



**WP 18**

Agenda Item: 2.3.3

Person Responsible: D Liggett

**EXCOM 2015**

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## **Report of the SCAR Humanities and Social Sciences EG (HASSEG)**



## Executive Summary

**Title:** Report of the SCAR Humanities and Social Sciences Expert Group

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### **Introduction/ Background:**

Increasingly, Antarctic institutions and stakeholders acknowledge the costs and benefits of human activities in Antarctica not merely from an economic perspective but also from environmental, ethical, social, cultural and geopolitical standpoints. Policy-makers, educators, scientists and the wider public are required to consider multiple competing factors when forming opinions and courses of action in relation to Antarctica. Understanding the meanings, values, images and narratives that humans attach to the Antarctic has significant implications for human engagement with and activity in the region.

### **Important Issues or Factors:**

Social scientists and humanities researchers have the expertise and tools to lead an academic assessment of questions linked to human presence in the Antarctic, in particular its cultural, political, social and behavioural dimensions. The Humanities and Social Sciences EG (hereon "the group") was initially established (as the Social Sciences Action Group) to carry out research targeted at understanding the range of values underpinning human engagement with Antarctica. With the granting of Expert Group status at the SCAR Delegates Meeting in 2014, the group was renamed to signal a broadening of disciplinary range, and developed a more diverse set of research foci, including those generated by the first SCAR Antarctic and Southern Ocean Horizon Scan. This expansion promises considerable long-term benefits, especially with regard to understanding human behaviour, impacts, influence and decision-making in an Antarctic context.

### **Recommendations/Actions and Justification:**

We request that the Expert Group be maintained into 2016 to consolidate its expansion of research foci, to continue to incorporate a wide range of social sciences and humanities disciplines, and to foster collaborations across these disciplines and with the physical and biological sciences.

### **Expected Benefits/Outcomes:**

The group will continue to raise the profile of SCAR in the public realm and in social sciences and humanities research communities by demonstrating that SCAR supports multi-disciplinary research efforts outside of the physical and biological sciences. Social sciences and humanities enquiries and analyses through this group will materially increase intellectual engagement with Antarctica as place and idea, thereby contributing to polar research, but will also help SCAR to better ground its scientific advice in a thorough understanding of the drivers of human engagement with the Antarctic. A range of academic publications resulting from this research effort will bolster SCAR's scholarly record in the social sciences and humanities.

### **Partners:**

The group collaborates with the SCAR History EG, as highlighted by a joint SCAR History and Social Sciences conference with the theme "Antarctic Wilderness" (Fort Collins, Colorado, 20-23 May 2015), a joint session at the SCAR OSC in 2014 and 2015, and a joint workshop (Cambridge, UK, 1-5 July 2013). Future joint events are under discussion.

### **Budget Implications:**

**The group requests the standard operating budget for SCAR Expert Groups (\$5000 per year).**

# Report of the SCAR Humanities and Social Sciences Expert Group

## 1. Rationale for the Group

The fiftieth anniversary of the adoption and entry into force of the Antarctic Treaty, the fourth International Polar Year, and the centenaries of various Heroic Era Antarctic expeditions have increased general awareness of the polar regions. Over the last few years, declared interest in joining the Antarctic Treaty System by a number of states (most particularly Malaysia, Pakistan and Iran) has ensured regular media interest in the region. Furthermore, in the midst of these developments, the historic international activity in Antarctica – scientific cooperation between participants from now more than 60 countries – appears to be strengthening. Media coverage (including popular books, films, and television programs) and artistic representations and installations have brought information about the Antarctic continent to millions of people around the world and have prompted them to consider the benefits that humankind receives from the time, effort, and money invested in Antarctica, and to increasingly apply generic standards of public scrutiny to policies, processes and established norms of behaviour there. In addition, the costs of human activities in Antarctica, not merely from an economic perspective but also from environmental, social and cultural points of view, are increasingly acknowledged. Policy-makers, educators, scientists and the wider public are required to consider multiple competing factors when forming opinions and courses of action in relation to Antarctica.

Understanding the meanings, values, images and narratives that humans attach to the Antarctic provides insight into human interaction with the region and the decisions that are made in relation to it. Some of these decisions will be limited to a local impact, while others may affect entire global systems, primarily via their effects on climate, culture, and international policy. Social scientists and humanities scholars have the expertise and tools to lead research into the sociocultural factors that underlie human engagement with the region. They can offer different perspectives from those of stakeholders more directly involved in Antarctic science and policy. The Social Sciences Action Group – now the Humanities and Social Sciences Expert Group – was formed in recognition that the physical and biological sciences alone cannot answer all of the pressing questions that humanity's relationship with Antarctic poses; rather biological and physical scientists need to work alongside and together with humanities scholars and social scientists to deal with coming challenges.

## 2. Report on Progress

The group's original aims were 1) understanding the range of human values associated with Antarctica and discussing the ways in which these values may have an impact on human activity there; and 2) developing an open network of social scientists and humanities researchers interested in the intersection of society and polar activities.

In pursuit of these aims, members of the group organized, convened or contributed to a number of conference sessions, including the IPY Science Conferences and the SCAR Open Science Conferences in 2012 and 2014. Furthermore, individual group members gave presentations about the group's goals and work in general and about specific research questions pursued by the group in particular (see Appendix B for a list of sessions and presentations). Under the title *Exploring Antarctic Values*, the proceedings of the group's first workshop are now freely available from the group's website (via <http://antarctica-ssag.org/wp-content/uploads/2013/05/SSAG-proceedings-2013.pdf>). A bound volume (published under the auspices of the Gateway Antarctica Centre of the University of Canterbury, NZ) is available on request.

At the SCAR Delegates Meeting in September 2014, the group was given Expert Group status, and consequently changed its name to indicate officially a broadening of its disciplinary reach that was already underway. Juan Francisco Salazar's term as co-chair came to a close, and literary scholar Elizabeth Leane was elected to the role, with a view to fostering the presence of the humanities as well as the social

sciences within the group. Daniela Liggett continued in the other co-chair position. In early 2015, the group also revised its processes and structures, concluding that a smaller executive committee would make decision-making more efficient. The group's executive committee was accordingly reduced from 13 to 9 (including 2 ex-officio members), through an opt-in process.

With the broadening of the group's official scope to include the humanities, and the achievement of Expert Group status, its goals have also widened. One new point of focus (in addition to the ongoing "Values" project) is "Antarctic Wilderness": an online bibliographical resource was made available on the group's website (<http://antarctica-ssag.org/links-2/ros-wilderness/>) and a conference on the theme was held at Colorado State University, Fort Collins, 20-23 May 2015. Publications from this conference are currently in development. Another focus is the questions generated by the first SCAR Antarctic and Southern Ocean Horizon Scan. In order to put it in the best position to address these questions, the group, jointly with the SCAR History EG, has submitted a White Paper to the Antarctic Roadmap Challenges (ARC) workshop in Tromsø, Norway. A third research node is the role of nationalism in the contemporary Antarctic, with several members of the executive committee working in close collaboration to produce articles and papers on this topic, with a view to producing a larger publication in the future. In addition to these foci, members of the group have published on a wide range of topics relevant to the sociocultural understanding of the Antarctic region, listed in Appendix C.

The relationship and linkages with the SCAR History EG have continued to strengthen. Individual members of the two groups have developed closer working relationships, and the Fort Collins meeting mentioned above was the second joint event the groups have organized (the first was in Cambridge); a third is currently being planned for Hobart in 2017.

Both groups will have considerable presence at the upcoming 2016 SCAR Open Science Conference, where they will hold a joint session, on the topic of "the role of the humanities and social sciences in Antarctic studies," as well as their business meetings.

The group has continued to work with early-career researchers and the Association of Polar Early Career Scientists to develop future capacity in the field of Antarctic social sciences and humanities. In early 2015, as part of the structural review mentioned above, executive committee members elected to include a postgraduate/ECR role on the committee, and PhD candidate Hanne Nielsen took up this position. Some group members directly supervise or are associated with postgraduate students working on Antarctic value projects. These students have published on topics relevant to the group's interests, and their publications are included in Appendix C as well.

The group's achievement of Expert status has been pivotal in generating excitement and enthusiasm within its membership. Together with the History EG, the group has now established a pattern of a biennial conferences alternating with joint sessions and meetings at the SCAR Open Science Conferences. The networks fostered by the group are consolidating and new ones forming. The group is now in an excellent position to address relevant questions generated by the SCAR Antarctic and Southern Ocean Horizon Scan, as well as other challenges that face the region today.

### **3. Future Plans**

Over the next year, the group intends to continue working on achieving its aims and will particularly focus on the following:

- (a) Further promotion of the growth of the polar social sciences and humanities network established in the last five years through SCAR and the group's presence at the SCAR Open Science Conferences, through the group's own workshops and symposia, the group's website, and other channels (e.g. academic publications, media, education and outreach);
- (b) Dedicated multi-disciplinary sessions exploring the role of the social sciences and humanities in the Antarctic research domain, and other emerging themes, at the upcoming SCAR Open Science Conference in 2016 in Kuala Lumpur, Malaysia;

- (c) Preparation of a paper dealing with the history and evolution of the group for an academic polar journal;
- (d) Continued collaboration with the SCAR History EG, and in particular, preparations for a third conference, held jointly with the SCAR History EG, provisionally scheduled for Hobart in 2017;
- (e) Targeted research efforts addressing those questions generated by the first SCAR Antarctic and Southern Ocean Horizon Scan that require social sciences and/or humanities input;
- (f) Increasing trans-polar collaboration with networks and organizations of Arctic social scientists and humanities researchers;
- (g) Publication of further research on Antarctic values in the polar and non-polar academic journals; and
- (h) Discussion regarding future research directions in the broader area of Antarctic social and human sciences.

#### ***4. Budgetary Implications***

The group requests the standard operating budget for SCAR Expert Groups (\$5000 per year).

## **Appendices**

### **A. Group membership and Executive Committee**

A core group of experts was formed in January 2010 and was then expanded over time to ensure a wide geographical and disciplinary representation. This core group assumed the role of an executive committee. The leadership of the group changed in May 2014, when Assoc. Prof. Juan Salazar's term ended. In September 2015, the group achieved Expert Status, and in April-May 2015, conducted a review of its process and committee structure. As a result, a smaller executive committee was formed. Assoc. Prof. Elizabeth Leane was elected by the executive committee as Assoc. Prof. Salazar's successor.

- Prof. Sanjay Chaturvedi (IN) (ex officio): Geopolitics
- Dr Alan Hemmings (AU/NZ/UK): Polar Governance and Policy
- Dr Daniela Liggett (NZ/DE) (co-chair): Environmental Management/Tourism
- Assoc. Prof. Elizabeth Leane (AU) (new co-chair): Literature/Cultural History
- Dr Jessica O'Reilly (US): Anthropology
- Assoc. Prof. Juan Francisco Salazar (AU/CL) (exiting co-chair): Anthropology/Media Studies
- Prof. Akiho Shibata (JP): Law
- Dr Gary Steel (NZ/CA; ex officio): Psychology
- Hanne Nielsen (AU/NZ; postgraduate/ECR member): Literary/Cultural Studies

Aside from the Executive Committee, individual researchers active in the Antarctic social sciences and humanities can sign up as members to the group through the group's website. The wider group are contributing to SCAR-related Antarctic humanities and social sciences conferences, workshops, the SCAR OSCs, and participate in HASSEG meetings, which we hold as business meetings at SCAR OSCs and as open consultation and discussions at our joint SCAR History EG and HASSEG events in odd numbered years.

#### Note:

Country codes in parentheses indicate the country of residence followed by, where different, the country of origin.

AU – Australia; CA – Canada; CL – Chile; DE – Germany; IN – India; NZ – New Zealand; UK – United Kingdom; US – USA

## B. List of conferences, workshops, conference sessions and presentations (2014- 2015)

### Conferences

#### SCAR History, Humanities and Social Sciences Meeting

(Fort Collins, US, 20-23 May 2015)

“Antarctic Wilderness”

Convenor: Adrian Howkins

(Joint conference with History EG)

#### IPTRN International Polar Tourism Research Network Conference IV

(Christchurch, NZ, 29 August – 4 September 2014)

“Polar Tourism Gateways”

Co-convenors: D. Liggett, E. Stewart

(4 workshops during the 2010-13 period)

### Conference Sessions

#### SCAR Open Science Conference

(Auckland, NZ, 25-28 August 2014)

“Imagination and Science” Roundtable

Convenor: Juan Francisco Salazar

#### SCAR Open Science Conference

(Auckland, NZ, 25-28 August 2014)

“The Presence of the Past & Methods and Innovations in Polar Social Sciences”

Co-convenors: D. Liggett, C. Lüdecke, G. Steel, E. Stewart, A. Elzinga

(4 conference sessions during 2010-13 period)

### Presentations

#### SCAR History, Humanities and Social Sciences Meeting

(Fort Collins, US, 20-23 May 2015)

Hemmings, A.D., Chaturvedi, S., Leane, E., Liggett, D. and Salazar, J.F. (2015). “Wilderness in a Time of Increasing Antarctic Nationalism” [Keynote Conference Presentation]

Leane, E. (2015). “The Role of the Environment in the Antarctic Thriller”

Liggett, D. & Hall, M. (2015). “Protected but not understood: Wilderness in the Antarctic Treaty System”

Nielsen, H. (2015). “Selling the Story: Media, Advertising, and the Heroic Era”

Shibata, A. (2015). “Antarctic Horizon Scan, JARE and International Law”

#### Association of Polar Early Career Scientists Online Conference: New Perspectives in the Polar Sciences.

(Online, 16 March 2015)

Nielsen, H. (2015). “Antarctica in Advertising: Media Representations of the South”

#### World Meteorological Organization (WMO) Commission for Atmospheric Sciences (CAS) World Weather Research Program (WWRP) Polar Prediction Project (PPP) Societal and Economic Research and Applications (SERA) Meeting

(Ottawa, Canada, 12-13 March 2015)

Liggett, D. (2015). “Human engagement with the Antarctic”

#### The Arctic and Antarctica: Different Currents of Change (New Zealand Institute of International Affairs)

(Wellington, NZ, 27 Feb. 2015)

Hemmings, A.D. (2015) “The Common Challenge: International Equity in the Arctic and Antarctic.” [Invited Conference Presentation]



SCAR Standing Scientific Groups – Joint Session

(Auckland, NZ, 25-28 August 2014)

Liggett D., Salazar, J.F., Leane, E. (2014). “Contributions of the Social Sciences and Humanities”

SCAR Open Science Conference

(Auckland, NZ, 25-28 August 2014)

Leane, E. (2014). “The Macquarie Island Penguin Harvesting Controversy: Science, Celebrity and Media in Subantarctic Wildlife Campaign”

IPTRN International Polar Tourism Research Network Conference IV

(Christchurch, NZ, 29 August – 4 September 2014)

Leane, E., Salazar, J.F., and Winter, T. (2014). “Mawson’s Huts Replica Museum: Antarctic Gateway Tourism, National Heritage, and Local Place-Making”

Liggett, D. and Swanson, J. (2014). “Antarctic Tourism Policy of the Gateway States: Current Comparisons and Future Opportunities”

Association of Polar Early Career Scientists (APECS) Symposium

Auckland, NZ, 24 August 2014)

Nielsen, H. (2014). “The Power of Social Media”

European Association of Social Anthropologists (EASA) International Conference

(Tallinn, Estonia, July 31-August 4, 2014)

Salazar J.F. (2014). “An ethnographic account of everyday mobilities in King George Island, Antarctica”

Gateway Antarctica Research Meeting

(Christchurch, NZ, July 2014)

Nielsen, H. (2014). “From Shelter to Showpiece: Antarctic Station Design”

Antarctic Sovereignty: A Certain Uncertainty – An Expert Conversation

(Sydney Democracy Network, University of Sydney, 10 June 2014)

Hemmings, A.D. (2014). Invited participant & presenter (<http://theconversation.com/in-conversation-what-does-the-future-hold-for-antarctica-28607>)Aurora Expedition Centenary Symposium

(University of Adelaide, Adelaide, Australia, 26 Feb. 2014)

Leane, E. (2014) “High-Latitude Lassitude: Laziness and Leisure in the AAE”

Travelling – Writing – Tasmania

(Launceston, Aus., 6-7 Feb, 2014).

Leane, E. (2014). “Tasmania from Below: Antarctic Explorers’ Accounts of a ‘Southern Gateway’”

(Over 50 presentations during 2010-13 period)

## C. List of publications (2014-15)

### Forthcoming

- De la Barre, S., Maher, P., Dawson, J., Hillmer-Pegram, K., Huijbens, E., Lamers, M., Liggett, D., Müller, D., Pashkevich, A. & Stewart, E. (2015/16) Tourism and Arctic Observation Systems: Exploring the Relationships. *Polar Research*.
- Dodds, K. and Hemmings, A.D. (2015) Polar Oceans: Sovereignty and the Contestation of Territorial and Resource Rights. In H.D. Smith, J.L. Suarez de Vivero and T.S. Agardy (Eds), *Handbook of Ocean Resources and Management*. Abingdon: Routledge.
- Engelbertz, S., Liggett, D. & Steel, G. (2015/16) Values Underlying the Management of Ship-borne Tourism in the Antarctic Treaty Area. *The Polar Journal* 5(2).
- Gilbert, N. and Hemmings, A.D. (2015) Antarctic Mythbusting. *Antarctic* 33(3).
- Hemmings, A.D. (2015) Commercial Harvest in Antarctica: Exploitation of Antarctic Marine Living Resources. In D. Liggett, Y. Cook and B. Storey (Eds), *Exploring the Last Continent: An Introduction to Antarctica*. New York: Springer.
- Hemmings, A.D., Chaturvedi, S., Leane, E., Liggett, D. and Salazar, J.F. (2015) Nationalism in Today's Antarctic. *The Yearbook of Polar Law* 7.
- Leane, E. (2016) The Novel in English in Antarctica to 1950. In R. Crane, J. Stafford & M. Williams (Eds.) *The History of the Novel in English, Volume IX: The World Novel to 1950*. Oxford: Oxford UP.
- Leane, E. (2016) Nonhuman Travellers and Travellees: Interspecies Relations in Travel Writing. In A. Pettinger and T. Youngs (Eds) *Ashgate Research Companion to Travel Writing*. Ed. Alasdair Pettinger and Tim Youngs. Aldershot, Hampshire: Ashgate.
- Leane, E. (2015/16) Tasmania from Below: Early Antarctic Travellers' Accounts of a 'Southern Gateway.' *Studies in Travel Writing* 18/19.
- Liggett, D. & Stewart, E. (2016) Sailing in icy waters: Antarctic cruise tourism development, regulation and management. In Weeden, C. & Dowling, R. (Eds). *Cruise Ship Tourism* (2<sup>nd</sup> Edition). Wallingford: CABI.
- Liggett, D. & Stewart, E. (2016) The changing face of political engagement in Antarctic tourism. In Dodds, K., Hemmings, A.D. & Roberts, P. (Eds). *Handbook on the Politics of Antarctica*. Cheltenham: Edward Elgar.
- Liggett, D. (2015) Antarctic tourism. In Liggett, D. Cook, Y., Storey, B., & Meduna, V. (Eds.) *Exploring the last continent: An introduction to Antarctica*. Dordrecht, Berlin, Heidelberg, New York: Springer.
- Stewart, E. & Liggett, D. (2015). Polar Tourism. In Jafari, J. & Honggen, I. (Eds) *Encyclopedia of Tourism*. Dordrecht, Berlin, Heidelberg, New York: Springer.
- Swanson, J., Liggett, D. & Roldan, G. (2015/16)\ Conceptualizing and enhancing the argument for port state control in the Antarctic gateway states. *The Polar Journal* 5(2).

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- Hemmings, A.D. (2015) Antarctic Treaty System. In J-F. Morin and A. Orsini (Ed.), *Essential Concepts of Global Environmental Governance*: 5-7. Abingdon: Routledge/Earthscan.
- Hemmings, A.D. (2015) The Antarctic Treaty System [The Year in Review – 2013]. *New Zealand Yearbook of International Law* 11: 270-277.
- Hemmings, A.D. (2015) Review of: Molenaar, Elferink and Rothwell, The Law of the Sea and the Polar Regions. *New Zealand Yearbook of International Law* 11([2013]): 338-340.
- Hemmings, A.D. and Gilbert, N. (2015) Responsibility for Regulating Human Activity in Antarctica. *Antarctic* 33(2): 14-15.
- Leane, E. The Sound of Antarctic Poetry and the Poetry of Antarctic Sound. In B. Hince, R. Summerson and A. Wiesel (Eds.), *Antarctica: Music, Sounds, and Cultural Connections*: 107-120. Canberra: ANU Press, 2015.
- Liggett, D. (2015) An Erosion of Confidence? The Antarctic Treaty System in the 21st Century. In Ali, S.H. & Pincus, R. (Eds). *Diplomacy on Ice: Energy, the Environment and Emergent Cooperation in the Arctic and Antarctic*: 61-71. MIT Press.
- Liggett, D. (2015) Book Review: Understanding earth's polar challenges: International Polar Year 2007-2008 – summary by the IPY Joint Committee. *The Polar Journal* 5(1): 228-231.
- O'Reilly, J. (2015) Glacial Dramas: Typos, Projections, and Peer Review in the Intergovernmental Panel on Climate Change in *Climate Cultures: Anthropological Perspectives on Climate Change*: 107-26. J. Barnes and M. Dove (Eds). Yale University Press.
- Nielsen, H. (2015) Staging the south: two contemporary Antarctic plays. *The Polar Journal* 5(1): 203-217.
- Salazar, J.F. (2015) Anticipating Antarctica in the 21st century: a view from the social sciences. *ILAIA: Advances in Chilean Antarctic Science* 2: 36-40.
- Steel, G. D. (2015) Polar, social, science: a reflection on the characteristics and benefits of the polar social sciences. *Polar Journal* 5(1): 1-7.

**2014**

- Dawson, J., Johnston, M.E. and Stewart, E.J. (2014) Governance of Arctic expedition cruise ships in a time of rapid environmental and economic change. *Ocean & Coastal Management* 89: 88-99.
- Dodds, K. and Hemmings, A.D. (2014) Recent developments in relations between the United Kingdom and the Argentine Republic in South Atlantic/Antarctic region. *Polar Record* 50(2): 119-127.
- Fern, S., Nash, K., & Leane, E. (2014) Encounters with Antarctic Animals in ABC's *Catalyst*. In G. L. Burns and M. Paterson (Eds.) *Engaging with Animals*: 73-90. Sydney: Sydney University Press.
- Hemmings, A.D. (2014) The Antarctic Treaty System [The Year in Review - 2012]. *New Zealand Yearbook of International Law* 10: 237-243.
- Hemmings, A.D. (2014) Antarctic Treaty System. In Jean-Frédéric Morin & Amadine Orsini (Eds.) *Essential Concepts of Global Environmental Governance*. Abingdon: Routledge/Earthscan.
- Hemmings, A.D. (2014) The Changing Face of Non-State Actors in Antarctica. *Antarctic* 32(3): 30-32.
- Hemmings, A.D. (2014) New Zealand in the Antarctic Treaty System. *Antarctic* 32(4): 47-48.
- Hemmings, A.D. (2014) Obituary: Professor Bernard P. Herber (1929-2014). *The Polar Journal* 4(2): 418-421.
- Hemmings, A.D. (2014) Re-justifying the Antarctic Treaty System for the 21<sup>st</sup> Century: Rights, Expectations and Global Equity. In Richard C. Powell & Klaus Dodds (Eds) *Polar Geopolitics: Knowledges, Resources and Legal Regimes*: 55-73. Cheltenham & Northampton MA, Edward Elgar.

- Hemmings, A.D. (2014) Rights, Expectations and Global Equity: Re-justifying the Antarctic Treaty System for the 21st Century. In R. Powell and K. Dodds (Eds), *Polar Geopolitics? Knowledges, Resources and Legal Regimes*: 55-73. Cheltenham: Edward Elgar.
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- Kennicutt, M.C. II, Chown, S.L., Casano, J., Liggett, D., Peck, L., Massom, R., Rintoul, S., Storey, J., Vaughn, D. & Wilson, T., et al. (2014) A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. *Antarctic Science* 16: 1–16.
- Leane, E. (2014). Icescape Theatre Staging the Antarctic. *Performance Research: A Journal of Performing Arts* 18(6): 18-28.
- Leane, E., Philpott, C. & Nielsen, H. (2014). Scott at the Opera: interpreting *Das Opfer* (1937). *The Polar Journal* 4(2): 354-376.
- Leane, E. & Narraway, G. (2014). Things from Another World: Dogs, Aliens, and Antarctic Cinema. In A. McLean (Ed). *Cinematic Canines: Dogs and their Work in the Fiction Film*: 181-195. New Jersey: Rutgers University Press.
- Nielsen, H. (2014). From Shelter to Showpiece: The Evolution of Antarctic Stations. COMNAP Report. Summer 2013/14 ([https://www.comnap.aq/SiteAssets/SitePages/fellowships/From\\_Shelter\\_to\\_Showpiece\\_HNielsen06252014.pdf](https://www.comnap.aq/SiteAssets/SitePages/fellowships/From_Shelter_to_Showpiece_HNielsen06252014.pdf)).
- O'Reilly, J. (2014) The West Antarctic Ice Sheet in the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC): a key threat, a key uncertainty. *Proceedings of the XXXVII Antarctic Treaty Consultative Meetings*.
- Philpott, C and McIntyre, S and Leane, E. (2014) Songs of the South: A Song Cycle for Mezzo Soprano and Piano Based on Lyrics from the Heroic Age of Antarctic Exploration. *International Journal of Contemporary Composition* 9: 1-43.

**2010-13: over 100 publications (see previous reports)**