

## Contents

<i>List of Figures</i>	<i>page</i> xi
<i>Acknowledgments</i>	xiii
<i>List of Abbreviations</i>	xiv
Introduction	I
Scientific Universalism, Privilege, and National Service	8
Applied Sciences, Commerce, and American Foreign	
Relations to World War I	11
Science, World War I, and Interwar Modernity	15
I The Battle of the Laboratories	21
Nation Bound	23
Science and American Foreign Relations before	
World War II	24
OSRD and the Manhattan Project	28
The Atomic Bomb and Questions After	32
At Loose Ends	34
Postwar Institutions and Internationalism	35
Atomic Energy and Espionage	37
US–Soviet Conflict over the WHO	40
The KR Affair and a Scientific Iron Curtain	42
Rebound	45
Science in Occupied Germany	46
Science in Occupied Japan	49
Science and European Reconstruction	53

2	Science Contained	59
	Co-Option	64
	American Science in the Early Cold War	66
	McCarthyism and the Global Scientific Community	69
	Cooperation	73
	American Nuclear Diplomacy: Atoms for Peace	74
	The European Center for Nuclear Research (or CERN)	78
	The International Geophysical Year	80
	The Freedom of Space and Sputnik	84
	Competition	87
	Reorganization at Home	88
	American Diplomacy after Sputnik	90
	The Moon Landing	94
	The Legacy of Early Cold War Scientific Competition	96
3	The Quiet War	99
	Modern Commitments	102
	The Background to Point Four	103
	The Domestic and International Response	105
	Point Four	108
	On Point	112
	Three Decades of Assistance to Iran	113
	An Evolving Mix of Programs, Goals, and Participants	118
	The Soviet Challenge in the Developing World	122
	The Alliance for Progress	125
	Demographic Containment	129
	Global Health and the Malaria Eradication Program	130
	The Mexican Agricultural Program, the FAO, and PL-480	
	Food Aid	133
	The Green Revolution in India, the Philippines, and Vietnam	136
	Population Controls	139
	Legacies of Cold War Scientific and Technical Assistance	143
4	The Crossing Point	145
	Eruption	149
	The Environmental Movement, Vietnam War, and Collapse of Consensus	150
	The International Biological Program and Global Governance	154
	Market Biology	158
	The Legal and Scientific Background to Biotechnology	159
	Interferon, the Geopolitics of Overinvestment, and American Diplomacy	160
	The G-77, Genetics, and the ISTC	163

*Table of Contents*

ix

	Legalization and Tension with Allies and the Developing World	166
5	Reorientation	171
	Heavenly Politics	177
	Satellite Communications and American Diplomacy	178
	Science and Détente with the Soviet Union	182
	Science and the Collapse of Détente	186
	Walking on Two Legs	188
	The Collapse of US–Chinese Scientific Relations, 1950–1972	189
	Scientific Exchanges and Revolutionary Resistance	193
	Markets and Anti-communist Resistance	197
	Scientific and Technical Relations after Normalization	199
	Petroscience	202
	US–Iranian Relations from the Embargo to the Revolution	204
	JECOR and American Assistance to Saudi Arabia	206
	US–Israeli Scientific Relations	210
6	Globalization	214
	We Are Their Allies	217
	The G7 Science Initiative	218
	Space Station Freedom	221
	The Strategic Defense Initiative	223
	Scientific Relations with China, Saudi Arabia, and Israel	225
	Competition Rising	229
	Japan, the VLSI Initiative, and American Competitiveness	230
	Protecting American R&D: Export Controls and Intellectual Property Rights	234
	Soviet Fission	239
	Soviet Malaise, Chernobyl, and Collapse	240
	Re-Integrating Post-Soviet Science: The ISTC and ISS	244
	The Legacy of the Cold War on American Science and Foreign Relations	249
7	The Fray	252
	National Philosophy	261
	US Climate Leadership: The Ozone Hole and Montreal Protocol	263
	Domestic Politics vs. Global Science: The Case of Global Warming	266
	The Human Genome Project and Convention on Biological Diversity	271
	International Tensions over Genetic Patents and Labels	276
	Genetic Engineering, Climate Change, and American Foreign Relations	281

*Table of Contents*

Pale Shadows	283
The War on Terror and Iraqi Assistance	285
US–Iranian Scientific Relations in the War on Terror	289
UNESCO and Science Diplomacy in the Middle East	295
8 The Laboratory of Diplomacy	299
<i>Appendix: Selected Chronology</i>	307
<i>Bibliography</i>	313
<i>Index</i>	329