

CONTENTS

Preface vii *List of contributors* ix

Introduction

Patterns of controversy and closure: the interplay of
knowledge, values, and political forces
H. Tristram Engelhardt, Jr., and Arthur L. Caplan page 1

PART I. THEORETICAL PERSPECTIVES

1. Ethical theory and the problem of closure <i>Tom L. Beauchamp</i>	27
2. Scientific controversy and its termination <i>Ernan McMullin</i>	49
3. The political anatomy of controversy in the sciences <i>Everett Mendelsohn</i>	93
4. Controversies involving science and technology: a theoretical perspective <i>Ronald N. Giere</i>	125
5. Politics, public policy-making, and the process of reaching closure <i>Robert F. Rich</i>	151
6. The role of experts in scientific controversy <i>Garland E. Allen</i>	169
7. The continental drift debate <i>Henry Frankel</i>	203
8. How history and politics affect closure in biomedical discussions: the example of the Soviet Union <i>Loren R. Graham</i>	249
9. Scientific disputes over policy <i>Allan Mazur</i>	265
10. Controversies and the authority of science <i>Dorothy Nelkin</i>	283
11. Post-Skinner and post-Freud: philosophical causes of scientific disagreements <i>Alasdair MacIntyre</i>	295

vi	<i>Contents</i>	
	PART II. CONTEMPORARY CASE STUDIES	
	Laetrile	
12.	Resolution of the Laetrile controversy: past attempts and future prospects <i>Gerald E. Markle and James C. Petersen</i>	315
13.	Federal regulation of Laetrile <i>Robert S. K. Young</i>	333
14.	Quasi libertarianism and the Laetrile controversy <i>Baruch A. Brody</i>	343
15.	Judicial deflection of scientific questions: pushing the Laetrile controversy toward medical closure <i>Robert L. Schwartz</i>	355
	Homosexuality	
16.	Politics, science, and the problem of psychiatric nomenclature: a case study of the American Psychiatric Association referendum on homosexuality <i>Ronald Bayer</i>	381
17.	The diagnostic status of homosexuality in <i>DSM-III</i> : a reformulation of the issues <i>Robert L. Spitzer</i>	401
18.	On arriving at the American Psychiatric Association decision on homosexuality <i>Irving Bieber</i>	417
	Safety in the workplace	
19.	Values in the debate over workplace safety and health: the rancorous rhetoric about regulation <i>Gilbert S. Omenn</i>	437
20.	The successful experiment that failed <i>Marvin S. Legator</i>	465
21.	The power of efficiency: balancing benefits and costs in regulating occupational exposure to toxic substances <i>Taylor R. Durham</i>	487
22.	Closure in occupational safety and health: the benzene and cotton dust decisions <i>Mark MacCarthy</i>	505
	Nuclear power	
23.	Nuclear fear: a history and an experiment <i>Spencer R. Weart</i>	529
24.	Closure and controversy: Three Mile Island <i>Cora Bagley Marrett</i>	551
25.	Understanding the nuclear power controversy <i>Douglas MacLean</i>	567
	PART III. CONTROVERSY, CLOSURE, AND THE PUBLIC	
26.	The role of the mass media in scientific controversy <i>Rae Goodell</i>	585
27.	The National Commission on Human Experimentation: procedures and outcomes <i>Stephen E. Toulmin</i>	599
28.	The forms and norms of closure <i>Ruth Macklin</i>	615