HPSCGA49: Science Policy in an Era of Risk and Uncertainty



1.

Arnoldi, J. Risk: an introduction. vol. Key concepts (Polity, 2009).

2.

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

З.

Lupton, D. Risk. (Routledge, 2013).

4.

Burgess, A., Alemanno, A. & Zinn, J. Routledge Handbook of Risk Studies. (Taylor and Francis, 2016).

5.

Bammer, G. & Smithson, M. Uncertainty and risk: multidisciplinary perspectives. vol. Earthscan risk in society series (Earthscan, 2008).

6.

Ulrich Beck. Risk society: towards a new modernity. vol. Theory, culture&society (Sage, 1992).

7.

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

8.

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

9.

Slovic, P. The perception of risk. vol. Risk, society, and policy series (Earthscan, 2000).

10.

Gilberto C. Gallopin, Silvio Funtowicz, Martin O'Connor, & Jerry Ravetz. Science for the Twenty-First Century: From Social Contract to the Scientific Core. International Social Science Journal **53**, 219–229 (2001).

11.

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

12.

J.R. Ravetz. What is Post-Normal Science. Futures:The journal of policy, planning and futures studies 31, 647–653 (1999).

13.

Jerome R Ravetz & Ziauddin Sardar. Rethinking science. Futures: The journal of policy, planning and futures studies **29**, 467–470 (1997).

14.

Deborah Dixon, Harriet Hawkins, & Mrill Ingram. Art: Blurring the boundaries. Nature 472,

417-417 (2011).

15.

C. J. Fearnley, W. J. McGuire, G. Davies, & J. Twigg. Standardisation of the USGS Volcano Alert Level System (VALS): analysis and ramifications. Bulletin of Volcanology **74**, 2023–2036 (2012).

16.

Carolina Garcia & Carina J. Fearnley. Evaluating critical links in early warning systems for natural hazards. Environmental Hazards **11**, 123–137 (2012).

17.

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

18.

Mileti, D. S. Disasters by design: a reassessment of natural hazards in the United States. vol. Natural hazards and disasters (Joseph Henry Press, 1999).

19.

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

20.

Day, S. & Fearnley, C. A classification of mitigation strategies for natural hazards: implications for the understanding of interactions between mitigation strategies. Natural Hazards **79**, 1219–1238 (2015).

21.

D. Jamieson. Scientific Uncertainty and the Political Process. The ANNALS of the American

Academy of Political and Social Science 545, 35-43 (1996).

22.

D. J. Spiegelhalter & H. Riesch. 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**, 4730–4750 (2011).

23.

Andrew, Stirling. Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle. EMBO reports **8**, 309–315 (2007).

24.

Stirling, A. Risk, precaution and science: towards a more constructive policy debate. Talking point on the precautionary principle. EMBO reports **8**, 309–315 (2007).

25.

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

26.

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

27.

Knight, F. H. Risk, uncertainty and profit. vol. Classic reprint series (Forgotten Books, 2015).

28.

Mayo, D. G. Error and the growth of experimental knowledge. vol. Science and its

conceptual foundations (University of Chicago Press, 1996).

29.

At risk: natural hazards, people's vulnerability, and disasters. (Routledge, 2014).

30.

N. Pidgeon & M. O'Leary. Man-made disasters: why technology and organizations (sometimes) fail. Safety Science **34**, 15–30 (2000).

31.

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

32.

H. Nowotny. The Increase of Complexity and its Reduction: Emergent Interfaces between the Natural Sciences, Humanities and Social Sciences. Theory, Culture & Society **22**, 15–31 (2005).

33.

Ziauddin Sardar & Jerome R. Ravetz. Complexity: Fad or future? Futures **26**, 563–567 (1994).

34.

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

35.

J. Urry. The Complexity Turn. Theory, Culture & Society 22, 1–14 (2005).

36.

Peter, Adey & Ben, Anderson. Event and anticipation: UK Civil Contingencies and the space – times of decision. Environment and Planning A **43**, 2878–2899 (2011).

37.

J. Burgess et al. Deliberative mapping: a novel analytic-deliberative methodology to support contested science-policy decisions. Public Understanding of Science **16**, 299–322 (2007).

38.

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

39.

Paul, Slovic, Baruch, Fischhoff, & Sarah, Lichtenstein. Why Study Risk Perception? Risk Analysis **2**, 83–93 (1982).

40.

Michael S. Carolan. Science, Expertise, and the Democratization of the Decision-Making Process. Society & Natural Resources 19, 661–668 (2006).

41.

H.M. Collins & Robert, Evans. The Third Wave of Science Studies. Social Studies of Science **32**, 235–296 (2002).

42.

Jasanoff, S. States of knowledge: the co-production of science and social order. vol. International library of sociology (Routledge, 2004).

43.

Lash, S., Szerszynski, B. & Wynne, B. Risk, environment and modernity: towards a new ecology. vol. Theory, culture&society (Sage, 1996).

44.

G. A. Bradshaw & Jeffrey G. Borchers. Uncertainty as Information: Narrowing the Science-policy Gap. Conservation Ecology **4**, (2000).

45.

John R. Durant, Geoffrey A. Evans, & Geoffrey P. Thomas. The public understanding of science. Nature **340**, 11–14 (1989).

46.

Culture, Media, Language. (Taylor & Francis, 1980). doi:10.4324/9780203381182.

47.

G. Rowe. A Typology of Public Engagement Mechanisms. Science, Technology & Human Values **30**, 251–290 (2005).

48.

S. Shackley & B. Wynne. Representing Uncertainty in Global Climate Change Science and Policy: Boundary-Ordering Devices and Authority. Science, Technology & Human Values **21**, 275–302 (1996).

49.

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

50.

J. Burgess et al. Deliberative mapping: a novel analytic-deliberative methodology to support contested science-policy decisions. Public Understanding of Science **16**, 299–322

(2007).

51.

Shane J. Cronin et al. Participatory methods of incorporating scientific with traditional knowledge for volcanic hazard management on Ambae Island, Vanuatu. Bulletin of Volcanology **66**, 652–668 (2004).

52.

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

53.

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