

## CONTENTS

Preface	1
<b>PART 1: REPORTS AND COMMISSIONED PAPERS</b>	<b>3</b>
1.1 Summary of the Issues Raised and Discussed by W. R. Broderick - Rapporteur General	5
1.2 Reports of the Working Groups by their Chairmen	14
1.3 The Austrian Experience with Microelectronics and Programming in Schools by Dr. Helmut Aigner	19
1.4 Teaching Computer Science in the Secondary School - A Survey of Research and Evaluation in the Federal Republic of Germany by Dr. Ulrich Bosler	29
1.5 The United Kingdom's Experience of Evaluation and Development of Computer Related Learning Systems by W. R. Broderick	41
1.6 The Teaching of Computer Science at Secondary School - Evaluation of Experience in Spain by Mr. E. Garcia Camarero	56
1.7 Computer Science and Education - An Overview of Experiences and Research in Italy by Prof. M. Fierli	72
1.8 Computers in Swedish Schools - A Presentation of Experience, Re- search and Problems by Dr. Anita Kollerbauer	78
<b>PART 2: NATIONAL REPORTS</b>	<b>93</b>
2.1 Austria Computer Equipment in Austrian Secondary Schools by Ministerialrat Dr. Johann Czernetschka	95
2.2 Belgium (Dutch Language Community) The Situation in Belgium (Dutch Language Community) by the Ministry of Education and Dutch Culture	99
2.3 Belgium (French Language Community) The Situation in Belgium (French Language Community) by M. G. De Landsheere and D. Leclercq	101

2.4	<b>Cyprus</b> <b>Introduction of Computers in Secondary Schools</b> by Mr. Nicos Hadjinicolas	110
2.5	<b>Denmark</b> <b>Present State of Research and Evaluation of Computer Science and</b> <b>Computer-Based Teaching in Danish Secondary Schools</b> by Dr. Jannik Johansen	113
2.6	<b>Finland</b> <b>The Use of Microcomputers in Secondary Schools</b> by Prof. Jukka Lehtinen	115
2.7	<b>France</b> <b>Information Processing in French Secondary Schools</b> by M. Pierre Muller	117
2.8	<b>Ireland</b> <b>The Present State of Research, Development and Evaluation</b> by the Department of Education	123
2.9	<b>Netherlands</b> <b>Computers in Education</b> by Mr. Jaap Akkermans and Mr. Jef Moonen	126
2.10	<b>Portugal</b> <b>Computer Studies</b> by the Ministry of Education and Culture	130
2.11	<b>Switzerland</b> <b>Computers in Swiss Secondary Education</b> by M. Alain Bron	133
	<b>PART 3: BACKGROUND PAPERS</b>	139
3.1	<b>Provisional List of Ongoing Research</b> prepared by the Secretariat Council of Europe	141
3.2	<b>Provisional Bibliography</b> prepared by the Secretariat Council of Europe	171
	<b>List of participants</b>	209