

## Contents

Foreword *vii*

Rush Holt and Jeanne Braha

### Introduction to This Book 1

*Susanna Priest, Jean Goodwin, and Michael F. Dahlstrom*

#### PART 1 How Ethics Matters 9

##### 1 Effective Because Ethical: Speech Act Theory as a Framework for Scientists' Communication 13

*Jean Goodwin*

##### 2 Communicating Science-Based Information about Risk: How Ethics Can Help 34

*Paul B. Thompson*

##### 3 Communicating Climate Change and Other Evidence-Based Controversies: Challenges to Ethics in Practice 55

*Susanna Priest*

##### 4 Framing Science for Democratic Engagement 74

*Leah Sprain*

#### PART 2 Professional Practice 91

##### 5 Exploring the Ethics of Using Narratives to Communicate in Science Policy Contexts 95

*Michael F. Dahlstrom and Shirley S. Ho*

##### 6 Science Communication as Communication about Persons 116

*Brent Ranalli*

##### 7 Journalists, Expert Sources, and Ethical Issues in Science Communication 136

*Marjorie Kravand*

- 8 **The Ethics and Boundaries of Industry Environmental Campaigns** 155  
*Barbara Miller Gaither and Janas Sinclair*
- 9 **Scientists' Duty to Communicate: Exploring Ethics, Public Communication, and Scientific Practice** 175  
*Sarah R. Davies*

PART 3 **Case Studies** 193

- 10 **Just the Facts or Expert Opinion? The Backtracking Approach to Socially Responsible Science Communication** 197  
*Daniel J. McKaughan and Kevin C. Elliott*
- 11 **Controversy, Commonplaces, and Ethical Science Communication: The Case of Consumer Genetic Testing** 214  
*Lora Arduser*
- 12 **Excluding "Anti-biotech" Activists from Canadian Agri-Food Policy Making: Ethical Implications of the Deficit Model of Science Communication** 235  
*Kelly Bronson*
- 13 **Science Communication Ethics: A Reflexive View** 253  
*Alain Létourneau*
- 14 **How Discourse Illuminates the Ruptures between Scientific and Cultural Rationalities** 270  
*Cynthia-Lou Coleman*

*Afterword* 291

Susanna Priest, Jean Goodwin, and Michael F. Dahlstrom

*List of Contributors* 299

*Index* 303