Martha T Muse Prize for Science and Policy in Antarctica
Executive Summary

Title: Martha T Muse Prize for Science and Policy in Antarctica

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Relevant URLs or references to other reports
http://www.museprize.org/
http://www.tinker.org/content/martha-t-muse-prize

Introduction/ Background: The Martha T. Muse Prize for Science and Policy in Antarctica is a prestigious US$100,000 unrestricted award presented to an early or mid stage career researcher in the fields of Antarctic science or policy. The award recognizes and honours individuals with the potential for sustained and significant contribution that enhance the understanding and/or preservation of Antarctica. The Prize is a legacy of the International Polar Year 2007-2008. It is administered by the Scientific Committee on Antarctic Research (SCAR) and awarded by the Tinker Foundation. The Selection Committee for the Prize consists of six members of the Antarctic Community representing as highly respected and diverse backgrounds (geopolitically, by discipline and by gender) as possible.

Important Issues or Factors: Established in 2009, the Muse Prize has gained global recognition within the Antarctic and general science community. Prize recipients have had international representation with winners from South Africa (2009), USA (2010), Portugal (2011), Australia (2012), UK (2013) and New Zealand (2014).

Recommendations/Actions and Justification: In 2013, funding was confirmed for years, 2014-18 inclusive, with a total funding of USD >1 million (for 2014-18). The Tinker Foundation also sponsored a Colloquium of the first 5 winners, in association with the Horizon Scan, in Queenstown, New Zealand in April.

Expected Benefits/Outcomes: The contribution of the Muse Prize towards honoring early and mid career leaders in Antarctic science and policy is in line with SCAR’s aims. The SCAR mission is to “be the leading non-governmental, international facilitator and advocate of research in and from the Antarctic region, to provide objective and authoritative scientific advice to the Antarctic Treaty and others, and to bring emerging issues to the attention of policy makers”. The Muse Prize allows SCAR to contribute towards its mission by meeting strategic plan aims to: i) encourage excellence in Antarctic and Southern Ocean research, II) developing the capacity of early career scientists, and III) identify evolving issues and emerging frontiers in Antarctic science.

Partners: the Tinker Foundation

Budget Implications: The Muse Prize pays a Management fees to SCAR (USD 8,739) and for salaries of EO and AA (USD 14,797), a total of USD 23,536 for 2014.
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Introduction
The Martha T. Muse Prize for Science and Policy in Antarctica was established by the Tinker Foundation in honour of the Foundation’s long time President Ms. Martha Twitchell Muse, and as a lasting legacy of the International Polar Year 2007-2008 (IPY). The Prize recognises outstanding early and mid career researchers whose work increases the understanding and/or preservation of Antarctica, and who have potential for significant creativity and leadership in the future. Recipients of the Prize receive US$ 100,000 of unrestricted funds from the Tinker Foundation.

The Scientific Committee on Antarctic Research (SCAR) administers the Prize on behalf of the Tinker Foundation. The intent of this substantial, unrestricted financial prize is to allow the recipient to pursue intellectual, scientific, and/or personal activities at a critical time in his or her career. The award aims to identify tomorrow’s leaders of Antarctic science and policy and to improve their chances of realizing their potential.

Selection Committee
The Selection Committee for the Prize consists of six members of the Antarctic Community representing as highly respected and diverse backgrounds (geopolitically, by discipline and by gender) as possible. The Selection Committee ensures that four main goals are met in their consideration of nominees. They ensure that: I) the IPY goals are promoted; II) a broad range of Antarctic science and policy topics are considered; III) the diversity and perspectives on Antarctic issues are broadened through time; and IV) the importance of international collaboration in Antarctic science and policy is emphasized. Prize winners are recommended by the Selection committee to the Tinker Foundation, and are confirmed by the Tinker Foundation.

Project Accomplishments
The major accomplishments of the past five years of the Prize have been the establishment and continuation of the Prize and the infrastructure required (e.g. website, Selection Committee). These efforts have culminated in the selection of the Prize Winners: Prof Steven Chown from Stellenbosch University, South Africa (2009), Associate Prof Helen Fricker, Scripps Institute of Oceanography, USA (2010); Dr José Xavier, Institute of Marine Research, Coimbra, Portugal (2011); Dr Stephen Rintoul, CSIRO Marine and Atmospheric Research, Hobart, Australia (2012); Prof Martin Siegert, University of Bristol, UK (2013); Prof Tim Naish, Victoria University Wellington, NZ (2014).

International Interest in the Prize
There has been a lot of interest in the Muse Prize since its beginning. The website set up to host information and nominations on the Muse Prize has received over 15,000 unique visitors representing more than 150 countries since 2009. Interest in the Prize has been increasing over time as reflected by various different metrics.

The increasing popularity of the Muse Prize website is also reflected in the increased number of pages visited each year. The average per cent increase in the number of web pages visited has been 28% per year. The network reach of the website is also increasing over time with each year having more external pages linking to the Muse Prize website. Between 2012 and 2013 there was a multiple fold increase in the number of external web pages linking to the Muse Prize website.
Nominees

The Muse Prize encourages nominees from any country who conduct research in any field of Antarctic science and policy. To date nominees have represented 24 different countries amongst Europe, Asia, Africa, North, and South America. The major field of work of nominees has been well represented by both science and policy, and incorporated research from varied disciplines including: climate science, geology/glaciology, oceanography, and biology, amongst others.

Prize recipients have had international representation with winners from South Africa (2009), the USA (2010), Portugal (2011), Australia (2012), UK (2013) and New Zealand (2014).

Short-term Impact of the Project

The achievement of the award winners has been recognized widely amongst the Antarctic and Arctic research communities; the home institutions and countries of award winners; the general science community; and early career scientists. Both the polar and the general science research community recognizes the award winners and include press releases on their own web pages or their social media channels. The Muse Prize news has been covered by: the International Council of Science (ICSU), the World Climate Research Program (WCRP), the International Arctic Science Community (IASC), SciencePoles the scientific website of the International Polar Foundation, amongst many others. Examples of news releases by the wider science community include postings on websites by: Victoria University Wellington, University of Bristol, University of St Andrews’ Centre for Biological Diversity, Centre of Excellence for Invasion Biology at the University of Stellenbosch, and the Agreement on the Conservation of Albatrosses and Petrels. Early career scientist organisations posting press releases of Muse Prize winners include the Association of Polar Early Career Scientists (APECS).

Longer-term Effects of the Project

The Martha T Muse Prize is intended to be a lasting legacy of the IPY. The goal of the Prize is to provide recognition of the important work being done by key individuals and to call attention to the significance of understanding Antarctica in a time of change.

Meeting SCAR Strategic Plan Aims

The Muse Prize allows SCAR to contribute towards its mission by meeting the following strategic plan aims:

- Encouraging excellence in Antarctic and Southern Ocean research,
- Developing the capacity of early career scientists,
- Identifying evolving issues and emerging frontiers in Antarctic science, and
- Preserving and building on the legacies of the IPY 2007-2008.

The 1st Martha T. Muse Fellows Colloquium: "What will Antarctica and the Southern Ocean look like in 2065?"

A Muse Fellows Colloquium was held in conjunction with the 1st SCAR Antarctic and Southern Ocean Science Horizon Scan in Queenstown, New Zealand, April 2014. The Colloquium panel included past Marta T. Muse Prize Fellows Steven Chown (terrestrial ecologist and policy adviser), Monash University, Melbourne, AUS; Helen Fricker (glaciologist and satellite observational specialist), University of California, San Diego, USA; José Xavier (marine biologist ecologist and marine mammals expert), University of Coimbra and the British Antarctic Survey, Portugal/UK; Steve Rintoul, (physical oceanographic modeller and observationalist) CSIRO, AUS; and Martin Siegert (glaciologist and geologist), Imperial College, London, UK. The Muse Fellows were joined on the panel by Neil Gilbert (policy adviser and Antarctic governance expert), Antarctica New Zealand, NZ and Gary Wilson (marine geologist and geophysicist and paleoclimate expert), Director of the New Zealand Antarctic Research Institute (NZARI), NZ. The video
recordings of the Martha T Muse Fellows Colloquium are now available online (https://www.youtube.com/playlist?list=PL82PML9Zw6RPa7uUqWvNDIBpsN4Q6Je).

**Looking ahead – Future plans**

The Tinker Foundation has agreed to the next five years, 2014-18 inclusive, of full support. An external review of the Prize is being arranged in conjunction with the Tinker Foundation, as specified in the original project proposal.