

HPSCGA49: Science Policy in an Era of Risk and Uncertainty

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[1]

Andrea J. Nightingale 2003. A Feminist in the Forest: Situated Knowledges and Mixing Methods in Natural Resource Management. *ACME: An International E-Journal for Critical Geographies*. 2, 1 (2003), 77–90.

[2]

Andrew, Stirling 2007. Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle. *EMBO reports*. 8, 4 (Apr. 2007), 309–315. DOI:<https://doi.org/10.1038/sj.embor.7400953>.

[3]

Arnoldi, J. 2009. Risk: an introduction. Polity.

[4]

Bammer, G. and Smithson, M. 2008. Uncertainty and risk: multidisciplinary perspectives. *Earthscan*.

[5]

Bruno, Latour 1996. On actor-network theory: A few clarifications. *Soziale Welt*. 47, 4 (1996), 369–381.

[6]

Burgess, A. et al. 2016. Routledge Handbook of Risk Studies. Taylor and Francis.

[7]

C. J. Fearnley et al. 2012. Standardisation of the USGS Volcano Alert Level System (VALS): analysis and ramifications. *Bulletin of Volcanology*. 74, 9 (Nov. 2012), 2023–2036. DOI:<https://doi.org/10.1007/s00445-012-0645-6>.

[8]

Carolina Garcia and Carina J. Fearnley 2012. Evaluating critical links in early warning systems for natural hazards. *Environmental Hazards*. 11, 2 (Jun. 2012), 123–137. DOI:<https://doi.org/10.1080/17477891.2011.609877>.

[9]

D. J. Spiegelhalter and H. Riesch 2011. Don't know, can't know: embracing deeper uncertainties when analysing risks. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*. 369, 1956 (Dec. 2011), 4730–4750. DOI:<https://doi.org/10.1098/rsta.2011.0163>.

[10]

D. Jamieson 1996. Scientific Uncertainty and the Political Process. *The ANNALS of the American Academy of Political and Social Science*. 545, 1 (May 1996), 35–43. DOI:<https://doi.org/10.1177/0002716296545001004>.

[11]

Day, S. and Fearnley, C. 2015. A classification of mitigation strategies for natural hazards: implications for the understanding of interactions between mitigation strategies. *Natural Hazards*. 79, 2 (Nov. 2015), 1219–1238. DOI:<https://doi.org/10.1007/s11069-015-1899-z>.

[12]

Deborah Dixon et al. 2011. Art: Blurring the boundaries. *Nature*. 472, 7344 (Apr. 2011), 417–417. DOI:<https://doi.org/10.1038/472417a>.

[13]

Deborah Trumbull et al. Thinking scientifically during participation in a citizen-science project. *Science education*. 84, 2, 265–275.

[14]

Douglas, M. and Wildavsky, A.B. 1982. *Risk and culture: an essay on the selection of technical and environmental dangers*. University of California Press.

[15]

G. A. Bradshaw and Jeffrey G. Borchers 2000. Uncertainty as Information: Narrowing the Science-policy Gap. *Conservation Ecology*. 4, 1 (2000).
DOI:<https://doi.org/10.5751/ES-00174-040107>.

[16]

G. Rowe 2005. A Typology of Public Engagement Mechanisms. *Science, Technology & Human Values*. 30, 2 (Apr. 2005), 251–290.
DOI:<https://doi.org/10.1177/0162243904271724>.

[17]

George E. Marcus 1995. Ethnography in/of the World System: The Emergence of Multi-Sited Ethnography. *Annual Review of Anthropology*. 24, (1995), 95–117.

[18]

Gibbons, M. et al. 1994. *The new production of knowledge: the dynamics of science and research in contemporary societies*. SAGE Publications.

[19]

Gigerenzer, G. 2014. *Risk savvy: how to make good decisions*. Viking.

[20]

Gilberto C. Gallopin et al. 2001. Science for the Twenty-First Century: From Social Contract to the Scientific Core. *International Social Science Journal*. 53, 168 (Jun. 2001), 219–229. DOI:<https://doi.org/10.1111/1468-2451.00311>.

[21]

H. Nowotny 2005. The Increase of Complexity and its Reduction: Emergent Interfaces between the Natural Sciences, Humanities and Social Sciences. *Theory, Culture & Society*. 22, 5 (Oct. 2005), 15–31. DOI:<https://doi.org/10.1177/0263276405057189>.

[22]

H.M. Collins and Robert, Evans 2002. The Third Wave of Science Studies. *Social Studies of Science*. 32, 2 (Apr. 2002), 235–296. DOI:<https://doi.org/10.1177/0306312702032002003>.

[23]

J. Burgess et al. 2007. Deliberative mapping: a novel analytic-deliberative methodology to support contested science-policy decisions. *Public Understanding of Science*. 16, 3 (Jul. 2007), 299–322. DOI:<https://doi.org/10.1177/0963662507077510>.

[24]

J. Burgess et al. 2007. Deliberative mapping: a novel analytic-deliberative methodology to support contested science-policy decisions. *Public Understanding of Science*. 16, 3 (Jul. 2007), 299–322. DOI:<https://doi.org/10.1177/0963662507077510>.

[25]

J. Urry 2005. The Complexity Turn. *Theory, Culture & Society*. 22, 5 (Oct. 2005), 1–14. DOI:<https://doi.org/10.1177/0263276405057188>.

[26]

Jasanoff, S. 2005. *Designs on nature: science and democracy in Europe and the United States*. Princeton University Press.

[27]

Jasanoff, S. 2005. *Designs on nature: science and democracy in Europe and the United States*. Princeton University Press.

[28]

Jasanoff, S. 2004. *States of knowledge: the co-production of science and social order*. Routledge.

[29]

Jerome R Ravetz and Ziauddin Sardar 1997. Rethinking science. *Futures: The journal of policy, planning and futures studies*. 29, 6 (Aug. 1997), 467–470.
DOI:[https://doi.org/10.1016/S0016-3287\(97\)00023-2](https://doi.org/10.1016/S0016-3287(97)00023-2).

[30]

John R. Durant et al. 1989. The public understanding of science. *Nature*. 340, 6228 (Jul. 1989), 11–14. DOI:<https://doi.org/10.1038/340011a0>.

[31]

J.R. Ravetz 1999. What is Post-Normal Science. *Futures: The journal of policy, planning and futures studies*. 31, 7 (1999), 647–653.
DOI:[https://doi.org/10.1016/S0016-3287\(99\)00024-5](https://doi.org/10.1016/S0016-3287(99)00024-5).

[32]

Knight, F.H. 2015. *Risk, uncertainty and profit*. Forgotten Books.

[33]

Lash, S. et al. 1996. *Risk, environment and modernity: towards a new ecology*. Sage.

[34]

Lupton, D. 2013. Risk. Routledge.

[35]

Mayo, D.G. 1996. Error and the growth of experimental knowledge. University of Chicago Press.

[36]

Michael S. Carolan 2006. Science, Expertise, and the Democratization of the Decision-Making Process. Society & Natural Resources. 19, 7 (Aug. 2006), 661–668. DOI:<https://doi.org/10.1080/08941920600742443>.

[37]

Mileti, D.S. 1999. Disasters by design: a reassessment of natural hazards in the United States. Joseph Henry Press.

[38]

Mitchell, M. 2009. Complexity: a guided tour. Oxford University Press.

[39]

N. Pidgeon and M. O’Leary 2000. Man-made disasters: why technology and organizations (sometimes) fail. Safety Science. 34, 1 (Feb. 2000), 15–30. DOI:[https://doi.org/10.1016/S0925-7535\(00\)00004-7](https://doi.org/10.1016/S0925-7535(00)00004-7).

[40]

Nowotny, H. 2016. The cunning of uncertainty. Polity.

[41]

Paul, Slovic et al. 1982. Why Study Risk Perception? Risk Analysis. 2, 2 (Jun. 1982), 83–93.

DOI:<https://doi.org/10.1111/j.1539-6924.1982.tb01369.x>.

[42]

Peter, Adey and Ben, Anderson 2011. Event and anticipation: UK Civil Contingencies and the space – times of decision. *Environment and Planning A*. 43, 12 (2011), 2878–2899.
DOI:<https://doi.org/10.1068/a43576>.

[43]

S. Shackley and B. Wynne 1996. Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority. *Science, Technology & Human Values*. 21, 3 (Jul. 1996), 275–302.
DOI:<https://doi.org/10.1177/016224399602100302>.

[44]

Shane J. Cronin et al. 2004. Participatory methods of incorporating scientific with traditional knowledge for volcanic hazard management on Ambae Island, Vanuatu. *Bulletin of Volcanology*. 66, 7 (Oct. 2004), 652–668.
DOI:<https://doi.org/10.1007/s00445-004-0347-9>.

[45]

Slovic, P. 2000. The perception of risk. Earthscan.

[46]

Stirling, A. 2007. Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle. *EMBO reports*. 8, 4 (Apr. 2007), 309–315.
DOI:<https://doi.org/10.1038/sj.embor.7400953>.

[47]

Taylor, P.J. 2005. *Unruly complexity: ecology, interpretation, engagement*. University of Chicago Press.

[48]

Thomas F. Gieryn 1983. Boundary-Work and the Demarcation of Science from Non-Science: Strains and Interests in Professional Ideologies of Scientists. *American Sociological Review*. 48, 6 (1983), 781–795.

[49]

Ulrich Beck 1992. *Risk society: towards a new modernity*. Sage.

[50]

Vaughan, D. and American Council of Learned Societies 1996. *The Challenger launch decision: risky technology, culture, and deviance at NASA*. University of Chicago Press.

[51]

Wisner, B. ed. 2014. *At risk: natural hazards, people's vulnerability, and disasters*. Routledge.

[52]

Ziauddin Sardar and Jerome R. Ravetz 1994. Complexity: Fad or future? *Futures*. 26, 6 (Jul. 1994), 563–567. DOI:[https://doi.org/10.1016/0016-3287\(94\)90028-0](https://doi.org/10.1016/0016-3287(94)90028-0).

[53]

1980. *Culture, Media, Language*. Taylor & Francis.