
Contents

<i>List of figures</i>	viii
<i>List of tables</i>	ix
<i>List of contributors</i>	x
Introduction: Science and public policy – relations in flux <i>Dagmar Simon, Stefan Kuhlmann, Julia Stamm and Weert Canzler</i>	1
PART I CHANGING CONTRACT BETWEEN SCIENCE, SOCIETY, AND PUBLIC POLICY	
1 Next generation science policy and Grand Challenges <i>Stefan Kuhlmann and Arie Rip</i>	12
2 Responsible Innovation and Responsible Research and Innovation <i>Richard Owen and Mario Pansera</i>	26
3 Normative answers – epistemic questions. Updating the science–society contract <i>Sabine Maasen and Sascha Dickel</i>	49
4 Re-making the modern constitution: the case for an observatory on public engagement practices <i>Jan-Peter Voß</i>	67
PART II CHANGING NATIONAL/GLOBAL SCIENCE AND POLICY LANDSCAPE	
5 Global science for global challenges <i>Caroline S. Wagner</i>	92
6 The current state of the art of science diplomacy <i>Tim Flink and Nicolas Rüffin</i>	104
7 Bringing the rules back in. Peer review, bureaucracy and the reform of science governance in France (1960–2010) <i>Jérôme Aust and Clémentine Gozlan</i>	122

8	U.S. scientific collaboration on research and policy: the necessity of global engagement <i>Elizabeth A. Corley</i>	141
9	Australian science policy: funding, focus and failings <i>Karen Hussey, Christopher McEwan and Julia Playford</i>	162
PART III CHANGING ACTORS AND FRAMINGS OF SCIENCE AND PUBLIC POLICY		
10	Innovation and the marginalization of research <i>Benoît Godin</i>	185
11	Changing science policies, authority relationships and innovations in public science systems <i>Richard Whitley</i>	204
12	Higher education developments and the effects on science <i>Jeroen Huisman and Marco Seeber</i>	227
13	New forms of policy expertise <i>Holger Strassheim and Weert Canzler</i>	243
14	Innovation, excellence and reputation: the persistence of the German science system <i>Andreas Knie and Dagmar Simon</i>	267
15	Gender in European research policy <i>Liudvika Leišytė</i>	284
PART IV CHANGING PRODUCTION OF KNOWLEDGE		
16	Processing issues in science policy: emerging epistemic regimes <i>Stefan Böschen</i>	317
17	Changing science–society relations in the digital age: the citizen science movement and its broader implications <i>Martina Franzen</i>	336
18	Triple Helix: a universal innovation model? <i>Henry Etzkowitz and Alice Zhou</i>	357
19	Interdisciplinarity put to test: science policy rhetoric vs scientific practice – the case of integrating the social sciences and humanities in Horizon 2020 <i>Julia Stamm</i>	376

PART V CHANGING GOVERNANCE OF SCIENTIFIC RESEARCH AND RELATED PUBLIC POLICIES

20	Changes in European research and innovation governance: coordination effects and membership effects <i>Susana Borrás</i>	401
21	How can governance change research content? Linking science policy studies to the sociology of science <i>Jochen Gläser</i>	419
22	The changing governance of research systems. Agencification and organizational differentiation in research funding organizations <i>Benedetto Lepori and Emanuela Reale</i>	448
23	Globalization and the rise of rankings <i>Paul Wouters</i>	466
24	Assessing the broader impacts of publicly funded research <i>Claire Donovan</i>	488

PART VI CHANGING STUDIES OF SCIENCE POLICY, SCIENCE, AND INNOVATION

25	Why science and innovation policy needs Science and Technology Studies? <i>Robin Williams</i>	503
26	The future of science policy and innovation studies: some challenges and the factors underlying them <i>Ben R. Martin</i>	523
	<i>Index</i>	543