

# Contents

Preface . . . . .	V
Contents . . . . .	VII
List of Contributors . . . . .	XI
<b>1 Overview: Report of the Hamburg Congress . . . . .</b>	<b>1</b>
The Highlights of Deliberations . . . . .	4
The Hamburg Manifesto . . . . .	9
The Hamburg Action Plan . . . . .	13
<b>2 The Larger Perspectives . . . . .</b>	<b>15</b>
2.1 Message of UN Secretary General . . . . .	17
2.2 Opening Speech	
H. Vorscherau . . . . .	19
2.3 Opening Lecture: Climate, Society and the Historical Development	
W. Brandt . . . . .	22
2.4 Opening Speech	
H. Riesenhuber . . . . .	30
2.5 Statement	
W. Gröbel . . . . .	40
	VII

2.6	Environmental Degradation – a Threat to Development O. Ullsten . . . . .	43
2.7	Possible Policies and Options in the European Community to Respond to Climatic Changes B. Weber . . . . .	50
2.8	Political Perception of Climate Change: Still Chalk on the White Wall? K. M. Meyer-Abich . . . . .	54
2.9	Climatic Change – Its Political Challenge to the International Community L. Baehr . . . . .	60
<b>3</b>	<b>The Scientists' Perceptions . . . . .</b>	<b>65</b>
3.1	Climate and Development: Scientific Efforts and Assessment – The State of the Art K. Hasselmann . . . . .	67
3.2	Programmes and Co-operation in Climatic Research – a Means to the Understanding of the Climate System as a Requirement to Cope with the Climate Issue W. Böhme . . . . .	123
3.3	To Limit and to Adjust: Some Human Dimensions of Global Climatic Change I. Burton . . . . .	141
3.4	Some Strategies of Response in Agriculture to Changes of Climate M. Parry and T. Carter . . . . .	152
3.5	Climate Variability, Climate Change and the Development Process in Sub-Saharan Africa M. H. Glantz . . . . .	173
3.6	Modelling the Climatic Effects of Trace Gases: Reduction Strategy and Options for a Low Risk Policy W. Bach . . . . .	193
3.7	Contributions to the Atmospheric CO <sub>2</sub> Increase by Changes in the Land Biosphere: Analysis of the Past and Present, Including Possible Future Developments G. H. Kohlmaier . . . . .	219
3.8	Long Range Strategic Concepts to Reduce Drought Damages to Agriculture I. Láng . . . . .	255
3.9	Energy Options and Climatic Effects R. Revelle and D. Burns . . . . .	261
3.10	Anthropogenic Climatic Changes M. I. Budyko and Yu. S. Sedunov . . . . .	270
3.11	Climate Change – Secular Trends in Urban Temperature E. H. Koo . . . . .	285

<b>4</b>	<b>The Industry Point View</b> . . . . .	293
4.1	Industry's Attitude	
	BDJ . . . . .	295
4.2	Climatic Risks and the Role of Energy Use	
	G. Zimmermeyer . . . . .	300
4.3	A UNICE Perspective on the Greenhouse Effect	
	F.L. Kafka . . . . .	332
<b>5</b>	<b>Views of Non-governmental Organisations</b> . . . . .	337
5.1	Responding to Climatic Change: The Crucial Role of the NGOs	
	M. Oppenheimer . . . . .	339
5.2	Strategies and Recommendations for the Protection of the Tropical Rainforests	
	W. Engelhardt . . . . .	347
5.3	Escaping the Heat Trap: Policies to Prevent Climate Change	
	A statement at the Hamburg Congress . . . . .	358
<b>6</b>	<b>Concerns of Developing Countries</b> . . . . .	367
6.1	Social Impacts of Climatic Variations, a Developing Region's Viewpoint	
	A. R. Magalhães . . . . .	369
6.2	Drought in the Brazilian Northeast: Some Features of its Socio-Economic Impact	
	C. Cavalcanti . . . . .	379
6.3	Summary of Views of Developing Country Participants	
	Statement at the Hamburg Congress . . . . .	385
<b>7</b>	<b>International Initiatives</b> . . . . .	389
7.1	Strategies to Respond to Climate Changes – the Role of International Organisations	
	M. K. Tolba . . . . .	391
7.2	Climate and Development: Agricultural Practices and Water Resources	
	J. Neméc . . . . .	397
7.3	Climate Change and Human Health	
	W.H. Weihe . . . . .	409
7.4	Climate Change: Roles of UNESCO and IOC with Particular Reference to the Ocean	
	G. Kullenberg . . . . .	433

7.5	An Overview of International Developments, Trends and Actions	
	T.D. Potter and L. E. Olsson . . . . .	448
<b>8</b>	<b>Where do we go from here?</b> . . . . .	<b>471</b>
	Where do we go from here?	
	M. Anandakrishan . . . . .	473
	Glossary	
	United Nations General Assembly Resolution . . . . .	476