

Multi-GNSS Asia Conference

2018 Program, Day One



FRONTIER S I



Time	Tuesday 23rd October
09:00 - 09:05	Welcome and Opening Ceremony (Chair: Assoc. Prof. Suelynn Choy, Chair, Local Organising Committee)
09:05 - 09:15	Welcome by Wurundjeri
09:15 - 09:20	Professor Calum Drummond, Deputy Vice-Chancellor R&I and Vice-President, RMIT University
09:20 - 09:25	Dr Amanda Caples, Lead Scientist, Victoria
09:25 - 09:30	Mr. Yasuhiro Yukimatsu, Director General for International Cooperation, National Space Policy Secretariat, Cabinet Office Japan
09:30 - 09:35	Ms Sharafat Gadimova, United Nations Office for Outer Space Affairs (UNOOSA)
09:35 - 09:40	Mr Satoshi Kogure, Chair, MGA
09:40 - 09:50	Photo Session
10:00 - 10:30	Exhibition Booth Opening and Coffee Break
10:30 - 12:15	Australian Strategies Session (Chair: Dr Graeme Kernich, Chief Executive Officer, FrontierSI)
10:30 - 11:00	Mr Anthony Murfett, Deputy Head, Australian Space Agency
11:00 - 11:30	Dr John Dawson, Section Leader, Geoscience Australia
11:30 - 11:50	Mr Glenn Cockerton, Co-Chair, 2026Agenda
11:50 - 12:05	Mr Craig Sandy, Surveyor-General, Victoria
12:05 - 12:15	Dr Graeme Kernich, Chief Executive Officer, FrontierSI
12:15 - 12:45	Diamond Sponsors Session
12:15 - 12:25	Lockheed Martin
12:25 - 12:35	Mitsubishi Electric
12:35 - 12:45	Magellan Systems Japan, Inc
12:45 - 14:00	Lunch
14:00 - 15:50	*GNSS System Providers Update Session (Chair: Mr Satoshi Kogure, Chair, MGA)
14:00 - 14:15	Mr Jeffrey Auerbach, Foreign Affairs Officer, Office of Space & Advanced Technology, U.S. Department of State "GPS"
14:15 - 14:30	Mr Oleg Kem, Director - GLONASS, ROSCOSMOS State Space Corporation "GLONASS/SDCM"
14:30 - 14:45	Mr Paul Flament, Head of Unit, Galileo and EGNOS, European Commission "GALILEO/EGNOS"
14:45 - 15:00	Ms Ying Liu, Senior Engineer, China Satellite Navigation Office "BeiDou"

15:00 - 15:15	Mr Satoshi Kogure, MGA Chair and Director QZSS Development, National Space Policy Secretariat, Cabinet Office Japan "QZSS"
15:15 - 15:30	Shri Parimal Majithiya, Associate Project Director Navigation Payload, Indian Space Research Organisation "IRNSS/NavIC"
15:30 - 15:45	Mr Graeme Hooper, Managing Director, GPSat Systems Australia "GNSS Technology for the New Era of Automation - A new Dawn"
15:45 - 16:15	Coffee Break
16:15 - 17:15	Panel Discussion: Positioning in Intelligent Transport Systems (Chair/Moderator: Pieter de Smet) Panel members: Ms Susan Harris (ITS Australia) Dr.Satoru Nakajo (Mitsubishi Research Institute), Dr Grant Hausler (Swift Navigation), Ms Sara Masterson (Hexagon Positioning Intelligence)
17:20 - 19:30	Welcome Reception & Young Professional and Students Networking Event Dr Alex Grant, CEO, Myriota Dr Nathan Quadros, Head of Strategy, Tikki and Chief Commercial Officer, FrontierSI Ms Julia Mitchell, SBAS Test-bed Program Manager, FrontierSI Mr Rainer Horn, Managing Partner, SpaceTec Partners Facilitated Networking Ms Imogen Rea, SBAS Test-bed Project Coordinator, FrontierSI Mr Bez Mohammadi, Chief Commercial Officer, Wright Technologies

**System Providers Session offers a generous spread of updates from the Global Navigation Satellite Systems (GNSS) and Regional Navigation Satellite Systems (RNSS) signal providers. 'GPS' 'GLONASS' 'GALILEO' 'BeiDou' 'QZSS' 'IRNSS/NavIC'*

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2018 Program, Day Two



Time	Wednesday 24th October
09:00 - 10:20	Multi-GNSS Industrial Development and Applications, Australia-Japan Session (Chair: Dr John Dawson, Section Leader, Geoscience Australia)
09:00 - 09:20	Introduction and overview by the Australian Department of Industry, Innovation and Science and Cabinet Office Japan
09:20 - 09:35	Mr Tristan Harris, Senior Project Engineer, Melbourne Metro Rail Authority "InSAR Pilot Project on the Metro Tunnel Project"
09:35 - 09:50	Mr Luis Elneser, Positioning Infrastructure Applications Manager, Position Partners "Impact of Multi-GNSS use in the construction industry"
09:50 - 10:05	Mr Takumi Nagaoka, Senior Engineer, Hitachi Ltd "Examination of a High-Precision, High-Efficiency Analytical System That Uses a Quasi-Zenith Satellite for Agriculture in Australia"
10:05 - 10:20	Mr Yoshikatsu Iotake, Director, Global Positioning Augmentation Service Corporation "Prospect for global positioning augmentation service by MADOCA"
10:20 - 10:50	Coffee Break
10:50 - 11:35	Multi-GNSS Industrial Development and Applications, Australia-Japan Session (Chair: Dr John Dawson, Section Leader, Geoscience Australia)
10:50 - 11:05	Dr Takeyasu Sakai, Principal Researcher, National Institute of Maritime, Port and Aviation Technology "The IGSO SBAS: Multi-GNSS Augmentation from the Zenith"
11:05 - 11:20	Dr Ryan Keenan, Business Development Manager - Asia & Oceania, Septentrio "SBAS Australian-NZ test-bed: Exploring New Services"
11:20 - 11:35	Mr Julian Barrios Lerma, Section Head, GMV "Australia and New Zealand Second Generation SBAS and PPP Augmentation System Infrastructure and Results"
11:40 - 12:40	*Panel Discussion: Australia and New Zealand SBAS Test-Bed (Chairs/Moderators: Ms Julia Mitchell, SBAS Test-bed Program Manager, FrontierSI and Dr Matt Amos, National Geodesist, Land Information New Zealand)
11:40 - 11:50	Ms Julia Mitchell, SBAS test-bed Program Manager, FrontierSI "The Australian SBAS test-bed Context"
11:50 - 12:00	Dr Matt Amos, National Geodesist, Land Information New Zealand "The New Zealand SBAS test-bed Context"
12:00 - 12:40	Panel Discussion Panel members: Dr Jaime Manning (CQUniversity), Mr Nuddin Tengku (FrontierSI), Mr Hayden Asmussen (Vic Dept Environment, Land, Water and Planning), Mr James Millner (Position Partners)
12:40 - 13:30	Lunch
13:30 - 15:10	*Early Warning Service (EWS) using GNSS Session (Chair: Prof. Naohiko Kohtake, Keio University)
13:30 - 13:40	Introduction and overview by Professor Naohiko Kohtake, Keio University

13:40 - 13:55	Ms Deborah Jepsen, Director, Strategy and Investment, Emergency Management Victoria "EWS requirements in Australia"
13:55 - 14:10	Mr Paul Flament, Head of Unit, Galileo and EGNOS, European Commission, Mr Masaharu Kugi, Advisor, National Space Policy Secretariat, Cabinet Office, Japan "Creating common message format on Galileo and QZSS EWS - A Joint Presentation by the European Commission and Japan"
14:10 - 14:25	Cont'd: "Creating common message format on Galileo and QZSS EWS - A Joint Presentation by the European Commission and Japan"
14:25 - 14:40	Mr Jeffrey Auerbach, Foreign Affairs Officer, Office of Space & Advanced Technology, U.S. Department of State "GNSS Augmentation to the Tsunami Early Warning Systems (GATEW) Project"
14:40 - 15:10	Q&A moderated by Prof. Naohiko Kohtake, Keio University
15:15 - 15:45	Gold Sponsors Session
15:15 - 15:25	Nikon Trimble
15:25 - 15:35	Telstra
15:35 - 15:45	GNSS.Asia
15:45 - 16:15	Coffee Break
16:15 - 17:55	Multi-GNSS Industrial Development and Applications Session (Chair: Mr James Millner, Position Partners)
16:15 - 16:30	Mr Nick Brown, National Geodesy Section Leader, Geoscience Australia "Next generation height reference frame"
16:30 - 16:50	Dr Roger Fraser, Manager Geodetic Survey, Victorian Department of Environment, Land, Water and Planning "Victoria's GNSS CORS Infrastructure - Current Status, Ongoing Developments and Future Challenges and Opportunities"
16:50 - 17:05	Mr Jimmy Tan, Assistant Manager, Singapore Land Authority "Enhancing Smart Nation with SiReNT"
17:05 - 17:20	Dr Francesca Clemente, Product Manager, Septentrio "Efficient Jammer Detection and Classification using GNSS Receivers on a Highway Overhead Structure"
17:20 - 17:35	Dr Izumi Mikami, Senior Executive Director, Satellite Positioning R&D Center "Millimeter class displacement detection retrieval from centimeter class PPP-RTK/RTK measured data"
17:35 - 17:50	Mr Sho Miyamoto, CORE Corporation "Development of QZSS cm Precision Positioning Receiver"
18:00 - 18:45	Young Professional and Student Forum prototyping presentations
18:45 - 23:00	Conference Dinner at The Old Melbourne Gaol

**The SBAS panel provides an update on relevant economic and social data obtained during the test-bed and how the technology provides a cost-effective way to improve GNSS accuracy from around five meters to less than a meter.*

**Early Warning Service Session features a range of presentations from Australia, Japan, the European Union and the USA on utilisation of GNSS technology for disaster warning and alert.*

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2018 Program, Day Three



FRONTIER S I



Time	Thursday 25th October
09:00 - 10:30	Latest Trends in Multi-GNSS Research and Development Session (Chair: Dr Phil Collier, Research Director, FrontierSI)
09:00 - 09:15	Dr Robert Odolinski, Senior Lecturer University of Otago, New Zealand "Smartphone and low-cost multi-GNSS RTK positioning: current and future status"
09:15 - 09:30	Professor Allison Kealy, Associate Dean, International Engagement, RMIT University "GNSS raw data application with Android Smartphone"
09:30 - 09:45	Mr Yoshihiro Fukuzaki, Research Officer, Geospatial Information Authority of Japan "Development of Multipath Mitigation Methods to Improve GNSS Positioning Accuracy Under Urban Environments"
09:45 - 10:00	Dr Thayathip Thongtan, Electrical Metrologist, National Institute of Metrology, Thailand "GNSS Time Comparisons in Thailand"
10:00 - 10:15	Dr Ken Harima, Research Fellow, RMIT University "Locally Augmented PPP as Positioning Infrastructure in Oceania"
10:15 - 10:30	Dr Dinesh Manandhar, Associate Professor, The University of Tokyo "GNSS Vulnerabilities and Anti-Spoofing Solutions"
10:30 - 10:50	Gold Sponsors Session
10:30 - 10:40	GMV
10:40 - 10:50	Airbus
10:50 - 11:15	Coffee Break
11:15 - 12:45	Latest Trends in Multi-GNSS Research and Development Session (Chair: Dr Dinesh Manandhar, Associate Professor, The University of Tokyo)
11:15 - 11:30	Dr Ryoichiro Yasumitsu, General Manager, Mitsubishi Electric Corporation "A new utilization activity of the high precision augmentation broadcasting service using QZSS"
11:30 - 11:45	Mr Sasanka Madawalagama, Research Associate, Geoinformatics Center "Assessment of low cost GNSS solutions for mapping by drones"
11:45 - 12:00	Ms Rahadian Fauzi, Land Surveyor, KJSKB Rahadian Fauzi, Indonesia "Comparative Study of GPS Positioning Method Based on Online Positioning User Service Towards on Cadastral Control Point 2nd Order at Sleman Regency and Bantul Regency"
12:00 - 12:15	Dr Anindya Bose, Scientific Officer, The University of Burdwan, India "On Time-dependent GNSS satellite Visibility Problem from High Elevation Angles and NavIC Contribution"
12:15 - 12:30	Dr Shweta Shah, Assistant Professor, Sardar Vallabhbhai National Institute of Technology, India "Impact of Okchi Cyclone on IRNSS/NavIC GNSS signal due to Ionospheric and Tropospheric Variation"
12:30 - 12:45	Mr Yuto Yoshimura, Engineer, Japan Aerospace Exploration Agency "Evaluation of MADOCA-PPPAR in the vicinity of shield using robot tractor"

13:00 - 13:15	Closing Session (Chair: Mr Satoshi Kogure, Chair, MGA)
13:00 - 13:05	MGA Activity Report by Mr Satoshi Kogure, Chair, MGA
13:05 - 13:10	Announcement of the 2019 MGA Conference (by the host country/organisation)
13:10 - 13:15	Closing speech by Mr Satoshi Kogure, Chair, MGA