

# The Southern Hemisphere Space Studies Program

Ady James  
Co-Director SHSSP



UniSA



# Southern Hemisphere Space Studies Program

- Partnership with the University of South Australia (UniSA) and the International Space University (ISU)
  - ISU's third permanent inter-disciplinary space studies offering
  - Eight annual programs in Adelaide since 2011
- SHSSP 2018



50 Participants  
from 15  
Countries

**14<sup>th</sup> Jan – 15<sup>th</sup> Feb 2019**

# Program Structure



# Core Lectures

**Over 50 staff, lecturers and workshop presenters**

## Disciplines

- Engineering 10
- Space Applications 6
- Policy/Law 8
- Life Sciences 6
- Physical Sciences 8
- Business/Management 4

**TOTAL 42 lectures**



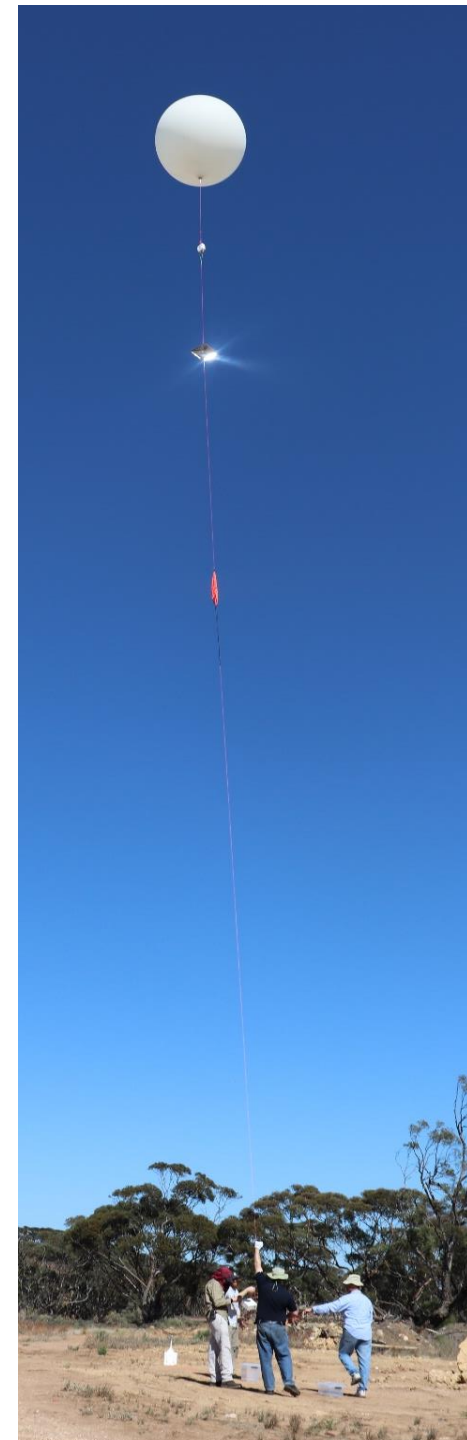


# Workshops and Tours



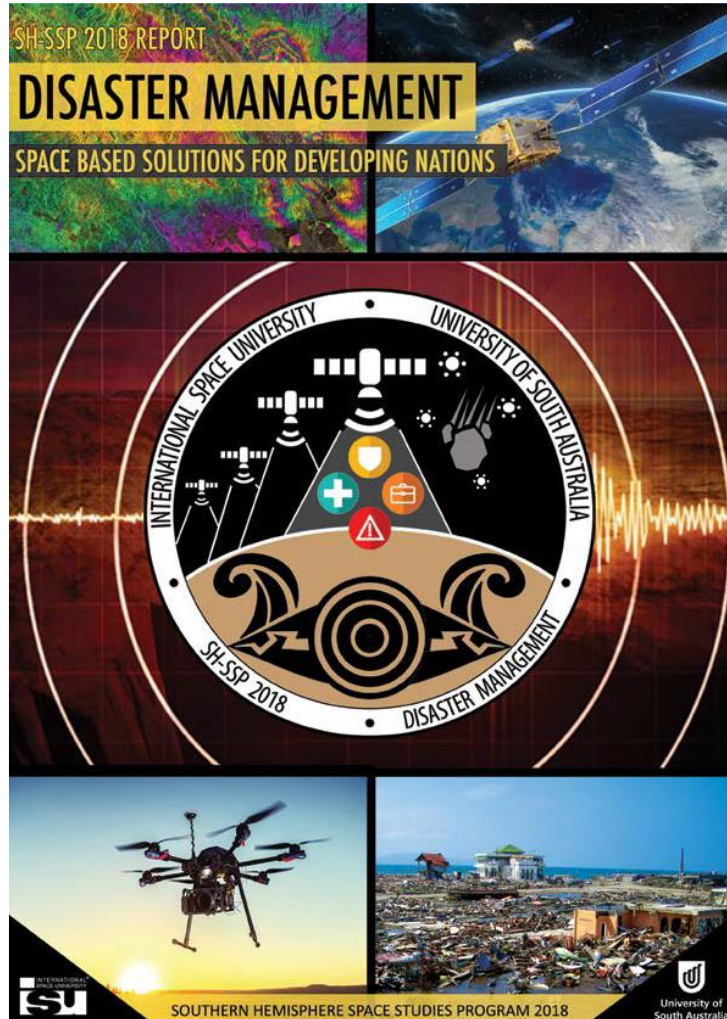
- Satellite Ground Station visit
- Cubesat Workshop
- Spacesuit Design Exercise
- Space History and Heritage Workshop
- Writing and Presenting Skills Training
- Space Public Outreach Workshop
- Space Entrepreneurship Workshop
- Model Rocket Workshop
- 2 Stratospheric Balloon launches

- International Team Building
- Planetarium Visit
- Satellite Tool Kit Workshop
- Crisis Communication Workshop
- Space Tourism Workshop
- Hands-on GIS Activity
- Remote Sensing Workshop
- Space Medicine Workshop
- GPS Workshop



# Team Project

## Disaster Management: Space Based Solutions for Developing Nations



“To identify and enhance the use of current and emerging space-based PNT technologies and services in developing nations’ disaster management systems”

*A jointly authored Team Project involving team building and complex project management*

“An international comparison and analysis of space agencies to provide Recommendations for the benefit of emerging space states.”

## Space Ready: The Launchpad for Emerging Agencies





# Public Events and Exhibitions



Astronaut lecture with Dr Soyeon Yi



Eyes on the Sky exhibition

Woomera exhibition



Space Economy Development panel

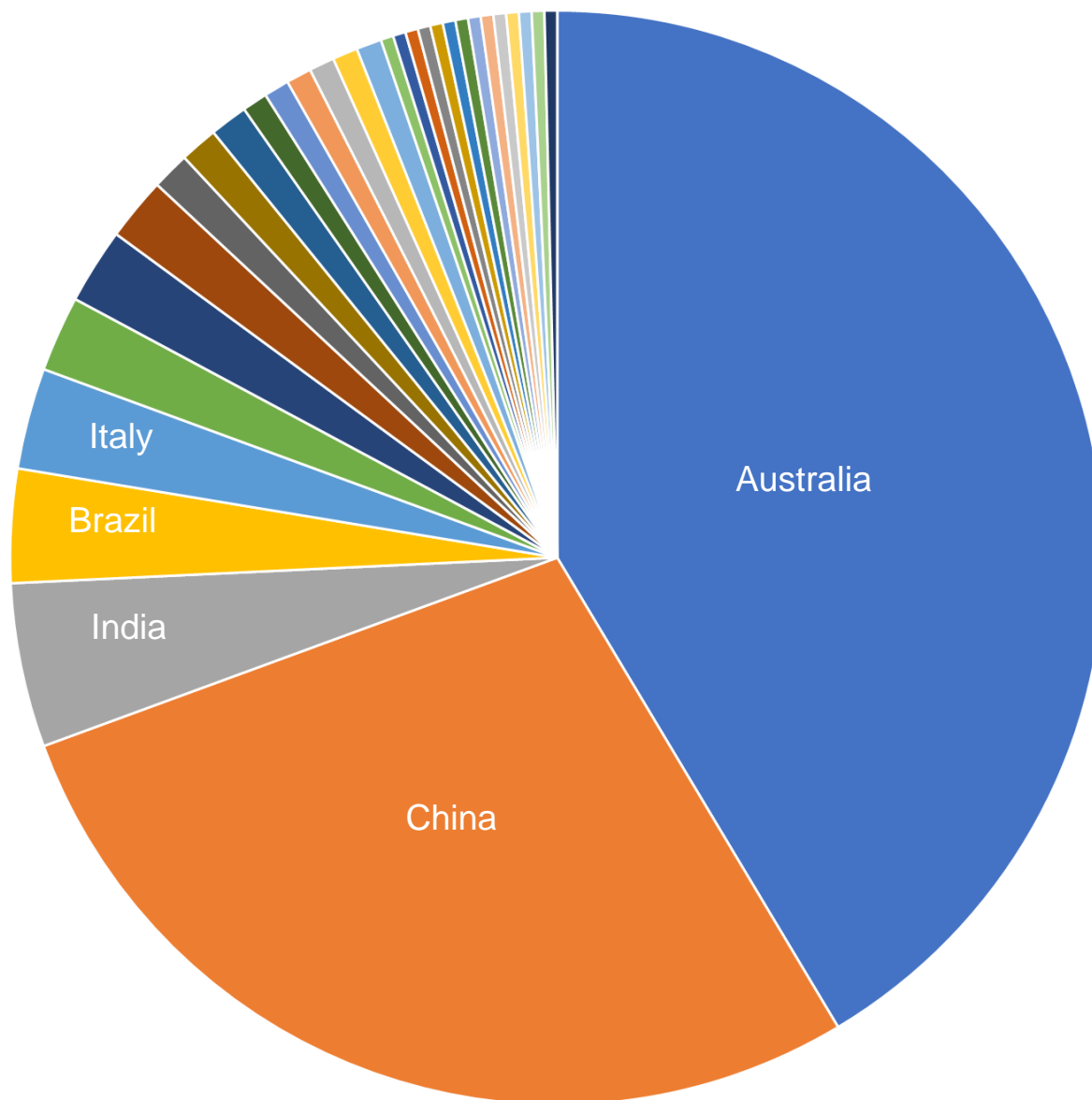


# Social and Cultural Events



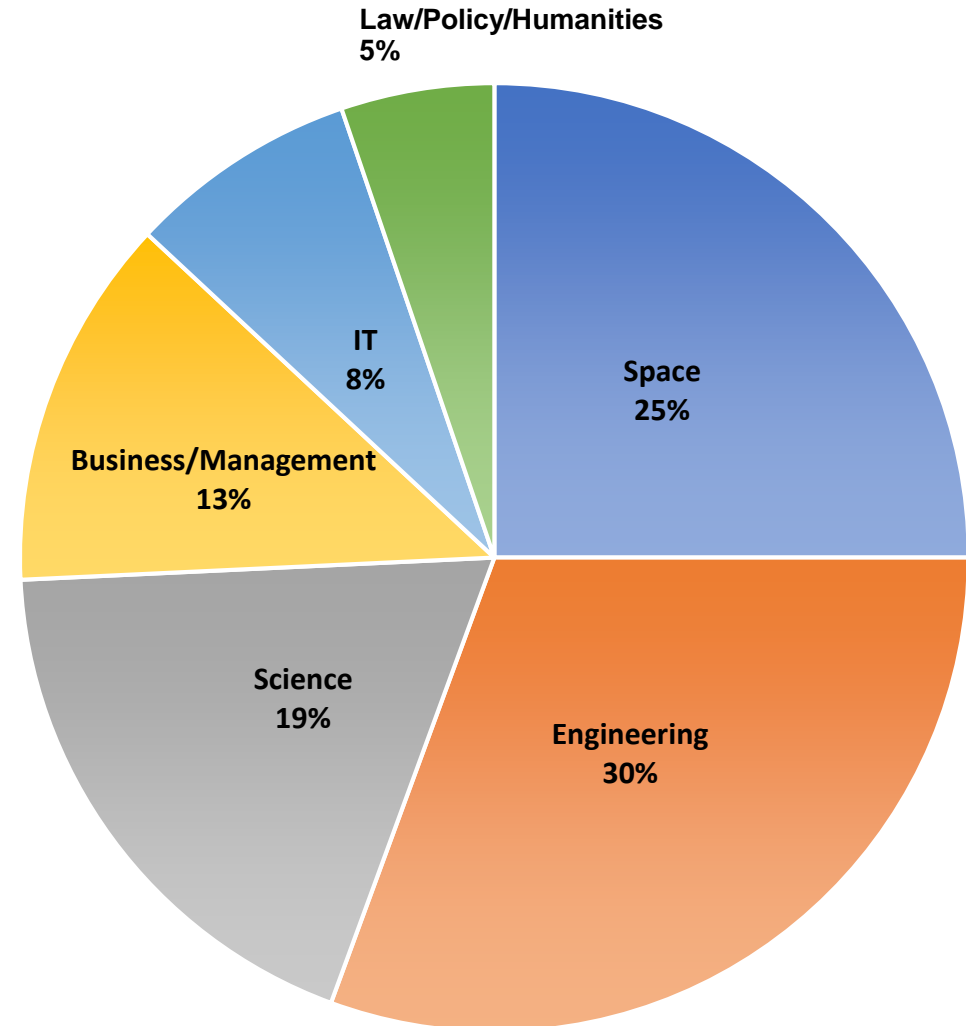
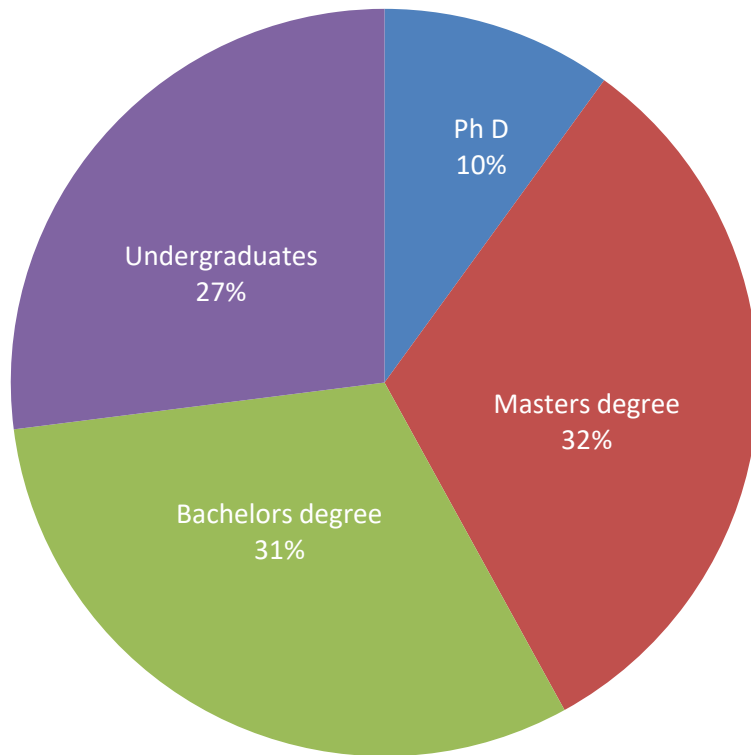


# Countries Represented 2011-2018



Australia	111	41.4%
China	75	28.0%
India	13	4.9%
Brazil	9	3.4%
Italy	8	3.0%
Mexico	6	2.2%
New Zealand	6	2.2%
South Africa	5	1.9%
France	3	1.1%
Spain	3	1.1%
USA	3	1.1%
Costa Rica	2	0.7%
Germany	2	0.7%
Korea	2	0.7%
Nigeria	2	0.7%
Sri Lanka	2	0.7%
UK	2	0.7%
Austria	1	0.4%
Bulgaria	1	0.4%
Canada	1	0.4%
Chile	1	0.4%
Ireland	1	0.4%
Malaysia	1	0.4%
Nepal	1	0.4%
Netherlands	1	0.4%
Oman	1	0.4%
Pakistan	1	0.4%
Philippines	1	0.4%
Russia	1	0.4%
Slovenia	1	0.4%
Trinidad	1	0.4%
<b>Total</b>	<b>268</b>	

# Participant Profiles





# Academic Arrangements

## **Minimum admission qualification:**

Bachelor degree or successful completion of at least two years of full-time undergraduate studies

## **UniSA Executive Certificate and ISU Certificate of Completion**

Awarded on completion of SHSSP

## **Undergraduate Students**

Encouraged to claim credits in relevant programs. Fee savings for Australian Students if credit granted by home institution

## **Graduate Students**

9 units credit towards UniSA Graduate Certificate in Space Studies

Currently have 6 students from SHSSP18 enrolled on this program.

More information on the Graduate Certificate:

<http://programs.unisa.edu.au/public/pcms/program.aspx?pageid=325&sid=297>

# Feedback from previous participants

'One of the finest in my 16 years of international training. Exposed to a very high level of learning and training. Life time experience.'

'I would describe this program as a way for like-minded people to bond irrespective of age or involvement in the field of space. The overwhelming majority of the lectures are really, really interesting and I love all the faculty members and friends that I've met over the past five weeks.'

'Excellent experience, mingling with people from other disciplines and cultures. Learned a lot outside my own discipline.'

'Broad based space awareness program. Excellent experience in developing a broad knowledge of space related activity.'

'Very intense, very broad, very good at giving you direction if you want to enter the space industry and don't really know how to, or which field you want to specialise in. Of course the incredible friendships you make with people on the same wavelength as you.'

'I just spent five weeks learning everything I could about every dimension of "space" while meeting a group of like minded and enthusiastic people - having a great time!'



### **PROGRAM SPONSORS:**

- The South Australian Space Industry Centre,
- Government of South Australia
- Sir Ross and Sir Keith Smith Fund
- The Secure World Foundation
- NASA
- European Space Agency (ESA)
- Italian Space Agency (ASI)
- The Heinlein Trust
- The Ray Williamson Fund
- Study Adelaide
- Asia Pacific Satellite Communications Council
- Astroscale
- The Hawke Centre

### **EVENT SPONSORS:**

- Serafino Wines
- The City of Salisbury
- Nova Systems
- Anthonian Australian Services
- Amateur Radio Experimenters Group – Adelaide
- SA Department of Environment Water
- and Natural Resources
- South Australian Museum
- DSTG
- State Library of South Australia
- MOD UniSA

*Thank you*



Visit:

[www.shssp.education](http://www.shssp.education)

*highlights from 2018*

[www.unisa.edu.au/spaceprogram](http://www.unisa.edu.au/spaceprogram)

*UniSA site*

<http://sh-ssp.isunet.edu/>

*ISU site*

Or E-mail

[inquiries.sh-ssp@isunet.edu](mailto:inquiries.sh-ssp@isunet.edu)



# Thank you

## Any Questions?

