



**XXXIV SCAR Delegates Meeting
Kuala Lumpur, Malaysia, 29-30 August 2016**

Humanities and Social Sciences Expert Group (HASSEG)

Executive Summary

Authors: Daniela Liggett, Elizabeth Leane

Important Issues or Factors:

Biennial conferences are held jointly with the History EG, as well as sessions in alternate years at the SCAR OSC. The executive committee was reviewed and streamlined. A commitment to capacity building and outreach are shown by the inclusion of an early-career researcher and IT/communications officer on the executive committee. Members of the group were involved in the SCAR Horizon Scan process and the Antarctic Roadmap Challenges (ARC) workshop.

The focus of the group expanded from its original 'values' project to look at questions around wilderness, culture and nationalism in relation to Antarctica, and to embrace a diverse range of projects among its membership. The group also launched a deliberate strategy to become more inclusive of the humanities, changing its name to include this field and appointing a new co-chair from within the humanities.

The group intends to continue working to achieve its aims through promotion of the polar social sciences and humanities network, the group's own workshops and symposia, website and other channels, publishing research papers, collaboration with other groups, both inside and outside SCAR, and 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.

Recommendations/Actions and Justification:

- (1) We recommend that the Delegates agree to the establishment of a **Humanities and Social Sciences SSG**.
- (2) We also request that the Delegates continue to support HASSEG activities as proposed in this report to ensure the continued incorporation of a wide range of social sciences and humanities disciplines under the umbrella of SCAR, to further consolidate research activities in these fields as well as to foster collaborations across these disciplines and with the physical and biological sciences.

Budget Implications:

For 2017/18, \$4000 (plus funds carried over from 2016) for the HASSEG conference, plus \$1000 for website development and maintenance.

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Summary of Activities from 2014-2016

2014-16 was a period of consolidation for the SCAR Humanities and Social Sciences EG (HASSEG). Having achieved EG status in September 2015, the group continued to grow steadily in size and productivity. Biennial conferences, held jointly with the History EG, became a recognized, regular pattern, as did sessions in alternative years at the SCAR OSC. The executive committee was reviewed and streamlined. Increased early-career researcher (ECR) presence in the group was signaled by the inclusion of an ECR position on the executive committee, and a commitment to outreach reinforced by the inclusion of an IT/communications officer on the committee. Members of the group submitted questions to the SCAR Horizon Scan, and the group as a whole submitted a White Paper to the Antarctic Roadmap Challenges (ARC) workshop.

The focus of the group expanded from its original 'values' project to look at questions around wilderness, culture and nationalism in relation to Antarctica, and to embrace a diverse range of projects among its membership. Relations with the History EG became stronger, with the joint commitment to the biennial conferences, and a sub-group tasked with ensuring frequent and smooth coordination of activities between HASSEG and the History EG. The group also launched a deliberate strategy to become more inclusive of the humanities, changing its name to include this field and appointing a new co-chair from within the humanities.

Recommendations that Delegates and Chief Officers should consider (if any):

(1) We recommend that the Delegates agree to the establishment of a **Humanities and Social Sciences SSG**.

(2) We also request that the Delegates continue to support HASSEG activities as proposed in this report to ensure the continued incorporation of a wide range of social sciences and humanities disciplines under the umbrella of SCAR, to further consolidate research activities in these fields as well as to foster collaborations across these disciplines and with the physical and biological sciences. *(No voting/approval necessary as HASSEG has already been confirmed until 2018.)*

Date/Year Group Approved: 2014 (EG-status was granted)

Date/Year Group is to End: Currently approved until 2018, with the potential to be extended further

Major Activities and Significant Progress from past 2 years

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. 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, HASSEG's 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, as is evident from the publication record in Appendix A.

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 in addition to their joint business meeting they will both hold sessions, with HASSEG's exploring the role of the humanities and social sciences in Antarctic studies.

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 A as well.

The group's achievement of Expert Group status has been pivotal in generating excitement and enthusiasm within its membership. The group is growing steadily and now has over a hundred members from six continents. Annual publications (including in press) have roughly doubled since the group's beginning in 2010. 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.

Major Future Initiatives and Actions, including rough timeline, for at least the next 2 years

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

1. 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 (www.antarctica-ssag.org), and other channels (e.g. academic publications, social and traditional media, education and outreach) (ongoing);
2. Preparation of a paper dealing with the history and evolution of the group for an academic polar journal (2016-17);
3. 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 mid-2017;
4. 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 (ongoing);
5. Increasing trans-polar collaboration with networks and organizations of Arctic social scientists and humanities researchers (ongoing);
6. Publication of further research on Antarctic values in the polar and non-polar academic journals (ongoing);
7. Preparation for a session at the SCAR OSC 2018;
8. Discussion regarding future research directions in the broader area of Antarctic social and human sciences (ongoing);
9. Using online platforms to promote the current HASSEG research projects to a wider audience, and to provide an accessible forum for discussion with ECRs and those who are geographically distant; and
10. Increasing our profile among non-polar environmental humanities and social sciences group that might be interested in our work.

The future of the Humanities and Social Sciences within SCAR:

The review panel undertaking the most recent review of SCAR's structure and activities stressed that "[t]here is a need to clearly define SCAR's role vis-à-vis the integration of social and natural sciences, as well as the SCAR niche(s) related to fundamental/basic sciences vs Integrated/Interdisciplinary science." (Recommendation 2). This recommendation reflects global developments that highlight the need for a cross-cutting integrated approach involving both the natural and social sciences in an attempt to address complex research questions. The recently proposed merger of the International Council for Science (ICSU) with the International Social Science Council (ISSC) represents the most prominent example (see the ICSU and ISSC Draft Planning Framework, July 2016). Similar to ICSU and ISSC, SCAR is asked to show resolve to facilitate a greater integration of the natural and social sciences and to define a role for the social sciences from a structural perspective. The formation of a **Humanities and Social Sciences SSG** within SCAR would show such resolve.

Humanities and social sciences scholar have been actively involved in SCAR business through SCAR's History Expert Group and Humanities and Social Sciences Expert Group (HASSEG). These two groups have enjoyed a growing membership and increasing levels of activity and presence at SCAR Open Science Conferences, and through the groups' own biennial conferences. Structurally, these two Expert Groups currently sit directly under the SCAR Executive Committee and outside any specific SSG. As Expert Groups themselves, their potential for broadening their research activities, including addressing Horizon Scan questions is limited to those activities that fit within their current profiles. Establishing a Humanities and Social Sciences SSG would solve the structural dilemma SCAR is faced with by having the History EG and HASSEG sit outside the existing SCAR SSG framework, would enhance SCAR's research portfolio with the potential of situating new AGs and EGs under a Humanities and Social Sciences SSG, would send positive signals to ICSU/ISSC, and would enable a closer collaboration on humanities and social sciences questions with the International Arctic Science Committee, which currently has a Social and Human Working Group as one of their four core groups (similar to SCAR's SSGs). Bringing the social sciences and humanities together under one umbrella SSG, rather than continuing to split them between the two existing groups, is plainly a rational development.

A new Humanities and Social Sciences SSG would make a considerable contribution to SCAR's research portfolio by housing under its umbrella designated AGs and EGs that tackle topics such as science communication, Antarctic socio-ecological systems, the history of polar science, tourism, heritage management, the popular framing of Antarctic issues, and specific Horizon Scan questions. We request that the Delegates agree to establish a Humanities and Social Sciences SSG (see Recommendation 1 on page 1).

Proposed Budget for 2017 and 2018

Month / Year	Purpose/ Activity	Amount (in USD)	Contact Name	Contact Email
June 2017	HASSEG conference	\$4000 (plus carry-over from 2016)	Elizabeth Leane	elizabeth.leane@utas.edu.au
By Dec. 2017	Website development and maintenance	\$1000	Juan Francisco Salazar / Daniela Liggett	j.salazar@uws.edu.au

Budget Justification (please indicate % of budget to support early career scientists and scientists from countries with small Antarctic programmes):

In support of the HASSEG conference in 2017, we requested leftover funds from 2016 to be carried over into 2017 (and are still awaiting a decision in this regard). All of the funds carried over from 2016 as well as the funds mentioned above for the conference (USD 2000) would be used to in support of organizing the conference and enabling participation of early-career researchers. In line with processes applied in preparation of our previous conferences, the majority of these funds will be used to support the participation of early-career researchers: travel fellowships will awarded on a competitive basis, and minimal or no conference registration fees will be charged.

External Linkages – Support and Coordination beyond SCAR:

External linkages, aside from those within SCAR (with the History EG in particular), linkages exist to the International Arctic Social Sciences Association (IASSA) and the International Arctic Science Committee (IASC), in particular the IASC Human and Social Sciences Working Group. Furthermore, a number of national contacts, e.g. to various National Antarctic Programmes (including New Zealand and Chile), to the Antarctic Office in Christchurch, the Royal Society Panel of Experts on Antarctic Science (in New Zealand), also exist. A number of HASSEG members are involved in the World Meteorological Organization's World Weather Research Program's (WWRP) Polar Prediction Project (PPP) and the Year of Polar Prediction (YOPP), and several HASSEG members are delegates to the Antarctic Treaty Consultative Meetings on national and NGO delegations. HASSEG members also serve on the APECS Advisory Board or as APECS mentors in support of building capacity among future Antarctic researchers. Finally, HASSEG members are active participants in the annual Polar Law Symposiums, most of which are held in Arctic states, and which facilitate bi-polar legal research coordination.

Outreach, Communication and Capacity Building Activities:

HASSEG maintains a stand-alone website (in addition to SCAR's) with information about the group's activities, a membership list featuring researcher profiles, and a form allowing new members to sign up to receive information about news and events. HASSEG also maintains a Facebook page and an email list (our own and through [PolarPol](#)). Individual members of HASSEG are involved in education and outreach through public talks, webinars and through APECS. In addition, we provide information about SCAR and HASSEG in postgraduate teaching (e.g. Postgraduate Certificate in Antarctic Studies; PhD seminars). The biennial conferences with the History EG offer us opportunities to engage with the wider public. Our members present at a wide range of conferences (in addition to SCAR OSCs), and are represented on various national panels (e.g. New Zealand Royal Society Panel of Experts on Antarctic Science).

The Humanities and Social Sciences EG is producing a poster to highlight activities for the SCAR Open Science Conference.

Publications of your group to date:

See Appendix A for relevant publications since 2010.

Volunteer Reviewers of Fellowship Applications:

Daniela Liggett, Elizabeth Leane, Hanne Nielsen, Alan Hemmings, Jessica O'Reilly (and other members of the HASSEG group as appropriate – please contact HASSEG for assistance in locating colleagues with requisite expertise)

Webpages:

We are using a separate website (<http://antarctica-ssag.org/>) and [Facebook](#) as our main means of communicating. If database functions and a more interactive design (e.g. forums, etc.) were to be provided through the SCAR website, we would consider moving our primary presence to the SCAR website.

Members:

Chair(s) Duration of Term

First Name	Last Name	Affiliation	Country	Email	Date Started	Date Term is to End
Elizabeth	Leane	University of Tasmania	Australia	elizabeth.leane@utas.edu.au	Feb 2015	TBC
Daniela	Liggett	University of Canterbury	New Zealand	Daniela.liggett@canterbury.ac.nz	Jan 2010	TBC

Elizabeth Leane

Elizabeth began her academic career in science, finishing a BSc in physics before moving into English studies. Initially working in the field of literature and science, and particularly science communication, after coming to the University of Tasmania Elizabeth developed a research interest in the Antarctic, where she travelled as an Australian Antarctic Arts Fellow in early 2004. She currently holds an ARC Future Fellowship split between UTAS's School of Humanities and Institute for Marine and Antarctic Studies. Her work focuses on the representation of the Antarctic in a wide range of texts and she often collaborates with academics in other fields, from musicology to marine biology. Her books include *Reading Popular Physics* (Ashgate, 2007), *Antarctica in Fiction* (Cambridge, 2012) and *South Pole: Nature and Culture* (Reaktion, 2016); and the co-edited collections *Considering Animals* (Ashgate, 2011) and *Imagining Antarctica* (Quintus, 2011).



Keywords:

- Literature
- Fiction
- Narrative
- Representation
- Cultural History
- Space, Place and Text
- Travel Writing
- Antarctic Gateway Cities

Daniela Liggett:

Daniela’s research interests include environmental management and tourism regulation in extreme environments (with a particular focus on the polar regions), tourism practice and theory, value systems as well as decision-making on environmental and climate change issues. She is currently involved in research projects focussing on (a) human activities and their impacts in the McMurdo Dry Valleys (Antarctica), (b) Antarctic futures, (c) Antarctic gateway cities, (d) Antarctic geopolitics (in particular decision-making in relation to tourism politics and environmental management), and (e) the complex relationships between users and providers of weather and climate information. The latter project is associated with the World Meteorological Organization’s (WMO) Polar Prediction Project (PPP). Methodologically, Daniela is interested in qualitative research that crosses different disciplines and challenges conventional research paradigms.



Keywords:

- Polar tourism
- Environmental management of wilderness regions
- Values in decision-making
- Antarctic governance
- Antarctic futures
- International regimes
- Antarctic gateway cities
- Interdisciplinary polar research
- Use of polar weather and climate information

Website: <http://www.canterbury.ac.nz/spark/researcher.aspx?researcherid=4044011>.

Other members of the Executive Committee

First Name	Last Name	Affiliation	County	Email
Alan D.	Hemmings	University of Canterbury	New Zealand/Australia	ahe30184@bigpond.net.au
Sanjay	Chaturvedi	Panjab University	India	csgiorg@gmail.com
Hanne	Nielsen	University of Tasmania	New Zealand/Australia	hanne.nielsen@utas.edu.au
Jessica	O’Reilly	Indiana University	USA	jloreill@indiana.edu
Juan Francisco	Salazar	University of Western Sydney	Australia/Chile	J.Salazar@westernsydney.edu.au
Akiho	Shibata*	Kobe University	Japan	akihos@kobe-u.ac.jp
Gary	Steel*	Lincoln University	New Zealand	Gary.steel@lincoln.ac.nz

* *ex officio* members of the HASSEG Executive Committee

APPENDIX A: Relevant HASSEG member publications (2010-2016)

Forthcoming:

- Ahmad Firdaus, A.S., Rashidah, A.R., & Theam Foo, N. (In Press). Strengthening scientific literacy on Polar regions through education, outreach and communication (EOC). *International Journal of Environmental and Science Education*.
- Ahmad Firdaus, Noor Azzah, S., A.S., Rashidah, A.R., & Theam Foo, N. (In Press). Malaysia's EOC strategy in strengthening the science knowledge, awareness and national interest towards the Polar regions. *International Journal of Environmental and Science Education*.
- Brady, A.-M. (In Press, 2016). The past in the present: Antarctica in China's national narrative. In K. Dodds, A.D. Hemmings & P. Roberts *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.
- Dodds, K., Hemmings, A.D., & Roberts, P. (Eds.) (In Press, 2016). *Handbook on the politics of Antarctica*. Cheltenham: Edward Elgar.
- Hemmings, A.D. (In Press, 2016). Antarctic politics in a transforming global geopolitics. In K. Dodds, A.D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.
- Hemmings, A.D., Dodds, K., & Roberts, P. (In Press, 2016). Introduction: the politics of Antarctica. In K. Dodds, A.D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.
- Hemmings, A.D. (In Press, 2016). The hollowing of Antarctic governance. In P.S. Goel, R. Ravindra, & S. Chattopadhyay (Eds.), *The white world: Science and geopolitics of the Arctic-Antarctic-Himalaya*. New Delhi: Lights Foundation.
- Leane, E. (In Press). Antarctica in literature and the Popular Imagination. In M. Nuttall, T.R. Christensen & M. Siegert (Eds.), *Routledge handbook of the Polar regions*. London: Routledge.
- Leane, E. (In Press). Antarctic diaries and heroic reputations: Changing the subject In P. Roberts, L.-M. Van der Watt & A. Howkins, *Antarctica: A Continent for the Humanities* (pp. 27-51). London: Palgrave Macmillan.
- Leane, E. (In Press 2016). Fictionalizing Antarctica. In K. Dodds, A. D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of Antarctica*. Cheltenham: Edward Elgar.
- Leane, E. (In Press). Unstable places and generic spaces: Thrillers set in Antarctica. In L. Fletcher (Ed.), *Popular fiction and spatiality: Reading genre settings*. London: Palgrave Macmillan.
- Liggett, D. & Stewart, E. (In Press). Sailing in icy waters: Antarctic cruise tourism development, regulation and management. In C. Weeden & R. Dowling (Eds), *Cruise Ship Tourism* (2nd Edition). Wallingford: CABI.
- Liggett, D. & Stewart, E. (In Press 2016). The changing face of political engagement in Antarctic tourism. In K. Dodds, A.D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.
- Mancilla, A. (In Press). Review of: *The Polar Regions. An Environmental History* by Adrian Howkins. *Polar Record*.
- O'Reilly, J. (Forthcoming). *The Technocratic Antarctic: an ethnography of scientific expertise and environmental governance*. Ithaca: Cornell University Press.

Nielsen, Hanne. (In Press 2016). Selling the South: Marketing and Commercialisation of Antarctica". In K. Dodds, A.D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.

Salazar, J.F. (In Press 2016). Antarctica in digital culture: Politics of representation and visualization in art and science. In K. Dodds, A.D. Hemmings & P. Roberts (Eds.), *Handbook on the Politics of the Antarctic*. Cheltenham: Edward Elgar.

Salazar J.F. (In Press, 2016). Polar worlds: Arctic and Antarctic visions. In S. Abram & A. Lund, *Tourism ecologies in the European High North: Green ice*. Palgrave Pivot.

Salazar J.F. (In Press, 2016) Polar infrastructures. In L. Hjorth, H. Horst, A. Galloway & G. Bell (Eds.) *The Routledge Companion to Digital Ethnography*. Routledge.

2016:

Ahmad Firdaus, A.S., Rahidah, A.R., Norizan , M.N., & Kamarulazizi, I. (2016). Antarctic values and Malaysia's involvement in Antarctica: Perceptions among young citizens of Malaysia. *Polar Record*. doi:10.1017/S0032247415000790

Atkin, A.J. (2016). From *Southern Cross* to *Aurora*: A brief history of advances in Antarctic terrestrial magnetic research, 1898-1914. The *Aurora Symposium 2014*, University of Adelaide and South Australian Museum at <http://www.samuseum.sa.gov.au/collections/humanities/australian-polar-collections/aurora-symposium-2014>

Brady, A.-M. (2016). *China as a Polar Great Power*. Washington, DC and New York: Wilson Press and Cambridge University Press.

De la Barre, S., Maher, P., Dawson, J., Hillmer-Pegram, K., Huijbens, E., Lamers, M., Liggett, D., Müller, D., Pashkevich, A., & Stewart, E. (2016) Tourism and Arctic observation systems: Exploring the relationships. *Polar Research* 35. <http://dx.doi.org/10.3402/polar.v35.24980>.

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Gilbert, N., & Hemmings, A.D. (2015). Antarctic Mythbusting. *Antarctic* 33(3), 29-31.

Hemmings, A.D. (2016). Commercial harvest in Antarctica: Exploitation of Antarctic marine living resources. In D. Liggett, Y. Cook & B. Storey (Eds.) *Exploring the Last Continent: An Introduction to Antarctica* (pp. 413-428). New York: Springer.

Hemmings, A.D. (2016). The Antarctic Treaty System (The Year in Review 2014). *New Zealand Yearbook of International Law* 12, 234-239.

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* (pp. 201-226). Oxford: Oxford UP.

Leane, E. (2016). *South Pole: Nature and culture*. London: Reaktion.

Leane, E. (2016). Tasmania from below: Early Antarctic travellers' accounts of a 'southern gateway.' *Studies in Travel Writing* 20(1), 34-48.

Leane, E., Winter, T., & Salazar, J.F. (2016). Caught between nationalism and internationalism: replicating histories of Antarctica in Hobart. *International Journal of Heritage Studies* 22(3),

214-227.

Liggett, D. (2016). Destination icy wilderness: Tourism in Antarctica. In D.Liggett, B. Storey, Y. Cook & V. Meduna (Eds.), *Exploring the last continent: An introduction to Antarctica* (pp. 379-398). Dordrecht, Berlin, Heidelberg, New York: Springer. http://dx.doi.org/10.1007/978-3-319-18947-5_18.

Liggett, D., Storey, B., Cook, Y., & Meduna, V. (Eds.) (2016). *Exploring the last continent: An introduction to Antarctica*. Dordrecht, Berlin, Heidelberg, New York: Springer. <http://dx.doi.org/10.1007/978-3-319-18947-5>.

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O'Reilly, J. (2016). Sensing the Ice: field science, models, and expert intimacy with knowledge. *Journal of the Royal Anthropological Institute* 22(1), 27-45.

Philpott, C. (2016). Sonic explorations of the southernmost continent: four composers' responses to Antarctica and climate change in the twenty-first century. *Organised Sound* 21(1), 83-93.

Philpott, C., & Leane, E. (2016). Making music on the march: Sledging songs of the 'Heroic Age'. *Polar Record*. <http://doi:10.1017/S0032247416000255>.

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Brady, A.-M. (2015). The emerging politics of Antarctica: What it means for New Zealand. In P. Kennedy (Ed.), *The Arctic and Antarctica: Differing currents of change* (pp. 56-65). Wellington: NZIIA.

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Engelbertz, S., Liggett, D., & Steel, G. (2015). Values underlying the management of ship-borne tourism in the Antarctic Treaty Area. *The Polar Journal* 5(2), 334-360. <http://dx.doi.org/10.1080/2154896X.2015.1080492>.

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Appendix B: List of Acronyms

APECS – The Association of Polar Early Career Scientists

ARC – Antarctic Roadmap Challenges

HASSEG – SCAR Humanities and Social Sciences Expert Group

IASC – International Arctic Science Committee

IASSA – International Arctic Social Sciences Association

ICSU – International Council for Science

PPP – WMO's Polar Prediction Project

SCAR – Scientific Committee on Antarctic Research

SSAG – Social Sciences Action Group

WMO – World Meteorological Association

WCRP – World Climate Research Program