

CONTENTS

PREFACE	xi
PARTICIPANTS	xiii
SCIENTIFIC PROGRAMME	xv
PART I. GRAPH REPRESENTATIONS	
Comparability graphs D. Kelly	3
Algorithmic aspects of comparability graphs and interval graphs R.H. Möhring	41
The diagram I. Rival	103
PART II. SCHEDULING, SEARCHING AND SORTING	
The information theoretic bound for problems on ordered sets and graphs M.E. Saks	137
Sorting and graphs B. Bollobás and P. Hell	169
A graph-theoretic approach to the jump-number problem M.M. Syslo	185
Acyclic subdigraphs and linear orderings: polytopes, facets, and a cutting plane algorithm M. Grötschel, M. Jünger and G. Reinelt	217
PART III. EXTREMAL ORDERS	
Parameters of partial orders and graphs: packing, covering and representation D.B. West	267

Graphs and orders in Ramsey theory and in dimension theory M. Paoli, W.T. Trotter, Jr. and J.W. Walker	351
Ordered ranked posets, representations of integers and inequalities from extremal poset problems D.E. Daykin	395
PART IV. SOCIAL SCIENCES	
Issues in the theory of uniqueness in measurement F.S. Roberts	415
PART V. DECOMPOSITION	
Path-partitions in directed graphs and posets C. Berge	447
PART VI. RECURSION	
Recursion theoretic aspects of graphs and orders J.H. Schmerl	467
PART VII. WELL-QUASI-ORDERING	
Basic wqo- and bqo-theory E.C. Milner	487
Applications of well quasi-ordering and better quasi-ordering M. Pouzet	503
PART VIII. PROBLEM SESSIONS	
Introduction	522
Enumeration	523
The diagram	529
Ramsey theory	535

Sorting, scheduling, computing, operations research, and social science	543
Structure theories	549
Infinite sets and infinite graphs	559
Souvenir session	567
Order-preserving and edge-preserving maps	571
Miscellaneous	581
PART IX. A BIBLIOGRAPHY	
Introduction	592
PART X. INDEX	
	779