



Surveying & Spatial Sciences Institute (SSSI)

2019/2020 Annual Report





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Our Surveying & Spatial Sciences Institute

The Surveying and Spatial Sciences Institute (SSSI) is the peak national body for all custodians of quality spatial (location) data creation, storage, maintenance and use in Australia. SSSI exists to serve the evolving needs of this community, maintaining its rich heritage stretching back hundreds of years, in balance with adapting to new technologies as we move towards the fourth industrial revolution with changes in the way we work and the skills valued in the workplace.

What sets SSSI apart is its unique national reach, which enables a number of significant strengths: informed advocacy, the ability to break down geographic silos and build technical excellence, the ability to offer a plethora of events which enable a diverse network of professionals to network and collaborate, promote certification to strengthen the skills and knowledge of the Australian geospatial and surveying industry, provide professional development opportunities, migration skills assessment and many more.

The principal objects of the Institute are:

- to empower the Members to strive for excellence in the application and practice of surveying and spatial science for the benefit of the community;
- to represent, support, provide for and promote the professional interests of Members that work in the surveying and spatial industry in all its disciplines;
- to provide a national and regional identity to enable the development of the surveying and spatial industry as a whole;
- to maintain and promote standards for Members and professional conduct of Members who work in the surveying and spatial industry;
- to encourage, promote and assist Members to:
 - pursue their professional commitments in an ethical, energetic and scientific manner;
 - maintain a high level of personal and professional esteem when interacting with the community, clients, colleagues and allied professionals;
 - actively participate in the processes that shape society;
 - encourage, assist and to professionally develop new surveying and spatial science graduates
- to enhance the professional character and status of Members who practice in the surveying and spatial sciences as worthy contributors to the community;
- to promote honourable professional conduct and surveying and spatial science practice and to safeguard the interests of the profession of surveying and spatial science generally;
- to encourage the study of surveying and spatial sciences and to improve the general professional and technical knowledge of surveyors and spatial scientists and persons intending to engage in the professions of surveying or spatial science;
- to promote and provide the awarding of prizes, scholarships, exhibitions, bursaries and funds for the purposes of education in all branches of surveying and spatial science and;
- to write, edit, print, publish, issue and circulate a periodic journal or journals, papers circulars and other literary matter as is conducive to the other objects set out in the Constitution to facilitate the exchange of ideas and knowledge between Members of the Institute and the community generally by lectures, conferences and any other means and to maintain libraries and data bases of materials and publications relevant to the spatial sciences.

Our Achievements – 2019/2020

Sustaining Partners and Sponsors.

We are grateful for the ongoing support of our regional and national Sustaining Partners and event sponsors. Our connection to industry through these relationships is pivotal to the success of SSSI.

Fellowships conferred.

A number of our respected SSSI members were conferred Fellow and Honorary Fellow status during the past year.

Honorary Fellowships	Dr Andrew Barnicoat
	Associate Professor Chris Bellman
	Gypsy Bhalla
	Bernard O'Sullivan
	Professor Abbas Rajabifard
	Rob Sarib
Fellowships	Peter Kinne
	Associate Professor Dipak Paudya
	Professor Mark Shortis ¹

South East Asia Survey Congress, Darwin.

Built around the theme of *Communication, Collaboration and Capacity-building*, this event brought ASEAN and Australian surveying practitioners together. In addition, the inaugural Youth Forum provided an opportunity for young professionals both in ASEAN countries and Australia to develop next generation collaboration.

Active and relevant events calendar.

Well over 100 learning and networking events were held for SSSI members and industry professionals all over Australia, creating opportunities for increased connection between professionals as well as gaining valuable continuing professional development. We have delivered to date 24 webinars, with a total of over 2700 participants, including the SSSI/ICSM Upgrades to the AGRS Series, which has had over 1700 viewers.

Asia-Pacific Spatial Excellence Awards (APSEA).

In 2019, APSEA dinners were held all over Australia and New Zealand announcing regional winners. This year, for the first time ever, the Oceanic APSEA ceremony will be held online. APSEALIVE will celebrate finalists and announce the Oceanic 2019 APSEA winners.

SSSI National Bushfire Recovery Map-a-thon.

In response to the devastating bushfires affecting many parts of Australia, the Map-a-thon was held on 9 February 2020. Over 600 national and international surveying and spatial science professionals mapped a total area of 2,793,879 hectares, with 15,731 edits, 13,891 building edits, 1,091 damaged features mapped, and 945 damaged buildings mapped. It is believed the SSSI National Bushfire Recovery Map-a-thon is one of the largest single mapping events ever held in Australasia.

Young Professionals Mentoring Program.

Championed by the SSSI YPs, the Mentoring Program facilitates connections between students and early career professionals with experienced practitioners in the surveying and spatial sciences industry. In its second year, just over 200 mentors and mentees graduated from the program.

¹ Conferred in 2018

Formation of new Special Interest Group – Disaster Management and Recovery.

From the SSSI National Bushfire Recovery Map-a-thon, there was a clear need for SSSI to form a group to coordinate volunteer surveying and spatial science activities when a natural disaster strikes (such as bushfires, floods etc), hence the Disaster Management and Recovery Special Interest Group was formed. The group's mission is to drive collaboration and information sharing in relation to surveying and spatial information citizens science initiatives.

ESP-AP Certification.

The Engineering and Mining Surveying Commission has reviewed and updated the ESP-AP procedures manual and application form. ESP-AP is formal national recognition that a person has the necessary knowledge and experience to competently perform engineering surveys and associated activities. It benefits an employee by providing recognition and career opportunities and an employer by increasing their credibility to customers.

MOU agreements.

Formalising our relationships with key organisations is critical in fostering a stronger collaboration of surveying and spatial professionals in our region and beyond, as well maintaining our sustained relevance and opening opportunities for improved learning and knowledge sharing.

During the past 12 months, MOUs have been signed with:

- Open Geospatial Consortium (OGC)
- Association of Southeast Asian Nations Federation of Land Surveying and Geomatics (ASEAN FLAG)
- Pacific Geospatial and Surveying Council (PGSC)

SSSI Representation.

SSSI was represented by our President at several domestic and International events, including the:

- UNGGIM Plenary meeting in New York during August, where the SSSI-OGC MOU was signed
- Prime Minister's Prize for Science Dinner in Canberra in September
- Australia New Zealand Land Information Council (ANZLIC) planning day in October in Canberra
- United Nations Science Policy Business Forum GeoWeek2019 in November in Canberra
- Roundtable discussion *Peak Professional Bodies strengthening collaboration with overseas Professional Bodies* with the Federal Minister for Foreign Affairs in November in Canberra
- Future of the Profession, an online panel discussion hosted by Survey and Spatial New Zealand in
- February – our President-Elect participated as a panel member

Appointment of Tony Wheeler, Chief Executive Officer.

Appointed in May 2020, Tony has led the spatial industry in various forums in the past and has a track record of delivering successful outcomes for the Industry.

3.0

Our Future

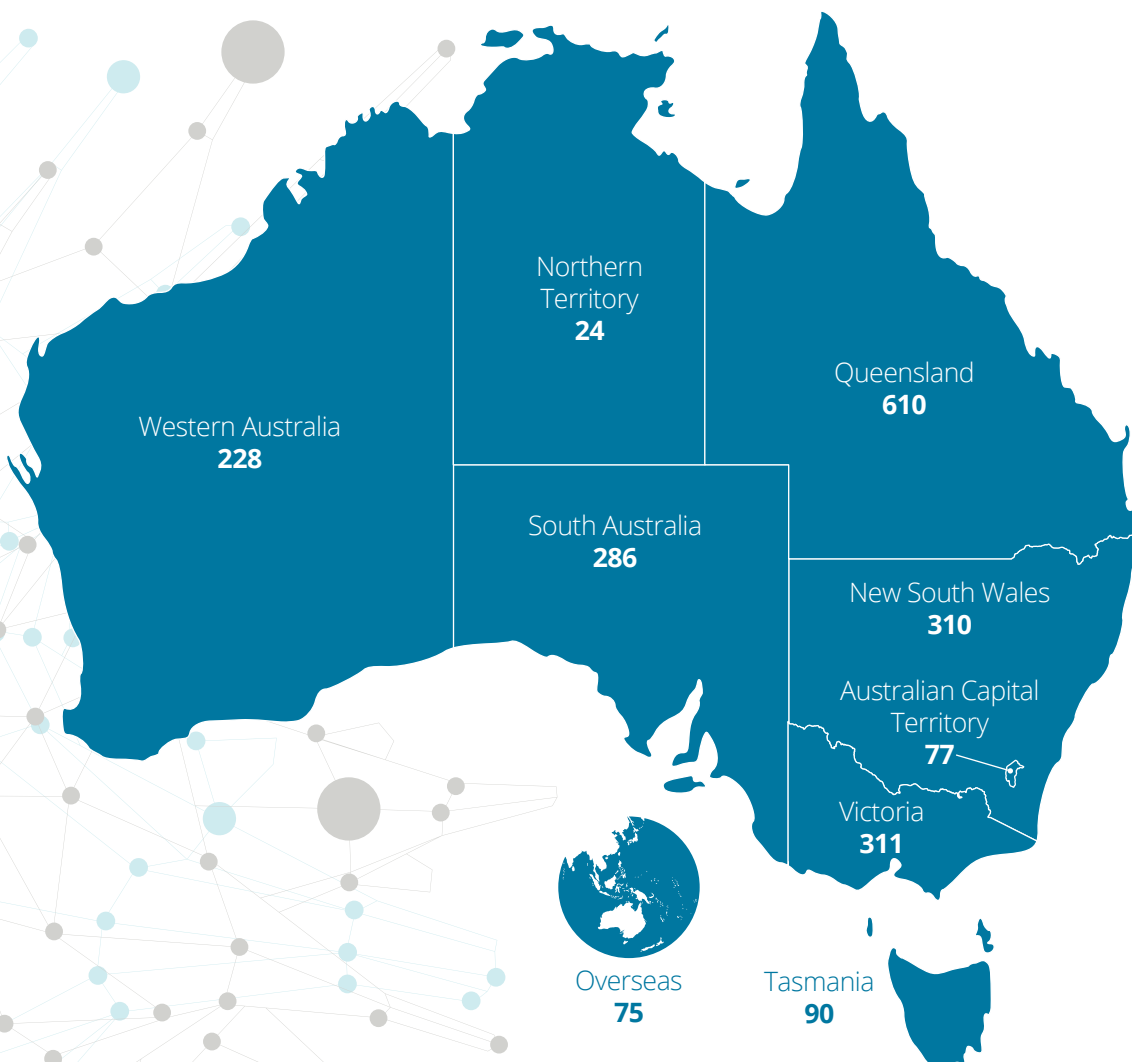
Looking back on our achievements over the last 12 months, SSSI has a lot to be proud of. With strong leadership, a dedicated volunteer base and committed staff, SSSI is looking forward and focussing its energies on a number of new activities and initiatives, plus further strengthening its position as the peak surveying and spatial body in Australia. These achievements have set us on a pathway to a strong future.

Certification.	Certification recognises that a person has demonstrated that he or she has the necessary knowledge and experience to competently work in their area of expertise. Over the next 12 months significant effort is being applied to standardise our certification nationally and ensure consistency across all commissions.
Spatial Digital Twins.	Spatially enabled Digital Twins can be designed to better plan, manage, and maintain resources in urban environments and are driving the need for better access to high quality 3D and 4D (temporal) spatial data to allow for advanced visualisation and analytics. SSSI is keen to be the leader in educating and developing capability within the surveying and spatial profession in this emerging technology. A Spatial Digital Twin Special Interest Group is currently under formation to ensure SSSI is leading the conversation in this area.
Space.	SSSI is a member of the working party for the 2030 Space and Spatial Roadmap and is on the Steering Committee. An opportunity now exists to coordinate the collaboration and develop synergies between the spatial and space industry sectors. SSSI will continue to be actively involved in the development of this important strategy and be part of the space and spatial conversation with great interest and optimism.
Inclusivity and Diversity Network.	SSSI is proud to be part of the Space, Spatial and Surveying Diversity Leadership Network (SSS-DLN) which brings together senior leaders from business, government and education to provide visible advocacy for diversity and inclusion within the profession. Over the next 12 months. SSSI is active on the SSS-DLN Research Steering Committee and is playing a lead role in providing secretariat support. This committee has been formed to communicate to businesses and individuals the importance of diversity and inclusion and to determine the current status of diversity and inclusion in the sector.
Collaboration and fostering strong partnerships.	For SSSI to be an inclusive body that represents the surveying and spatial sectors, we cannot do this in isolation. MoU's are critical in fostering stronger collaboration in our region and beyond, as well maintaining our sustained relevance and opening opportunities for improved learning and knowledge sharing. Over the next 12 months we will be strengthening our international reach.
Governance.	For SSSI to be a progressive and relevant professional body, it is essential that our house is in order. Over the next few months, SSSI will undertake a full constitutional review and ensure it is effectively structured to deliver maximum benefits to members. This will be brought to members to consider in mid 2021.
Strengthening our capacity to deliver learning opportunities and CPD online.	All SSSI members renewing their membership for the 2020/21 financial year and new members joining have been offered access to SSSI organised webinars free of charge. The response has been extremely positive, with over 60 webinars delivered over the past four months. SSSI looks forward to strengthening our capacity to deliver more CPD and online learning opportunities in the future.

Our Members

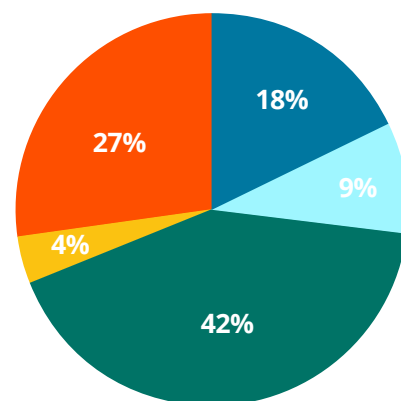
SSSI is proud to represent the surveying and spatial community. We have an extensive membership network across Australia and overseas.

Members by region



Members per Commissions

Engineering & Mining Commission	356
Hydrography Commission	179
Land Surveying Commission	850
Remote Sensing & Photogrammetry Commission	87
Spatial Information & Cartography Commission	539
Total	2011



President's Report

SSSI is a strong, resilient organisation that is adaptable to change. These words have never been so true after the year we have all experienced. It is with great pleasure that I present the President's Report for the 2019/2020 financial year.

It is very satisfying to read our achievements as an Institute, which are listed at the beginning of this Annual Report. Our achievements are testament to our strong member base, dedicated volunteers and energetic staff. On behalf of the SSSI National Board, I thank every member, colleague and friend of SSSI who has contributed to the growth of this organisation. You are all part of our success.

The highlights during the year have been many. But I would first like to acknowledge Tony Wheeler, who was appointed Chief Executive Officer earlier this year. He has brought strength and focus to SSSI and I know under his leadership SSSI will prosper.

As President, I have focussed on extending SSSI's national and international reach. For SSSI to continue to provide value to members and effectively participate in the geospatial sector, we need to affiliate ourselves with other like-minded bodies and work collaboratively. Over the past 12 months, SSSI has signed MoUs with Open Geospatial Consortium (OGC), Association of Southeast Asian Nations Federation of Land Surveying and Geomatics (ASEAN FLAG) and Pacific Geospatial and Surveying Council (PGSC).

We are also progressing MoU's with Australasian Hydrographic Society (AHS), the Association for Geographic Information (AGI) UK, Earth Observation Australia (EOA) and Surveying and Spatial New Zealand (S+SNZ). To SSSI, these MOU's are more than just a signed piece of paper filed away. We are exchanging information, we are sharing knowledge, we are engaged and actively seeking opportunities that will benefit our members and the wider profession.

This past year, we have also gained government recognition. SSSI was invited to participate in a consultative workshop which provided input into the development of the ANZLIC Strategic Plan for 2020-24 and advocate the importance of capacity building for spatial professionals. It has also been an honour to represent SSSI on the steering committee of the 2030 Space and Spatial Industry Roadmap Road Map.

I was humbled earlier this year when our surveying and spatial profession came together in response to the bushfires that affected many parts of Australia. The SSSI National Bushfire Recovery Map-a-thon was held in early February where our profession mapped burnt infrastructure. Over 600 professionals participated from around 25 countries.

This work highlighted the important role of the geospatial community in times of disaster. As a result, the SSSI Disaster Management & Recovery Special Interest Group was formed and is Chaired by SSSI Board Director, Dr Lesley Arnold.



The SSSI Board has also approved the formation of the Spatial Digital Twin Special Interest Group with Wayne Patterson, SSSI Board Director appointed Chair. This SIG will focus on strengthening Jurisdictional conversation on Spatial Digital Twin and identify capacity building opportunities for SSSI Members. Spatial Digital Twin is also one of the key agendas of the ANZLIC Strategic Plan.

SSSI, through our Young Professional network co-ordinated a second and very successful YP Mentoring Program. A great opportunity for mentors and mentees to meet on a regular basis and share knowledge and ideas. The Mentoring Program continues to improve and provide much value to those at any stage of their careers. Thanks to the YP Committee Volunteers for their ongoing support to the institute. I also acknowledge their active support and participation in the Map-a-thon initiative.

This year, SSSI has been committed to delivering quality CPD to our members. Whether it be a large event like the South East Asian Surveying Congress or a bespoke webinar about drones, SSSI is always dedicated to ensuring our events meet members expectations (and of course CPD requirements). I have been impressed by the way our staff and members responded immediately for the need to transfer all our events online. I know many hours have been dedicated behind the scenes to make the delivery of online webinars and eConferences look like a seamless process.

Although this year's Locate has been rescheduled for next year Locate 21, SSSI has been active in participating in the Locate Connect online initiative spread across the year. As a shareholder of Locate, SSSI continuously has been working to support both the management and delivery of Locate Conference Program through its nominated representatives.

As my tenure of President ends, it is with great satisfaction that I look back on SSSI's achievements. Words cannot express my gratitude for the endless hours and energy our volunteers dedicate to SSSI and the profession. I place my heartfelt thanks to all our volunteers. My heartfelt gratitude to SSSI staff who have always provided remarkable services to our members, generosity of their extra time to deliver events and their enduring support to the institute. I would also like to acknowledge my fellow SSSI Board Directors. A remarkable group of people, who are passionate, enthusiastic, and committed to SSSI. It has been an honour sitting at the Board table with you all.

When I became a student member of SSI, eleven years ago, never did it occur to me that I would be President of the Institute one day. Thank you for trusting me as your President to lead this fine Institute. As I hand the baton on to our incoming President, Paul Digney our future looks bright. He will continue our good work and make our members proud.

Dr Zaffar Sadiq Mohamed-Ghouse FRGS FSSSI FIEAust
President
SSSI

Chief Executive Officer's Report

As the 2019/2020 year ended, SSSI's main priority was to improve operational efficiency and management and to enhance our member experiences when engaging with SSSI. We aim to offer an environment of continuous learning, professional development (including CPD events) and provide certification opportunities across all disciplines to maintain and raise the standards nationally. Reflecting on my short time as CEO of SSSI, I am proud to say our team has made great progress in improving our value to members and the overall geospatial community.



SSSI is well known as being the peak body representing the surveying and spatial sectors, we are also an 'inclusive' body. We work with other organisations that provide value to our members and allows them to access interesting and useful information, CPD programs, Certification and skills development opportunities. Collaboration brings many opportunities.

The opportunities for SSSI to closely collaborate with highly regarded international bodies such as FIG, ISPRS, OGC, ASEAN FLAG, AURISA, RICS UK, WGIC, ISDE, S+SNZ allows us to bring best practice knowledge to our members, offering a global network of knowledge that is unique to this industry.

Over the coming 12 months we shall be pursuing partnerships with government, corporations, the research community and academic institutions with the ultimate aim of improving our service offering to members and lifting the overall standard of the professions.

The Space and Spatial 2030 RoadMap is another opportunity we are engaging in through active participation. This type of collaboration enables us to extend our influence with like-minded bodies and assist the profession to exceed their potential.

SSSI is proud to be part of the Space, Spatial and Surveying Diversity Leadership Network (SSS-DLN). This is an industry wide Inclusivity and Diversity Network that aims to create an industry wide culture that thrives on mutual respect, teamwork and diversity of thought in the workplace, a culture that is inclusive for everyone. We look forward to fostering a profession which is diverse and inclusive. SSSI is also active on the SSS-DLN Research Steering Committee and is proud to provide secretariat support.

For SSSI to retain its reputation as a learned organisation, we need to make sure we are moving quickly, so that we can equip our members in the best way possible to be able to harness and exploit the rapidly advancing technologies. These technologies include SBAS, drones, IoT, AI and automation applied to image analysis, along with rapid point cloud processing for terrestrial and airborne LIDAR. Our industry is already applying these technologies to practical solutions such as spatial digital twin databases, smart agriculture, emergency management, along with various major infrastructure, mining and environmental projects. We want SSSI members to be able to develop their skills so that they can apply these technologies with more intelligence and sophistication than was possible yesterday and achieve more meaningful outcomes.

The board of SSSI has recently approved the formation of the Spatial Digital Twin Special Interest Group, led by SSSI Director Wayne Patterson who also leads the team producing the Western Sydney Precinct Spatial Digital Twin that created 3D and 4D digital representation of buildings, strata plans, trees and roads throughout eight local government areas across Western Sydney comprising the Western Parkland City, Greater Parramatta and the Western Peninsula.

I would also like to acknowledge the formation of the Disaster Management & Recovery Special Interest Group led by SSSI Director, Dr Lesley Arnold. Though this group was formed only a month ago, it has had much success with the SSSI Bushfire Recovery Map-a-thon.

As we strive to take a lead role in so many emerging technologies and capabilities, more SSSI Special Interest Groups will emerge in coming months.

Certification of specific skills is an area that is currently under-recognised by employers and under-utilised by members. Certification of the various strands of surveying and spatial sciences to nationally agreed standards that are reviewed annually will not only raise the skill standard of the profession it will have the flow on effect of better outcomes for the organisations engaging those staff who will in turn provide better outcomes for their clients. We are now working towards the creation of national registers for each discipline and standardising our approach to certification across of our all Commissions.

Spatial Sciences is classified as an emerging industry and has enjoyed steady growth over the past two decades. The industry is now growing and diversifying, but it is widely acknowledged that we are facing a skills shortage. The profession has a low profile in the general community. Surveying and Spatial Sciences have so much to offer as a career but attracting school leavers to enter our profession remains challenging despite some recent great initiatives. We will aim to be a more active voice of the surveying and spatial profession to ensure we attract students to these disciplines and influence policy at all levels of government.

I would like to acknowledge Peter Olah, the previous SSSI CEO for his hard work, and Anna Palathinkal who was a dedicated and hard working COO, and of course the fantastic team we have on staff now that work so hard to meet member's requirements.

Over the past few months, SSSI has worked hard to improve its governance framework and strategic direction. We need to be adaptable as we become a stronger organisation which continues to meet our members need. But there is more to be done here and a review of our constitution is underway to ensure we are well placed to adapt to the future.

Finally I would like to acknowledge the outgoing Board for their passion and commitment to SSSI led by retiring President Dr Zaffar Sadiq Mohamed-Ghouse FRGS FSSSI FIEAust who has worked tirelessly to ensure SSSI remains active and relevant to the geospatial community

Tony Wheeler
Chief Executive Officer

Commission Reports

7.1 Engineering & Mining Surveying

The focus for the Engineering & Mining Surveying Commission over the past 12 months has been updating the Engineering Surveying Profession (Australasia Pacific) (ESP-AP) Certification Procedures Manual and Application form. It is now a simpler process for engineering surveying professionals to become certified.

Certification is invaluable to individuals as they move through all stages of their careers. It is a formal recognition that an individual is an expert in their field and keeps up to date with current technologies and the direction of the industry. Certification can also present a competitive edge and provide new opportunities to take individuals further in their career journey.

Certification is also beneficial for employers and businesses, helping them to provide clients with assurance that the work they carry out will be to high industry standards and will cement their position as trusted advisors.

There are three clear pathways for Engineering Surveyors to gain ESP-AP Certification:

Emeritus Provision	Emeritus achievement of ES P-AP is available to those SSSI members and non-members who have retired as an ES P-AP and wish to maintain the recognition of their professional standing in retirement. Emeritus ES P-AP is an honorary recognition and as such does not require an annual CPD return to maintain certification.
Qualification Based Provision	Require AQF/NZQF Level 7 surveying related qualification and a minimum of 4 years of documented work experience. Or (at minimum) AQF/NZQF Level 6 certification and further education (to be gained either from a Non-Survey Diploma/Degree or alternatively through Course Points, Short courses and workshops, and Seminars and Conferences together) along with a minimum of 4 years of documented work experience.
Long Term Practice Provision	This option requires a minimum of an Australian AQF or NZQF Level 6 surveying related qualification or AQF/NZQF Level 5 surveying related qualification (obtained during or before 2015) along with 10 years' documented work experience while also obtaining a minimum of 300 documented points within the Professional Experience component for ESP-AP. Please note - this provision is only available until the 1st of July, 2023.

The next focus is to promote the certification to the profession and employers. Our ultimate aim is to have ESP-AP as a requirement within government specification for all contracts. There is much work to do and it is pleasing to see that certification will be a priority area for SSSI champion over the next 12 months.

On behalf of the EMSC, I would like to thank the ESP-AP Panel for their assistance in ensuring our profession remains certified. Also, thank you to all the members of the EMSC for your commitment and contributions over the past 12 months.

I would also like to acknowledge the members of the EMSC National Committee who have tirelessly worked over the past 12 months in reviewing the ESP-AP Manual and advocating the importance of certification.

Andrew Edwards
Chair, Engineering and Mining Surveying Commission



7.2 Hydrography

As the new Chair of the Hydrography Commission commencing January 2020, I would like to express the Commission's gratitude to Acting Chair Simon Ironside.

The last half of the 19/20 year has been disrupted by the COVID 19 pandemic and this has resulted in the cancellation of all face-to-face meetings and has restricted travel. Members of the Hydrography Commission generally undertake large amounts of domestic and international travel to carry out their work activities, resulting in 2020 being very challenging for many.



Image: hydrographic Surveyors Seminar

I would like to acknowledge the work of members of the Hydrography Commission National Committee (HCNC). We are all volunteers and the HCNC members have undertaken a considerable amount of work on behalf of the Commission, the Institute and the wider hydrographic community in Australia, New Zealand and internationally.

I would also like to thank the Australasian Hydrographic Surveyors Certification Panel (AHSCP) for their hard work this year. The AHSCP is the certification arm of the Commission and one of the SSSI's four specialist certification bodies. It is internationally recognised by the FIG/IHO/ICA International Board for Standards of Competence (IBSC) as a regional certifier of hydrographic surveyor competence and is jointly sponsored by SSSI and Survey+Spatial New Zealand).

The panel has seen a significant increase in the number of applicants for certification, a portion of this increase can be attributed to the introduction of the Hydroscheme Industry Participation Program (HIPP) in addition to greater awareness of the scheme internationally.

HCNC Committee

Despite the disruption of the first half of 2020, the HCNC continued to meet via Zoom and continue working on behalf of members. As the Chair mentioned in last year's report, most of our activities have long timeframe so, when the Commission reports on an outcome, it may be the result of several year's work with many hours of volunteer time expended. The HCNC met four times throughout the year to discuss the ongoing action items and a meeting was also held to discuss what support the HCNC could do to support members during the pandemic.

A summary of the activities and initiatives undertaken this year includes:

- Wollongong TAFE is now offering the Diploma of Hydrographic Surveying on its syllabus. This was the result of negotiation by the HCNC and TAFE; a lot of work undertaken by Richard Cullen to make this happen.
- Ongoing engagement with the Australian Bureau of Statistics (ABS) on the re-definition of 311415 *Hydrographer* in ANZSCO and ANZSIC
- Ongoing review of *Surveying Award MA000066* to introduce and reflect the work environment of the hydrographic surveyor
- The Commission's mentoring programme in conjunction with the SSSI YP National Mentoring Program is close to release.
- The audit sub-committee overseeing CPD compliance, is able to access members CPD records to enable better assessment of CPD requirements.
- The Committee agreed to pro rata CPD points for 19/20 to 10 due to the pandemic, which resulted in many CPD events to be cancelled.
- A virtual World Hydrography Day event was held on June 21 that attracted a good number of participants.
- A Memorandum of Understanding (MOU) was signed between the SSSI HC and the Australasian Hydrographic Society (AHS), allowing greater collaboration between the two organisations.
- The Hydrographic Excellence award was awarded to iXblue for the use of Autonomous technology.
- NZQA Certificate was mapped against the IHO Syllabus to assess suitability as a recognised qualification for certification.
- Work has begun on a list of students interested in potential work experience in the field of hydrography to be posted on the web site. This will be a collaboration between the commission, educational institutions, and industry.

Retiring members during the 2019/2020 Financial Year:

- Mathieu Bestille
- Dylan Colson
- Richard Cullen
- Emily Tidey

Australasian Hydrographic Surveyors Certification Panel (AHSCP)

CDRE Fiona Freeman	(Hydrographer of Australia) Chair, ex-officio
Mr Martin Castalanelli	(Industrial Offshore Surveying)
Commander Nigel Townsend	(Nautical Charting)
Mr Neil Hewit	(Private Practice)
Mr Richard Cullen	(Education)
Mr Barry Smith	(Surveys for Coastal Zone Management)
Mr Jasbir Randhawa	(Secretary), ex-Officio

AHSCP Activities

The Panel met three times during the period to assess applications via tele-conferences; the usual face to face was cancelled due to the pandemic. The meeting schedule was as follows:

- 85th AHSCP Meeting held on 04 October 2019
- 86th AHSCP Meeting held on 12 December 2019
- 87th AHSCP Meeting held on 13 March 2020

The Panel assessed a total of 17 applicants during the year, as follows:

- 10 individuals were assessed for Level 1, of which 2 was awarded certification, 7 applications were deferred with the applicants required to furnish additional information and 1 applicant was unsuccessful.
- 7 individuals were assessed for Level 2, of which 5 were awarded certification and 2 applications were deferred with the applicants required to furnish additional information.

In 2012 the IBSC¹ recognised the AHSCP Certification Scheme as a regional scheme for individual recognition. The recognition is valid for a period of 6 years, and re-recognition is subject to a successful application submitted at the end of this period.

The AHSCP's submission for continued recognition of its certification scheme was considered by the IBSC at its annual meeting in 2019. The Board awarded certificate of recognition (to the AHSCP Certification Scheme) for a further period of 6 years, i.e. up to 2024.

A major revision of the AHSCP Guidelines and supporting documentation was undertaken as part of the IBSC re-recognition process. These were published as version 2.4 dated 29 Feb 2020 and are now in effect. The revised documents fully reflect the adoption of the IHO S-5A and S-5B standards, and contain transition arrangements for those who have commenced logbooks and are seeking certification under the older S-5 11th Edition standards

During the year, Mr. Neil Hewitt presented on the AHSCP Certification Scheme at the following international events:

- KL GeoHydro 2019 Conference, Kuala Lumpur, Malaysia in November 2019
- The IHO South West Pacific Hydrographic Commission (SWPHC) Conference held in Wollongong on 12-14 February 2020.

The AHSCP also signed a Mutual Recognition Agreement (MRA) with the Canadian Hydrographer Certification Program (CHCP), the only other IBSC recognised program. The MRA allows a certified hydrographic surveyor under either scheme to be certified under the other after a small amount of due diligence.

Nominations for two positions on the AHSCP were called in August 2019. A total of 2 nominations were received, i.e. one for each position. Therefore, Barry Smith and Neil Hewitt were elected as the 'Hydrography for Coastal Zone Management' and 'Private Practice' representatives respectively for a term of 2 years.

Sustaining Partners

I would like to express my gratitude to our Commission Sustaining Partners for their invaluable assistance to the Commission again this year: Precision Hydrographic Services, Hydrographic and Cadastral Survey, BlueZone Group, ixblue, Queensland Government Department of Environment and Science, Australian Hydrographic Office, TeledyneCaris and Fugro.

Neil Hewitt
Chair, Hydrography Commission

7.3 Land Surveying

In this year of re-adjustment, the National Land Surveying Commission (NLSC) met every two months and will endeavour to hold a face to face meeting at Locate when possible. We have representatives from all Regions on the National committee.

The NLSC has chosen to concentrate on four key agenda items:

1. National Certification
2. Measures to assist candidates undertaking Professional Training Agreements to obtain their Licensing/Registration more promptly.
3. A national approach to CPD particularly regarding Cadastral matters
4. National harmonisation of standards which relate to Surveying



Advocacy

Several national submissions have been made in the past year including:

- **Infrastructure Australia Audit**
As part of its 2019 Audit, Infrastructure Australia identified several issues, gaps and problems to develop a clear understanding of the challenges and opportunities listed in its Audit. Infrastructure Australia subsequently requested feedback and the National Land Surveying Commission responded with a submission based on the role of surveyors, the importance to address our inherent skill shortages and the impact it could have on the delivery of infrastructure projects.
- **Review of VET Qualifications in Surveying and Spatial Information Services**
As part of a national review of the units of competency in Surveying and Spatial Information Qualifications, an initial report recommended removal of the Advanced Diploma and some Cert 11 and Cert 111 courses. As a result of responses from industry and the TAFE sector, these recommendations were reversed. The retaining of the Advanced Diploma is especially important in WA as an important pathway for mine surveyor authorisation and certification and in Victoria, it is a successful pathway in encouraging students to articulate through to the Degree course.
- **Draft National Registration Framework (NRF) for Building Practitioners**
A submission was made to the Draft National Registration Framework (NRF) for Building Practitioners. Although surveyors are not recognised as Building Practitioners in this framework, we emphasised the important underlying role we have in supporting the building industry activities and collaborating with Building Practitioners. We emphasised our already proven CPD training programs under existing legislation requirements as well as our certification programs and more recognition of these programs for surveyors involved in building industry activities.

- **National Certification**

With the surveying profession partially regulated through state cadastral requirements it has been a little more complex to introduce a land surveying certification scheme.

Certification is a globally recognised system that provides encouragement of long-term professional development to ensure additional core competencies in surveying methods and technologies. The South Australian Government is now requiring specialist certification in land development assessment and a similar concept has been flagged in Victoria. Certification is not an alternative to Licensing/Registration, but will complement it. The Land Surveying Commission will be liaising with CRSBANZ and the respective surveyor boards on this matter.

- **Promotion of the Profession to Students**

With SSSI being a member entity in both organisations, we have been able to combine the marketing material from the Surveying Task Force and Destination Spatial Qld to develop a presentation for schools. We also addressed participants at the Australian Orienteering Championships on the Surveying and Geospatial opportunities for students.

- **Surveying confirmed as Permitted Essential Work**

This year has been one of the most challenging in testing the resilience of our members. Under COVID-19 Restrictions, surveying was recognised as Permitted Work. Even under the Stage 4 Restrictions that were applied in Victoria, surveyors were still able to operate under a COVID-19 Safety Plan. Should there be a relapse into stricter COVID-19 Restrictions at any time, there are many lessons learnt which can be passed on.

- **National Collaborative Forum**

The NLSC has continued to participate in and support the continuation of a National Surveyors Discussion Forum with the other professional surveying bodies, ISNSW, ISV and S&SNZ, recognising SSSI as the National Professional Body. Some of the matters of mutual interest currently under discussion including maintenance of survey infrastructure, rationalisation of common standards between states and looking at a national approach to cadastral matters, align with those already being undertaken by SSSI.

- **International Federation of Surveyors (F.I.G)**

Australia currently has representatives chairing two FIG Commissions. Assoc Professor David Mitchell is Chair of Commission 2 - Professional Education and Daniel Paez is Chair of Commission 7 - Cadastre and Land Management. Rob Sarib also Chairs the FIG Asia/Pacific Capacity Development Network. We also have a number of participants in the working groups in each of the ten FIG Commissions and have started highlighting some of these FIG activities as Position Magazine articles.

Finally, congratulations to NLSC Committee member Michael Nietschke who was a joint winner of the Educational Development Award at the 2019 APSEA Awards.

As we slowly move into economic recovery, the NLSC will continue to maintain an active role in SSSI and the Commission will continue to act as the peak representative body regionally, nationally and internationally for Surveyors.

Lindsay Perry
Chair, Land Surveying Commission

7.4 Remote Sensing and Photogrammetry

This National Remote Sensing & Photogrammetry Commission (NRSPC) is devoted to the development and promotion of remote sensing and photogrammetry professionalism and applications in Australia. The main objectives are:

- To work towards the continued recognition of the RS&P commission for excellence in professional development and representation of the Australian remote sensing and photogrammetry community.
- To provide the remote sensing and photogrammetry community with relevant professional development and representation
- To represent Australia in the International Remote Sensing and Photogrammetry Communities. In particular, to manage relationships with and contributing to *The International Society for Photogrammetry and Remote Sensing (ISPRS)* and the *Asian Association on Remote Sensing (AARS) Activities and Initiatives*

The RS&P Commission is proud to have supported the South East Asian Surveying Conference (SEASC) in Darwin in August 2019. A sub-committee of the SSSI NRSPC reviewed all abstracts submitted in the field of RSP to the SEASC Darwin conference, and handed out two awards during the conference dinner. The categories of the awards were Best Research Abstract and Best Industry Abstract.

The winner of the Best Research Abstract was Muhammad Hifney Haji Abd Rahman Darussalam from Brunei for his submission titled "The potential of using satellite altimetry for sea level study in Brunei Darussalam". The Best Industry Abstract went to Paul Digney from Australia for his abstract titled "The Sydney Harbour Bridge High Precision Terrestrial Laser Scanning Survey and 3D CADD Modelling".

The 40th Asian Conference on Remote Sensing was held in Daejeon from the 14 - 18 October 2019. The theme of the conference was "Progress of Remote Sensing Technology for a Smart Future". The conference was organized by the Korean Society for Remote Sensing and the Asian Association on Remote Sensing. The conference was sponsored by the Korea Aerospace Research Institute. This was the third time that Korea has hosted the conference. Dr Bruce Forster, the Honorary Secretary of the SSSI Commission on Remote Sensing and Photogrammetry, attended the conference and was the Australian delegate to the annual meetings of the Asian Association on Remote Sensing. Australia is the only non-Asian country who is a full member of the AARS. Dr Forster is also on the International Committee of the conference and on the Advisory Committee to the General Secretary, Professor Kohei Cho of Japan.

During this year's national APSEA awards long standing members of RSP Commission were recognised for their ongoing contributions to SSSI and RSP. Dipak Paudyal and Peter Kinne became SSSI Fellows and Chris Bellman was conferred Honorary Fellow.

The Body of Knowledge webpage is online. This webpage is a data repository and collaborative workspace for members and the broader industry providing links to publications, journals, conference proceedings and conference reports by members, online courses, free data, software and libraries.

SSSI is pleased to announce a cooperation with the American Society of Photogrammetry and Remote Sensing (ASPRS) which will bring several benefits for SSSI members. SSSI members were able to attend this year's ASPRS annual conference in June 2020 at the same cost for ASPRS members. Furthermore, SSSI members can attend ASPRS webinars for a reduced rate of only \$15.

The NRSPC is in the process of arranging similar cooperation with the German Society of Photogrammetry and Remote Sensing (DGPF), and offer SSSI webinars to members of the Pacific GIS and Remote Sensing Council (PGRSC) for a reduced rate.

Last November, 100 women from around the globe participated in a journey to Antarctica as part of Homeward Bound, the prestigious global leadership program for women in STEM. The program focuses on strategic capabilities, visibility, communication, science and technology in relation to the sustainable stewardship of our planet. Among the 2019 group heading to Antarctica there were three SSSI members, Raelene Forbes, Charity Mundava and Rebecca Handcock. Charity Mundava as a member of the national RSPC received support from the Commission and has presented on her experiences in a number of webinars.



L-R: Homeward Bound Participants Raelene Forbes, Charity Mundava, Rebecca Handcock.



Homeward Bound 2018 Program. Image by Oli Sansom.

The NRSPS contributed a number of webinars to the SSSI CPD program.

Mapping using drone webinar series

This national webinar series consisted of webinars all related to drone surveying. The first talk was presented by Renee Bartolo who focused on issues to consider when establishing a drone program – learnings from the US Geological Survey.

Health and Spatial webinar series

This national webinar series consisted of webinars all related to using spatial technology to enable digital clinical workflows and support health workers with their decisions.

Webinars included:

Dr Richard Palmer, Curtin University, Cliniface – Unlocking Facial Clues

Prof. Peter Baade, Cancer Council Queensland, Australian Cancer Atlas – a critical piece of the evidence puzzle

Dr Petra Helmholtz, Curtin University, SSSI RSP, Monitoring human burn wounds using Spatial Technologies

Remote sensing for bushfire preparedness and response

This webinar consisted of three speakers; Dr Charity Mundava (WaterNSW, SSSI RSP), Amy Steiger (Cardno) and Associate Professor In-Young Yeo (University of Newcastle).

The story of Antarctica told using Remote Sensing and Earth Observation

With Dr Justine Shaw (University of Queensland), Associate Professor Mary-Anne Lea (University of Tasmania) and Dr Rob Massom (Australian Antarctic Division).

Face-to-face events before COVID-19 included:

- A full session on RSP related topics during the SSSI WA and AIMS Mine Surveying Seminar. RSP-related talks were given by Ross Anderson (Aviassist) on UAV regulations and opportunities, Shane Watson (Land Surveys) on Underground photogrammetry and Jason Birch (Adam Technology) on beyond the black box.
- SSSI WA Seminar on UAV's and other technological considerations which featured Steve Brown (RemSense) who discussed, the future of drone technology, Dr Simon Abbott (Landgate) who discussed Landgate's Land Monitor Project and Dr Stuart Gordon (Aurecon) who discussed UAV Imagery for Engineering Inspections.
- 9th Pacific-Rim Symposium on Image and Video Technology.

In addition, several commission members and RSP professionals contributed to local and national events.

Dipak Paudyal represented RSP as a speaker at the SSSI NSW & ACT Regional Conference and QLD Surveying & Spatial Day and Stuart Phinn presented at the QLD Surveying & Spatial day.

The commission is committed to organising relevant and valuable presentations in the new year and will continue to provide value to members.

The year has been very successful for the Commission - we contributed many CPD opportunities, have been involved in many national and international events representing RSP and Australia. A big thank you to all of the volunteers who helped and supported the commission, and a special thanks to the NRSPC members. And finally thank you to our members for your support during the year.

Petra Helmholz
Chair, Remote Sensing and Photogrammetry



7.5 Spatial Information and Cartography

The Spatial Information and Cartographic Commission (SICC) Committee has had another successful year with a strong focus on providing a professional pathway and community for our members. In September committee elected a new chair in accordance with the SSSI constitution. Kerry Smyth has been stalwart in steering the SICC and I would like to recognise the exceptional hard work and milestones achieved under her chair.

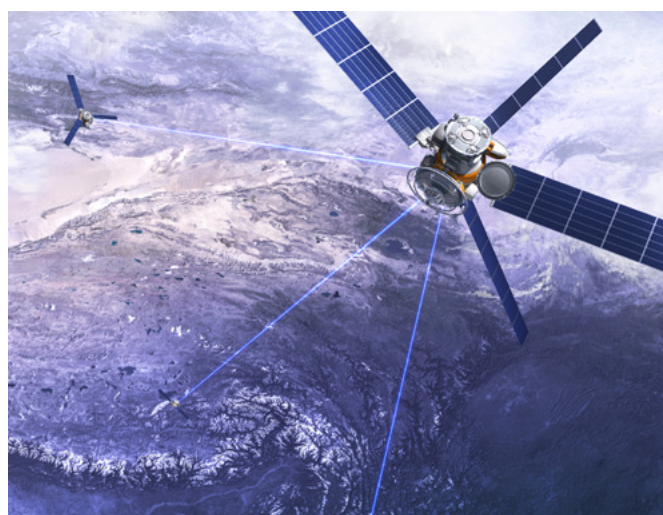
We continue to maintain strong affiliations with URISA (Urban and Regional Information System Association) working towards a MoU for access to training and professional development. Kim McDonagh was scheduled to meet at Locate 2020 in Brisbane, however the international exchange program has been put on hold due to COVID-19 and still remains a focus of the committee.

The onset of COVID-19 in March had a significant effect on the SICC, particularly with the cancellation of Locate 2020. SSSI was able to provide free webinars which provided some online professional growth that previously not all members were accessing.

The GIS-AP Certification process has remained in its current state throughout the year as we continue to look at how the process can be improved to ensure recognition aligns with the expectations of the spatial community and employers.

During 2019-20 SICC has:

- Welcomed 124 new members (over 65% being students)
- Certified 4 new GIS-Aps and renewed 3 existing GIS-APs
- Promoted Spatial Excellent Awards through nominations and judging
- Updated SSSI SICC website
- web map of our members to showcase our members spatially
- Contributed to Geomessage and Position Magazine including member profiles, event reviews and general SICC related matters.



With our members spread across the country, a members map has been created to provide a spatial awareness of our members and is a valuable resource in understanding our member base and will help with future planning of national events. The map is available on the SICC webpage.

Throughout the year, the committee continued to provide updates to the ever-changing spatial environment as it evolved including items such as how the discontinuation of paper map production by the Australian Government has affected map users and profiles of our members aimed at promoting our profession.

I would like to acknowledge the commitment and hard work of the National committee who are passionate about our industry and continue to add value and insight at every opportunity.

The Commission acknowledges and extend thanks to all SSSI-SICC members who continue to engage, support, and participate in a full range of activities, and give us frank and fearless feedback on ways to improve and develop. We welcome and sincerely value your input. We also acknowledge the considerable contribution of national and regional staff in particular our executive Katie Le Miere and Imogen Craig.

Robert Campbell (for Angus Scown)
Deputy Chair, Spatial Information and Cartography Commission

7.6 SSSI National Commission Committee Members

SSSI acknowledges all our members who volunteer their time to participate on our many Commissions. Thank you for your support.

Engineering & Mining Surveying Commission National Committee

Andrew Edwards	Chair - TAS
David Belton	WA
Tony Snow	WA
Andrew Barkham	SA
Noel Davidson	QLD
David Mares	NSW
Paul Digney	TAS

Hydrography Commission National Committee (HCNC)

Neil Hewitt	Chair - SA
Owen Cantrill	CPD Advisor / Vice Chair - QLD
Simon Ironside	(NZ) FIG WG4.3 Chair
Jasbir Randhawa	Treasurer / AHSCP Secretary - NSW
CDRE Fiona Freeman	AHSCP Chair -ex officio
Jennifer Brindle	SA
Nathan Green	TAS
Dave Field	HE Award Sub Committee - NZ
Paul Kennedy	WA
John Maschke	AHS Liaison - NT
Celine Roux	QLD
LCDR Wendy Stewart	ACT
LCDR Ian Jackson	NSW
Andrew Ternes	Communications VIC
Samuel Houston	VIC
Stuart Caie	Chair S+SNZ Hydrography Professional Stream - NZ
Su Ling Meimaris	SSSI Commissions & SIG Manager

National Land Surveying Commission Committee

Lindsay Perry	Chair (VIC)
Mike Stapleton	ACT
Greg Goodman	NSW
John Minehan	NSW
Ian Harper	NSW
Alex Bakunowicz	NT
Dale Atkinson	QLD
Mandy Compton	QLD
Michael Grear	SA
Michael Nietschke	SA
Geoffrey Patterson	VIC
Aaron Gibson	WA

National Remote Sensing and Photogrammetry Commission (NRSPC)

Petra Helmholtz	Chair (WA)
Professor Bruce Foster	NSW
Dr Renee Bartolo	NT
Amanda Walker	NSW
Dr Mary-Ellen Feeney	NSW
Warwick Hehir	NSW
Peter Kinne	QLD
Dipak Paudyal	QLD
Tyson Hillyard	SA
Dr Charity Mundava	NSW
Chris Bellman	VIC
Su-Ling Memenis	Commissions & SIG Manager

National Spatial Information and Cartographic Commission (SICC) Committee

Angus Scown	Chair (QLD)
Robert Campbell	Deputy Chair (NSW)
Hanno Klahn	NSW
Georgina Cassar	SA
Katherine Williams	TAS
David Kelly	VIC
Jonathan Briere	VIC
Nicholas Flett	WA
Kerry Smyth	WA

8.0

Special Interest Groups

8.1 Young Professionals

This financial year, the National Young Professionals (YP) committee decided to consolidate time and energy into a number of key areas that will support its aims and objectives while also assisting SSSI to meet the goals of the strategic roadmap.

These two focus areas are:

1. Supporting student members to transition into paid graduate members
 - a. SSSI National Young Professionals Mentoring Program 2019
 - b. National career development webinar series 2019
 - c. 2020 Career Lift: Tools for Emerging Leaders webinar series (formerly the Young Professionals Symposium at Locate20)
 - d. Forging and strengthening relationships with Tertiary Education Institutions
 - e. Supporting and sustaining regional YP events
 - f. Increase benefits for graduate members that student members don't have access to
2. Communication and marketing
 - a. SSSI YP newsletters and GeoMessage improvements
 - b. SSSI YP on the SSSI website - easier to access and more information
 - c. Position Magazine submission
 - d. Engaging with tertiary educational institutions

The key values that we aim to embody are:

Inspiration | Empowerment | Renewal | Continuous improvement | Mentoring.

In the face of COVID-19, a number of these initiatives needed to pivot and evolve, with events being put on hold or going online. Despite the disruption, almost all these initiatives were able to be carried out reasonably effectively.

SSSI Mentoring Program 2019

Of special mention is the SSSI Mentoring Program 2019, which involved 234 mentors and mentees from Australia and a few from overseas. It was held as a structured four-month program that ran from July to October 2019, offering participants a mutual two-way discussion about their career development and the leadership skills and soft skills that will boost their journeys to higher realms of success.

The following provides a summary of some feedback received about the program

What have you enjoyed most about the 2019 Mentoring Program as a mentee?

"Gaining feedback, knowledge and information from my mentor. He shared with me many interesting stories and valuable life skills, not only in geospatial but also in the workplace."

"Relevant knowledge in my field of interest from my mentor. Project management skills, networking, how to grow in my profession and career... It has been an interesting journey so far."

"The whole program has been very insightful."

"Learning from someone with 30 years' experience."

What has been the most surprising insight you have had from working with your Mentee?

"That maybe I had more to share with a person not in my technical field that I would have thought"

"During the program, I gained small snippets of insight into the challenges facing women in Pakistan to complete education"

"That everyone has the same concerns about relating to others and wanting to do the best for the company they work for"

"Individual journey is different but the solution can be similar"

What value do you think YPs bring to the industry?

"Fresh ideas, insights and new ways of working"

"Sustainability and succession"

"An energy, new learnings and to create a new emotional intelligent work style"

"They are the future"

SSSI Young Professionals White Papers – Locate19 and SEASC2019

SSSI Young Professionals were excited to announce the launch of two White Papers that explore the nature of the challenges that young professionals face in the Australian geospatial industry, and the unique opportunities that they bring to transform the industry as we head towards a bright future.

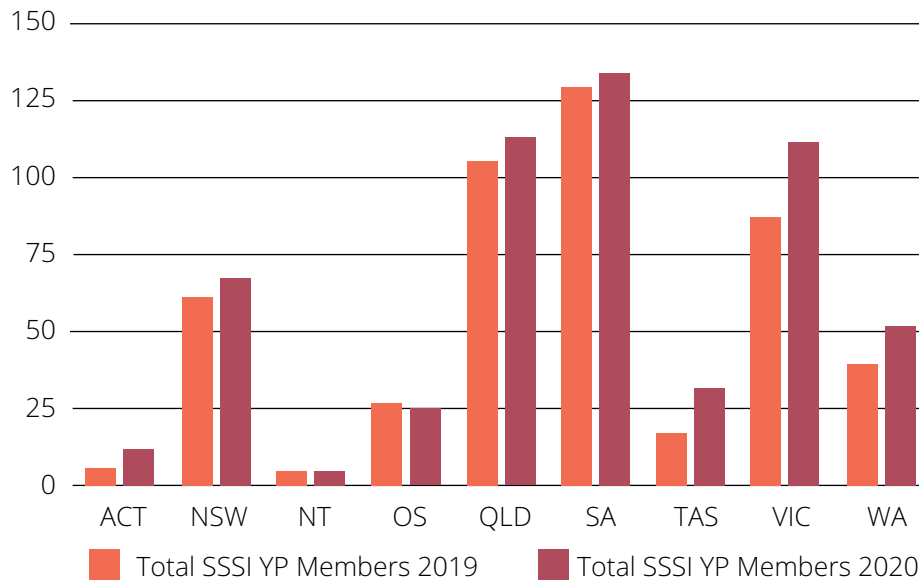
In April 2019 at Locate19, the inaugural Young Professionals Symposium was held, providing a forum to explore these questions and give young professionals, and young-at-heart professionals, a voice about these matters. The key findings from the SEASC2019 Young Professionals Day were:

1. Our YPs are the future of our industry, but also the now - young at heart professionals need to start succession planning with the YPs in mind to help continue their legacies, and most importantly need to start giving YPS opportunities to develop their skills and experience with this in mind.
2. The culture of surveying urgently needs to adapt to embrace change, or another industry will fill the niche that rapid technological advances and AI creates - we will be left behind. Career pathway visibility and embracing soft skills is vital and urgent at all levels of the workforce.
3. Career pathway visibility is an immense gap that we can relatively easily address. It is needed to get more people to stay in our industry, not only to get more people into our industry, both urgent matters globally.
4. YPs are urgently seeking leadership over management, and demographically have different needs. As an industry, businesses need to adapt to embrace this - flexible work, diversity and inclusion, career pathway visibility, mentoring and coaching, etc.

To find out more, take a look at the Locate19 Young Professionals White Paper and the SEASC2019 Young Professionals White Paper, both available on the 'Young Professionals Special Interest Group' section of the SSSI website.

Membership

The SSSI Young Professionals have experienced a 52.63% increase in membership between 30 June 2019 and 30 June 2020. This growth is present across all states and territories across Australia, barring NT where numbers have remained stable.



The SSSI National Young Professionals Leadership Team carrying forward the initiatives and actions behind this increase are:

Name	Region
Roshni Sharma	NSW (Chair)
Michael Topp	QLD
Sam Fulton	SA
Nelson Kuna	TAS
Jason Heritage	VIC
Donny Darmawan	NSW
Madhavi Shankarling	NSW
Dan Reimers	NT

Roshni Sharma
Chair, Young Professionals



8.2 Disaster Management & Recovery

The Disaster Management and Recovery Special Interest Group has been established to contribute surveying and spatial expertise, within a coordinated volunteer framework, to support preparedness, response and recovery efforts, nationally.

The catastrophic bushfires which caused devastation to many parts of Australia earlier this year affected all Australians. Those in the surveying and spatial profession were keen to provide assistance in some way. This resulted in the co-ordination of the SSSI National Bushfire Recovery Map-a-thon, where over 600 surveying and spatial professionals worked together to map burnt infrastructures in seven different project areas affected by bushfires.

From this mapathon, there was a clear need for SSSI to form a Special Interest Group to coordinate volunteer surveying and spatial science activities when a natural disaster strikes (such as bushfires, floods etc), hence the Disaster Management and Recovery Special Interest Group (DMR-SIG) was formed. It is a great honour to be appointed as the inaugural Chair.

The DMR-SIG will provide strategic direction and endorse SSSI volunteer activities that relate to collecting, validating, verifying and sharing surveying and spatial information required for disaster preparedness and recovery efforts. The SIG-DMR mission is to drive collaboration and information sharing in relation to surveying and spatial information citizens science initiatives. It will:

- Build a well-coordinated national network of surveying and spatial professional volunteers (organisations and individuals) able to respond to immediate disaster recovery needs.
- Provide leadership and coordination for volunteer surveying and spatial information activities.
- Develop a strategy and establish a framework that will stimulate and coordinate volunteer surveying and mapping disaster recovery efforts in the event of future disasters.
- Adopt policies and standards for volunteer data collection that are interoperable with the needs of government and academia.
- Consult with government and academia to determine data needs and priorities on all collaborative projects. The DMR-SIG comprises representatives from SSSI, state and commonwealth government, NGO's, open source community, academia and businesses. SSSI is appreciative of the participation and support that these organisations and the wider profession have provided in establishing this important group.

One of the key actions of the DMR-SIG, is to develop the volunteer framework that will be used to co-ordinate volunteer surveying and spatial efforts for disaster preparedness, response and recovery. This framework will be established in consultation with the DMR-SIG members and other key stakeholder groups. Partnerships with likeminded organisations will be a key success factor.

As work on the framework progresses, the DMR-SIG has organised and held the **SSSI National Bushfire Recovery Map-a-thon** which was held on Sunday, 9th February, 2020. The Map-a-thon was a way for the national and international community to join forces - achieving a total of 2,793,879 hectares of burnt area mapped. Over 600 individuals and teams registered to participate in the Map-a-thon from all over the world (representing over 25 countries). This is considered one of the largest single event map-a-thon held in the Australasian Region.

This significant achievement is due to the huge effort by surveying and spatial sciences volunteers globally, who participated on the day, and also because of the behind the scene efforts from the DMR-committee, SSSI YPs and other dedicated people. Importantly, the day would not have been possible without the financial and in-kind support of all our sponsors.

The DMR-SIG committee will be running future mapathon events – where we will be focussing on disaster preparedness mapping in readiness for the next bushfire season.

Dr Lesley Arnold
Chair, Disaster Management and Recovery Special Interest Group

Region Reports

9.1 Australian Capital Territory

Over the past year the ACT Committee has built on the previous year's engagement with the regional Land Surveying community and delivered a range of events appropriate to surveyors in the ACT region, from BOSSI candidate through to experienced surveyors looking to broaden their knowledge base.

Our events program was impacted by the COVID-19 pandemic with the cancellation of two events: a CPD seminar and a social event that was to mark Global Surveyors day. We focused our attention on virtual events and meetings with the local committee meeting via online video conference during lock down and for the delivery of three CPD seminars. Although hesitant at first, the inclusion of virtual meetings has become a valuable option for the ACT region to come together for committee meetings and learning events. Local members have appreciated the convenience and equity of access aspects the medium offers.

Events

A highlight of the CPD calendar was our February CPD event focusing on Rural Surveys which was delivered in collaboration with ISNSW. Thank you Leigh Finlay and Tom Casey of ISNSW for their enthusiastic support of the event – it was a great example of two organisations working together in a constructive manner for the benefit of their members.

The following events were held during the financial year:

- July 2019 - Land Surveying Commission Twilight Event
- October 2019 - Land Surveying Commission Twilight Event
- February 2020 – ACT & ISNSW Rural Cadastral Seminar
- May 2020 – New Surveyor Practice Directions and related guidelines for the ACT webinar and a recent cadastral survey and OSGLI update webinar
- June 2020 – Secrets of the Plan webinar

I would like to thank the ACT Regional committee for their continued efforts in organising CPD events. Greg Ledwidge, Joanne Hawkes and Jason Steger deserve particular acknowledgment.

In collaboration with the ACT Office of the Surveyor General we have been working with Canberra Institute of Technology (CIT) to ensure there are pathways available for people to enter into Surveying and Spatial Sciences. I'd like to recognise Greg Ledwidge for his continuing contributions to this agenda.

I would also like to thank our local Sustaining Partners, the ACT Emergency Services Agency and the Office of the Surveyor General for their continued support of the SSSI ACT Region.

The future

Although the past year the focus was on members of the Surveying Commission, next year the aim is to engage more with the regional SI&C membership and the broader geospatial community in our region. Watch this space!

Noel Ward
Chair, SSSI ACT



9.2 New South Wales

NSW, like all other SSSI regions has had a very big year. Highlights have been the success of our regional conference, a very active webinar program and the renewal of our SSSI representation on the NSW Government Board of Surveying and Spatial Information (BOSSI). Challenges have included the 2019-2020 bushfire season, the South Coast Flooding in 2020 and the impacts of managing the Coronavirus in our region.

While NSW has been able to actively manage the impacts of the pandemic it caused several casualties for our membership: firstly the cancellation of a spatial innovation seminar scheduled for 20 May in Newcastle as part of SSSI's first ever participation in the Hunter Innovation Festival; secondly the resignation of three Regional Committee Members due to regional redeployment, organisational and personal issues. Through this period we also said farewell to our Regional Operations Manager, Megan Lavender, and the ever-supportive Liz Fulton stepped back from her role as Co-Chair of NSW SSSI – deep thanks both for your support in these roles!

Events and Initiatives

So, with every challenge new and exciting opportunities present. In 2019 SSSI NSW prioritised its planning and coordination of a webinar program to reach the broader geographies and availabilities of our membership. Little did we know how perfect the timing of these plans would be with the onset of a pandemic early in 2020. As such we were very proud to have been ready to deliver a program of webinars (many still available as eCPD on the SSSI website) that covered:

- Spatial Ecology & Climate Change – Dr Marji Puotinen, Australian Institute of Marine Science.
- Environmental Applications of Spatial Technologies – SSSI & Hunter Environment Institute collaboration – Dr IN-Young Yeo (University of Newcastle), Amy Steiger (Cardno), Dr Charity Mundava (Water NSW).
- Drone developments to watch in the new decade webinar – Tom Pils, The Drone Lawyer.
- Audits, Amendments & Boundary Disputes – David Job, Office of Registrar General.
- Survey CPD and Ethics – BOSSI Update – Dr Lloyd Pilgrim & Chris Moy (BOSSI Board members).
- 3D Utility Mapping – CR Kennedy's Brad Keane & Philip Mill.
- The Story of Antarctica using Earth Observation – Hosted by Mary-Ellen Feeney (NSW SSSI Chair) & Charity Mundava (RS&P Committee) – Dr Justine Shaw (University of Queensland), Dr Mary Anne Lea (University of Tasmania), Dr Rob Massom (Australian Antarctic Division).
- Collaborative leadership in a rapidly changing world Webinar with NSW members Raelene Forbes & Charity Mundava & Roshni Sharma.

NSW ACT Conference 2019 had the theme of Blurring the Digital Boundaries and was held at Goulburn, NSW. It commenced Wednesday 25 September with a Women In Spatial networking event with speaker Dr Aparna Lai who shared a series of stories about being a female leader in STEM in Medical Health Research, the juggles of career and family, the experience of Science as a career as a non-Caucasian Australian and the intersectionality of gender, ethnicity, professions, family and community. Dr Daniel Paez was one of the opening keynote speakers who gave an update on the role of surveying and the International Federation of Surveyors (FIG). We also had a wonderful welcome to the Goulburn region receiving a Surveyors Perspective and Contribution on the City's History & Development from Justin Kell. The following two days had parallel Surveying and Geospatial Sessions as well as a fabulous dinner and Awards night for the Asia Pacific Excellence Awards.

NSW SSSI Celebrated World GIS Day with Don Murray at a breakfast event (hosted by 1Spatial & SSSI) on his first ever visit to Australia to speak on data integration and future directions for FME. As the Founder of SAFE Software this was a fantastic event to share with members and the broader industry.



Engagement

SMIC - Survey and Mapping Industry Council of NSW

SSSI NSW and SMIC have had an ongoing relationship that was fostered back in SMIC's inception in 1987 and SSSI NSW continues to renew its membership in SMIC. The membership enables SSSI to add value to our networks by providing guidance and resources to our members to as well as to contribute to SMIC by way of guidance in the growth and development of the surveying and geospatial industry from a professional perspective. Find out more www.smicnsw.org.au or contact Robert Campbell (NSW SSSI Rep.) .

BOSSI - NSW Government Board of Surveying and Spatial Information

For the last four years Liz Fulton (recent Co-Chair SSSI NSW) and Mary-Ellen Feeney (current Chair NSW SSSI) have been members of BOSSI representing SSSI and SIBA|GITA respectively, but giving SSSI a unique insight into changes in regulation, capacity building in the industry for Registered Surveyors and survey directions. Liz and Mary-Ellen took turns as Chair and Deputy-Chair of the Spatial information Committee 2017-2020, Mary-Ellen sat on the Finance Committee 2018-2020 and the Land Boundary Definition Committee 2018-2019, also supporting the Discipline Committee 2019-2020, while Liz sat on the Training Committee 2018-2020. During their tenure Mary-Ellen and Liz took part in a governance review, an audit of assessments, delivered and coordinated spatial and technology presentations to the Board, regularly delivered training to Survey candidates at Kurri Kurri, as well as presentations to Survey Seminars and Conferences. We thank them for their time on the Board and are pleased to confirm SSSI was successful in securing another two representatives in Roshni Sharma (Deputy-Chair NSW SSSI) and Venessa O'Connell (NSW Port Authority) whose roles on BOSSI commenced at the end of June 2020. Roshni and Venessa have both joined the Spatial Information Committee and Roshni has taken a role on the CPD Committee.

Institution of Surveyors NSW

SSSI NSW has been supporting the Hunter Manning Group September Seminar for a number of years and did so again in 2019 with Mary-Ellen Feeney (Chair NSW) delivering a presentation on Surveying and Spatial in the consulting sector and her participation in Homeward Bound 2018-2019. While a few other ISNSW collaborations were planned for 2020 many of these were paused due to the pandemic but will resume 2021.

Orienteering Australia

Special thanks to Raelene Forbes who attended the Presentation Dinner for the 2019 Australian Schools' Orienteering Championships in Wagga Wagga. SSSI is pleased to continue our support for the Championships and help promote surveying and spatial concepts to the next generation.

Homeward Bound - STEMM

Over the last three years SSSI NSW has had a distinguished list of participants in the Homeward Bound Global Women in STEMM Leadership Program. The program is a ten-year program aimed to build a global network of 1000 women in STEMM (Science, Technology, Engineering, Mathematics, Medicine) and capacity build the skills women need as leaders. The program develops skills in strategy, visibility, communications, presentation, collaboration and group work, while facilitating key research projects both within and across cohorts. Currently five SSSI members have won scholarships for the highly competitive Homeward Bound Program. Mary-Ellen Feeney (SSSI NSW Chair) participated in 2018 spending January 2019 in Antarctica and delivering over 45 presentations to the community, schools and SSSI events, raising the profile of our profession and SSSI. In 2019 we saw NSW SSSI members Raelene Forbes (Snowy Hydro) and Charity Mundava (Water NSW) participate alongside WA SSSI member Rebecca Handcock (Curtin University) and share their experiences with SSSI Audiences through a number of webinars, as well as supporting contributions to a #TeamHB4 StoryMap and web application about their journey to Antarctica in November 2019. Roshni Sharma (Deputy-Chair NSW SSSI) has been chosen for the 5th cohort and the 2020 leadership program. While Roshni's journey to Antarctica has been delayed due to the pandemic, Roshni has made extraordinary contributions to the program and our engagement in the STEMM community through development of a podcast series called the Discomfort Zone as well as participation in an HB UN-Conference. We wish Roshni the best of luck for 2021!

Tertiary Sector

SSSI NSW has commenced a program of proactive engagement in the Education Sector. We have set up a twice-yearly meeting of representatives from NSW Universities and TAFE to plan activities and exchange of knowledge about interfaces for the academic and research sectors with industry and the professions. We have invited student representation in our conferences and events, contributions to our monthly Geomessage Newsletters as well as encouraged nominations for the regional Asia Pacific Spatial Excellence Awards. SSSI NSW has been involved in the planning of the Climate Change and Disaster Management Conference to be held at the University of NSW late 2020 and was proud to participate in the 2019 Launch and Graduation Ceremonies of the SSSI Mentor program in NSW at University of NSW and Macquarie University respectively.

The future

SSSI NSW & WA regions are holding a joint annual 2020 regional conference as an Online Seminar on Monday 30 November 2020. The theme is geospatial data and applications for climate change and disaster management (CCDM). The event is being held as part of a broader five day conference series on *Climate Change and Disaster Management: Technology and Resilience in a Troubled World* (30 November - 4 December 2020) as part of the ISPRS Geospatial Information for Disaster Management (Gi4DM) Annual Conference and the biannual Urban Resilience Asia Pacific (URAP) Conference. Join for other days such as Tutorial Tuesday or see academic research on related subjects Wednesday through Friday.

NSW Regional Asia Pacific Excellence Awards (APSEAs) are planned for Thursday 4 February as an online event. We plan to highlight brief descriptions of each of the nominees in a category, running a people's choice poll for the event, and then announcing winners. We are looking for a celebrity/guest speaker to do a bit of an introduction and give the event a fun and engaging atmosphere despite being online. We are thrilled to have 17 applications for awards and see the digital engagement of the celebration as a plus given the spread of our stakeholders and members across the state.

March is the month we celebrate Global Surveying Day so we plan to make it a surveying-themed month with an International Women's Day event planned for 4 March with an emphasis on *Women in Surveying* and Surveying Seminars both mid-March and mid-June to support cadastral and survey-practice professional development.

The NSW CPD Committee has been working to establish a network of CPD reviewers for not only SSSI but also BOSSI CPD points. As one of BOSSI's Ratified organisations for CPD point allocation SSSI will be reviewing our CPD processes and implementing them in consultation with BOSSI for the 2020-2021 CPD assessment year. We look forward to reporting on the progress in this space for the next annual report.

Mary-Ellen Feeney
Chair, SSSI NSW

9.3 Queensland

SSSI Queensland was proud to once again have achieved a high retention of our existing members and increased our membership through re-admissions and new members throughout the 2019-20 year. We are very grateful for the support of all of our members, Committees, Sustaining Partners, event convenors and sponsors and the many others that contribute to SSSI Queensland's ongoing success.

Events

The recent fiscal year saw continued delivery of workshops, meetings and events.

Some Queensland members attended and participated in the successful SEASC conference held in Darwin in August 2019. In October we held our Brisbane conference, the Queensland Surveying and Spatial Day, at the Brisbane Convention & Exhibition Centre where over 110 surveying and spatial professionals came together to learn, network and see technology displays from our valued sponsors.

We also held the two-day SSSI Central Group conference in Gladstone in late October and was well attended. The Northern Group Conference was held in Cairns on 21 - 22 November and was also well attended. A wonderful dinner was held at the Cairns Aquarium.

The 2019 events year was concluded with an end of year celebration at the Regatta Hotel in Brisbane which included the graduation of those participating in the 2019 YP Mentoring Program.

The second half of the financial year was a very different story with the rising concern of COVID-19. As the current Convenor for the Locate Conference, I was busy with the Locate Team making final preparations for the then upcoming Locate20 Conference in Brisbane and we had completed a successful cadastral seminar in Brisbane before the situation changed dramatically. National restrictions on travel and business operations caused the association to re-evaluate its operations.

The initial concerns in March were not only how businesses would survive but also how SSSI could provide value to our members and continue to deliver events and CPD which could no longer be achieved face to face.

The Queensland region has always been a leader in providing digitally delivered content, however the need was even greater following public restrictions. As a result, a successful five-part webinar series highlighting some of the most popular presentations from the 2019 Queensland conferences was organised.



Queensland Surveying and Spatial Day

Queensland Land Surveying Commission (QLSC) Sub-Committee

Our results are largely achieved through the work of volunteers, and to facilitate these efforts the SSSI QLSC meets monthly to discuss matters of importance to the Queensland cadastral surveying profession.

In our activity in the 19-20 year, we actively implemented the following initiatives:

- Held dedicated face to face seminars and facilitated collective feedback to Department of Natural Resources, Mines and Energy (DNRME) to facilitate enhancements of the Cadastral Surveying Requirements review currently being undertaken by DNRME.
- Furthered the protection of survey marks initiatives to include recognition by Local Government Association of Queensland (LGAQ) in advising all local government members of the importance of this initiative.
- Planned a dedicated webinar series for late 2020 to support post graduate training of surveyors in the areas of Global Navigation Satellite System (GNSS) for surveyors, reinstating and marking boundaries, searching documentary evidence, law relating to Cadastral surveying, preparing and managing basic development applications, geodetic reference system applications and calculating volumes and quantities.

In addition to these dedicated activities, our committee volunteers have also actively participated in wider industry collaboration with the DNRME Surveying Focus Group, Destination Spatial and 3D QLD taskforce.

The future

Sadly, Locate20 event was postponed along with any face to face events in 2020. However, the Queensland region is looking forward to the new version of Locate. Locate21 will see the introduction of a hybrid model - a combination of virtual events with live in person gatherings at various locations including the central Brisbane live site. I would like to encourage all our Queensland members to join us in attending this COVID-safe event. We have all missed out on the usual networking opportunities and Locate21 will be the first major face to face event in 12 months please join us.

SSSI Queensland will continue to place our focus on providing support, advocacy, representation for our members and the provision of topical, accessible continuing professional development opportunities to Queensland based surveying and spatial professionals.

Paul Reed
Chair SSSI QLD

9.4 South Australia

What a difference twelve months makes! I am reasonably sure no one predicted the world we now find ourselves navigating.

Firstly I must offer my sincere thanks and recognition to the members of the SSSI SA Regional Committee, Land Surveying Commission Committee, Young Professionals Committee, and those who volunteer to represent South Australia across the various SSSI national commission committees; their collective dedication and volunteering of their time and expertise enables the SSSI to provide our regional members with the broad spectrum of valuable events to attend, while addressing and supporting key issues affecting our industry at both state and national levels.



Adam Seedsman of the Australian Space Agency delivering his keynote address at SID2019

Photo © 2019 Sandra Paterson

We must also acknowledge our regional South Australian sustaining partners: Alexander & Symonds Pty Ltd, Ultimate Positioning Group Pty Ltd, The University of Adelaide, Flinders University, University of South Australia and Tafe SA. Their continued support is so valuable and greatly appreciated; thank you!

Events

Looking back, the SSSI in South Australia had a very successful 2nd half to 2019, with the highlight as ever being Spatial Information Day (SID) 2019.

SID 2019 was enjoyed by over 400 delegates from across Australia, again showcasing the very best of the surveying and spatial sciences industry across a full day's program of keynotes, presentations and workshops before heading into an evening celebration of our industry with the annual Asian-Pacific Spatial Excellence Awards (APSEA) gala dinner.

Keynotes included Adam Seedsman presenting on the Australian Space Agency (pictured), Mary-Ellen Feeney of Jacobs sharing her experiences working in Antarctica in her keynote '*Homeward Bound*', and Seth Thuraisingham of Consilium Technology presenting on '*From Roads to Rows – Finding Australia's Vineyards*'.

The SSSI South Australia is grateful for the support of the SID sponsors, exhibitors and presenters in helping make the event the annual success that it is; alongside our gratitude to the SID committee for their passion and generosity in delivering a world class event for South Australia.

Outside of SID 2019, the now annual 'GIS in Local Government Seminar' continued to go from strength to strength; with over 60 delegates attending for the third year in a row. The feedback for this event was fantastic and planning is underway for next year's event (proposed for late summer). Keep an eye out for future details.

The South Australian Young Professionals also hosted many events throughout the year, including the Speed Networking event that is quickly becoming the highlight of the YP calendar. This year again saw a wide selection of industry leaders volunteering to discuss and impart their wisdom and advice to the next generation of professionals.

Future

Moving into 2020, and clearly the environment we now find ourselves is very different.

The South Australian SSSI regional, Young Professional and SSSI commission committees have continued to meet through online platforms; with many important industry initiatives being supported and driven forward.

Unfortunately, SID 2020 and the majority of our 2020 program became a victim of the restrictions that events now have to consider, however the SSSI as a collective have worked tirelessly to offer a varied, extensive and free program of webinars for our members to help keep everyone engaged with our community and industry during these challenging times.

Looking forward, the various SSSI-SA committees and volunteers will continue to focus on delivering great opportunities to our regional members, as well as a strong, unified voice for our industry in South Australia.

We are already starting to organize the return to face-to-face events and have an exciting line-up planned for 2021.

I would like to repeat my thank-you to the various South Australian SSSI committee members. I would like to individually thank Imogen Craig for all her commitment and passion during her time as the SA ROM and wish her luck in her new endeavours. I would also like to thank Sam Fulton for his contribution during his time as chair of the Young Professionals, you have left the South Australian YPs in a strong position and I look forward to their continued excellence under their new leadership.

Finally, I take this opportunity to thank our regional sustaining partners one last time: Alexander & Symonds Pty Ltd, Ultimate Positioning Group Pty Ltd, The University of Adelaide, Flinders University, University of South Australia and Tafe SA

Take care and see you at an event in the not too distant future.

Graham Walker
Chair, SSSI SA

9.5 Tasmania

The 2019-2020 year has been both triumphant and challenging in many ways for the Tasmanian Region.

I would like to thank all of our hard-working committee for their commitment and continued efforts throughout the year presenting outstanding events and activities and the ability to adapt and overcome the unprecedented difficulties of 2020 and continue to provide value and benefit to our growing local membership. I would also like to recognise the contribution and efforts of committee member, Briallen Hall as Tasmania's Young Professional representative. Briallen recently took on the new role of motherhood.

The Tasmanian Regional Committee whilst small, works hard to provide strong representation of our members. The Tasmanian Regional Committee represents around 92 members, an increase of 15% in membership from 2018-2019. We maintain contact with over 170 additional individuals.

Events

Two major events are normally organised in Tasmania each year: The State of GIS and the Tasmanian Surveying and Spatial Conference.

The Tasmania Surveying and Spatial Conference is the State's major industry event and regularly attracts speakers and delegates from across Tasmania and interstate. This year's event in Hobart was no different with an outstanding list of speakers providing excellent presentations on the current and future direction of our profession.

The event culminated in the Tasmania Asia-Pacific Spatial Excellence Awards dinner, capping off what is always an outstanding event. This year's APSEA recognised outstanding individuals and projects from Tasmania, with congratulations to our industry award winners – Hydro Tasmania and Esk Mapping & GIS and three outstanding individuals, Scott Strong for Professional of the Year, Grace Uziallo for Young Professional of the Year, and Shirisa Timilsina for Post-Graduate Student of the Year.



Tasmania State Surveying and Spatial Conference Hobart September 2019



Scott Strong Tasmanian Professional of the Year

Due to Covid-19 restrictions the State of GIS was delayed until early July 2020

The regional committee organised and delivered several smaller events, which included:

- Spatial Soapbox
- SSSI Tasmania Cadastral/ GNSS Seminar
- TasWater Webinar
- Review of Strata Titles Act 1998 Webinar

For a small region, we receive strong support from our industry and professional partners. I would like to take this opportunity to recognise our sustaining partners for the 19-20 FY, Ultimate Positioning Group (Silver), Land Tasmania (Silver), City of Hobart (Silver) and Veris

Future

The Tasmanian regional committee is a small, dedicated group of professionals who commit a significant amount of their own time to the benefit of our members and the profession at large. The committee is doing an amazing effort, including organising major events as well as promoting the profession through education initiatives, advocating for members, and collaborating with other organisations.

It is fantastic that new members are joining the committee for the new year, replacing those members who have committed their time over a long period. However, to continue the great work, the committee will need a further injection of new members to support the current group. In particular, we need more diversity and younger professional representation. Whilst we have on several occasions reached out to the membership calling for support, we continue to struggle to get greater engagement from the profession.

The positive is that we are not yet prepared to give up and have faith in the work we are doing. This is demonstrated by the growth of the Tasmanian SSSI region membership, with an increase of 15% from the previous year we take confidence that our ongoing efforts delivering real value will continue to resonate and will result in continued membership growth and bring new people ideas and enthusiasm to what is already a great committee.

Looking ahead, the world we live and work in has clearly changed and the SSSI will need to adapt and consider how we ensure that we continue to deliver outstanding events and value to our members.

We also look forward to working more closely with our Sustaining Partners to continue to deliver valued events and activities and collectively raise the awareness and importance of the profession.

On a national front, the new year also provides great opportunities, with the Brisbane Locate21 coming up in April and the continuation of the very successful YP mentoring program.

In conclusion as this will be my last year as Tasmania Chair, and I start to cast my mind forward to the AGM at which point I will be taking on the national president role I would like to again thank and recognise the efforts and commitment of the region's hard-working committee, the result of which is a strong and capable region from which to build upon towards greater success.

Finally, thanks to the SSSI Members in Tasmania, for their ongoing support.

Paul Digney
SSSI, Tasmania Chair

9.6 Victoria

It was with great pleasure that I took on the role of Victorian Regional Committee Chair at the committee meeting in October 2019. I thank Lindsay Perry, the immediate past chair for his leadership, for bringing our attention to important industry issues and for using his wide industry knowledge and network of contacts to help facilitate events. As the Regional Chair, I have been privileged to work alongside the Victorian Regional Committee members.

I would like to acknowledge the valuable contributions by David Kelly as Regional Chair, SICC and Zita Ulmann, Regional Chair WIS, both of whom worked committedly and tirelessly for the success of the commission and interest group they led, ensuring the relevance of the activities and value to members. Also special thanks must go to Richard Syme for his efforts as the Victorian Director on the SSSI Board. We are pleased that Richard has agreed to continue to be involved with the SSSI VIC committee and we look forward to his continued contribution.

Achievement

I am pleased to advise that Lindsay Perry FSSSI received the CSV Peter Tyrrell Award in November 2019. The citation of Lindsay's award highlighted Lindsay's commitment to the advancement of the surveying profession. Lindsay has served on numerous committees in a range of positions including:

- President, Institution of Surveyors Victoria - 1998
- Chairman, Association of Consulting Surveyors Victoria – 1993/4.
- Chair of the Victorian SSSI Land Surveying Commission since 2005
- Victorian Representative on National Land Surveying Commission, where he is the current Chair

Events

The first three events of the financial year were the APSEA Victoria, the Women in Spatial Breakfast and the Victorian Annual Summit, held in August at Kooyong Lawn Tennis Club. The APSEA celebrated the many worthy Victorian individual and business recipients of awards. Cathy Crooks who has rich industry knowledge hosted the event gracefully. Helli Kotasek's presentation was engaging and a refreshing start to a full day of conference presentations that followed. The Summit proceeded with plenary sessions, robust discussions and two streams catering to surveying and spatial interests.



SSSI Victoria Regional APSEA Award ceremony

In October, the Women in Spatial (WIS) Committee hosted a Professional Development session with Helli Kotasek - Establishing Your Strategic Presence. Also, Erin Davidson, a volunteer speaker for Beyond Blue spoke to raise awareness about anxiety and depression. The evening concluded with an informal networking with light refreshment.

In November, a public lecture with Bart Lathouwer, President OGC Digital Twin BIM & Geo was held at the University of Melbourne. Bart presented on Digital Twins BIM and Geo with illustrations from the work of City of Rotterdam on their Digital Twin and Dubai's BIM work. Seventy SSSI members and industry colleagues attended the presentation.



Public lecture featuring Bart Lathouwer, President OGC Digital Twin BIM &

Also in November a breakfast with Don Murray brought together colleagues to celebrate the World GIS Day 2019 at a Crown Towers. This was a collaborated effort by SSSI, SIBA and 1Spatial.

In December, the Members' end of year event was held at the State Library of Victoria. Following the Victorian Government's Spatial Showcase during the day. We were privileged to have an open and informative discussion with DELWP panellists. The evening's guest speaker was John Brock from New South Wales provided an entertaining presentation on *Millimetre Moon Measurement*.

It was a busy start to 2020 with the annual SSSI-ISV Summer Seminar held. The program attracted over 180 participants. We thank CR Kennedy for the use of their Port Melbourne office.

Also in February, it was pleasing see so many Victorians participate in the SSSI Bush Fire Recovery Map-a-thon held at the GHD office in Melbourne. The day's catering was generously sponsored by Jacobs.

Our final face-to-face events was held in March in celebration of International Women's Day. Over 70 industry colleagues and friends made their way to the venue early in the morning. We were privileged to listen to the insightful and informative presentations of four inspiring women - Amelia Chapman, Director of Land Information and Spatial Services, DELWP, Kellie Dean, President ISV and Principal of Surveying, Spiire, Jacyl Shaw, Global Director - GHD Digital D-Lab, Microsoft Executive of the Year 2019 and Penny Harrison, Director Volunteering, Australian Red Cross. It was an opportunity to catch up with one another post-event, and there were notable quotes, literature recommendations, professional and future industry-focused thoughts to take away.



Image: Annual SSSI-ISV Summer Seminar



SSSI Victoria International Women's Day breakfast

Commission and Special Interest Group events

Andrew Ternes and his committee from the SSSI Hydrographic Commission arranged a very successfully Hydrographic Surveyors' Seminar in March

The 2019 Victorian Mentoring Program Graduation was hosted at Melbourne University where mentors and mentees came together and received their certificates. In the latter part of the year, the YPs had the privilege of listening to two APSEA Victorian Young Professionals of the Year winners, David Kelly and Frazer Wilson who discussed their pathways from university to their professional roles. The YPs also organised a virtual State Library of Victoria Map Room guided tour.



Image: Tour of the State Library of Victoria Map Room.

In April, the Victorian Land Surveying Commission organised the webinars on Marine & Coastal Policies by Rebecca Price of DELWP and Mapping the Plastics by Simon Ironside from New Zealand and Chair of FIG Working Group 4.3 Mapping the Plastics. Another webinar was the Major Transport Projects Facilitation Act (MTPFA) Dealing, delivered by Matthew Curtis.

The future

With the global pandemic dominating our lives in the latter part of the year, the new year will be dramatically different to previous years. Victoria, in particular Melbourne, has been hit hard with high numbers of infections and state-wide restrictions. This resulted in SSSI Victoria not being able to host any face to face activities from March. This has led to greater opportunities for more members to be involved in webinars offered from all jurisdictions in Australia and the world. The availability of industry specialists presenting on a wide range of topics at the SSSI webinars has enriched our knowledge and opened up new opportunities from both a professional and business point of view.

The Victorian Committee will continue to work towards providing a range of webinar topics and where possible, work towards partnerships with other organisations to foster cooperation and collaboration to ensure all members and non-members are able to access the latest industry information. We do look forward to getting back to our usual program of providing face to face services in the future.

The appointment of Tony Wheeler as the SSSI CEO has seen a strong focus for SSSI to provide excellent value and service to the members and I look forward to the Victorian committee working closely with Tony and his team to ensure this continues next year.

I would like to conclude that while the second half of the 2019-20 year has seen unprecedented challenges, we have been able to continue to engage with our members and the spatial and surveying community, by providing a comprehensive program of events and delivered in a form that was suited to the circumstances we found ourselves in.

On behalf of the Victorian Committee of the SSSI, I would like to thank our Sustaining Partners, who have continued to support SSSI Victoria throughout the year, and to our Victorian members, thank you for staying in touch with us and I look forward to meeting face to face with you when possible.

Andrej Mocicka
SSSI, Victoria Chair

9.7 Western Australia

It was a great honour to take over as Chair of SSSI WA from Dr Lesley Arnold towards the end of 2019. A special thank you to Lesley for your drive and enthusiasm over the past two years. The start of the new financial year saw SSSI WA move into our new home! SSSI WA is now located at Riff (on St Georges Terrace), a custom-designed co-working space. It is great to be part of a collaborative work community. We look forward to sharing the space more with members over the next year.

Events

SSSI WA also started the new financial year with a very successful WA Mine Surveying Seminar which was co-hosted by SSSI and the Australian Institute of Mine Surveyors. Over 75 people attended and listened to a range of speakers who addressed four key areas; automation and the future, control and monitoring, UAV advances and technology showcase. The seminar also encouraged open dialogue regarding the future of mine surveying work and responsibilities in a changing environment. Thank you to our event sponsors, CR Kennedy, Land Surveys, Mine Surveys Plus, Maptek and HL Geospatial.

The first official event held at the SSSI WA new office space was a combined office welcome party and launch of the 2019 YP Mentoring Program. Though it was a very wet and wild evening, we were very happy to welcome around 30 members and guests to hear more about the Mentoring Program and also take a tour of the new office space.

YP Chair, Roshni Sharma who is based in Sydney, joined us via video conference and further discussed the YP mentoring program and its benefits to mentors and mentees. 2018 YP Mentoring Program mentor, Nicholas Flett then shared his experience of being part of the program – both a rewarding and valuable experience. We were also fortunate to have a number of mentors and mentees in the audience.

SSSI WA was also pleased to support the inaugural Indigenous Mapping Workshop (IMW) Australia, which was held in Perth in mid July 2019. The goal of the Indigenous Mapping Workshop is to build the capacity of Aboriginal and Torres Strait Islander communities in Australia to use mapping tools to map and monitor their lands and tell their stories of connection with the land and water. It was a privilege to promote this successful workshop.

In August, SSSI held the UAV's and other technological considerations Seminar. This sell-out Seminar reviewed what has been happening in WA around UAV applications and technological developments over the past year or so. Many thanks to GHD for sponsoring this event and to our guest speakers, Dr Simon Abbott from Landgate, Steve Brown from RemSense and Dr Stuart Gordon from Aurecon.

In September our focus was on Location Intelligence Forum and Exhibition (LIFE 2019) held at the amazing Optus Stadium in Perth.

We were fortunate to feature several headline speakers including:

- Kathrine Kelm, Senior Land Administration Specialist, The World Bank, USA
- Marion Fulker, CEO, Committee for Perth
- Dr Gareth Baynam, Clinical Advisor and Project Lead – Genetic Services WA
- Andrew Morumburri Dowding, Director, Winyama Digital Solutions
- Paul Farrell, Managing Director, NGIS Australia
- Chris Barber, GIS Lead - Westport Project at Department of Transport.



Opening Plenary from LIFE2019

As part of the LIFE2019 program, attendees were given the opportunity to tour Optus Stadium and participate in the Drone Zone (courtesy of CR Kennedy). The event would not have been possible without the support of our fantastic sponsors, CR Kennedy (Gold), NGIS Australia (Silver), 1 Spatial, Adam Technology, Jacobs, SPUR (Landgate) and Listech/Hexagon.

On the evening of LIFE2019, the WA Region Asia Pacific Spatial Excellence Awards were held. A night where we celebrate our surveying and spatial individuals and companies. Guests were also captivated by dinner guest speaker, Trent Cooper, Senior Coach of the Fremantle Dockers Women's AFL team. A big thank you to Nathan Eaton from NGIS Australia for being an exceptional MC for the evening.

In October, SSSI WA hosted a data sharing and privacy seminar. This afternoon Seminar gave an overview of the proposed legislation and a panel discussion was held which highlighted industry concerns regarding the collection, use and storage of data. Thanks to Main Roads for supporting this event. .

The 2019 Fellows Dinner was held in November and was proudly hosted by SSSI WA and the WA Institute of Surveyors. It was a great evening to catch up with friends and former colleagues. The Fellows were also treated to a presentation from Geoff Robb, Managing Director, RM Surveys and 2019 APSEA Professional of the Year who discussed his volunteer work and the benefits gained from volunteering. During the evening, former SSSI President, Bernard O'Sullivan was conferred as Hon Fellow. We welcome Bernie to this very prestigious group.



WA Fellows dinner

The year concluded with a surveyors tour of Elizabeth Quay by RM Survey's Managing Director, Geoff Robb. The tour included many sites RM Survey's had worked on within the Elizabeth Quay precinct including the foot bridge, Ritz Carlton site and the new Lot 2 & 3 sites. After the tour, the group walked to the SSSI WA office for networking and presentations from Murray Dolling, Landgate and Rachel Chapman, Director, Taylor Burrell Barnett.

The start of 2020 was challenging as many areas on the East Coast of Australia were affected by devastating bushfires. Seeing our community so affected, led the surveying and spatial community to take action and the SSSI Bushfire Recovery Map-a-thon was initiated. This day long Map-a-thon had over 600 participants registered to assist with collecting data on burnt infrastructure to help

After a challenging bushfire season, nothing quite prepared us for COVID-19. Our work and home lives changed dramatically. Social distancing became the norm. Though we were unable to meet face to face SSSI continued to deliver a lively and robust CPD program via its National Webinar Series - showcasing national and international speakers discussing relevant topics of interest to the spatial and surveying professions. SSSI was quick to adapt and be able to deliver exceptional content to our members.

Our monthly WA Land Surveying Commission meetings also went online. Congratulations to Aaron Gibson (with support also from Tony Snow) for ensuring our Land Surveyors met on a regular basis. It's great to see attendance at these meetings has considerably increased and feature regular industry presentations.

The future

Finally, I would like to thank the SSSI WA Regional Management Committee for their service and dedication over a very challenging 12 months. And to our WA members, thank you for your support. We look forward to connecting with you over the next 12 months.

Darren Mottolini
SSSI, Western Australian Chair

9.8 SSSI Regional Committee Members

SSSI acknowledges all our members who volunteer their time to participate on our many Regional Committees. Thank you for your support.

ACT Regional Committee

Noel Ward	Chair
Wendy Stewart	General committee member
Wendy Stewart	HC (national ACT map
Nicholas Brown	YP
Alison Eames	WIS regional ACT rep
Greg Ledwidge	Observer
Joanne Hawkes	Observer
Jason Steger	Observer

Tasmania Regional Committee

Paul Digney	Chair / EMSC regional Tas rep
Scott Strong	General committee member
Inga Playle	General committee member
Natalie Williams	General committee member
Steven Flude	General committee member
Chris Walsham	General committee member
Andrew Edwards	EMSC national Tas rep
Nathan Green	HC national Tas rep
Briallen Hall	YP
Haifi Al-Haifi	YP
Natalie Williams	WIS national Tas rep

Victoria Regional Committee

Andrej Mocicka	Chair
Melinda Borg	Treasurer
Geoffrey Patterson	General Committee member
David Kelly	General Committee member
Noor Raziq	General Committee member
Mohsen Kalantari	General Committee member
Lindsay Perry	LSC national VIC rep
Geoffrey Patterson	LSC regional VIC rep
Andrew Ternes	HC national VIC rep
Chris Bellman	RSPC national VIC rep
Katherine Williams	SICC regional VIC rep
David Kelly	SICC national VIC rep
Jonathan Briere	SICC regional VIC rep
Melissa Green	YP
Oscar So	YP
Dr Zita Ultman	WIS

South Australian Regional Committee

Graham Walker	Chair/General committee member
Franco Rea	Treasurer/General committee member
Joe D'Aloia	General committee member
David Trengove	General committee member
Duane Van	General committee member
Schoonhoven	
Michael Grear	LSC regional SA rep
Michael Nietschke	LSC national SA rep
Andrew Barkham	EMSC national SA rep
Neil Hewitt	HC regional SA rep
Jennifer Brindle	HC national SA rep
Tyson Hillyard	RSPC national SA rep
Georgina Cassar	SICC regional SA rep
Sam Fulton	YP
Aiden Hughes	YP

New South Wales Regional Committee

Mary-Ellen Feeney	Chair
Roshni Sharma	Deputy Chair / YPP / WIS
Graham Samuel	Treasurer
Ross Johnson	General committee member
Austen Pepper	General committee member
Graham Samuel	General committee member
Renee Coysh	General committee member
Elizabeth Fulton	General committee member
Greg Goodman	LSC regional NSW rep
John Minehan	LSC national NSW rep
Ian Harper	LSC (Instit National Ctee Rep)
Ian Jackson	HC national NSW rep
Warwick Hehir	RSPC national NSW rep
Hanno Klahn	SICC regional NSW rep
Robert Campbell	SICC national NSW rep
Donny Darmawan	YP
Lan-Anh Ho	Student
Brittany Dahl	WIS
Raelene Forbes	WIS
Roshni Sharma	WIS

Queensland Regional Committee

Paul Reed	Chair/General committee member
Angus Scown	Deputy Chair/SICC national QLD rep
Robert McCabe	Treasurer
Jemma Picco	General committee member
Lee Hellen	General committee member
Alistair Byrom	General committee member
Sudarshan Karki	General committee member
Robert McCabe	General committee member
Andrew Jensen	Central region rep
Graham Jensen	Northern region rep
Dale Atkinson	LSC regional QLD rep
Mandy Compton	LSC national QLD rep
Noel Davidson	EMSC national QLD rep
Owen Cantrill	HC regional QLD rep
Celine Roux	HC national QLD rep
Dipak Paudyal	RSPC national QLD rep
Michael Topp	YP
Nelson Kuna	YP
Megan Dillon	WIS national QLD rep

WA Regional Committee

Darren Mottolini	Chair / General committee member
Nicholas Flett	Deputy Chair / regional WA rep
Lesley Arnold	General committee member
Linda Morgan	General committee member
Aaron Gibson	LSC national WA rep
Tony Snow	EMSC national WA rep
David Belton	EMSC regional WA rep
Paul Kennedy	HC national WA rep
Thomas Schroeter	HC regional WA rep
Petra Helmholz	RSPC national WA rep
Kerry Smyth	SICC national WA rep

10.0

Our Activities and Initiatives

10.1 YP Mentoring Program

In its second year, the YP mentoring program continues to grow from strength to strength. On a fortnightly basis, mentors and mentees met to discuss given topics exploring a range of facets from career goal setting, leadership and emotional intelligence, networking, and more.

The program runs in two streams: (a) undergraduate, for current students or recent graduates, and (b) graduate, for young professionals who are in the workforce and looking to step up their careers.

Over 200 mentors and mentees participated in the 2019 YP Mentoring Program with participants finding the program to be engaging, interesting and very valuable.

Many thanks to CR Kennedy for sponsoring the YP Mentoring Program in 2019.

10.2 SSSI National Bushfire Recovery Map-a-thon

During late 2019 and early 2020 major bushfires have heavily impacted regions of New South Wales, eastern and north-eastern Victoria, Canberra and Kangaroo Island in South Australia, and large areas of forest have been burnt. During this time over 18.6 million hectares of land was burnt, 34 people killed and an estimated one billion animals killed, with some endangered species possibly driven to extinction.

As the fires reach their peak late December 2019, SSSI was inundated with calls from our surveying and spatial sciences community, asking what they could do to help their fellow Australians. Calls came from individuals and companies offering support.

SSSI consulted with Commonwealth and State Government agencies, the newly formed National Bushfire Recovery Agency (NBRA), industry peak bodies and NGOs, seeking advice on how our profession could contribute. This consultation led to the SSSI National Bushfire Recovery Map-a-thon held on Sunday, 9th February 2020, and the location of burnt infrastructure being the main priority.

The map-a-thon was held at six locations across Australia, with venues provided by GHD and Aurecon, and refreshments generously supported by Veris, Leica, Hexagon Geospatial, Jacobs and Hydro Tasmania.

There were over 600 registered participants - 300 joined remotely from home and 44 teams took part from other locations, in addition to the organised venues. There were 100 overseas participants from 26 countries - Albania, Belgium, Bolivia, Bulgaria, Canada, China, Commonwealth of the Northern Mariana Islands, Fiji Islands, Germany, Ghana, Guam, Hong Kong, India, Italy, Jamaica, Kenya, Nepal, New Zealand, Nigeria, Philippines, Qatar, Spain, Sri Lanka, Tanzania, USA, and Zimbabwe.



Participants were fortunate to have had access to hundreds of thousands of dollars' worth of aerial imagery on the day, and SSSI is grateful to supporters Nearmap, Planet and Airbus for pledging support and working overtime to ensure the imagery was available on the day. This post-fire imagery was crucial to the success of the map-a-thon as it was used to detect damaged and destroyed infrastructure. Satellite imagery from Planet and Airbus provided a 'first look' at the fire impacted areas, and Nearmap aerial photography enabled a closer inspection of damaged areas. Also, vital was the government mapping data from VicMap, NSW Spatial Services and the NSW Royal Fire Service, which was used to aid interpretation.

The OpenStreetMap (OSM) Platform and Hot Tasker Manager were used to coordinate the mapping effort. NGIS Australia provided the technical support to create the SSSI Project Areas for the map-a-thon, which covered all the bushfire devastated areas. NGIS also worked with imagery and data providers to ensure all systems worked smoothly on the day. This was a significant piece of work and SSSI is grateful to NGIS for their leadership and generosity.



SSSI Young Professionals (YP's) were at the heart of the map-a-thon - from the lead up to the event, through-out the event and post event. YPs undertook OSM onboarding training, developed specific training materials, and coordinated map-a-thon training on the day.

The map-a-thon is one of the largest single event map-a-thons held in the Australasian region; with a total of 2,793,879 hectares were mapped, with 15,731 edits, 13,891 building edits, 1,091 damaged features mapped and 945 damaged buildings mapped .

This significant achievement has demonstrated that the combined talents of surveying and spatial community, SSSI volunteers and the OpenStreetMap Community can make huge inroads in improving the OpenStreetMap as an Australian community resource. These maps are essential for understanding where things, and navigating from A to B.

The map-a-thon and follow-on activities have highlighted that surveying and spatial science has an important contributing role to the safety and well-being of Australians by providing national mapping support for disaster preparedness and recovery efforts on a volunteer basis.

These efforts demonstrate that the surveying and spatial professionals can come together quickly as a formidable group for nationally coordinated volunteer mapping services.

10.3 Engagement

For SSSI to be an inclusive body that represents the surveying and spatial sectors, we cannot do this in isolation. MoU's are critical in fostering stronger collaboration in our region and beyond, as well maintaining our sustained relevance and opening opportunities for improved learning and knowledge sharing. Over the past 12 months, SSSI has signed MoU's with the following organisations:

Open Geospatial Consortium (OGC)	OGC is a not-for-profit international standards organisation dedicated to convening an ongoing forum to advance interoperability among IT systems that process geo-referenced information. The focus on the MoU is to collaborate on workshops, seminars, and the provision of Continuous Professional Development accreditation.
Association of Southeast Asian Nations Federation of Land Surveying and Geomatics (ASEAN FLAG)	ASEAN FLAG is a non-profit organisation that strives to promote and advance the science, practice and application of land surveying and geomatics, and to foster regional, national and international cooperation and transfer of technology. This MoU aims to foster stronger collaboration of surveying and spatial professionals in the region.
Pacific Geospatial and Surveying Council (PGSC)	PGSC is the regional body that represents the geospatial and surveying authorities of Pacific Island Countries and Territories (PICTs). The MoU will facilitate coordination, communication and collaboration and the sharing of resources and applications of location information to advance and promote the surveying and geospatial science industries.
URISA International Exchange Program	<p>The SSSI Spatial Information & Cartography Commission has a longstanding international exchange program with Urban and Regional Information Systems Association (URISA). The 2019 delegates were Teresa Townsend, URISA past president (who visited Locate19 in Melbourne) and Kerry Smyth (former SICC Chair who visited GIS-Pro in New Orleans)</p> <p>As background, the SSSI relationship with URISA and GISCI was adopted 10+ years ago, and is formalised in two MoUs that cover: sharing of CPD programs; alignment of certification programs; sharing of objectives and values; and the exchange program.</p> <p>Exchange delegate Kerry Smyth reported a very successful and enjoyable visit to New Orleans, and is enthusiastic to progress the many actions that were initiated, most significantly sharing the GISCI online portal for GISP-AP Certification lodgements. Unfortunately COVID-19 has stalled further discussions, but engagement will continue in early 2021.</p>

10.4 South East Asia Survey Congress, Darwin

SSSI was proud to be part of the South East Asia Survey Congress held in Darwin from the 15-18 August 2019. This is the first time in 20 years that Australia has hosted a joint international congress with the ASEAN Flag Surveying nations. The Congresses theme was Collaboration, Communication, Capacity Building in the 21st Century.

This event saw just over 400 surveying professionals from all over Australian and South East Asia convene for a dynamic four-day program.

The Congress was a mix of informative presentations as well as practical workshop sessions which explored many disciplines from across the Surveying and Geospatial sciences. There was a strong focus towards developing practical skills and providing new updates and research from across the sector.

There was also a strong focus on our emerging leaders, with a full day dedicated to our Young Professionals. Developing our Young Professionals to be leaders of the next generation in surveying and geospatial sciences is integral.

Being located in Darwin, participants were also able to indulge in the stunning tropical location, rich in Indigenous history. A big thank you to SSSI Board members Rob Sarib and Lee Hellen for their contributions in developing a strong Congress program.



Images from SEASC 2019

10.5 SSSI National Webinar Series

Like many businesses, SSSI had to adapt its business operations rapidly and is committed to delivering a lively and robust CPD program. SSSI is proud of its National Webinar Series. Showcasing national and international speakers discussing relevant topics of interest to the spatial and surveying professions. Members are encouraged to view upcoming webinars and other events on the SSSI website. An extensive eCPD back catalogue is also now available online.

10.6 Certification

In addition to certification of hydrographic surveyors, which SSSI jointly sponsors with Surveying + Spatial New Zealand, SSSI currently manages three other certification programs. The following gives details of each of these programs and acknowledges those achieving certification during the past financial year.

General Certification (GISP)

In SSSI, expertise is acknowledged at a general level through General Certification. Endorsement under this Certification informs others that a certified practitioner's skills and expertise in the field of surveying and spatial sciences is recognised by their peers. The General Certification process requires a professional to demonstrate their expertise through either a combination of tertiary qualifications and professional experience or professional experience on its own standing. Additionally, a commitment to a Code of Ethics is required.

New General Certified Practitioners (FY2019/2020)

- Paul Wood, Victoria
- Melissa Mostyn, New South Wales
- Zonka Petrusevska, Queensland
- Paul Vujcich, Queensland
- Craig Croke, Western Australia
- Noel Gehren, South Australia
- Michael Nietschke, South Australia
- Glenn Hordacre, South Australia
- Kane D'Rose, Queensland
- Scott Hayes-Stanley, Queensland
- Robert Newham, Queensland
- David Barker, South Australia

Engineering Surveying Profession (Australasia Pacific) Certification

Under the ESP-AP Certification, the process requires a professional to initially demonstrate that an advanced level of expertise has been achieved, including completion of a formal tertiary education in a particular spatial science discipline, achievement of further relevant professional experience and contributions to the profession.

New ESP-AP Certified Practitioners (FY2019/2020)

- Anthony Byrnes, Queensland
- Michael Griffin, Queensland
- Alexander Zajaz, Queensland
- Brett Young, Queensland
- Nicholas Lund, Queensland
- Ian Clerke, Queensland

Geographic Information Systems Professional (Asia Pacific) (GISP-AP) Certification

The Spatial Information & Cartography Commission expertise is acknowledged under the internationally recognised GISP-AP Certification. Endorsement under this Certification informs others that a practitioner's skills and expertise in spatial information and cartography are recognised at SSSI's highest level.

The GISP-AP Certification process requires a professional to initially demonstrate that an advanced level of expertise has been achieved, including completion of a formal tertiary education in a particular spatial science discipline, achievement of further relevant professional experience and contributions to the profession.

New GISP Certified Practitioners (FY2019/2020)

- David Kelly, Victoria
- Katherine Williams, Victoria
- Mark Asendorf, Northern Territory
- Nabin Paudel, Auckland, New Zealand
- Christopher Morris, Auckland, New Zealand
- Justin White, Queensland
- Jeffrey Ramos, Victoria
- Hurmain Ariffin, Selangor, Malaysia

10.7 Migration Skills Assessment

SSSI is the professional body appointed under the Migration Act to evaluate overseas qualification assessments for surveyors on behalf of the Federal Government's Department of Education, Employment and Workplace Relations. SSSI is the authorised assessing authority to assess qualifications and skills for the purpose of migration to Australia under the general skilled migration categories for the occupation of Surveyor ANZSCO 232212 ONLY (i.e. applicants must hold the equivalent of an Australian bachelor degree).

For the 2019/2020 SSSI undertook 109 migration assessments. Of this, 98 were deemed acceptable. Migrants were assessed from the following countries:

Bhutan	Canada	Chile
China	Greece	Hong Kong
India	Iran	Italy
Kenya	Lithuania	Mongolia
Nepal	Philippines	Poland
Portugal	Romania	Russia
Slovenia	South Africa	South Korea
Sri Lanka	Sudan	Sweden
Turkey	Vietnam	Zimbabwe

Our Achievements

11.1 Hon Fellows and Fellow conferred

The SSSI may confer, from time to time, on individual members of SSSI the title of “Fellow” or “Honorary Fellow” of the Institute. These titles are conferred to individuals that have made a significant contribution to the Institute or to the Profession.

SSSI Fellows

Renee Bartolo RSPC	Nick Lawrence, SICC	Phillip Pozzi, LSC
Francis Blanchfield, SICC	Richard Lemon, LSC	Anthony Proust, LSC
Paul Boland, LSC	Megan Lewis, RSPC	David Pyper, LSC
Duncan Brooks, SICC	Michael Lodewyk, LSC	Jasbir Randhawa, HC
Michael Burdett, LSC	Graham Lodwick, RSPC	Alan Regan, LSC
Alistair Byrom, LSC	Brian Marwick, LSC	Craig Sandy, LSC
Adriaan Café, LSC	John Maschke, HC	Bruce Serisier, LSC
Michael Cameron, LSC	Graciela Metternicht SICC	Mark Shortis, RSPC
Jacobus de Lange, SICC	Paul McClelland, LSC	Shane Simmons, LSC
Peter Douglas, EMSC	Malcolm McCoy, LSC	David Sinclair, LSC
Christopher Earls, RSPC	Kevin McDougall, LSC	Peter Sippel, LSC
Robert Edwards, LSC	Trevor Menzies, SICC	Kerry Smyth, SICC
Leslie Fehlhaber, LSC	Andrej Mocicka, LSC	Anthony Snow, EMSC
Gregory Goodman, SICC	Zaffar Sadiq Mohamed-Ghouse, SICC	Christopher Swane, LSC
Noel Hamey OAM, SICC	Linda Morgan, LSC	Raymond Tabulo, LSC
Paul Harcombe, LSC	Murray Morrison, LSC	Barry Thorne, LSC
Stephen Hogan, LSC	Peter Murphy, LSC	Robert Twin, SICC
Malcolm Jones, HC	Philip O'Brien, LSC	Hein Van Der Heide, LSC
Andrew Jones, LSC	Jonathan Osborn, RSPC	Raymond Watson, LSC
Arthur Kearsley, LSC	Dipak Paudyal, RSPC	John Webber, LSC
Peter Kinne, RSPC	Robert Pentecost, LSC	Douglas White, SICC
David Kirchner, SICC	Lindsay Perry, LSC	Simon Wood, LSC
Heinrich Kuenen, EMSC	Stuart Phinn, RSPC	Graeme Wright, SICC

Hon Fellows

Cliff Bacon, SICC	Matthew Higgins, LSC	Stuart Nixon, SICC
Andrew Barnicoat,	Peter Holland, RSPC	Bernard O'Sullivan, EMSC
Christopher Bellman, RSPC	Raymond Holmes, SICC	Abbas Rajabifard, SICC
Derrick Brown, LSC	Gary Hunter, LSC	Rob Sarib, LSC
Eugene Browne, SICC	Leslie Isdale, SICC	Terrence Roberts, LSC
Richard Browne , LSC	Earl James, LSC	Jonathan Saxon, LS
Peter Byrne, LSC	Dexter Johnston, SICC	Rob Sarib, LSC
Gypsy Bhalla, RSPC	Kevin Landy, SICC	Grahame Searle , SICC
William Cartwright, SICC	Grahame Lindsay, LSC	Garry Smith, SICC
James Curnow, LSC	Ronald Lister, SICC	Ewen Sneddon, LSC
John Dent, LSC	Gary Maguire, SICC	Peter Swan, LSC
Clive Fraser, RSPC	Gerald McCalden, SICC	John Trinder, RSPC
Ronald Furness, HC	Edward McKinnon, LSC	Jan (Gaby) van Wyk, SICC
Michael Giudici, LSC	John Medbury, LSC	Ian Williamson, SICC
Ken Granger, SICC	Rob Melloy, SICC	Peter Woodgate, RSPC
John Harrison, EMSC	John Minehan, LSC	
Tony Hart, SICC	Gary Nairn AO, LSC	



Bernard O'Sullivan being presented his Hon Fellowship by Tony Snow, FSSSI

11.2 Asia Pacific Spatial Excellence Awards 2019

11.2.1 Individual Awards

These awards celebrate the outstanding achievements of individual surveying and spatial professionals across the oceanic region. National winners were presented their award at the virtual APSEA Awards ceremony.

Professional of the Year Award is conferred on a practitioner working in any of the disciplines of the surveying and spatial sciences who professional achievements are acknowledged by peer citation as exemplifying the highest standards of excellence and ethical conduct.

Young Professional of the Year Award recognises a young professional who has made a significant contribution in the field of surveying and spatial science, and act as role models for others in the industry.

Women's Leadership Award recognises women who have demonstrated a significant contribution to the spatial industry and have shown potential to achieve and deliver benefits to the profession.

Educational Development Award is conferred on practising teachers, facilitators or academics who have substantially contributed through teaching, research, publication or professional activities.

Postgraduate Student Award is conferred on a postgraduate student who has undertaken a research project that contributes to the ongoing progression of the surveying and spatial profession.

Undergraduate Student Award is conferred on a student who has undertaken a research project in the course of their studies that contributes to the ongoing progression of the surveying and spatial profession.

VET Student Award is conferred on a student who has undertaken a spatial or surveying Vocational Education Training course and has contributed to the ongoing progression of the surveying and spatial profession.

New South Wales Individual Winners

Gaby van Wyk	Professional of the Year Award	
Roshni Sharma	Young Professional of the Year Award	
Charity Mundava	Women's Leadership Award	National Award Winner
Dr Michael Myers OAM	Educational Development Award	
Qishuo Gao	Postgraduate Student Award	
Will Andrews	Undergraduate Student Award	
Natasha Crook	SSSI Vocational Education Training (VET) Student Award	National Award Winner

New Zealand Individual Winners

Mark Nichols	Professional of the Year Award	
Melissa Harrington	Young Professional of the Year Award	National Award Winner
Claire Thurlow	Educational Development Award	
Rosey Harris	Undergraduate Student Award	

Queensland Individual Winners

Peter Kinne	Professional of the Year Award	
Kent Olive	Undergraduate Student Award	National Award Winner

South Australia Individual Winners

Sam Fulton	Young Professional of the Year Award	
Mary Lewitzka	Women's Leadership Award	
Michael Nietschke	Educational Development Award	National Award Winner
Mark Daker	Postgraduate Student Award	
Izaak Versteeg	Undergraduate Student Award	
Michael Button	Undergraduate Student Award	

Tasmania Individual Winners

Scott Strong	Professional of the Year Award	
Shirisa Timilsina	Undergraduate Student Award	
Grace Uziallo	Young Professional of the Year Award	

Victoria Individual Winners

Craig Sandy	Professional of the Year Award	National Award Winner
Frazer Wilson	Young Professional of the Year Award	
David Kelly	Young Professional of the Year Award	
Katherine Williams	Women's Leadership Award	
Eva Rodriguez Rodriguez	Women's Leadership Award	
Prof Stephan Winter	Educational Development Award	National Award Winner
Liujun Zhu	Postgraduate Student Award	
Andrew Campbell	Undergraduate Student Award	

WA Individual Winners

Geoff Robb	Professional of the Year Award	
Amy Hall	Women's Leadership Award	
Dr David Belton	Educational Development Award	
Mehdi Khaki	Postgraduate Student Award	National Award Winner
Lachlan Shaw	Undergraduate Student Award	

11.2.2 Industry Awards

These awards celebrate the outstanding achievements of surveying and spatial organisations professionals across the oceanic region. National winners were presented their award at the virtual APSEA Awards ceremony.

Environment and Sustainability Award recognises products and projects that help to resolve scarce water resources, water property rights, biota rights, salinity management or any issue in an environmental context.

People and Community Award recognizes products or projects that make a difference to national, regional or local issues and affect communities via 'grass roots' initiatives, and/or educational programs, services or tools that permit the widespread adoption, use, understanding and access to spatially enabled products or services.

Technical Excellence Award recognises products or projects that implemented spatial solutions to an exceptionally high technical standard, overcoming significant technical challenges, and delivering outstanding results for the client.

Export Award recognizes products or projects that successfully and commercially apply specific spatial knowledge, products, and/or IP in an export market.

Award for Spatial Enablement recognises products or projects in which the application of spatial information, methodology and/or tools has greatly improved the outcomes of a project, process or product.

Award for Innovation and Commercialisation recognises products or projects that made a significant contribution to the industry through the introduction of a new idea, method, technology, process or application resulting in social, environmental and/or economic benefits.

Australian Capital Territory Industry Awards

Digital Earth Australia Industry Strategy	FrontierSI	Award for People and Community
Pavement Analysis - Hay Street, Subiaco.	Jacobs Group	Award for Technical Excellence

New South Wales Industry Awards

Windsor Bridge	NSW Roads & Maritime and Jacobs	Award for Environment and Sustainability
PMaP7: Participatory Mapping and Planning Sub-Activity No. 7 (part of the Green Prosperity Program)	Land Equity International	Award for People and Community
Circular Quay Renewal	Jonathon Saxon / Project Surveyors	Award for Technical Excellence
Broken Hill interactive active transport plan	Cardno	Award for Spatial Enablement
City Circle Line Capture Project	Land Surveys	Award for Innovation and Commercialisation

New Zealand Industry Awards			
Marine Magic - Mapping of Queen Charlotte Sound/ Tōtaranui	Land Information New Zealand/ Marlborough District Council	Award for Environment and Sustainability	
NZGIS4EM - The Beginning	NZGIS4EM Committee	Award for People and Community	
Aerial mapping for disease detection in potato crops	Fox and Associates Ltd	Award for Technical Excellence	
Safer Journeys Risk Assessment Tool (Mega Maps)	Abley	Award for Spatial Enablement	
Trimble SiteVision	Trimble Inc.	Award for Innovation and Commercialisation	National Award Winner

Queensland Industry Awards			
Virtual Reef Diver	FrontierSI and QUT	Award for People and Community	National Award Winner
Toowoomba Range Clearance Upgrade	Bennett + Bennett	Award for Technical Excellence	
Australian Cancer Atlas	Australian Cancer Atlas	Award for Spatial Enablement	National Award Winner

South Australia Industry Awards			
Adelaide Metropolitan Coastline benthic habitat mapping from hyperspectral imagery	The University of Adelaide	Award for Environment and Sustainability	
Using Spatial Science to Identify Breast Screen Service Accessibility.	The Hugo Centre for Migration and Population, The University of Adelaide	Award for People and Community	
Adelaide Riverbank Precinct Redevelopment	Alexander Symonds	Award for Technical Excellence	
South Australia's Multicultural Story	Hugo Centre for Migration and Population Research, University of Adelaide	Award for Spatial Enablement	

Tasmania Industry Awards			
Bass Strait Islands - technical excellence in managing distribution assets and meter reading	Hydro Tasmania	Award for Technical Excellence	
Port Arthur Historic Site Interactive Webmap	Esk Mapping & GIS	Award for Spatial Enablement	

Victoria Industry Awards

Embedding Climate Change into Agriculture (ECAiA) - North East Catchment Management Authority	Spatial Vision	Award for Environment and Sustainability	National Award Winner
Vicmap Viewer	DELWP/Spatial Vision	Award for People and Community	
DynAdjust	DELWP	Award for Technical Excellence	
Strategy for the development of a competitive environment for the provision of survey and geospatial data, products, and services for the Kingdom of Saudi Arabia	Spatial Vision & Frontier SI	Award for Export	National Award Winner
Victoria Unearthed	DELWP, along with EPA Victoria, GHD, Lotsearch, Spatial Vision, Data Agility, and ThinkPlace	Award for Spatial Enablement	
Greater Melbourne LiDAR project	DELWP/Melbourne Water	Award for Innovation and Commercialisation	

Western Australia Industry Awards

Peel Food Zone	GHD, Dept of Primary Industries & Regional Development and Peel Development Commission	Award for Environment and Sustainability	
Indigenous Mapping Workshop	Winyama Pty Ltd	Award for People and Community	
Forrestfield-Airport Link Reflectorless Airside Monitoring	Land Surveys - FAL Team	Award for Technical Excellence	National Award Winner
Cliniface - Unlocking Facial Clues	Genetic Services WA, Department of Health, Undiagnosed Rare Diseases Program (URDP), Roy Hill Community Foundation, Perth Children's Hospital Foundation, WA, Department of Health, Curtin University, Frontier SI	Award for Spatial Enablement	

12.0

Our National Sustaining Partners

SSSI Values the support of our national Partners.

Gold



Silver



Bronze



Education



13.0

Our Team

13.1 Our National Board



Dr Zaffar Sadiq Mohamed-Ghouse
President

Dr Zaffar Sadiq Mohamed-Ghouse is the Executive Director for Strategic Consulting & International relations at Spatial Vision. He holds a pivotal role as an adviser to various National and International spatial organisations. He has 21 years of experience in project management, business development and the design, development and management of spatial databases. He has worked for major clients in Australia, New Zealand, Malaysia, Indonesia, India and Saudi Arabia and has led several Multi-Million Dollar National Mapping projects for State and Federal governments globally.

Zaffar is also the Australian representative at ISO Technical Committee 211 (Geospatial Information) and is active with United Nations Global Geospatial Information Management. He serves on the Executive Board of World Geospatial Information Council (WGIC) and has academic appointments as Adjunct Associate Professor at University of Melbourne and University of New South Wales. He is also the Vice President of the International Society of Digital Earth in Florence, Italy.



Paul Digney
Director - Tasmania and President elect

Paul Digney is the Survey Technical Director for Jacobs Australia and is a licensed surveyor in Tasmania and Victoria with over 25 years' experience in the surveying/spatial profession. Paul has shared his employment equally between public and private sector roles with a strong focus on geodetic/cadastral surveying and more recently 3D laser scanning, digital engineering and strategic consulting.

Paul holds a Bachelor of Surveying – Hons (1997) from the University of Tasmania and a Graduate Certificate in Management (2003) University of Western Sydney.

Paul is a passionate Tasmanian who is also the Chair of the Tasmanian Regional Committee and has been actively involved with the SSSI and legacy organisations over the past two decades.



Lee Hellen
Director – Queensland

Lee Hellen is a Registered Surveyor with Cadastral and Consulting Endorsement in Queensland and Registered Licensed Surveyor in the Northern Territory. Lee is the owner and founder of Land Solution Australia Pty Limited, a private industry leader in Surveying and Spatial science.

An innovator and business leader, Lee has served on numerous SSSI and SIBA boards and committees over the last 12 years. He has received several individual and industry awards for excellence in Surveying and Spatial Science for his work in this industry since 2007.

Lee has formal qualifications at a bachelor and post graduate certificate level in surveying and spatial science and is a Graduate Member of the Australian Institute of Company Directors (AICD).



Dr Lesley Arnold
Director – Western Australia

Dr Lesley Arnold is Director Geospatial Frameworks Pty Ltd. She works with governments to develop strategies, policies and implementation plans for spatial information reform, open data initiatives and spatial innovation globally. Lesley currently works with the United Nations and World Bank supporting countries to strengthen their geospatial information management capabilities towards implementing the 2030 Agenda for Sustainable Development, and is one of the lead authors of the UN-GGIM Integrated Geospatial Information Framework. Previously, Lesley was Director at Landgate responsible for Western Australia's geographic, aerial photography and satellite remote sensing programs, and the delivery of SDI products and services. Lesley has held several executive positions on intergovernmental committees and is currently a Board Director for Auscope and the Surveying & Spatial Sciences Institute.



Rob Sarib
Director – Northern Territory

Rob Sarib is the Director Survey / Surveyor-General, Survey Branch in the Land Information Group of the Northern Territory Government's Department of Infrastructure Planning and Logistics; the Chair of the Surveyors Board of Northern Territory; and the member of the Inter-governmental Committee on Survey and Mapping – Australia. Rob obtained his degree in Bachelor Applied Science – Survey and Mapping from Curtin University of Technology Western Australia in 1989. Rob was registered to practice as a Licensed Surveyor in the Northern Territory, Australia in 1991. Since then he has worked as a cadastral and geodetic surveyor, and a land survey administrator primarily within government.

Rob is now Chair of the FIG Asia Pacific Capacity Development Network whose focus is to build our surveying and geospatial information skills and knowledge for the future.



Wayne Patterson
Director – New South Wales

Wayne is the Director of Spatial Operations for NSW Spatial Services. Wayne has 20 plus years' experience in the spatial industry covering a range of disciplines from Operations to Strategy and Policy development. Some of Wayne's achievements include the establishment of the NSW Common Spatial Information Initiative (CSI2i), the establishment of the NSW Spatial Council now Location Leadership Group and Industry Advisory Group, led the development and delivery of the NSW Location Intelligence and Location Plus strategies and the development of a number of spatial policies and standards that today form part of the NSW Government Information Management Framework.

Wayne is directing the delivery of the NSW Digital Twin project and is a member of the Intergovernmental Committee of Surveying and Mapping.



Nicholas Brown
Director – Australian Capital Territory

Nicholas Brown from Geoscience Australia is the Director of National Geodesy, co-Chair of the UN-GGIM Subcommittee on Geodesy, a member of the Intergovernmental Committee on Surveying and Mapping, Chair of the ICSM Geodesy Working Group and a member of FIG Commission 5.

Nicholas is responsible for the development and refinement of the Australian Geospatial Reference System; the collection of datums, geoid models, transformation tools and standards required for 4D positioning. Nicholas has a Bachelor of Applied Science in Geomatics from RMIT and a Masters in Geophysics (Space Geodesy) from ANU.



Michael Gear
Director – South Australia

With extensive experience across South Australia and several years in the Northern Territory, covering all areas of surveying from Engineering and Licensed surveying, Terrestrial Laser Scanning and the Land and Property development, Michael Gear has a comprehensive understanding of the broader Surveying and Spatial profession.

Michael Gear along with his wife Helen have been Directors of their Adelaide based Surveying Firm, Michael Gear Surveys for 20 years.

Michael has shared this experience and gained plenty in return, by being involved on the Surveyors Board SA from 2007-2010, the SA SSSI Regional Committees since 2009 in various roles and is currently the SA representative on the national SSSI Board.



Neil Hewitt
Director - Hydrography

Neil Hewitt is the current Hydrography Commission chair and panel member on the AHSCP. Neil has over 30 years' experience in the hydrographic industry with 12 years in the Royal Australian Navy and 22 years in the commercial sector. Neil is an AHSCP Certified Level 1 Hydrographic Surveyor and holds an MSc in Hydrography from the University of Plymouth in the UK



Jonathan Saxon
Company Secretary

Jonathan Saxon is the Managing Director of Project Surveyors. He is a Registered Land Surveyor in NSW since 1993 and holds a Bachelor of Surveying Degree from UNSW (1988). Jonathan also has a Masters of Management Degree from Macquarie Graduate School of Management.

In 2008 he became the last President of the Institution of Surveyors Australia, and in 2009, was the first President of the Surveying and Spatial Sciences Institute. Jonathan was also a member of the Merger Working Group which ultimately saw the creation of the Institute by fully merging SSI and ISA together.



Roshni Sharma
YP (Observer)

Roshni is the Chair of the SSSI Young Professionals and has been an active member of SSSI since 2016 at both the regional and national levels. She is passionate about creative positive intergenerational change within the industry through initiatives such as the SSSI National Mentoring Program and other initiatives that facilitate effective collaboration and innovation both within our industry and with other tangential industries and sectors.

Roshni currently a Project Manager and Analyst at FrontierSI. She holds Bachelor of Environmental Science and Management (Honours) from the University of Newcastle, has completed research into long-term climate change and earth systems science through a Master of Science (Geoscience) at the University of Sydney, and has specialised in GIS through a Master of Science and Technology (Spatial Information) at the University of New South Wales. She is currently pursuing a Master of Business Administration through the University of Newcastle, and one of 80 women selected internationally to be part of Homeward Bound, a year-long leadership program for women in STEM culminating in a three-week intensive in Antarctica in 2020.



Tony Wheeler
Chief Executive (ex officio)

Tony Wheeler holds degrees in geospatial science and business administration. His experience includes senior roles with large engineering consulting firm, Sinclair Knight Merz - now Jacobs, that included 12 years as a senior partner, initially heading their geospatial business unit, and later major international projects and mergers and acquisitions. smaller consulting firms, State and Commonwealth Government agencies, and information technology companies. Tony has also participated on a wide range of Industry Boards, Govt Committees, was active in the formation of the CRC for Spatial Information and industry working groups. Tony commenced as CEO of Surveying & Spatial Sciences Institute in May 2020.

13.2 Our Staff

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