SCAR AAA Tasks for today



John Storey, Chief Officer, AAA

Image: Craig Kulesa



Work program

Our two tasks for this weekend:

- Write the astronomy & astrophysics submission to the "Practical Guide to Enabling the 20-Year Antarctic Science" roadmap.
- Decide how SCAR AAA should evolve over the next four years.



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Three goals to emerge from Auckland, 2014:

- Create an Antarctic Plateau International Astronomical Observatory (APIAO),
- 2. Extend the current site testing searchable database to become a data portal,
- 3. Increase outreach activities directed towards the general public and the international astronomical community, especially in those countries with less developed astronomical programs in Antarctica.



Some other suggestions are as follows:

- Bi-annual workshop (in place)
- Travel grants to attend meetings (in place)
- Promotion of your project/results
- Logistical help such as getting your instrument to Antarctica or moving your instrument from one base to another
- Thesis awards/competition
- How to apply for funding of your project
- Database of Antarctic researchers and area



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Which leads to the current list:

- Bi-annual workshop (in place)
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- Promotion of your project/results
- More visits
- More meetings
- Travel grants for students to conferences
- Promoting particular projects (eg BLAST-TNG) to help find collaborators.
- Group to look at diesel engine pollution
- Support an international KISS user needs meeting
- Workshop for inter-project discussion (Gattini-IR)
- Provide guidance for future relocation eg Gattini-IR to Ridge A.
- Working group to evaluate 20 m optical/nIR telescope for Antarctica? (Guyon)
- Look at engineered ice
- Promoting photonic technologies (Nem)
- Meetings such as this that facilitate networking are the most important.



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Scientific Committee on Antarctic Research stronomy & Astrophysics from Antarctica (AAA)

Timeline:

2006 Planning Group proposed; Hobart, Australia

2008 AAA SRP approved; Moscow, Russia

2009 First Planning Group meeting; Frascati, Italy

2009 Second Planning Group meeting; Rio de Janiero, Brazil

2010 Business meeting of AAA SRP; Buenos Aires, Argentina

2011 Kick-off workshop; Sydney, Australia

2012 Business meeting; Portland, Oregon

2013 Second workshop; Certosa di Pontignano Siena, Italy

2014 Business meeting; Auckland, New Zealand

2015 This meeting; Volcano, Hawaii

2016 Business meeting; Kuala Lumpur, Malaysia

2017 Fourth workshop; where?



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Infrastructure and technology needs (suggestions from this meeting)

- APIAO
- Development of low pollution power sources in 1-20 kW range
- 20 m optical/nIR for Antarctica?
- Engineered ice for towers and other structures?
- Continued development of low power crycocoolers, improved detectors (sensitivity and stability) at > 1THz
- Group to look at diesel engine pollution
- Working group to evaluate 20 m optical/nIR telescope for Antarctica?
- Look at engineered ice
- Promoting photonic technologies

Horizon Scan questions

- Question 69: What happened in the first second after the Universe began?
- Question 70: What is the nature of the dark Universe and how is it affecting us?
- Question 47: How do subglacial systems inform models for the development of life on Earth and elsewhere?