

Dear SIAA member

Welcome to the last edition of the SIAA newsletter for 2018.

## ASA HEADQUARTERS ANNOUNCED

The Australian Space Agency announced on 12 December that it intends to establish its headquarters in South Australia.

Minister Andrews has tasked the Australian Space Agency “to continue to engage with states and territories and understand investment opportunities across the nation. Our success depends on solid national and international engagement and our vision will see us reach across all states and territories and build global partnerships that open the door for our space researchers and industries.”

You can read the media release from Megan Clark, Head of the ASA [here](#) and the Hon Karen Andrews MP, Minister for Industry, Science and Technology, [here](#). The ASA also released their new logo and branding. The design of the brand is explained [here](#).

## NEW BOARD APPOINTED

Congratulations to the following members, who were elected via member ballot to the SIAA Board at the Annual General Meeting on 29 November 2018:

- David Ball
- Melissa de Zwart
- Rod Drury
- Alice Gorman
- Peter Nikoloff
- Mark Ramsey
- Nicola Sasanelli

Thanks to all nominees for your support of the SIAA. Thanks also to those members who were able to attend either in person or by phone. On behalf of all members, the SIAA extends sincere thanks and appreciation to outgoing Board members: Mr Michael Davis, Dr Naomi Mathers and the Hon Chris Schacht.

Office holders will be selected at the first meeting of the new Board, which will occur in January 2019.

## **SIAA ADVISORY COUNCIL**

The SIAA Advisory Council is the SIAA's policy and technical think-tank, meeting every quarter in various Australian locations. Members are appointed annually by the SIAA Board. There are several vacancies on the Council for 2019, and we invite you to nominate by sending a brief statement of your qualifications, experience and motivation to [operations@spaceindustry.com.au](mailto:operations@spaceindustry.com.au) by **18 January 2019**. Successful nominees will be notified by the end of January.

## **FUTURE ADF MILSATCOM PROJECT – RFI & INDUSTRY BRIEFING**

The future MILSATCOM project – otherwise known as the future Australian Defence Satellite Communications System (Joint Project 9102) - will issue a Request for Information (RFI) to industry on 14 January 2019. In addition to the RFI, there will be an industry briefing on 17 January 2019 in Canberra. The briefing will commence promptly at 12.30 and will be held in the Ngunnawal Theatre, which is located in building R1 at Russell Offices. More information on the RFI and the briefing can be found at the following [link](#).

## **LIFE MEMBERSHIP AWARDS**

At the AGM the SIAA also awarded three life memberships, in recognition of their distinguished service to the Australian space industry, as follows:

### **Professor Brian O'Brien**

For longstanding and valued services to the Australian and global space sectors as a scientist, environmentalist and advocate and, in particular, for his contributions as an Australian scientist to US space program human and robotic missions in which he contributed an innovative Moon Dust Detector Experiment deployed in the Apollo 11, 12, 14 and 15 missions and his consequent discoveries about movements of dust on the Moon.

### **Dr Paul Scully-Power**

For longstanding and valued services to the Australian and global space sectors as the first Australian-born person to fly in space (as a payload specialist on the Challenger Space Shuttle mission STS041-G in 1984), as a leading researcher and governmental advisor in oceanography, aviation and science and strategic policy and as a strong advocate for the advancement and growth of the Australian space sector.

### **Dr Andrew Thomas**

For longstanding and valued services to the Australian and global space sectors as the first Australian citizen to fly in space (which involved four missions over 177 days between 1996 and 2005 as a NASA astronaut) and as a passionate supporter of and advocate for Australian industry participation in international space activities and the establishment of an internationally recognised Australian space agency.

## **SUBMISSION RE DRAFT COST RECOVERY IMPACT STATEMENT**

Last week we submitted commentary to the Australian Space Agency with respect to proposed cost recovery legislation, which is currently in the consultation phase. This submission was compiled by our Legislation Working Group, who sought input from our members in order to collate the response. More information is available [here](#). Note that the information provided under “What Happens Next” indicates that “Following the consultation, the Government will draft a new Bill. Further consultation is proposed before the finalisation of the Bill.” The SIAA will continue to keep our members informed concerning this issue.

## **AUSTRALIA IN SPACE – CHRISTMAS GIFT IDEA**

Looking for a great Christmas gift for the “Space Junkie” in your life? Look no further than our *Australia in Space* book. This book by Kerrie Dougherty, with a preface by SIAA Chair, Mr Michael Davis, who says “*This book is not only a carefully researched record of the highlights of our Australian space history, it is also a beautifully written and illustrated work dedicated to the many participants in the Australian space adventure over a period of 70 years...*” is a ‘must have’ for any bookshelf. Now available for **15% OFF the RRP**, you can order your copy [here](#).

To receive the discount, use the Coupon code “INSPACE” when checking out.

## NEXT SIAA EVENTS

### SIAA Space Industry Forum

**University of Sydney, 7 February 2019**

We are bringing together a group of industry experts to discuss the “Moon Treaty”. This agreement is a UN space treaty that prohibits private ownership of extra-terrestrial property and requires an international regime for the safe and orderly development and management of the resources and sharing of the benefits. Although Australia signed this treaty, not all countries have done so – what does this mean for the Australian Space Industry going forward? Join us as we explore this fascinating topic further. This event is free for SIAA members, but registration is essential. You can register [here](#). To download a flyer for this event click [here](#).

### SIAA/AAL Australian Space Industry Conference

**Melbourne (Avalon), 25-26 February 2019**

AVALON2019 organiser Aerospace Australia Limited and the SIAA have joined forces to launch the inaugural two-day Australian Space Industry Conference.

Join a constellation of space industry, R&D and Government speakers presenting on issues for the space industry and the space-enabled industries it will support focusing on opportunities for business development.

The conference will feature keynote speakers from the Australian Space Agency, the Department of Defence, the Defence Science and Technology Group and the CSIRO. In addition, a dedicated keynote will deliver an update on the much anticipated DEF799 project (Enhanced Satellite ISR Capability).

As well as the keynotes, the conference will feature a number of panel sessions covering topics such as satellite communications, earth observation, position navigation and timing, space situational awareness and R&D/STEM/future workforce. Panellists will be drawn from international and Australian industry players and end-users.

Day One of the conference will be held at the Melbourne Convention and Exhibition Centre and Day Two of the conference will be held at Avalon at the Airshow itself.

We are planning for a SIAA members showcase, or pitch-fest, for the morning of Day Two and will be calling for expressions of interest from members in early 2019.

In addition to attending the conference sessions, delegates will have the opportunity to see the flying displays and tour the Avalon Airshow exhibition as part of their registration (valid for trade days Tuesday thru Thursday only). The SIAA will also be exhibiting at the Airshow as part of the event.

An event overview is available [here](#)

The event program can be found [here](#)

Registrations are now open - you can register [here](#).

SIAA members are eligible to register at a discounted rate. You will receive the **SIAA member discount** when registering. **Please use the discount code SIAAMBR when completing the registration** (discount will be applied at the end of the registration process).

## **SOUTH AUSTRALIAN SPACE FORUM**

Early in December the SA Space Industry Centre, in conjunction the SIAA, saw the Adelaide Convention Centre host over 480 registrants at the biannual SA Space Forum. With the usual jam-packed program, including presentations from SIAA Board Members Mr Michael Davis and Mr Peter Nikoloff. The event was a great success, providing a unique opportunity for participants to network with local, national and international stakeholders in the space industry.

Copies of the presentations from the event are available on the SASIC website [here](#).

## **CSIRO WORKSHOP 2.0**

The CSIRO Workshop 2.0 was an excellent event involving members of the space industry from across Australia, including many entrepreneurs, which focused on the commercialisation of the space sector.

## QUEENSLAND SPACE INDUSTRY CAPABILITY SURVEY

Deloitte is currently undertaking a capability audit of the Queensland sector to gain an understanding of the Queensland space economy. If you are an entity operating in the Queensland space sector, you are invited to provide input into this survey. To access the survey please click [here](#).

## SAVE THE DATE – UPCOMING EVENTS

### Astronaut and Human Flight Panel

**Adelaide, Thursday 17 January 2019**

The International Astronaut Event is a long-standing highlight in ISU sessions. Members of the general-public will have an opportunity to ask a broad range of questions of our invited astronaut and obtain their autograph. This year, Mr Paolo Nespoli, European Space Agency Astronaut, will be presenting at the UniSA City West Campus in the Allan Scott Auditorium (commences 6.00pm).

Paolo visited the International Space Station in 2007 as a member of the STS-120 crew and returned for six months from December 2010 to May 2011 with Expedition 26/27. Paolo's third flight to the Space Station was from July to December 2017 as part of a barter agreement between NASA and Italy's ASI space agency.

We are delighted to announce that Mr Paolo Nespoli will deliver a presentation on spaceflight and will provide an insight and opinion, with a particular emphasis on the human factors involved in spaceflight as humans gain more experience in long-duration missions in order to prepare for inter-planetary travel. To register for a seat click [here](#).

### Hazards of Human Space Exploration

**Adelaide, Wednesday 23 January 2019**

Plans for the exploration of deep space over the coming decades will see humans travel deeper into space and for longer periods than at any time in human history. A permanent presence in cis-lunar orbit, exploration of the lunar surface, and missions to the Mars system are all being planned. This new era of space exploration will expose humans to hazards not experienced since the Apollo program of the 1960s and 70s, but magnified by greater distance and much longer exposures. This presentation will use the paradigm of NASA's Human Research Program (HRP) which prioritizes 5 hazards of human spaceflight to explore the ways that the deep space environment can affect human physiology and health, and the challenges that must be overcome for exploration missions to succeed.

Presented by Dr Gordon Cable, a specialist in aerospace medicine and a Senior Aviation Medical Officer for the Australian Defence Force, this is a 'must see' event. To register for a seat click [here](#).

## Cosmic Connections

**Adelaide, Friday 1 February 2019**

We are the result of cosmic evolution. The hot big bang produced hydrogen and helium that became stars. The cores of massive stars produced the dust out of which we are made. Four billion years of evolution on Earth produced the organs of our bodies – the eyes and brain that you are now using to read these words. This lecture will describe how cosmic connections produced us, and point out the many ways in which the universe is inside us.

Presented by astrobiologist, Charles H Lineweaver, an associate professor at the Australian National University's Planetary Science Institute, this is a paid event with limited seating, so bookings are essential.

Tickets are only **\$27.50** per person. Book [here](#) or call 8302 3138.

## Exploding Stars, Dark Energy, & the end of the Universe

**Adelaide, 6 February 2019**

This event is being held at the University of Adelaide's Kerr Grant Lecture Theatre and will be presented by Dr Brad Tucker (Astrophysicist/Cosmologist at the Research School of Astronomy and Astrophysics, Mt. Stromlo

Observatory and the National Centre for the Public Awareness of Science, at the Australian National University).

Dr Tucker will explore how most stars end their lives in brilliant explosions known as a supernova. These massive bursts briefly outshine all the light from the galaxy wherein they occur. The past 15 years has been a “boom” period for supernovae with vast amounts of time and effort being invested in these objects. Not only are they important for understanding the life of stars, but they can be used as cosmological probes to study what the Universe is made of and how it is growing. This use has shown that the Universe is accelerating in its expansion, the subject of the 2011 Nobel Prize, and is being caused by dark energy which will cause the end of the Universe. Dr Tucker will show how our understanding of these objects has been revolutionised using new techniques including the Kepler Space Telescope and what this means for the Universe.

This event is free and booking is not required. Event commences at 8.00pm. (Please note – university security locks entrance doors at 8pm sharp.)

## **16th Australian Symposium on Antennas**

**Sydney, 12 – 14 February 2019**

Next year the 16<sup>th</sup> Australian Symposium on Antennas will be held at MGSM in Sydney. This event is supported by the CSIRO Astronomy and Space Science with the aim of bringing together engineers, scientists and industry representatives working on antennas and related areas to discuss current and projected developments. The Symposium also provides a valuable opportunity for students to take part in a professional meeting. The 16<sup>th</sup> ASA will include poster presentations and industry exhibitors. Prizes will be awarded for the best student oral and poster presentations.

For more information about the event click [here](#). A call for papers has been made and instructions to authors can be found [here](#).

Also check out our [Events](#) page for other events being held around the world.

## **NEW SIAA MEMBERS**

The SIAA Board is extremely pleased to welcome the following new members:

- Mr Ngoniozashe Chingozho, Young Professional
- Mr George Coulloudas, Young Professional
- Mr Geoffrey Dening, Individual
- Ebor Systems Pty Ltd, Small Corporate
- Jones Harley Toole, Small Corporate
- Logi-Tech, Small Corporate
- Ms Rae Madison, Individual
- Mr James Millner, Individual
- Myriota, Small Corporate
- Mr Mark Rice, Individual

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## Seasons Greetings

We wish all of our members and families a safe and restful break over the holiday season, and a very Happy New Year.



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