Contents

1.	Rationalizing Politics	1
	The Rise of Social Regulation	2
	Science and Policymaking	4
	Expertise and Trust	9
	The Contingency of Knowledge	12
	The Reform Debate	15
	An Alternative Approach	17
2.	Flawed Decisions	20
	Nitrites	21
	2,4,5-T	24
	Love Canal	26
	Estimates of Occupational Cancer	29
	The Technocratic Response	32
	A Critical Counterpoint	36
3.	Science for the People	39
	The Rationale for Public Science	40
	The "New" Expert Agency	43
	Scientific Advice and Open Government	45
	Judicial Review of Science Policy	49
	The Weakening of the Paradigm	57
4.	Peer Review and Regulatory Science	61
	The Traditions of Peer Review	62
	Peer Review in Practice	64

Instructive Failures	69
Regulatory Science: Content and Context	76
Implications for Regulatory Peer Review	79
5. EPA and the Science Advisory Board	84
Early Political Challenges	84
A New Cooperation	89
Boundary Exercises	95
SAB's Impact on Policy	97
Conclusion	99
6. The Science and Policy of Clean Air	101
CASAC and the NAAQS Process	102
Science and Standards	104
Redefining CASAC's Role	112
The Carbon Monoxide Controversy	120
CASAC's Effectiveness: Bridging Science	
and Policy	121
7. Advisers as Adversaries	123
The Scientific Advisory Panel	124
Implementing the Impossible	127
Ethylene Dibromide	130
Dicofol	137
Alar	141
A Fragmentation of Authority	149
8. FDA's Advisory Network	152
The Scientific Evaluation of Drugs	154
Expertise and Food Safety	165
Advice and Decision	177
9. Coping with New Knowledge	180
The Quest for Principled Risk Assessment	181
Formaldehyde: An Uncertain Carcinogen	193
Conclusion	206

10. Technocracy Revisited	208
A Public-Private Partnership for Science	209
Risk Assessment without Politics	216
The Public Board of Inquiry	222
Wider Applications	226
11. The Political Function of Good Science	229
From Advice to Policy	230
Acceptable Risk	232
Scientific Advice as Legitimation: Negotiation	
and Boundary Work	234
Defining "Good Science"	236
Normative Implications	241
Conclusion	249
Notes	253
Index	293