

TABLE OF CONTENTS

PREFACE	vii
OFFICERS OF THE DIVISION	ix
PROGRAMME COMMITTEE	ix
CHAIRMEN OF SECTIONAL COMMITTEES	ix
LOCAL ORGANIZING COMMITTEE	x
I / MATHEMATICAL LOGIC	
YU. L. ERSHOV / Constructions 'by Finite'	3
J. BARWISE / Some Eastern Two Cardinal Theorems	11
J.-Y. GIRARD / Functional Interpretation and Kripke Models	33
A. S. TROELSTRA / Axioms for Intuitionistic Mathematics Incompatible with Classical Logic	59
II / FOUNDATIONS OF MATHEMATICAL THEORIES	
J. E. BAUMGARTNER / Ineffability Properties of Cardinals II	87
W. A. J. LUXEMBURG / Non-Standard Analysis	107
YU. V. MATIJASEVIČ / Some Purely Mathematical Results Inspired by Mathematical Logic	121
L. W. SZCZERBA / Interpretability of Elementary Theories	129
III / CATEGORY THEORY	
S. FEFERMAN / Categorical Foundations and Foundations of Category Theory	149
IV / COMPUTABILITY THEORY	
G. E. SACKS / Re Sets Higher Up (Dedicated to J. B. Rosser)	173

I. A. LAVROV / Computable Numberings	195
Y. N. MOSCHOVAKIS / On the Basic Notions in the Theory of Induction	207
K. ČULÍK / Basic Concepts of Computer Science and Logic	237
E. ENGELER / Structural Relations between Programs and Problems	267
A. SALWICKI / Algorithmic Logic, a Tool for Investigations of Programs	281

V / PHILOSOPHY OF LOGIC AND MATHEMATICS

A. A. MARKOV / On a Semantical Language Hierarchy in a Constructive Mathematical Logic	299
--	-----

VI / ON THE CONCEPT OF A SET

H. WANG / Large Sets	309
C. PARSONS / What is the Iterative Conception of Set?	335

VII / PHILOSOPHY OF LOGIC

I. HACKING / Do-it-yourself Semantics for Classical Sequent Calculi, including Ramified Type Theory	371
V. V. TSELISHCHEV / Some Philosophical Problems of Hintikka's Possible Worlds Semantics	391
INDEX OF NAMES	405