

Contents

1	Introduction	1
	References	9
2	What Is Science Diplomacy?	11
2.1	The Emergence of Science Diplomacy in Contemporary International Relations	11
2.1.1	In Search of a Definition	11
2.1.2	Science Diplomacy Is a Form of Diplomacy of Influence	13
2.2	A Historical Perspective	17
2.2.1	Great Voyages of Exploration and Colonization	17
2.2.2	The World Wars of the Twentieth Century	21
2.2.3	The Cold War: Science in the Ideological Competition	22
2.2.4	After the Cold War	24
	References	25
3	Science Diplomacy as a National Issue	27
3.1	Universal Science and the Power of Nations	27
3.1.1	The Scientist and the Diplomat: Contours of Two Types	27
3.1.2	The Scientist and the Diplomat: A Proximity of Convenience?	30
3.2	The Challenges of Science Diplomacy	33
3.2.1	Attraction	33
3.2.2	Cooperation	37
3.2.3	Influence	38
	References	44
4	Science in Diplomatic Apparatus: The Diversity of National Approaches	47
4.1	Scientific and Technological Networks	47
4.1.1	Science Counselors	47
4.1.2	Networks	48

4.2	Science Diplomacy of Major European Countries: France, Germany, Italy, Switzerland and the UK	50
4.2.1	France	50
4.2.2	Germany	51
4.2.3	Italy	54
4.2.4	Switzerland	56
4.2.5	United Kingdom	58
4.3	Science Diplomacy of Developed Non-European Countries	60
4.3.1	Canada	60
4.3.2	Japan	61
4.3.3	United States	63
4.4	Science Diplomacy of China, India and Russia	67
4.4.1	China	67
4.4.2	India	69
4.4.3	Russia	70
4.5	The Diversity of National Models	71
4.5.1	Science Diplomacy Is Unevenly Assumed	72
4.5.2	Diplomatic Networks and Their Geographical Coverage	73
4.5.3	Steering and Coordination	74
4.5.4	Human Resources for Science Diplomacy	76
4.5.5	Country Models	79
	References	81
5	Science in the Vanguard of Diplomacy	85
5.1	The Facilitating Role of Science Between Countries Sharing Awkward Political Relations	85
5.1.1	Of the Usage of Science in US Diplomacy	86
5.1.2	Questions About Science for Diplomacy	90
5.2	The Vanguard Role of Science in the Composition of Regional Spaces	94
5.2.1	The Large Infrastructures for Research in Fundamental Physics and Scientific Diplomacy: CERN and the SESAME Project	94
5.2.2	Science and the Construction of Europe	96
5.2.3	Science and Diplomacy in the Polar Regions	98
	References	104
6	Multilateral Science Diplomacy	105
6.1	Multilateralization of Institutions, Globalization of Challenges	105
6.1.1	Global Challenges, Global Public Goods	105
6.1.2	Science Internationals	107
6.1.3	Intergovernmental Organizations	110
6.1.4	Science-Policy Interfaces	112

6.2 Science in Climate Diplomacy	113
6.2.1 The Institutional Framework	114
6.2.2 Hybridization of Science and Diplomacy	118
References	127
Conclusion	129
Reference	132