

SEASC 2019 DARWIN

SOUTH EAST ASIA SURVEY CONGRESS

Tuesday 13 August 2019

8:30 - 17:00

Pre-Congress Tour Options

Kakadu National Park, Barra Fishing Charter, Katherine, Litchfield Park, Tiwi Islands
<https://www.tourismtopend.com.au/SEASC-2019>
 Tourism concierge services available during the congress period

Wednesday 14 August 2019

Optional Industry working groups & delegate meetings

9:30 - 12:00

ASEAN FLAG Executive Committee Pre-Council Meeting
 (For Appointment Holders)

1st ASEAN Master's Golf Day
 (Invitation Only)

12:00

LUNCH

13:00 - 19:00

70th ASEAN FLAG Council Meeting
 Scheduled meeting of the ASEAN council
 (Council Members Only)

UN GGIM AP / FIG Meeting with Director Generals, reps from member Countries and Associations
 (Invitation Only)
 This time is reserved for a special meeting of heads of Asia Pacific to discuss pressing items and plans for collaboration over capacity and capability building in the Asia Pacific
 Chaired by President SSSI

19:30 - 22:00

Pre-Congress Tour Options

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SOUTH EAST ASIA SURVEY CONGRESS

Thursday 15 August 2019

7:00 REGISTRATION DESK OPENS			
	Young Professionals Day	½ Day Historical Tour	Workshops
9:00	<p>Welcome and Opening Plenary: Setting the Scene for Personal Growth</p> <p>Welcome and opening of SEASC2019 Young Professionals Day SEASC2019 Co-conveners – Rob Sarib, Lee Hellen, Gerry Ong SSSI President (Dr Zaffar Sadiq Mohamed-Ghouse) Australia ASEAN Flag President (Mr Randolf Sevidal Vicente) ASEAN Chair, SSSI Young Professionals (Roshni Sharma) Australia Chair; Young ASEAN Surveyors Network (YASN) ASEAN Keynote (Donmarl Camua, Founding Member, FIG YSN Asia & the Pacific) The Philippines Opening of Exhibition of SEASC2019 YP poster and video competition for delegates to vote on.</p>	<p>In the Footsteps of Goyder facilitated by Michael Wells, Australia , NT Department of Tourism and Culture & Trevor Menzies, Australia ,MSIA Heritage Program</p> <p>The half day tour will include:</p>	<p>8:30 - 12:30 Positioning and Datum Modernisation Workshop</p> <p>Keynote Presentations Dr John Dawson, Geoscience Australia, Australia Mikael Lilje, International Federation of Surveyors (FIG), Sweden</p>
10:10	MORNING TEA		
10:30	<p>YP Live! Sharp lightning talks by young professionals - '5 min stand up with a scientific twist' Showcase your ideas and get talking about surveying and mapping (individuals or groups)</p>	<ul style="list-style-type: none"> - A viewing of the Exhibition "In the Footsteps of Goyder" that commemorates the 150th anniversary of the establishment of Darwin at Roadmasters House Museum. - A visit to Goyder Park which commemorates the original camp that has evolved into the City of Darwin. 	<p>Activities in Europe regarding Positioning Services focusing on the Nordic area Dr Tom Lewis, Military Historian, Australia</p>
10:50	<p>Discovery Workshop 1: Get Ready for Action! Help solve surveying and mapping innovation challenges and develop the skills to manage them Facilitated by Laura Kostanski, Thinkplace Global</p> <p>'In the background:' Collaboration database (available online for delegates to register onto)</p>	<ul style="list-style-type: none"> - A bus trip to the Virginia Townsite which was surveyed by the Goyder Expedition but never developed. Many original survey marks are still in place. - A bus trip to Southport townsite near Berry Springs that was another townsite surveyed by the Expedition. 	<p>The great air race in 1919 and how they navigated 18,000 km from England to Australia Hosted by UN-GGIM AP, FIG Commission 5 and Geoscience Australia</p>
11:30	<p>Career Development Workshop / Discovery Session 2: Delivering you the capability boost you've always wanted 'Professional development for Next Generation Leaders, to enable next generation skills and capability' Facilitated by Amy Hetherington, Amiable Communications</p>	<p><i>This tour is free but there are limited space, please book as part of the registration process</i></p>	
12:30	LUNCH		

Thursday 15 August 2019

Young Professionals Day		Workshops	
13:30	<p>YP live! Sharp lightning talks Our second round of short and impactful presentations, by YP's for YP's (individuals or groups).</p>	<p>Datum Transformations Hands-on Speaker tbc</p>	<p>13:00 - 17:00 Modernisation of the Cadastre Part 1</p> <p>Keynote Presentations Brent Jones, USA, Esri, Modern Parcel Management</p> <p>Dato' SR Hasan Jami, Malaysia & Mohammad Azmi Mohd Zi, PEJUTA Association of Authorised Land Surveyors Malaysia, Malaysia</p> <p>Hosted by Esri</p>
14:00	<p>Discovery Workshop 3: What's stopping you going to the next level? Unpacking the challenges that young professionals face in the industry and how we can flip these into opportunities to catalyst positive change. Facilitated by Amy Hetherington, Amiable Communications.</p>		
14:30-15:00	<p>AFTERNOON TEA</p>		
15:00	<p>YP Live! RPAS and drone field demonstration YP's expressing next generation capability with RPAS, for surveying and Mapping application. Join with the best of our YP's as we do live demos with everything Drone and UAV with cutting edge applications.</p>	<p><i>Further details to be confirmed</i></p>	
15:20	<p>Discovery workshop 4: Lean on Me A deep dive into how next generation capability and skills can unite to strengthen the future of the global geospatial industry. Facilitated by Laura Kostanski, Thinkplace Global</p>		
16:00	<p>Closing Plenary Keynote: "Professional Development - Invest in yourself and get others to invest in you" Ms Narelle Underwood, Australia NSW Surveyor General & Director Survey Operations.</p>		
16:30	<p>Closing Panel discussion with Chairs of ASEAN YPs and SSSI YPs, facilitated by Amy Hetherington, Amiable Communications 'The Way Forward'</p> <p>Chethna Ben, Fiji, Representative, FIG Young Surveyors Donmarl Camua, The Philippines, Founding Member, FIG YSN Asia & the Pacific Kelvin Tang, Malaysia, Chair, Malaysia Young Surveyors Network Kazuaki Fuji, Japan, Chair, Japan Young Surveyors Network Roshni Sharma, Australia, Chair, SSSI National Young Professionals Narelle Underwood, Australia, NSW Surveyor General & Director Survey Operations</p>		
17:00	<p>Day One concludes</p>		
17:30 - 19:00	<p>GeoRabble SEASC2019, Closing Drinks and Icebreaker Function & Exhibition Opening Darwin Convention Centre, Hall 1</p>		
19:30 - 22:30	<p>Fellowship Dinner (Invitation Only) Wharf One Food & Wine Restaurant</p>		

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SOUTH EAST ASIA SURVEY CONGRESS

Friday 16 August 2019

7:00	REGISTRATION DESK OPENS
8:30	<p style="text-align: center;">Plenary - Auditorium</p> <p style="text-align: center;">Welcome to Country Larrakia Traditional Owner Official Congress Opening Randolf S. Vicente, President - ASEAN FLAG</p> <p style="text-align: center;">Welcome Remarks Dr Zaffar Sadiq Mohamed-Ghouse, Australia, President - SSSI</p> <p style="text-align: center;">Keynote Speech His Excellency Dato' Paduka Lim Jock Hoi, Brunei Darussalam, ASEAN Secretary General</p> <p style="text-align: center;">Representative of Australian Government (TBC) Representative of Northern Territory Government (TBC)</p>
9:30	<p style="text-align: center;">Plenary Speaker Presentations</p> <p style="text-align: center;">Dorine Burmanje, The Netherlands, Co-Chair UNGGIM & Chair Executive Board, Kadaster Andy Barnicoat, Australia, Geoscience Australia Greg Scott, (Australia / USA) UN-GGIM Narelle Underwood, Australia, NSW Surveyor General & Director Survey Operations</p>
10:30	MORNING TEA - Exhibition, Darwin Convention Centre, Hall 1

Friday 16 August 2019

	Auditorium	Breakout 1	Breakout 2	Breakout 3	Breakout 4
	Plenary	UAVs, Drones and Remote Sensing	Positioning, Navigation and Datums	Cadastral and Land Administration Systems	Hydrography
11:00	<p>Licensing / Registration of Surveyors in Regulatory Framework Forum Hosted by CRSBANZ, Australia and New Zealand Surveyors Boards</p> <p>ASEAN Surveying MRA – The Way Forward Pengiran Matusin Matasan Hon President AFLAG, Brunei Darussalam</p> <p>National Qualifications Framework and the ASEAN Qualifications Reference Framework in relation to the importance in Ensuring the Mobility of ASEAN Surveyors - Dr. Jose Y. Cueto, Commissioner, Professional Regulation Commission, Republic of the Philippines</p>	<p>A Low-Cost High-Precision Geo-Location Solution for UAVs Todd Morschel Land Solution Australia, Australia</p>	<p>Australian datum modernisation Alex Woods Surveyor-General Victoria, Australia</p>	<p>The Northern Territory – Digital Survey and Cadastral Innovators. Ian Harper Geodata Australia, Australia</p>	<p>Detecting of Seafloor Changes Using Satellite Bathymetry Approach Kelvin Kang Wee Tang University Teknologi Malaysia, Malaysia</p>
		<p>A comparison of DEM generation from LiDAR data using LasTools and ArcMap application Bahareh Kalantar RIKEN Center for advanced intelligence project, Malaysia</p>	<p>Everything the modern surveyor needs to know about multi-GNSS (and was too afraid to ask) Craig Roberts Australia</p>	<p>Transformation and Unification of the Different Cadastral Data in the Philippines Louie Balicanta UP Department of Geodetic Engineering, Republic of the Philippines</p>	<p>Further speakers to be advised</p>
		<p>Topographic Feature Recognition from UAV LIDAR DEMs and Red Relief Image Maps Victor J. D. Tsai National Chung Hsing University, Taiwan</p>	<p>National Positioning Infrastructure 2.0 – where to from here? Chris Rizos UNSW, Australia</p>	<p>Developing a Conceptual Model for a 3D Spatial Cadastral in Victoria Anietie Ekpo Fyfe Pty Ltd, Australia</p>	
		<p>Kalman Filter design for IMU drift reduction to use in indoor navigation in underground mining Fatemeh Moghaddam Curtin University, Australia</p>	<p>GDA2020: A Datum Modernisation Story Michael Giudici Land Tasmania, Australia</p>	<p>ePlan Working Group Forum Craig Sandy DELWP, Australia</p>	
		<p>A case study of photogrammetry tools and spatial techniques to assist burn assessment Petra Helmholtz Curtin University, Australia</p>	<p>Joining New Zealand Land and Sea Vertical Datums Graeme Blick Land Information New Zealand, New Zealand</p>	<p>4D-IMADAS 2019-3D cadastral mapping Hiroyuki Hasegawa GeoNet, Inc., Japan</p>	
<p>12:30 NETWORKING LUNCH - Exhibition, Darwin Convention Centre, Hall 1</p>					
13:00	<p>TECH Talk SEASC2019 version of TED talks sponsored by leading technology suppliers and providers in the Exhibition hall during the lunch break</p>		<p>Around the Campfire 'Discovery Session 5' Exploring issues that shape our future, our lunchbreak session will explore items and ideas to grow opportunity for the surveying and geospatial industry; Facilitated by Thinkplace Global and the SSSI YP's</p>		

Friday 16 August 2019

	Auditorium	Breakout 1	Breakout 2	Breakout 3	Breakout 4
	Plenary - Auditorium				
13:30	<p>Dr Victor Khoo Hock Soon, Singapore, Director, Singapore Land Authority Dr Paramesh Banerjee, Singapore, President - Asian Seismological Commission, Specially Appointed Professor, Chinese Earthquake Administration Kellie Dean, Australia, Spiire</p>				
	Auditorium	Breakout 1	Breakout 2	Breakout 3	Breakout 4
14:30	Forum	UAVs, Drones and Remote Sensing	Geospatial Information and Land Management	Cadastral and Land Administration Systems	Surveying in the Built Environment
	<p>Diversity and Inclusion <i>Speakers to be advised</i></p>	<p>A prototype for drone self-navigation in underground mine Shabnam Zarghamafshar Curtin University, Australia</p>	<p>Visualisation needs – Advancing the Northern Australia development agenda. Mark Asendorf Geological Society of Australia, Australia</p>	<p>Cadastral Survey Records Reconstruction using Graphical Data Vincent Louise Azucena University of the Philippines Training Center for Applied Geodesy and Photogrammetry, Republic of the Philippines</p>	<p>Digital Twin = 3D Digital Cadastre + BIM Davood Shojaei The University of Melbourne, Australia</p>
		<p>The Digital Twin – Drones and reality modelling Glen Burke Bentley Systems Australia</p>	<p>The Surveyor as an Environmental Manager – Newnes Kaolin mine and quarry Anthony Proust Australia</p>	<p>Multiple QGIS Plugins For Land Management Purposes in the Philippines Deane Leonard Bool UP TCAGP, Republic of the Philippines</p>	<p>Digital Transformation in the Civil Infrastructure industry Graham Wirth 12d Solutions Pty Ltd Australia</p>
		<p>The potential of using satellite altimetry for sea level study in Brunei Darussalam Muhammad Hifney Haji Abd Rahman Brunei Survey Department Brunei Darussalam</p>	<p>Australia's Geocoded National address File (G-NAF) Fifteen Years On Brian Marwick PSMA Australia, Australia</p>	<p>Increasing Cadastral Survey Productivity to Tackle Undocumented Land Rights Worldwide: A Case Study Stephanie Michaud Trimble Inc, USA</p>	<p>The Sydney Harbour Bridge High Precision Terrestrial Laser Scanning Survey and 3D CADD Modelling Paul Digney Jacobs, Australia</p>
		<p>Sundale Project - Bridging the Gap between Remote Sensing and Surveying Liam Thierens Bennett and Bennett Australia</p>	<p>Geospatial Data on the Go Bernard Liew Malaysia</p>	<p>Trimble CenterPoint RTX in South Australia and how it is improving the State's Digital Cadastral Data Base Joe D'Aloia Fyfe Pty Ltd, Australia</p>	<p>Laser Scanning for GREP Project and "Scan to BIM" Modelling Lei Ma Fyfe Pty Ltd, Australia</p>
15:30	AFTERNOON TEA - Exhibition, Darwin Convention Centre, Hall 1				

Friday 16 August 2019

	Auditorium	Breakout 1	Breakout 2	Breakout 3	Breakout 4
	Workshop	UAVs, Drones and Remote Sensing	Positioning, Navigation and Datums	Surveying and Geospatial Capacity Development	SDI Innovations and Digitising Work Flows
16:00	Modernising the Cadastre Workshop Part 2 Hosted by Brent Jones , USA , ESRI	Analysis of the Effects of Ground Control Points Distribution on the Accuracy of Digital Surface Models from UAV Imagery Vie Marie Paola Rivera University of the Philippines Training Center for Applied Geodesy and Photogrammetry, Republic of the Philippines	Deploying a new transformation algorithm in order to prepare for GDA2020. Gabriel Van Wyk Whereabouts Consulting, Australia	Education, Training and Capacity Building needs in the Asian Pacific region Mikael Lilje FIG, Sweden	Herding Cats - Regional Collaboration in Digital Engineering George Havakis GISSA International, Australia
		Integration of UAVs capturing high resolution imagery & LiDAR Heidi Gore Fyfe Pty Ltd, Australia	Re-establishment of the PNG94 geodetic datum in the Papua New Guinea Oilfields after the Mw 7.5 earthquake on 26th February 2018 Richard Stanaway Quickclose Pty Ltd, Australia	Building Survey and Geospatial Capacity in Asia and the Pacific Region Rob Sarib FIG - Asia Pacific Capacity Development Network, Australia	Geospatial dreamtime to digital Martin Russell Aurecon, Australia
		Drone and 3D scanning innovation in North Australian construction Anna Goat Rise PC, Australia	Linking The Different Coordinate Systems in the Philippines Yvan Pagdonsoan UP Training Center for Applied Geodesy and Photogrammetry, Philippines	The Future of Mine Surveying, Automation and the Digital Revolution Daniel Ward Airobotics, Australia	A new roadmap for going beyond road maps Matthew Jakob Geoscience Australia, Australia
		Advanced Technologies of Surveying and Mapping in Cadastre and Disaster Reduction in Taiwan Yen Wei Chiu Ministry of the Interior, Taiwan	On the Navigation and Positioning Infrastructure for Taiwan Peter Tian-Yuan Shih National Chiao Tung University, Taiwan	Sustainability of Land Surveying Profession Michael Nietschke Alexander Symonds, Australia	Manage Data Andrej Mocicka 1Spatial Australia, Australia
		Further speakers to be advised	Positioning performance of SBAS and PPP technology from the Australia and New Zealand SBAS test-bed Eldar Rubinov FrontierSI, Australia	Determining the Future Demand for Surveyors and Geospatial Professionals / Skilling Surveyors and Geospatial Professionals Michelle Blicavs Consulting Surveyors National, Australia	Automation of Infrastructure and Construction Monitoring Services Lee Hellen Monitum Pty Ltd, Australia
		Satellite-based Height System for Geospatial Infrastructure in SE Asia region Fientje Kasenda Denmark Technical University, Denmark	Further speakers to be advised	Further speakers to be advised	
17:30	Day One concludes				
18:30 - 20:00	YP Casual Networking Dinner with Pizza Precinct Beer Garden, Darwin Waterfront				

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Saturday 17 August 2019

7:00	REGISTRATION DESK OPENS
8:30	<p style="text-align: center;">Plenary - Auditorium</p> <p style="text-align: center;">Dr Karen Joyce She Maps, Australia</p> <p style="text-align: center;">Dr Stefan Hrabar Emesent, Australia</p> <p style="text-align: center;">Ms Loh Suat Yen Singapore, Housing and Development Board, Singapore</p> <p style="text-align: center;">Caroline Morgan Australia / Belgium International Federation of Reproduction Rights Organisations (IFRRO)</p>
10:00	MORNING TEA - Exhibition, Darwin Convention Centre, Hall 1

Saturday 17 August 2019

	Auditorium	Breakout 1	Breakout 2	Breakout 3
	Workshop	Subsurface and Engineering Surveying	Disaster Management	Workshop
10:30	<p align="center">Integrated Digital Delivery (IDD) Workshop The Singapore Experience</p> <p align="center">Mr Lee Eng Soon, Singapore, Survey Department & Land Planning Division of JTC Corporation</p>	<p>Review of the newly released SUI Standard: Classification of Subsurface Utility Information. (AS5488 2019) Gabriel Van Wyk Whereabouts Consulting, Australia</p> <p>Analysis of Deformation Processes Resulting from the 2013 MW 7.2 Bohol Earthquake Danica Noveloso Geodetic Engineers of the Philippines Inc., Republic of the Philippines</p> <p>The Secret and Mystery of Underground BIM- How to make it Useful for Safety and Progress Control Dr King Wong International Institute of Utility Specialists, Hong Kong</p> <p>Large Scale Underground Utility Mapping Using Mobile Mapping Solution Siew Wei Jaw Singapore-Eth Centre, Singapore</p> <p>Mass Data for Mining – Literally Nicholas Davies Veris, Australia</p> <p>Deformation Detection Method of Aseismic Flat Steel on Dam Surface Based on 3D Laser Scanning Technology Shiqi Wang and Shengchang Xiao Institute of Information Technology, Power China Kunming Engineering Corporation Limited, China</p>	<p>Utilizing LiDAR DEM for Detailed Flood Modeling - Sanyei Area as a Case Study Yung-Chia Hsu National Taiwan University, Taiwan</p> <p>Nursery Industry Natural Disaster Risk Mitigation & Recovery Peter James Cohga, Australia</p> <p>Liquefaction Potential Zone from a GIS Perspective in Fiji Islands: A Case Study of Viti Levu Island / Earthquake Hazard Zonation in Viti Levu Island of Fiji. Joeli Varo Papua New Guinea University of Technology, Papua New Guinea</p> <p>Research on Mountainous Highway Disaster Prevention Technology with Spatio-temporal Big Data Liuyang Fang National Engineering Laboratory for Surface Transportation Weather Impacts Prevention, Broadwater Engineering Consultants, China</p> <p>Application of Low-altitude UAV in Natural Disaster Emergency, Xiong Dengliang, Ke Zunjie and Gong Xucai, Yunman Basic Surveying and Mapping Technology Centre, Kunming China</p> <p>Industry & Tertiary Education Partnership – Bringing Climate Change / Natural Disaster Mapping Solutions to the Solomon Islands Richard Cirillo Taylors, Australia</p>	<p align="center">Drone Photogrammetry Workshop</p> <p align="center">Tim Whiteside Environmental Research Institute of the Supervising Scientist</p>
12:30	NETWORKING LUNCH- Exhibition, Darwin Convention Centre, Hall 1			
12:45	<p align="center">TECH Talk</p> <p>SEASC2019 version of TED talks sponsored by leading technology suppliers and providers in the Exhibition Hall during lunch</p>	<p align="center">Around The Campfire ' Discovery Session 6'</p> <p>Exploring issues that shape our future, our lunchbreaksession will expore items and ideas to grow opportunity for the Surveying and Geospaital industry; Facilitated by Thinkplace Global and the SSSI Yp's.</p>		

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SOUTH EAST ASIA SURVEY CONGRESS

Sunday 18 August 2019

7:00				
REGISTRATION DESK OPENS				
	Breakout 1	Breakout 2	Breakout 3	Venue tbc
	UAVs, Drones and Remote Sensing	Surveying and Geospatial Capacity Development	SDI Innovations and Digitising Work Flows	Closed Meeting
	Coordinate Comparison of Google Maps and Thailand 1:4,000 Orthophoto Prof. Deeboon Methakullachat, Dr. Wicha Jiwalai Kasetsart University, Thailand	The Copyright Trust — its formation and its role in Collaboration, Communication and Capacity Building Jack de Lange Australian Copyright Trust, Australia	A study into optimising efficiency in surveying workflows and producing intelligent deliverables with Trimble Solutions Steven Sheppard Trimble, Australia	SEASC 2019 Darwin Organising & Technical Program meeting (Invitation only)
9:00	Augmented Reality for Better Understanding of History Dzauqi Arani Indonesian Surveyor Association, Indonesia	Imparting the skills, knowledge and experience to be sustainable (Capacity Building) Eswin Hasengi Kumanunku Newcrest Mining Limited, Papau New Guinea	Developing the Future-Ready Digital Sabah Doria Tai Malaysia	
	ISPRS (International Society for Photogrammetry and Remote Sensing) - Serving society with information from images Dr. Petra Helmholtz, Australia	How soon will the professional surveyors become interpreters of technology output? Noordin Ahmad Setia Geosolutions, Malaysia	The Role of Efficient and Effective Survey Mapping in realizing the Rote Dead Sea Lake Area as a Geopark Atriyon Julzarika Universitas Gadjah Mada & Lapan, Indonesia	
10:00				
MORNING TEA - Exhibition, Darwin Convention Centre, Hall 1				

Sunday 18 August 2019

Plenary - Auditorium

15th SEASC 2019 Congress Closing Plenary

One Map Policy Program of Indonesia: Status and Future Plans

Professor Hasanuddin Z. Abidin, Indonesia, Head, Indonesian Geospatial Information Agency (BIG)

Gary Johnston, PSM, Australia, Head of National Positioning Infrastructure Branch, Geoscience Australia

Title tba

Matt Higgins, Qld Department of Natural Resources, Mines & Energy, Australia

Karl Rodrigues, Australia, Executive Director for International and National Engagement - Australian Space Agency

Congress Summary and Declaration

Closing Ceremony , 15th SE Asia Surveying Congress -Preseantation to the Host of the 16th SEASC , ASEAN

10:30

13:00

NETWORKING LUNCH- Exhibition, Darwin Convention Centre, Hall 1

14:00

Conference and Exhibition Closes

Closed Meetings

13:30-15:30

15th ASEAN FLAG Biennial General Assembly Meeting
(Invitation Only)

16:00-17:30

71st ASEAN Council Meeting
(Council Members Only)

18:30-23:00

Social Event
"A night at the Darwin Festival"