

HPSCGA49: Science Policy in an Era of Risk and Uncertainty

[View Online](#)

@article{Andrea J. Nightingale_2003, title={A Feminist in the Forest: Situated Knowledges and Mixing Methods in Natural Resource Management}, volume={2}, url={http://hdl.handle.net/1842/1405}, number={1}, journal={ACME: An International E-Journal for Critical Geographies}, author={Andrea J. Nightingale}, year={2003}, pages={77-90} }

@article{Andrew, Stirling_2007, title={Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle}, volume={8}, url={https://www.embopress.org/toc/14693178/2007/8/4}, DOI={10.1038/sj.embor.7400953}, number={4}, journal={EMBO reports}, author={Andrew, Stirling}, year={2007}, month={Apr}, pages={309-315} }

@book{Arnoldi_2009, address={Cambridge}, title={Risk: an introduction}, volume={Key concepts}, publisher={Polity}, author={Arnoldi, Jakob}, year={2009} }

@book{Bammer_Smithson_2008, address={London}, title={Uncertainty and risk: multidisciplinary perspectives}, volume={Earthscan risk in society series}, publisher={Earthscan}, author={Bammer, Gabriele and Smithson, Michael}, year={2008} }

@article{Bruno, Latour_1996, title={On actor-network theory: A few clarifications}, volume={47}, url={https://www.jstor.org/stable/40878163}, number={4}, journal={Soziale Welt}, publisher={Nomos Verlagsgesellschaft mbH}, author={Bruno, Latour}, year={1996}, pages={369-381} }

@book{Burgess_Alemanno_Zinn_2016, address={Florence}, title={Routledge Handbook of Risk Studies}, publisher={Taylor and Francis}, author={Burgess, Adam and Alemanno, Alberto and Zinn, Jens}, year={2016} }

@article{C. J. Fearnley_W. J. McGuire_G. Davies_J. Twigg_2012, title={Standardisation of the USGS Volcano Alert Level System (VALS): analysis and ramifications}, volume={74}, url={https://link.springer.com/journal/445/volumes-and-issues/74-9}, DOI={10.1007/s00445-012-0645-6}, number={9}, journal={Bulletin of Volcanology}, author={C. J. Fearnley and W. J. McGuire and G. Davies and J. Twigg}, year={2012}, month={Nov}, pages={2023-2036} }

@article{Carolina Garcia_Carina J. Fearnley_2012, title={Evaluating critical links in early warning systems for natural hazards}, volume={11}, url={https://www.tandfonline.com/toc/tenh20/11/2}, DOI={10.1080/17477891.2011.609877}, number={2}, journal={Environmental

Hazards}, author={Carolina Garcia and Carina J. Fearnley}, year={2012}, month={Jun}, pages={123-137} }

@article{D. J. Spiegelhalter_H. Riesch_2011, title={Don't know, can't know: embracing deeper uncertainties when analysing risks}, volume={369}, url={https://royalsocietypublishing.org/toc/rsta/2011/369/1956}, DOI={10.1098/rsta.2011.0163}, number={1956}, journal={Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences}, author={D. J. Spiegelhalter and H. Riesch}, year={2011}, month={Dec}, pages={4730-4750} }

@article{D. Jamieson_1996, title={Scientific Uncertainty and the Political Process}, volume={545}, url={https://journals.sagepub.com/toc/anna/545/1}, DOI={10.1177/0002716296545001004}, number={1}, journal={The ANNALS of the American Academy of Political and Social Science}, author={D. Jamieson}, year={1996}, month={May}, pages={35-43} }

@article{Day_Fearnley_2015, title={A classification of mitigation strategies for natural hazards: implications for the understanding of interactions between mitigation strategies}, volume={79}, DOI={10.1007/s11069-015-1899-z}, number={2}, journal={Natural Hazards}, author={Day, Simon and Fearnley, Carina}, year={2015}, month={Nov}, pages={1219-1238} }

@article{Deborah Dixon_Harriet Hawkins_Mrill Ingram_2011, title={Art: Blurring the boundaries}, volume={472}, url={https://www.nature.com/}, DOI={10.1038/472417a}, number={7344}, journal={Nature}, publisher={Nature Publishing Group.}, author={Deborah Dixon and Harriet Hawkins and Mrill Ingram}, year={2011}, month={Apr}, pages={417-417} }

@article{Deborah Trumbull et al., title={Thinking scientifically during participation in a citizen-science project}, volume={84}, url={http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1098-237X(200003)84:2%3C265::AID-SCE7%3E3.0.CO;2-5/abstract}, number={2}, journal={Science education}, publisher={Wiley}, author={Deborah Trumbull et al.}, pages={265-275} }

@book{Douglas_Wildavsky_1982, address={Berkeley}, title={Risk and culture: an essay on the selection of technical and environmental dangers}, url={https://www.jstor.org/stable/10.1525/j.ctt7zw3mr}, publisher={University of California Press}, author={Douglas, Mary and Wildavsky, Aaron B.}, year={1982} }

@article{G. A. Bradshaw_Jeffrey G. Borchers_2000, title={Uncertainty as Information: Narrowing the Science-policy Gap}, volume={4}, url={https://www.ecologyandsociety.org/vol4/iss1/}, DOI={10.5751/ES-00174-040107}, number={1}, journal={Conservation Ecology}, author={G. A. Bradshaw and Jeffrey G. Borchers}, year={2000} }

@article{G. Rowe_2005, title={A Typology of Public Engagement Mechanisms}, volume={30}, url={https://journals.sagepub.com/toc/sthd/30/2}, DOI={10.1177/0162243904271724}, number={2}, journal={Science, Technology & Human Values}, author={G. Rowe}, year={2005}, month={Apr}, pages={251-290} }

@article{George E. Marcus_1995, title={Ethnography in/of the World System: The

Emergence of Multi-Sited Ethnography}, volume={24},
url={http://www.jstor.org/stable/2155931}, journal={Annual Review of Anthropology},
publisher={Annual Reviews}, author={George E. Marcus}, year={1995},
pages={95-117} }

@book{Gibbons_Limoges_Nowotny_Schwartzman_Scott_Trow_1994, address={London},
title={The new production of knowledge: the dynamics of science and research in
contemporary societies},
url={http://ebookcentral.proquest.com/lib/ucl/detail.action?docID=1024114},
publisher={SAGE Publications}, author={Gibbons, Michael and Limoges, Camille and
Nowotny, Helga and Schwartzman, Simon and Scott, Peter and Trow, Martin A.},
year={1994} }

@book{Gigerenzer_2014, address={New York}, title={Risk savvy: how to make good
decisions}, publisher={Viking}, author={Gigerenzer, Gerd}, year={2014} }

@article{Gilberto C. Gallopin_Silvio Funtowicz_Martin O'Connor_Jerry Ravetz_2001,
title={Science for the Twenty-First Century: From Social Contract to the Scientific Core},
volume={53}, url={https://onlinelibrary.wiley.com/toc/14682451/2001/53/168},
DOI={10.1111/1468-2451.00311}, number={168}, journal={International Social Science
Journal}, author={Gilberto C. Gallopin and Silvio Funtowicz and Martin O'Connor and Jerry
Ravetz}, year={2001}, month={Jun}, pages={219-229} }

@article{H. Nowotny_2005, title={The Increase of Complexity and its Reduction:
Emergent Interfaces between the Natural Sciences, Humanities and Social Sciences},
volume={22}, url={https://journals.sagepub.com/toc/tcsa/22/5},
DOI={10.1177/0263276405057189}, number={5}, journal={Theory, Culture & Society},
author={H. Nowotny}, year={2005}, month={Oct}, pages={15-31} }

@article{H.M. Collins_Robert, Evans_2002, title={The Third Wave of Science Studies},
volume={32}, url={https://journals.sagepub.com/toc/sssb/32/2},
DOI={10.1177/0306312702032002003}, number={2}, journal={Social Studies of
Science}, author={H.M. Collins and Robert, Evans}, year={2002}, month={Apr},
pages={235-296} }

@article{J. Burgess_A. Stirling_J. Clark_G. Davies_M. Eames_K. Staley_S.
Williamson_2007a, title={Deliberative mapping: a novel analytic-deliberative methodology
to support contested science-policy decisions}, volume={16},
url={https://journals.sagepub.com/toc/pusa/16/3}, DOI={10.1177/0963662507077510},
number={3}, journal={Public Understanding of Science}, author={J. Burgess and A.
Stirling and J. Clark and G. Davies and M. Eames and K. Staley and S. Williamson},
year={2007}, month={Jul}, pages={299-322} }

@article{J. Burgess_A. Stirling_J. Clark_G. Davies_M. Eames_K. Staley_S.
Williamson_2007b, title={Deliberative mapping: a novel analytic-deliberative methodology
to support contested science-policy decisions}, volume={16},
url={https://journals.sagepub.com/toc/pusa/16/3}, DOI={10.1177/0963662507077510},
number={3}, journal={Public Understanding of Science}, publisher={SAGE}, author={J.
Burgess and A. Stirling and J. Clark and G. Davies and M. Eames and K. Staley and S.
Williamson}, year={2007}, month={Jul}, pages={299-322} }

@article{J. Urry_2005, title={The Complexity Turn}, volume={22}, url={<https://journals.sagepub.com/toc/tcsa/22/5>}, DOI={10.1177/0263276405057188}, number={5}, journal={Theory, Culture & Society}, author={J. Urry}, year={2005}, month={Oct}, pages={1-14} }

@book{Jasanoff_2004, address={London}, title={States of knowledge: the co-production of science and social order}, volume={International library of sociology}, publisher={Routledge}, author={Jasanoff, Sheila}, year={2004} }

@book{Jasanoff_2005a, address={Princeton, N.J.}, title={Designs on nature: science and democracy in Europe and the United States}, publisher={Princeton University Press}, author={Jasanoff, Sheila}, year={2005} }

@book{Jasanoff_2005b, address={Princeton, N.J.}, title={Designs on nature: science and democracy in Europe and the United States}, url={<https://www-jstor-org.libproxy.ucl.ac.uk/stable/j.ctt7spkz>}, publisher={Princeton University Press}, author={Jasanoff, Sheila}, year={2005} }

@article{Jerome R Ravetz_Ziauddin Sardar_1997, title={Rethinking science}, volume={29}, url={<https://www.sciencedirect.com/journal/futures/vol/29/issue/6>}, DOI={10.1016/S0016-3287(97)00023-2}, number={6}, journal={Futures: The journal of policy, planning and futures studies}, publisher={Elsevier Science Ltd}, author={Jerome R Ravetz and Ziauddin Sardar}, year={1997}, month={Aug}, pages={467-470} }

@article{John R. Durant_Geoffrey A. Evans_Geoffrey P. Thomas_1989, title={The public understanding of science}, volume={340}, url={<https://www.nature.com/>}, DOI={10.1038/340011a0}, number={6228}, journal={Nature}, author={John R. Durant and Geoffrey A. Evans and Geoffrey P. Thomas}, year={1989}, month={Jul}, pages={11-14} }

@article{J.R. Ravetz_1999, title={What is Post-Normal Science}, volume={31}, url={<https://www.sciencedirect.com/journal/futures/vol/31/issue/7>}, DOI={10.1016/S0016-3287(99)00024-5}, number={7}, journal={Futures: The journal of policy, planning and futures studies}, publisher={Elsevier Science Ltd.}, author={J.R. Ravetz}, year={1999}, pages={647-653} }

@book{Knight_2015, address={London}, title={Risk, uncertainty and profit}, volume={Classic reprint series}, publisher={Forgotten Books}, author={Knight, Frank H.}, year={2015} }

@book{Lash_Szerszynski_Wynne_1996, address={London}, title={Risk, environment and modernity: towards a new ecology}, volume={Theory, culture&society}, url={<https://ebookcentral.proquest.com/lib/ucl/detail.action?docID=1023984>}, publisher={Sage}, author={Lash, Scott and Szerszynski, Bronislaw and Wynne, Brian}, year={1996} }

@book{Lupton_2013, address={Abingdon, Oxon}, edition={Second edition}, title={Risk}, url={<https://doi.org/10.4324/9781135090326>}, publisher={Routledge}, author={Lupton, Deborah}, year={2013} }

@book{Mayo_1996, address={Chicago}, title={Error and the growth of experimental

knowledge}, volume={Science and its conceptual foundations},
url={https://www.vlebooks.com/Vleweb/Product/Index/467948?page=0},
publisher={University of Chicago Press}, author={Mayo, Deborah G.}, year={1996} }

@article{Michael S. Carolan_2006, title={Science, Expertise, and the Democratization of the Decision-Making Process}, volume={19},
url={https://www.tandfonline.com/toc/usnr20/19/7},
DOI={10.1080/08941920600742443}, number={7}, journal={Society & Natural Resources}, author={Michael S. Carolan}, year={2006}, month={Aug},
pages={661-668} }

@book{Mileti_1999, address={Washington, D.C.}, title={Disasters by design: a reassessment of natural hazards in the United States}, volume={Natural hazards and disasters}, publisher={Joseph Henry Press}, author={Mileti, Dennis S.}, year={1999} }

@book{Mitchell_2009, address={New York}, title={Complexity: a guided tour},
url={https://ebookcentral.proquest.com/lib/UCL/detail.action?pq-origsite=primo&docID=472328}, publisher={Oxford University Press}, author={Mitchell, Melanie},
year={2009} }

@article{N. Pidgeon_M. O'Leary_2000, title={Man-made disasters: why technology and organizations (sometimes) fail}, volume={34},
url={https://www.sciencedirect.com/journal/safety-science/vol/34/issue/1},
DOI={10.1016/S0925-7535(00)00004-7}, number={1}, journal={Safety Science},
author={N. Pidgeon and M. O'Leary}, year={2000}, month={Feb}, pages={15-30} }

@book{Nowotny_2016, address={Cambridge}, title={The cunning of uncertainty},
publisher={Polity}, author={Nowotny, Helga}, year={2016} }

@article{Paul, Slovic_Baruch, Fischhoff_Sarah, Lichtenstein_1982, title={Why Study Risk Perception?}, volume={2}, url={https://onlinelibrary.wiley.com/toc/15396924/1982/2/2},
DOI={10.1111/j.1539-6924.1982.tb01369.x}, number={2}, journal={Risk Analysis},
author={Paul, Slovic and Baruch, Fischhoff and Sarah, Lichtenstein}, year={1982},
month={Jun}, pages={83-93} }

@article{Peter, Adey_Ben, Anderson_2011, title={Event and anticipation: UK Civil Contingencies and the space - times of decision}, volume={43},
url={https://journals.sagepub.com/toc/epna/43/12}, DOI={10.1068/a43576},
number={12}, journal={Environment and Planning A}, author={Peter, Adey and Ben, Anderson}, year={2011}, pages={2878-2899} }

@article{S. Shackley_B. Wynne_1996, title={Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority}, volume={21},
url={https://journals.sagepub.com/toc/sthd/21/3}, DOI={10.1177/016224399602100302},
number={3}, journal={Science, Technology & Human Values}, author={S. Shackley and B. Wynne}, year={1996}, month={Jul}, pages={275-302} }

@article{Shane J. Cronin_David R. Gaylord_Douglas Charley_Brent V. Alloway_Sandrine Wallez_Job W. Esau_2004, title={Participatory methods of incorporating scientific with traditional knowledge for volcanic hazard management on Ambae Island, Vanuatu}, volume={66}, url={https://link.springer.com/journal/445/volumes-and-issues/66-7},
DOI={10.1007/s00445-004-0347-9}, number={7}, journal={Bulletin of Volcanology},

publisher={Springer}, author={Shane J. Cronin and David R. Gaylord and Douglas Charley and Brent V. Alloway and Sandrine Wallez and Job W. Esau}, year={2004}, month={Oct}, pages={652-668} }

@book{Slovic_2000, address={London}, title={The perception of risk}, volume={Risk, society, and policy series}, publisher={Earthscan}, author={Slovic, Paul}, year={2000} }

@article{Stirling_2007, title={Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle}, volume={8}, DOI={10.1038/sj.embor.7400953}, number={4}, journal={EMBO reports}, author={Stirling, Andrew}, year={2007}, month={Apr}, pages={309-315} }

@book{Taylor_2005, address={Chicago, [Ill.]}, title={Unruly complexity: ecology, interpretation, engagement}, url={http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9780226790398}, publisher={University of Chicago Press}, author={Taylor, Peter J.}, year={2005} }

@article{Thomas F. Gieryn_1983, title={Boundary-Work and the Demarcation of Science from Non-Science: Strains and Interests in Professional Ideologies of Scientists}, volume={48}, url={http://www.jstor.org/stable/2095325}, number={6}, journal={American Sociological Review}, author={Thomas F. Gieryn}, year={1983}, pages={781-795} }

@book{Ulrich Beck_1992, address={London}, title={Risk society: towards a new modernity}, volume={Theory, culture&society}, publisher={Sage}, author={Ulrich Beck}, year={1992} }

@book{Vaughan_American Council of Learned Societies_1996, address={Chicago}, title={The Challenger launch decision: risky technology, culture, and deviance at NASA}, url={http://hdl.handle.net/2027/heb.01159}, publisher={University of Chicago Press}, author={Vaughan, Diane and American Council of Learned Societies}, year={1996} }

@article{Ziauddin Sardar_Jerome R. Ravetz_1994, title={Complexity: Fad or future?}, volume={26}, url={https://www.sciencedirect.com/journal/futures/vol/26/issue/6}, DOI={10.1016/0016-3287(94)90028-0}, number={6}, journal={Futures}, author={Ziauddin Sardar and Jerome R. Ravetz}, year={1994}, month={Jul}, pages={563-567} }

@book{Culture, Media, Language_1980, address={Abingdon, UK}, url={http://www.tandfebooks.com/action/showBook?doi=10.4324/9780203381182}, DOI={10.4324/9780203381182}, publisher={Taylor & Francis}, year={1980} }

@book{Wisner_2014, address={Abingdon, Oxon}, edition={Second edition}, title={At risk: natural hazards, people's vulnerability, and disasters}, url={https://doi.org/10.4324/9780203714775}, publisher={Routledge}, year={2014} }