available free to the public ( <a href="http://nsidc.org/data/smap">http://nsidc.org/data/smap</a> ), and one of the first validation experiments was carried out in Yanco, NSW, Australia, from May 1-23, 2015 ( <a href="http://smap.jpl.nasa.gov/blog/">http://smap.jpl.nasa.gov/blog/</a> ).<br>The goal of the SMAP Tutorial is to promote capacity building and use of SMAP data by a larger international community. The comprehensive SMAP Tutorial will include videos, practical exercises and demonstrations.<br>A formal report of the Tutorial to the SMAP Project will include feedback to the mission and action items for post-event follow-up. All the attendees will be added to the SMAP Applications Working Group to receive regular messages about upcoming SMAP workshops, Cal/Val activities, and SMAP opportunities. | <b>Keynote &amp; Chair</b><br>The Spatial Knowledge Infrastructure - Creating value for policy makers and benefits for the community<br><b>Lesley Arnold, Geospatial Frameworks</b> | <b>Keynote &amp; Chair</b><br>Positioning for Innovation<br><b>John Dawson, Positioning Program Manager, Geoscience Australia</b>              |
| 1130                       | Level Crossing Removal Project - GIS Management Services<br><b>Mina Jahanshahi, GHD</b>  | Unpacking the 3rd D in 3D - re-imagining the graph as data<br><b>Rachel Lerm, Jacobs</b>   | <b>Research@Locate</b><br>Real-time detection and tracking of pedestrians in CCTV images using a deep convolutional neural network<br><b>Debaditya Acharya, Kourosh Khoshelham &amp; Stephan Winter</b> | S A Water's journey to electronic lodgement of VALIDATED as constructed information<br><b>Peter Sutter, S A Water</b>                                   | The Map is Dead, Long Live the Map!<br><b>Laura Kostanski, ThinkPlace</b>   |   | Crowd-Sorting Spatial Information<br><b>Hamish McNair, Canterbury University - Australia and New Zealand CRC for Spatial Information (CRCSI)</b>                                    | SBAS Update<br><b>Australia and New Zealand CRC for Spatial Information (CRCSI)</b>  |
| 1150                       | Automating Identification of Pressure Exemption Customers<br><b>Nicholas Flett, Western Australian Water Corporation</b>                           | Semi-automated Coastline Extraction of NSW, Australia<br><b>Brenton Ray, Spatial Services</b>  | High Performance Computing for Quantitative Remote Sensing Retrieval on CPU-GPU Heterogeneous Platform<br><b>Yong Xue, University of Derby</b>  | The HydroScheme Industry Partnership Program<br><b>Captain Stewart Dunne, RAN, Hydrographer Australia</b>   | The Australian Location Information Framework<br><b>Adam King, NSW Department Of Industry</b>   |   | Automatic Federation of Australia's Spatial Data Semantically<br><b>Jeremy Siao Him Fa, Curtin University - Australia and New Zealand CRC for Spatial Information (CRCSI)</b>       | CORSnet-NSW: Fundamental Positioning Infrastructure for New South Wales<br><b>Volker Janssen, NSW DFSI Spatial Services</b>                    |
| 1210                       | Using web based technologies to track and deliver utility and site surveys across major infrastructure projects<br><b>Ben Cooper-Woolley, Arup</b> | Geometry of Moon-based Earth Observation for Large-scale Geoscience Phenomena<br><b>Yixing Ding, Institute of remote sensing and digital earth</b>           | The consumerization of GIS<br><b>Clarence Hempfield, Pitney Bowes</b>   | <b>Research@Locate</b><br>Estimation of Spatial and Temporal EI30 from Weather Radar Rainfall Data<br><b>Qinggaozi Zhu, Xihua Yang and Qiang Yu</b>     | Exploiting Synergies between Land and Marine SDI<br><b>Andy Coote, ConsultingWhere</b>  |   | <b>Research@Locate</b><br>Web-Based Peer-to-Peer Interchange Capabilities for Geospatial<br><b>Evgeny Panidi</b>  | GNSS a backbone to the Internet of Things<br><b>James Millner, Position Partners</b>   |
| 1230                       | Digital Engineering Framework Program<br><b>Simon Vaux, Transport for NSW</b>  | Archival Recording of a Historically Significant Site Using 3D Laser Scanning Technologies<br><b>Richard Lemon, Jacobs</b>                                   |   | Web GIS based Visualization and Statistical Analysis of localized torrential rainfall in Japan<br><b>Satoru Sugita, Chubu University</b>                | Economic Value of Geospatial information and Technology<br><b>Anamika Das, Geospatial Media</b>   |   | Taming Mobile LiDAR Survey Information - Turning Noise into Intelligence for Spatial Infrastructure<br><b>Peter Jamieson, Anditi Pty Ltd</b>  | Improved National Positioning Infrastructure (NPI). Opportunities for the Surveying and Spatial Science Industry<br><b>Paul Digney, Jacobs</b> |
| 1250                       | <b>LUNCH</b>   |  |   |   |   |   |   |  |

THURSDAY 6 APRIL 2017

| CONCURRENT SESSIONS |  |   |  |  |   |  |   |   |
|---------------------|--|---|--|--|---|--|---|---|
|                     | CS05.01<br>TRENDS IN SURVEYING   | CS05.2<br>RESEARCH & INNOVATION   | CS05.3<br>BIG DATA   | CS05.4<br>WATER & CLIMATE  | CS05.5<br>GEOSPATIAL & ECONOMY  | CS05.6<br>SMART SENSORS<br>FOR NATURAL RESOURCE<br>MANAGEMENT  | CS05.7<br>SPATIAL INFRASTRUCTURE  | CS05.8<br>NEXT GENERATION POSITIONING<br>INFRASTRUCTURE   |
| 1350                | Monitoring Subsidence of Revetment Walls in Canal Developments using Remote Piloted Aircraft<br><b>William Farry, RPS Australia Eas</b>  | <b>Keynote &amp; Chair</b><br>The Role of Digital Earth Technologies in Digital Medicine<br><b>David Wortley, GAETSS - Gamification and Enabling Technologies Strategic Solutions</b> | Analysis of Land surface albedo products from Satellite Remote Sensing<br><b>Dongqin You, Institute of Remote Sensing and Digital Earth, CAS</b>       | Using the Geofabric in decision support for the protection of wetlands, and in delineation of Gauging catchments<br><b>Matthew Brooks, Bureau of Meteorology</b> | NSW Live: Real-Time Data as an Asset (DaaA)<br><b>Daniel Miller, Spatial Services, Department of Finance, Services and Innovation</b>   | Individual tree key parameters extraction based on LiDAR and hyperspectral data<br><b>Dan Zhao, Institute of Remote Sensing and Digital Earth, CAS</b>   | <b>Special Session</b><br>Spatial Infrastructures Technical Tutorial - Semantic Web<br><b>Dr David A McMeekin, Curtin University - Australia and New Zealand CRC for Spatial Information (CRCSI)</b>  | <b>Special Session</b><br>Next Generation Ubiquitous and Trusted Positioning Systems<br><b>Allison Kealy, The University of Melbourne</b>   |
| 1410                | Monthly 30 m surface reflectance composite of china and its applications<br><b>Bo Zhong, Institute of Remote Sensing and Digital Earth CAS</b>                                   | Process Ontologies To Assist in Orchestration<br><b>Chet Bing Tan, Curtin University - CRCSI</b>  | A Cloud-based Workflow Architecture for Geospatial Data Sharing<br><b>Brian Hope, Spatial Services, Department of Finance, Services and Innovation</b> | Coastal Western Australia Mapping & Uses<br><b>Alex Cowdery, Business Development Consultant, Fugro LADS Corporation</b>   | Waverley Council - Geo-enabling our communities<br><b>Joe Dantas, Pitney Bowes</b>  | Forest aboveground biomass estimation using LiDAR and scaling model in the Three Gorges region of China<br><b>Zhaoju Zheng, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences</b> | This interactive technical tutorial will demonstrate the use of semantic concepts and technologies and the influence over developing Australia and New Zealand's capabilities in the spatial infrastructures arena. The tutorial will provide participants with a basic understanding of what and how the tools can be used and subsequent benefits. The Spatial Infrastructures team will be available to prompt robust Q&A about the implementation of semantic technologies across organization's and jurisdictions and the implementation of national level ontologies. | The session will address the capabilities of a range of sensors and techniques for ubiquitous and trustworthy positioning in all environments. Presentations from applications domains will identify the performance requirements these positioning solutions are required to provide. Related topics on signals of opportunity, space based augmentation systems (SBAS), vulnerability and interference and innovative applications and algorithms will be used to showcase the requirements and potential for building the next generation of ubiquitous and trustworthy positioning solutions. |
| 1430                | Hybrid reality mesh generation from laser scans and digital photographs<br><b>Monika Zibolyte, Bentley Systems</b>   | TripleSat Constellation Terminal (TSCT) and Data Delivery and Management System (DDMS)<br><b>Cheng Xiaoyang, Twenty First Century Aerospace Technology</b>                            | You want to do what?<br><b>Brett Madsen, Permuto Pty Ltd</b>   |  | <b>Research@Locate</b><br>Detecting trends in cereal crop sowing dates using Landsat<br><b>David Gobbett &amp; James Hunt</b>   |  |   |   |
| 1450                |  |   | <b>Research@Locate</b><br>The Fundamental Theorem of Earth's Surface Modelling and its applications<br><b>TianXiang YUE, ZeMeng FAN, Na ZHAO</b>       |  | <b>Research@Locate</b><br>Perspectives of the Digital Earth's Approach in Detailed Mapping of Vegetation Growth and Climate Change Dynamics<br><b>Evgeny Panidi and Valery Tsepelev</b> |  |   |   |
| 1510                | <b>AFTERNOON TEA</b>   |   |  |  |   |  |   |   |
| 1540                | PLENARY SESSION<br>ICSM<br><b>Panel Chair: Michael Giudici, Surveyor General, Land Tasmania</b><br>Panel discussion – Impacts of Datum – National and International Perspectives |   |  |  |   |  |   |   |
| 1620                | PLENARY SESSION<br>Earth's transformation – our future<br><b>Steven Ramage, Senior External Relations Manager, GEO, Switzerland</b>  |   |  |  |   |  |   |   |
| 1640                | <b>CLOSING CEREMONY - Order of Proceedings NSW Minister TBC; SIBA President; SSSI President; ISDE handover; Closing address</b>  |   |  |  |   |  |   |   |
| 1715                | <b>CONFERENCE CLOSE</b>  |   |  |  |   |  |   |   |