

## Contents

Preface . . . . .	13
Opening Ceremonies . . . . .	15
Addresses by:	
<i>Jost Delbrück</i> . . . . .	15
<i>Roger Asmussen</i> . . . . .	17
<i>Rüdiger Wolfrum</i> . . . . .	19
The Role of Scientific Advice for the Decision-Making Process in the Antarctic Treaty System	
<i>John A. Heap</i> . . . . .	21
General Discussion . . . . .	29
The Institutional Development of the Antarctic Treaty System: The Question of a Secretariat	
<i>R. Tucker Scully</i> . . . . .	41
Comment	
<i>Alberto L. Davéréde</i> . . . . .	53
General Discussion . . . . .	58
Cooperation in Antarctica in Scientific and Logistic Matters: Status and Means of Improvement	
<i>Patrick Quilty</i> . . . . .	65
International Agreements Applicable to Antarctica: A Survey	
<i>Scott A. Hajost</i> . . . . .	79
Effect of Article VI of the Antarctic Treaty on Scientific Research	
<i>Patricia Birnie</i> . . . . .	105
Panel Discussion . . . . .	121
<i>Orlando R. Rebagliati</i> (121—125)	
<i>Wolfgang E. Burhenne</i> (125—127)	
<i>Reinhard Müller</i> (128—129)	
<i>Alfonso Muñoz Seca</i> (129—130)	
General Discussion . . . . .	131

Air — Sea — Ice Interactions in the Antarctic Pack Ice Region <i>E. Augstein</i> . . . . .	139
General Discussion . . . . .	142
CCAMLR — Its Practical Side: The Polarstern Expedition <i>Dietrich Sahrhage</i> . . . . .	143
General Discussion . . . . .	147
Geology and Geophysics of the Weddell Sea <i>Dietrich Karl Fütterer</i> . . . . .	149
Geophysical and Geological Research in Antarctica Related to the Assessment of Petroleum and Mineral Resources and Potential Environmental Hazards <i>John C. Behrendt</i> . . . . .	165
Geophysical and Geological Data in Antarctica — The Overlap Between Science and Prospection <i>Franz Tessensohn</i> . . . . .	179
General Discussion . . . . .	184
Antarctic Resources and Remote Sensing by Satellite: The Inter- play of Technology, Mission and Law <i>Christopher Joyner</i> . . . . .	191
General Discussion . . . . .	226
The Legitimacy of the United Nations' Challenge to the Antarctic Treaty <i>Richard Woolcott</i> . . . . .	229
Safeguarding the Interests of Mankind in the Use of Antarctica <i>Abdul Koroma</i> . . . . .	243
The Question of Antarctica at the United Nations — The End of Consensus? <i>Cristian Maquieira</i> . . . . .	253
The Issue of Antarctica — A Commentary <i>Mohamed Haron</i> . . . . .	271
Panel Discussion . . . . . <i>Nils Bølset (277—278), Vladimir Golitsyn (278—286)</i> <i>Ian Hendry (286—288), H. P. Rajan (288—290)</i> <i>F. Orrego Vicuña (290—292), Jost Delbrück (292—295)</i>	277

The Legitimacy of Concluding an Antarctic Mineral Resources Regime among the Antarctic Treaty Parties	
<i>Finn Sollie</i> . . . . .	297
Comment: The Legitimacy of Negotiating an Antarctic Mineral Resources Convention among the Antarctic Treaty Parties	
<i>Song Li</i> . . . . .	308
Lessons to be Learned from the Mineral Resources Negotiations	
<i>Arthur D. Watts</i> . . . . .	319
Non-Consultative Parties: The Peruvian Approach to the Antarctic Treaty System and to Antarctic Mineral Resources	
<i>Nicolás Roncagliolo</i> . . . . .	333
Panel Discussion . . . . .	341
<i>Alberto Davèrède</i> (342—343), <i>Abdul Koroma</i> (343—344)	
<i>Vladimir Golitsyn</i> (344—346), <i>Jorge Berguño</i> (346—348)	
<i>Scott Hajost</i> (348—350), <i>Rüdiger Wolfrum</i> (350—351)	
General Discussion . . . . .	352
Comment	
<i>Bo Johnson Theutenberg</i> . . . . .	367
The Legal Status of Ice in International Law	
<i>Gerard J. Mangone</i> . . . . .	371
Comment: The Legal Consequences of Antarctic Stations	
<i>Sudhir Chopra</i> . . . . .	389
Air Traffic in Antarctica — The Need for a Legal Regime	
<i>Francisco Orrego Vicuña</i> . . . . .	397
Comment: Air Traffic in Antarctica	
<i>Roberto Puceiro Ripoll</i> . . . . .	424
General Discussion . . . . .	432
Micro-organisms in the Antarctic Desert: A Model for Possible Life on Early Mars	
<i>E. Imre Friedmann</i> . . . . .	445
General Discussion . . . . .	451

The Legal Status of Visitors, Including Tourists, and Non-Governmental Expeditions in Antarctica	
<i>Boleslaw Adam Boczek</i> . . . . .	455
Waste Management in Antarctica	
James N. Barnes, Peter J. Lipperman, Kelly Rigg . . . . .	491
Comment: Waste Disposal: Need for Further Regulation?	
<i>Roberto Puceiro Ripoll</i> . . . . .	530
Comment	
<i>Sudhir Chopra</i> . . . . .	536
Panel Discussion . . . . .	538
<i>Patricia Birnie (538—540), Rahmatullah Khan (540—541)</i>	
<i>Ian Nicholson (541—543), Nicolas Mettra (544—545)</i>	
<i>Roger Wilson (545—547)</i>	
General Discussion and Closing . . . . .	548
Annex . . . . .	563
Deep Sea Drilling in the Ice-Covered Arctic: Scientific, Environmental, Technical and Political Challenge, or The Call for C.O.N.D.	
<i>Jörn Thiede, Leonard Johnson, Yngve Kristoffersen, Steven Blasco, Lawrence Mayer</i> . . . . .	563
List of Participants . . . . .	583