CONTENTS

Preface		i
The Tokyo Declaration		vii
Opening Session		
Opening Address		
M. Ito		1
Perspective towards the 21s	st Century	
Diversity and Unity in Physic	es Research in the Age of Communication	
H. Ezawa		3
A. M. Harun-ar-rashid	Comment	16
H. Ezawa	Reply	17
Physics and Physicists for the	e 21st Century	
C. K. N. Patel		18
S. P. Chia	Comment	28
A. M. Harun-ar-rashid	Comment	29
The New Challenges for Phys	sics and Physicists	
H. Schopper		30
S. P. Chia	Comment	42
Physics and Physical Societie	es-Report on Questionnaires-	
H. Toki		43
A. M. Harun-ar-rashid	Comment	48
Physics Community and Int	ternational Organizations	
A Report on the UNESCO Ph	ysics Action Council	
D. N. Langenberg		49
The International Union of Pa	ure and Applied Physics(IUPAP) and Its Activities	
Y. Yamaguchi		58
Panel Discussion on Regiona	al Physical Societies	
Coordinator:		
J. R. Franz		
T. Kobayashi	Introduction - Regional Physical Societies	75

Panelist:		
G. Akdeniz	Global Circumstances and the Role of Physics in Balkans	76
C. A. A. de Carvalho	The Past, Present and Future of CLAF	83
M. Konuma	The Association of Asia Pacific Physical Societies (AAPPS)	87
S. P. Chia	Comment	91
N. Kroo	The European Physical Society	92
J. R. Franz	The American Physical Society	100
T. Kobayashi	Comment	102
C. Rhee	Comment	103
J. O. Malo	Physics in Africa	104
V. Sa-yakanit	Comment	111
Physics Education		
Activities of UNESCO on Un	iversity Physics Education	
M. Konuma		113
K. Kitahara	Comment	117
S. P. Chia	Remarks	118
A. M. Harun-ar-rashid	Comment	119
P. K. Buah-Bassuah	Physical Society in Ghana and Physics Education	120
Physics Education in the Uni	ited Kingdom	
W.F.Vinen		124
S. P. Chia	Remarks	131
A. M. Harun-ar-rashid	Comment	132
Panel Discussion on Physica	s Education for the Next Generation of the Physics Comm	unity
Coordinator:		
E. M. Henley		
M. Konuma		
Panelist:		
Y. Hara	Physics Education for the Next Generation of Physics Community	133
G. Marx		
KH. Zhao	Talk at the Panel Discussion on Physics Education	135
T. Inamura	Questions and Comments	138
C. Rhee	Comment	139

Physics and Industry		
Collaboration between Scient	entific Societies and Industries	
M. H. Brodsky		141
Applicable Physics, Take-of	ff from Applied Physics	
T. Sugano		148
J. L. Robins	Comments and Discussion	157
Panel Discussion on Relat	tions between Physics Community and Industrialized Society	
Coordinator:		
E. Maruyama	Relation between Physical Community and Industrialized Society	159
Panelist:		
H. G. Danielmeyer	On the Situation of Physics in Germany	160
C. Hilsum	Physics and Industry	163
H. Mizuno	Physics and Industry - The Challenge of the 21st Century	169
C. Rhee	Relation between Physical Community and Industrialized Society	170
Communications in Physic	ics	
Research and Academic Te	lecommunications around the World—A Role for UNESCO—	
I. A. Lerch		179
Telecommunications within	the World Community of Physicists	
J. C. Sens		194
Difficulties Encountered in	Publishing Society Journals	
T. Kawakubo		215
D. Kiss	Remarks	224
Panel Discussion on Crisi	s in Society Journals	
Coordinator:		
S. Kagoshima		
T. Kawakubo	Panel Discussion - Crisis in Society Journals	225
Panelist:		
B. Bederson	Electronic Publishing Activities at APS	226
IT. Cheon	Difficulties in Publishing Korean Physical Society Journals	229
D. Dao Vong	Status of the Publication of Physical Journals in Vietnam	235
A. Jones	Crisis in Society Journals	237
C. Rhee	Comment	240

Physics Community in Glob	al Circumstances	
Local Conflicts between Culti	ures: The Role of Science and the ICTP	
M. Virasoro		241
S. P. Chia	Remarks	255
A. M. Harun-ar-rashid	Comment	256
The Role of Mexico in the De	velopment of Physics in Latin America	
J. L. Moran-Lopez		257
Situation of Physics and Educ	cation in Physics in Latvia - Some Problems of Physics	in Latvia
J. Berzins		263
Physics in a Developing Cour	ntry - Malaysia	
S. P. Chia		269
My Comments on the Second	Asian Forum	
V. Sa-yakanit		275
The Role of Physics Research	and Education in Taiwan	
W-Y. P. Hwang		277
A Special Lecture		
Why Do Earthquakes Occur?		
Y. Fukao		285
Physics in the Former Sovie	et Union	
Physical Science in Russia un	nder Transition to a Market - Oriented Economy	
G. V. Kozlov		287
Past and Present of the Russi	an Physical Society	
V. V. Mikhailin		316
New Era of Physics in the Ce	ntral Asia	
S. Z. Zainabidinov		320
U.S. Assistance to Colleagues	s in the Former Soviet Union	
E. M. Henley		329
Collaboration of Scientists in	the Former Soviet Union and Japan	
Y. Ichikawa		332
The Roles of Physical Socie	ties in the Changing World	
Science and Scientist		
Y. Murakami		337
A M. Harun-ar-rashid	Comment	344

Coordinator: Y. Ichikawa H. Kamimura Summary of Panel Discussion 345 Panelist: N. G. Gaggioli The Role of Physical Societies in the Changing World 347 V. Gribkov Panel-discussion Talk 353 C. K. Patel J. L. Robins The Role of Physical Societies in the Changing World 354 I. Strzalkowski The Polish Physical Society and the Role of Physical Scoieties in the Changing World 358 G. Tibell The Role of Physical Societies in the Changing World 362 S. P. Chia Comment 364 C. Rhee 365 Comment **Concluding Remarks** Applied Physicists and Their Community

367

373

Panel Discussion on the Role of Physical Societies in the Changing World

S. Minami

Conference Program and List of Participants

Cover: The United Nations University where the RACIP2 was held. photograph courtesy of the United Nations University