

Ryan M. Meyer

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Affiliate, Consortium for Science, Policy, and Outcomes, Arizona State University
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Education

Arizona State University, Tempe, AZ – Ph.D. Biology and Society	2010
Bowdoin College, Brunswick, ME – B.A. Biology	2002

Positions Held

CALIFORNIA OCEAN SCIENCE TRUST

Program Director (and various other titles)	Oct, 2011 – Aug, 2017
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INDEPENDENT CONSULTING

CSIRO (Commonwealth Scientific and Industrial Research Organization)	2011 - 2014
DIISR (Department of Industry, Innovation, Science, and Research)	2010 - 2011

ARIZONA STATE UNIVERSITY

Co-Instructor: Science, Technology, and Public Affairs	2008-2009
Assistant Editor: Science and Public Policy	2006-2007
Research Analyst for ASU Office of Sustainability Initiatives	2005-2006

THE EARTH INSTITUTE AT COLUMBIA UNIVERSITY

Program Manager	2002 – 2005
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Scholarly Publications

Meyer, R., E. Meyer, L. Sievanen, and A. Freitag. (*in press*). Informing Ocean and Coastal management. In J. A. Cigliano & H. L. Ballard (Eds.), Citizen Science for Coastal and Marine Conservation. Routledge (Taylor & Francis).

Parris, A., G. Garfin, K. Dow, R. Meyer, and S.L. Close, editors. (2016). Climate in Context: Science and Society Partnering for Adaptation. John Wiley & Sons.

Parris, A., Close, S. L., Meyer, R., Dow, K., & Garfin, G. (2016). Evolving the practice of Regional Integrated Sciences and Assessments. In Parris, A., G. Garfin, K. Dow, R. Meyer, and S.L. Close, (Eds.) Climate in Context: Science and Society Partnering for Adaptation, (pp. 255–262). John Wiley & Sons.

McNie, E., Bednarek, A., Meyer, R., & Parris, A. (2016). Designing Usable Environmental Research. In B. H. MacDonald, S. S. Soomai, E. M. De Santo, & P. G. Wells (Eds.), Science, Information, and Policy Interface for Effective Coastal and Ocean Management (pp. 203–230). CRC Press.

Freitag, A., R. Meyer, and L. Whiteman. (2016) Strategies Employed by Citizen Science Programs to Increase the Credibility of Their Data. *Citizen Science: Theory and Practice*. 1(1): 1-11

Cigliano, J. A., R. Meyer, H. L. Ballard, A. Freitag, T. B. Phillips, & A. Wasser. (2015) Making Marine and Coastal Citizen Science Matter. *Ocean and Coastal Management*. 115: 77-87

Meyer, R., S McAfee, & E. Whiteman. 2015. How California is mobilizing boundary chains to integrate science, policy and management for changing ocean chemistry. *Climate Risk Management* 9: 50-61

Preston, B. L., Rickards, L., Dessai, S., & Meyer, R. M. (2013). Science and Successful Adaptation. In Successful Adaptation: Linking Science and Practice in managing Climate Change Impacts. Moser, S. and Boykoff, M. (eds.). Routledge.

Meyer, R. (2012). [Finding the true value of US climate science](#). *Nature*. 482(7384): 133.

Meyer, R. (2012). Uncertainty as a Science Policy Problem. *Climatic Change*. 110(1):1-2

Meyer, R.M., Leith, P.B. (2011). Reward Research That Informs Policy. *Nature* 474, 450.

Meyer, R. (2011). The Public Values Failures of Climate Science in the US. *Minerva*. 40: 47-70.

Pirtle, Z., R. Meyer, A.L. Hamilton. (2010). What Does It Mean When Climate Models Agree? A Case for Assessing Independence Among General Circulation Models. *Environmental Science and Policy*. 13: 351-361.

Meyer, R. (2006). Climate Change Hearings and Policy Issues. *Science*. 314:1681d-1682.

Select Policy and General Audience Writing

Frameworks for Evaluating the National Climate Assessment: Workshop Report. US Global Change Research Program. Washington, DC. December, 2014.

<http://downloads.globalchange.gov/nca/workshop-reports/NCA-Evaluation-Frameworks-Workshop-Report-2014-final.pdf>

Citizen Science and Ocean Resource Management in California: Guidance for forming productive partnerships. California Ocean Science Trust, CA, USA. August, 2014.

<http://oceansciencetrust.org/monitoring/?page=citizen-science>

"Getting the questions right: Developing interview techniques to understand science needs." Emily Knight and Ryan Meyer, Leopold Leadership 3.0. <http://web.stanford.edu/group/leopoldleadership/cgi-bin/wordpress/?p=1403>

"Scientists and policymakers: Wave goodbye to the valley of death." Paul Harris, Ryan Meyer, and Peat Leith. Political Science blog, Hosted by the Guardian, May 31, 2013.

<http://www.theguardian.com/science/political-science/2013/may/31/scientists-policymakers-goodbye-valley-death>

Putting the Pieces Together: Designing Expert Judgment Processes for Natural Resource Decision-Making. California Ocean Science Trust, Oakland, CA, USA. December, 2013. <http://calost.org/expert-judgment/>

Science Policy: Beyond Budgets and Breakthroughs. Paul Harris and Ryan Meyer. Discussion Paper on Enhancing Australian Government Science Policy. Canberra, ACT, 2011.

http://publicpolicy.anu.edu.au/public_policy_community/content/doc/Science Policy - Discussion paper - FINAL.pdf

Useable Science: A Handbook for Decision Makers. SPARC. 2010. Report prepared by Science Policy and Assessment for Research on Climate.

http://sciencepolicy.colorado.edu/sparc/outreach/sparc_handbook/index.html

Conference Papers and Posters

(first and sole author, unless otherwise noted)

Meyer, R., and H. L. Ballard. "What Makes Citizen Science Useful for Environmental Decision-Making?" Paper delivered at the Citizen Science Association Conference, May 20, 2017.

Presentation and workshop at International Marine Conservation Congress (IMCC): Meyer, R. and Freitag, A. "Making Citizen Science Matter for California's Marine Protected Areas: engaging diverse knowledge producers in monitoring for adaptive management." Glasgow, August, 2014.

Presentation at Coastal and Estuarine Research Foundation (CERF) annual meeting: "Science Integration: Developing tools, approaches, institutions and careers for connecting knowledge with action." San Diego, November, 2013.

Tutorial Presentation: "What does it mean to understand the science needs of decision makers?" at special session of the aquatic sciences meeting of the Association for the Sciences of Limnology and Oceanography (ASLO): "Catapults, Ferries, and Bridges: Getting Aquatic Science Results to Policy and Management." New Orleans, LA, February, 2013.

Presentation at ANU Young Scholars Conference: "The role of values shaping climate science and adaptation research in the US and Australia." Australian National University, Canberra, July, 2010.

Poster at Climate Futures. "What is Successful Adaptation? Science policy challenges for an emerging, outcomes-focused discipline." Gold Coast, 29 June, 2010.

American Meteorological Society (AMS) Annual Meeting: co-chair of two sessions on climate adaptation, and presentation on "Politics, Values, and Decision Making in Climate Science." Phoenix, January, 2009.

Third Prize poster presented at the Gordon Research Conference on Science and Technology Policy: "Modeling Complex Systems: Conceptual Issues for Use in Science Policy." Big Sky, MT. August, 2008.

Paper presented at the Copenhagen International Public Value Workshop: "Characterizing the Public Value of Interagency Climate Science." University of Copenhagen, May, 2008.

"Robustness of GCMs: The Policy Context." Paper presented at the Annual meeting of the Society for the Social Studies of Science (4S) in Montreal, Canada. October, 2007.

"Intractable Debate: Why Congressional Hearings on Climate Fail to Advance Policy." Paper presented at the Interdisciplinary Graduate Conference on Science and Technology (STGlobal), Washington, DC, April 21-22, 2006.

Invited Presentations

"What does it mean to engage with decision makers (in California)?" Invited. Annual Pi Day Lecture. Cal Poly San Luis Obispo, March, 2016

“Uncertainty and Coastal Management: A boundary organization perspective.” Invited talk at UCSB Workshop entitled Uncertainty and Coastal Management, Santa Barbara, 2015.

Facilitator and Presenter for a session at the Pew Fellows annual meeting: “Roles of science, advocacy, and policy in marine conservation.” Sausalito, November 2014.

Guest Lecture at Santa Clara University Environmental Science Seminar Series: “Science Integration: What is it, and why does it matter?” Santa Clara, 2013,

Guest Lecture at Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE): “Old Myths and New Myths in Science and Policy.” Canberra, Australia, February, 2013.

Facilitated and presented at the ANU H.C. Coombs Policy Forum workshop, Linking Research and Policy: working at the boundary. “The Study of Boundary Organizations: Lessons for Research and Practice.” Canberra, Australia, February, 2013.

Facilitated and presented at the University of Tasmania colloquium, Making Knowledge for Intensively and Extensively Managed Landscapes and Seascapes: What works and what doesn't? “Science Integration at the California Ocean Science Trust.” Hobart, Australia, February, 2013.

“Evaluating the Science that We Do.” CSIRO Climate Adaptation Flagship Primary Industries Theme Meeting. Kingscliff NSW, Australia. May, 2011.

“Prediction and Policy: Limitations and Alternatives.” Department of Climate Change and Energy Efficiency (DCCEE) Adaptation Policy Forum. Canberra, Australia. March, 2011.

“Adaptation Research Policy: What’s missing from the conversation.” RMIT Climate Adaptation Program. Melbourne, Australia. March, 2011.

“Challenges in Science Policy.” Australian National Institute for Public Policy (ANIPP) course for policy professionals: Identifying and Managing Key Challenges in Science Policy. Canberra, Australia. March, 2011.

“The Prediction Imperative: Rethinking the Public Responsibility of Science Policy Decision-Makers.” Delivered at Risk Frontiers, Macquarie University, Sydney, Australia. January, 2011.

Honors, Awards, Funding

Co-author on successful David & Lucile Packard Foundation proposal: “Citizen Science & MPA Monitoring: Informing adaptive management through enriched local knowledge systems.” 2013. (\$125,000)

Co-PI on successful multi-institution proposal to the NOAA Coastal and Ocean Climate Applications program: “Piloting Non-Stationary Approaches to Floodplain Management: Supporting Local Communities and Informing National Policy.” 2012. (\$257,000)

Doctoral research featured in Nature: “Value Judgments” Nature 473, 123–124 (12 May 2011) [doi:10.1038/473123b](https://doi.org/10.1038/473123b)

Fulbright Post-Graduate Scholarship for study in Australia, 2009-2010.

Work Experience

CALIFORNIA OCEAN SCIENCE TRUST

Program Director	Oct, 2016 – Aug, 2017
Senior Scientist	May, 2013 - Oct, 2016
Associate Scientist	Jan, 2013 - May, 2013
Science Integration Fellow	Oct, 2011 - Dec, 2012

INDEPENDENT CONSULTING

CSIRO (Commonwealth Scientific and Industrial Research Organization) 2011 - 2014
Support CSIRO's Climate Adaptation Flagship in targeting research toward public values.

Science Editor, FutureCoast Feb - May, 2014
FutureCoast is a partner in Columbia University's PoLAR initiative promoting climate science education, with funding from NSF.

DIISR (Department of Industry, Innovation, Science, and Research) 2010 - 2011
Provided input to DIISR on approaches to science policy in the context of Australian federal government via presentations, "short course," and Department-commissioned discussion paper.

CONSORTIUM FOR SCIENCE, POLICY, AND OUTCOMES (CSPO)

Graduate Researcher 2005 - 2010
Established new frameworks for assessing public policy and analyzing knowledge systems, to improve the interaction between science and society.

Other Positions Held at Arizona State University:

- Co-Instructor: Science, Technology, and Public Affairs Spring, 2008, 2009
- Assistant Editor: Science and Public Policy 2006-2007
- Research Analyst for ASU Office of Sustainability Initiatives 2005-2006

THE EARTH INSTITUTE AT COLUMBIA UNIVERSITY

Program Manager 2002 – 2005
Worked with faculty and researchers to promote sustainable development and fight global poverty, through management and coordination of advisory bodies, research units, special task forces, new offices and faculty members. I managed a large effort to develop ten-year vision and strategy for an organization of over 20 research units with over 600 faculty and research staff.

Service and Other Experience

Advancing the Science of Knowledge Use 2017 – 2018
Year-long Working Group at the NSF-funded Socio-Environmental Synthesis Center (SESYNC) in Annapolis, Maryland.

Evaluating the National Climate Assessment March - Sept, 2014
Member of the workshop planning committee; presenter, and facilitator for an event focused on frameworks for evaluating the third National Climate Assessment, as well as future assessments.

Peer Review Ongoing
Grant programs: NASA applications program; NOAA Climate Program Office; NOAA National Estuarine Research Reserve (NERRS) Science program.

Journals: Ecology and Society; Global Environmental Change; Climatic Change; WIRES Climate Change; Environmental Management; Science and Public Policy; Environmental Science and Policy; Science, Technology, and Human Values; Minerva; Policy Sciences; Environment and Planning C.

Engineers Without Borders, Australia

2010 - 2011

Collaborated on the “Dialogues on Country” Program aimed at building cultural understanding between Australian Indigenous communities and water engineers in the Murray-Darling Basin.

<http://vimeo.com/album/1543637>

Sound Production for THE LOCAL, Melbourne

Spring, 2011

Edited and produced sound for community art installation in Melbourne (www.holdon-letgo.com).

Community Radio, 3RRR

Fall, 2010

Training in basics of live and pre-recorded broadcasting at community radio station.

Blogging About Science and Society

2005 - present

- Contributor to Leopold Leadership 3.0 on issues related to connecting science and society. <http://web.stanford.edu/group/leopoldleadership/cgi-bin/wordpress/>
- Writing on current issues in science and policy, with particular focus on the politics of climate change and climate adaptation: Adapt Already. <http://adaptalready.wordpress.com/>
- Contributor to “Prometheus, the science policy web log,” one of the most popular US blogs on issues surrounding science policy and climate change (discontinued June, 2009). <http://sciencepolicy.colorado.edu/prometheus/>