## **CONTENTS**

Introduction	pag.	1
HYMAN BASS, Moments of the life of ICMI	<b>»</b>	9
JEREMY KILPATRICK, The development of mathematics education as an academic field	<b>»</b>	25
Reaction by Jean-luc Dorier	<b>»</b>	40
DINA TIROSH and PESSIA TSAMIR, Intuition and rigor in mathematics education	»	47
Reaction by Aldo Brigaglia	<b>»</b>	62
MOGENS NISS, Perspectives on the balance between application and modelling and 'pure' mathematics in the teaching and learning of mathematics	»	69
Reaction by Toshikazu Ikeda	<b>»</b>	85
JO BOALER, Bridging the gap between research and practice: International examples of success	»	91
Reaction by João Pedro Da Ponte	<b>»</b>	106
GERT SCHUBRING, The origins and early incarnations of ICMI	<b>»</b>	113
Fulvia Furinghetti, Marta Menghini, Ferdinando Arzarello, Livia Giacardi, ICMI Renaissance: The emergence of new issues in mathematics education	»	131
BIENVENIDO F. NEBRES, S.J.		
Centres and peripheries in mathematics education	»	149

Reaction by Gelsa Knijnik	pag.	163
Panel on ICMI's challenges and future:		
I: Morten Blomhøj	<b>»</b>	169
II: Mamokgethi Setati	<b>»</b>	180
MICHÈLE ARTIGUE,  ICMI: A century at the interface between  mathematics and mathematics education	»	185
Bernard R. Hodgson, Some views on ICMI at the dawn of its second century	<b>»</b>	199
Short Talks (Coordinators Alan Bishop and Lee Peng Yee):		
EILEEN F. DONOGHUE - The inception of ICMI:  David Eugene Smith and the founding of ICTM	»	205
ALAN J. BISHOP - The past four decades: consolidation and diversification	<b>»</b>	211
DEREK HOLTON - The process of an ICMI Study	<b>»</b>	217
Frederick K.S. Leung - The significance of the ICMI Study on mathematics education in East Asia and the West	»	223
UBIRATAN D'AMBROSIO ICMI and its influence in Latin America	<b>»</b>	230
JILL ADLER - ICMI in Africa and Africa in ICMI: The development of AFRICME	»	236
CLAUDI ALSINA - What is the impact of hosting an ICME for the organizing country? The case of ICME8 in Spain	<b>»</b>	242
LIM-TEO SUAT KHOH - ICMI activities in East and Southeast Asia: Thirty years of academic discourse and deliberations	<b>»</b>	247
BILL BARTON & FREDÉRIC GOURDEAU, WG1: Disciplinary mathematics and school mathematics	»	253
BARBRO GREVHOLM & DEBORAH LOEWENBRG BALL, WG2: The professional formation of mathematics teachers	, »	265
HILARY POVEY & ROBYN ZEEVENBERGEN, WG3: Mathematics education and society	. »	277
MARCELO C. BORBA & MARIA G. BARTOLINI BUSSI, WG4: Resources and technology throughout the history of ICMI	, »	289
GILAH LEDER & LUIS RADFORD, WG 5: Mathematics education: an ICMI perspective	. »	301
Participants	. »	312
Index of names	. »	315