

PROGRAM

THE SEARCH FOR ABSOLUTE VALUES
IN A CHANGING WORLD



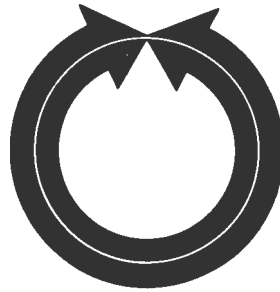
ICUS

THE SIXTH INTERNATIONAL CONFERENCE
ON THE
UNITY OF THE SCIENCES

NOVEMBER 25-27, 1977
Fairmont Hotel
San Francisco

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ICUS

PURPOSE

THE SIXTH INTERNATIONAL CONFERENCE ON THE UNITY OF THE SCIENCES

Scholars and scientists pursue their specialized fields of study. We ask: to what extent do such pursuits help mankind? Our intellectual endeavors will solve human problems more effectively if we can agree on a standard of value to guide both the theoretical quest and the practical application of scientific knowledge. Without such agreement, our knowledge may lead to self-destruction.

The purpose of this international conference is to provide an opportunity for scholars and scientists to reflect on the nature of knowledge and to discuss the relationship of science to the standard of value. It is expected that the papers and the general discussions in the program will be of a scholarly and scientific nature.

The symbol of ICUS represents the dynamics of religious and scientific knowledge, or the subjective and the objective.

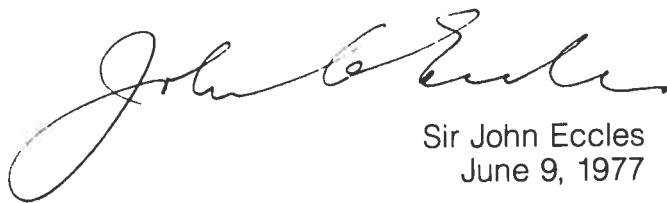
SIXTH ICUS THEME

THE SEARCH FOR ABSOLUTE VALUES IN A CHANGING WORLD

We are in the midst of the most critical period of mankind's long history of crises and revolutions. The world is changing with unprecedented speed and often in ways beyond prediction and control. In the past, crises in human history were often catastrophic in their impact, but were regional. Now they are global. The situation is exacerbated by the confrontations of great power blocks. The impending threat of nuclear annihilation compounds these problems. We feel how insignificant our efforts can be when pitted against this threat of overwhelming disaster.

Yet we have immense resources in the great cultural tradition of which we are the heirs. It is in this tradition that our conference is devoted to an analysis and evaluation of the factors responsible for our present crises and to an assessment of the many ways in which reason and sanity can eventually come to prevail. In the search for absolute values we can achieve a wise appraisal of the problem in the light of the accumulated wisdom of mankind. And hopefully we can suggest principles that can give guidance in the attempts to solve or ameliorate the grave problems of the changing world in our times.

What then are the preferred programs for the future? The exploration and development of such programs will be a large part of our creative and critical thinking at this conference. We must recognize that no one has a prerogative of truth. But we can be honest and courageous searchers. We must try to discover, in our guidance by values, the ways to ameliorate conditions in a piecemeal manner. No dogmatic pronouncements should be made of certain salvation from this or that evil. Rather should we adopt a modest position where there is continuous and critical evaluation of the proposed remedies and their continual updating in the light of this appraisal. Even the guiding principles should be continuously updated in the light of new insights into the nature of man as revealed in the search for absolute values.

A handwritten signature in black ink, appearing to read 'John Eccles', with a stylized, flowing script.

Sir John Eccles
June 9, 1977

SIXTH ICUS CHAIRMAN'S BOARD



SIR JOHN ECCLES, CHAIRMAN
Distinguished Emeritus Professor
State University of New York at Buffalo
USA/Switzerland

COMMITTEE I RELIGION AND PHILOSOPHY



Richard L. Rubenstein
Distinguished Professor
Dept. of Religion
Florida State University, USA



Daniel Lerner
Ford Professor of
Sociology &
International
Communication
M.I.T., USA

COMMITTEE III THE LIFE SCIENCES



Kenneth Mellanby
Zoologist and Director
Institute of Terrestrial
Ecology, UK

COMMITTEE IV THE PHYSICAL SCIENCES



Eugene P. Wigner
Professor of Physics
Princeton University

SIXTH ICUS ADVISORY BOARD

U.S. ADVISORY BOARD

1. O. Roger Anderson	Biology	Lamont Doherty Observatory Columbia University
2. Anne M. Briscoe	Biochemistry	Columbia Hospital Center
3. Morton A. Kaplan	International Relations	University of Chicago
4. Daniel Lerner	Sociology	M.I.T.
5. Richard L. Rubenstein	Religion	Florida State University
6. Frederick Seitz	Physics	President, Rockefeller University
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8. Roger W. Sperry	Psychobiology	Cal Tech
9. Eugene P. Wigner	Physics	Princeton University

INTERNATIONAL ADVISORY BOARD

1. Sir Derek Barton	Chemistry	Imperial College, UK
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3. Sir John Eccles	Neuroscience	SUNY-Buffalo, USA/Switzerland
4. Max Jammer	History of Science	Bar-Ilan University, Israel
5. R.V. Jones	Natural Philosophy	Aberdeen University, Scotland
6. Brian Josephson	Physics	University of Cambridge, UK
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8. Nicholas Kurti	Physics	University of Oxford, UK
9. T.A. Lambo	Medicine	WHO, Geneva, Switzerland
10. Hang-Nyong Lee	Philosophy of Law	President, Hong-Ik University, Korea
11. Masatoshi Matsushita	Law	President, Professors World Peace Academy of Japan
12. Kenneth Mellanby	Zoology	Institute of Terrestrial Ecology, UK
13. Yuval Ne'eman	Physics	Tel Aviv University, Israel
14. Sir Karl Popper	Philosophy	University of London, UK
15. U.S. von Euler	Medicine	Karolinska Institute, Sweden
16. Herman Wold	Statistics	University of Uppsala, Sweden
17. Antonino Zichichi	Subnuclear Physics	CERN, Geneva, Switzerland

AGENDA

24 NOVEMBER
Thursday

1:00 PM	Thanksgiving Dinner	Gold Room
2:15 PM	Orientation	Gold Room
3:00 PM	Break	
7:30 PM	General Reception	Gold Room

25 NOVEMBER
Friday

7:45 AM	Breakfast	Gold Room
9:00 AM	Opening Plenary Session Founder's Address— Reverend Sun Myung Moon Chairman's Address—Sir John Eccles Committee I Chairman—Richard L. Rubenstein Committee II Chairman—Daniel Lerner Committee III Chairman—Kenneth Mellanby Committee IV Chairman—Eugene P. Wigner Moderator—R.V. Jones	Grand Ballroom
10:15 AM	Break	
11:00 AM	Committees Meet—Group A Presentations Committee I (see p. 8) Committee II (see p. 12) Committee III (see p. 16) Committee IV (see p. 20)	Terrace Room French Room Crystal Room Ballroom Lounge
1:00 PM	Luncheon	Gold Room
3:00 PM	Committees Meet—Group B Presentations Committee I (see p. 9) Committee II (see p. 13) Committee III (see p. 17) Committee IV (see p. 21)	Terrace Room French Room Crystal Room Ballroom Lounge
5:00 PM	Break	
5:30 PM	Committee Meetings Continued—Group B	
7:00 PM	Dinner	Gold Room
8:15 PM	Discussion—Committee Chairmen each chair voluntary joint discussion of their respective Groups A & B after brief reports from Group A & B Chairmen.	
9:30 PM	Break	

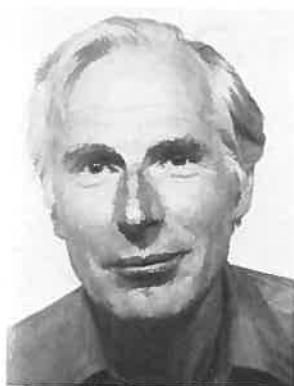
26 NOVEMBER Saturday	7:45 AM	Breakfast	Gold Room
	9:00 AM	Committees Meet—Group C Presentations Committee I (see p. 10) Committee II (see p. 14) Committee III (see p. 18) Committee IV (see p. 22)	Terrace Room French Room Crystal Room Ballroom Lounge
	10:30 AM	Break	
	11:15 AM	Committee Meetings Continued—Group C	
	12:30 PM	Luncheon	Gold Room
	2:30 PM	Committees Meet—Group D Presentations Committee I (see p. 11) Committee II (see p. 15) Committee III (see p. 19) Committee IV (see p. 23)	Terrace Room French Room Crystal Room Ballroom Lounge
	4:30 PM	Break	
	5:15 PM	Committee Meetings Continued—Group D	
	6:30 PM	Dinner	Gold Room
	7:45 PM	Discussion—Committee Chairmen each chair voluntary joint discussion of their respective Groups C & D after brief reports from Group C & D Chairmen.	
	9:00 PM	Break	
27 NOVEMBER Sunday	8:45 AM	Breakfast	Gold Room
	10:00 AM	Multidisciplinary Discussion Groups (see pp. 24-29)	
	11:30 AM	Break	
	12:00 PM	Discussion Groups Continued	
	1:00 PM	Luncheon	Gold Room
	2:30 PM	Concluding Plenary Session Oscar Handlin Carl H. Pforzheimer University Professor Harvard University , USA Charles Habib Malik Professor of Philosophy American University of Beirut , Lebanon.	Terrace Room
	4:00 PM	Break	
	7:00 PM	Farewell Banquet hosted by Reverend and Mrs. Sun Myung Moon	Grand Ballroom
28 NOVEMBER Monday	7:45 AM	Breakfast	Venetian Room

COMMITTEE I RELIGION AND PHILOSOPHY

Terrace Room

CHAIRMAN
RICHARD L. RUBENSTEIN

GROUP A: PHILOSOPHIES AS ALTERNATIVE MODES OF SOCIAL PRAXIS
25 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: ARNE NAESS
Emeritus Professor of Philosophy
University of Oslo, Norway

Topic and Speakers (A)

"The Conflict of Ideology and Ecology"

SPEAKER: Paul Shepard, Avery Prof. of Natural Philosophy and Human Ecology
Pitzer College, Claremont, CA, USA

COMMENTATOR: Sigmund Kvaloy, Research Associate in Human Ecology and Ecophilosophy
Oslo School of Architecture, Norway

"Theory and Practice in the Environmental Movement: Notes Towards an Ecology of Experience"

SPEAKER: John R. Rodman, Professor of Political Studies
Pitzer College and the Claremont Graduate School, USA

COMMENTATOR: Werner Becker, Professor of Philosophy
University of Frankfurt, West Germany

"Fields of Danger and the Wilderness of Wisdom"

SPEAKER: Joseph W. Meeker, Interdisciplinary Professor
Athabasca University, Canada

COMMENTATOR: Paolo Soleri, Architect & President
Cosanti Foundation, Scottsdale, AZ, USA

GROUP B: COMPARATIVE RELIGIOUS RESPONSES TO MODERNIZATION
25 NOVEMBER, FRIDAY—3:00 p.m.



CHAIRMAN: WALTER KAUFMANN
 Professor of Philosophy
 Princeton University, USA

Topics and Speakers (B)

“The Problems of Modernization in ‘Hinduism’ ”

SPEAKER: Ravi Ravindra, Associate Professor of Physics and of Religion
 Dalhousie University, Halifax, NS, Canada

COMMENTATOR: Margaret Chatterjee, Professor of Philosophy
 University of Delhi, India

“Religion and Modernization: The General Problem and Islamic Responses”

SPEAKER: Mohamed Al-Nowaihi, Professor of Arabic Language and Literature
 The American University in Cairo, Egypt

COMMENTATOR: Samir G. Khalaf, Professor of Sociology
 The American University of Beirut, Lebanon

“Modernism and Modernization in Buddhism”

SPEAKER: R.J. Zwi Werblowsky, Professor of Comparative Religion
 The Hebrew University of Jerusalem, Israel

COMMENTATOR: Jacob Yuroh Teshima, Reader in Judaic Studies
 Tokyo Bible Seminary, Tokyo, Japan

GROUP C: RELIGION AND SOCIETY

26 NOVEMBER, SATURDAY—9:00 a.m.



CHAIRMAN: H. MARTIN RUMSCHEIDT

Associate Professor of Historical Theology
Atlantic School of Theology, Halifax, NS,
Canada

Topics and Speakers (C)

"Metaphors of Kinship"

- SPEAKER:** Mary Catherine Bateson, Dean of Social Sciences and Humanities
Reza Shah Kabir University, Tehran, Iran
- COMMENTATOR:** Jude P. Dougherty, Dean, School of Philosophy
The Catholic University of America, Washington, D.C.
- COMMENTATOR:** Warren Lewis, Professor of Church History
Unification Theological Seminary, Barrytown, NY, USA

"Authority in a Pluralistic World"

- SPEAKER:** Lonnie D. Kliever, Professor and Chairman, Department of Religion
Southern Methodist University, Dallas, TX, USA
- COMMENTATOR:** Joseph D. Bettis, Dean and Professor
Fairhaven College, Western Washington University, USA
- COMMENTATOR:** Gabriel Vahanian, Jeannette K. Watson Professor of Religion
Syracuse University, USA/France

"Faith and the Multiversity"

- SPEAKER:** George B. Grant, Professor of Religious Studies
McMaster University, Hamilton, Ontario, Canada
- COMMENTATOR:** Jean-Guy LeMarier Dean, Faculty of Theology
St. Paul University, Ottawa, Ontario, Canada
- COMMENTATOR:** Herbert Richardson, Professor of Religion
St. Michael's College, University of Toronto, Canada

GROUP D: RELIGION AND SCIENCE
26 NOVEMBER, SATURDAY—2:30 p.m.



CHAIRMAN: FREDERICK FERRE
 Charles A. Dana Professor of Philosophy
 Dickinson College, Carlisle, PA, USA
 (Currently Visiting Prof. Of Philosophy
 and Visiting Prof. of Technology and
 Public Policy, Vanderbilt University, USA)

Topics and Speakers (D)

“Beyond Scientism: Science and Religion in Dialogue”

SPEAKER: Donald R. Ferrell, Associate Professor of Philosophy and Religion
 Doane College, Crete, NE, USA

COMMENTATOR: Merle F. Allshouse, President
 Bloomfield College, Bloomfield, NJ, USA

COMMENTATOR: Morris I. Berkowitz, Professor of Sociology
 Brock University, St. Catherine's, Ontario, Canada

**“On the Structural Resemblances in Ultimate Religious,
 Philosophical and Scientific Thought”**

SPEAKER: Ben-Ami Scharfstein, Professor of Philosophy
 Tel-Aviv University, Israel

COMMENTATOR: Irwin C. Lieb, Vice-President and Graduate Dean
 University of Texas at Austin, USA

COMMENTATOR: Susan Minot Woody, Professor of Philosophy
 Connecticut College, New London, CT, USA

“Persons in Recent Thought”

SPEAKER: H.D. Lewis, Professor of History and Philosophy of Religion
 King's College, London, UK

COMMENTATOR: Mary Carman Rose, Professor and Chairman, Department of Philosophy
 Goucher College, Towson, MD, USA

COMMENTATOR: Bradley T. Scheer, Emeritus Professor of Biology
 University of Oregon, USA

COMMITTEE II THE SOCIAL SCIENCES

French Room

CHAIRMAN
DANIEL LERNER

GROUP A: INTERCULTURAL COMMUNICATION IN A CHANGING WORLD
25 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: Y.V.L. RAO
Communications Consultant
UNESCO, Paris, France

Topics and Speakers (A)

"Indonesia's Television Satellite: The First Year"

SPEAKER: Alfian, Research Director
National Institute of Economic and Social Research, Indonesia

"Communication in History: The Role of Science"

SPEAKER: Giancarlo Masini, Professor of Physical Chemistry
University of Florence, Italy;
Science Editor, IL GIORNALE NUOVO

GENERAL

COMMENTATOR: Ervin Laszlo, Professor of Philosophy
State University of New York at Geneseo, USA
(Currently on leave as Special Fellow at UNITAR, NY, NY.)

GROUP B: VALUES, POLICY AND THE CONTROL OF VIOLENCE
25 NOVEMBER, FRIDAY—3:00 p.m.



CHAIRMAN: FRANCO FERRACUTI, M.D.
Professor of Criminological Medicine
and Forensic Psychiatry,
University of Rome, Italy

Topics and Speakers (B)

"Tracing the Sources of Violence: The Turkish Case"

SPEAKER: Serif Mardin, Dean, School of Administrative Sciences
Bogazici University, Istanbul, Turkey

"The Roots of Violence and Problems of Control"

SPEAKER: Ratna Naidu, Associate Professor of Sociology
The Indian Institute of Economics, Hyderabad, India

"Values, Policy and the Control of Violence"

SPEAKER: Selo Soemardjan, Professor of Sociology
University of Indonesia, Djakarta

GENERAL

COMMENTATOR: Ambassador Martin F. Herz
U.S. Department of State, Washington, D.C.

GROUP C: PROJECTING A NEW ECONOMIC WORLD ORDER
26 NOVEMBER, SATURDAY—9:00 a.m.



CHAIRMAN: PHILIP M. HAUSER
 Lucy Flower Professor Emeritus
 of Urban Sociology & Director Emeritus,
 Population Research Center,
 University of Chicago, USA

Topics and Speakers (C)

“On Problematic Aspects of the New Economic World Order”

SPEAKER: Philip M. Hauser, Chairman

“World Development Policies: The Case of Jordan”

SPEAKER: Kamel Abu Jaber, Dean, Faculty of Economics and Commerce
 University of Jordan, Amman

“Projecting the New Economic World Order”

SPEAKER: Abba P. Lerner, Distinguished Professor of Economics
 Queen's College and the Graduate Center, CUNY, USA

GENERAL

COMMENTATOR: S. Fred Singer, Professor of Environmental Sciences
 University of Virginia, Charlottesville, USA
 (Currently on leave at Center of Population Studies,
 Harvard University)

GROUP D: SHAPING A NEW POLITICAL WORLD ORDER
26 NOVEMBER, SATURDAY – 2:30 p.m.



CHAIRMAN: OSCAR SCHACTER
Professor of International Law
Columbia University Law School, USA

Topics and Speakers (D)

“Shaping the New International Order”

SPEAKER: Georges Berthoin, European Chairman
Trilateral Commission, Paris, France

“Can Democracy Promote Development?”

SPEAKER: Kasim Gulek
Ankara, Turkey

“The Shaping of Democracy in Developing Countries”

GENERAL
COMMENTATOR: Ilter Turan, Professor of Political Science
Istanbul University, Turkey

COMMITTEE III THE LIFE SCIENCES

Crystal Room

CHAIRMAN
KENNETH MELLANBY

GROUP A: THE ETHICS OF RESEARCH ON RECOMBINANT DNA
25 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: CLAUDE A. VILLEE, JR.
Andelot Professor of Biological Chemistry
Harvard University, USA

Panel Discussion (A)

- PANELIST: Benjamin Alexander, President
Chicago State University, USA
- PANELIST: Gordon C. Butler, Director of Biological Division
National Research Council of Canada
- PANELIST: Ernest W. Caspari, Professor of Biology Emeritus
University of Rochester, USA
- PANELIST: Robert W. Newburgh, Professor of Biochemistry
and Dean of Graduate School,
Oregon State University, USA

**GROUP B: HEALTH CARE AS A GLOBAL PROBLEM:
SOCIAL AND BEHAVIORAL ASPECTS
25 NOVEMBER, FRIDAY—3:00 p.m.**



CHAIRMAN: EDWIN W. BROWN, M.D., M.P.H.
 Assoc. Prof. of Community Health Sciences
 Indiana University Medical Center, USA
 (Currently on leave as Sr. Medical
 Education Advisor, King Faisal University,
 Damman, Saudi Arabia)

Topics and Speakers (B)

“Indigenous Practices for the Integrated Health Care System”

SPEAKER: Barbara L.K. Pillsbury, Professor of Anthropology
 San Diego State University, USA
 (Currently on leave at A.I.D.,
 U.S. Dept. of State, Washington, D.C.)

COMMENTATOR: Jan Kryspin, M.D., Ph.D., Clinical Teacher
 Division of Neurosurgery, University of Toronto Clinics, Canada

“Medical Education in Cross-Cultural Setting”

SPEAKER: T.J. Danaraj, Head of Dept. of Medicine
 King Abdulaziz University, College of Medicine
 and Allied Health Sciences, Jeddah, Saudi Arabia

COMMENTATOR: Roger W. Wescott, Prof of Anthropology and Linguistics
 Drew University, Madison, NJ, USA

**“Meeting Health Care Needs at the Neighborhood Level
in the Inner City”**

SPEAKER: John Karefa-Smart, M.D., Medical Director
 Roxbury Comprehensive Community Health Care Center
 Roxbury, MA, USA/Sierra Leone

COMMENTATOR: George R. Wren, Professor and Director
 Institute of Health Administration
 Georgia State University, Atlanta, GA, USA

GENERAL

COMMENTATOR: Elisabeth Kubler-Ross, M.D.
 Ross Medical Associates, Flossmoor, IL, USA;
 Chairman of the Board, Shanti Nilaya, Escondido, CA

**GROUP C: HEALTH CARE AS A GLOBAL PROBLEM
IN OUR CHANGING WORLD**
26 NOVEMBER, SATURDAY—9:00 a.m.



CHAIRMAN: JULIAN L. AMBRUS, M.D., PH.D., F.A.C.P.
Prof. of Internal Medicine & Experimental
Pathology
State University of New York at Buffalo;
Head of Dept. of Pathophysiology
Roswell Park Memorial Institute,
New York State Dept. of Health

Topics and Speakers (C)

**“Health Care as a Global Problem: The Need for International Cooperation
—An International View”**

- SPEAKER:** David Tejada-de-Rivero, M.D., Assistant Director-General
World Health Organization, Geneva, Switzerland
- COMMENTATOR:** P.V. Sukhatme, Honorary Professor of Biometry
Maharashtra Association for Cultivation of Science, India
- COMMENTATOR:** Ljubisav Rakic, Professor and Head
Dept of Physiology and Biochemistry, Faculty of Medicine
University of Belgrade, Yugoslavia

“Health Care in Developing Countries: A National View”

- SPEAKER:** E.O. Pratt, M.D., M.P.H., Population Specialist
The World Bank, Washington, D.C., USA/Sierra Leone
- COMMENTATOR:** Karoly Akos, M.D., Head of Psychochronography Research
National Institute of Medical Experts, Budapest, Hungary
- COMMENTATOR:** Juan Antonio Gomez, M.D., Prof. of Neurosurgery
University of Bogota, Colombia

“Health-Related Research and Education as Global Problems”

- SPEAKER:** Julian L. Ambrus, Chairman
- COMMENTATOR:** N.H. Keswani, Dean
All-India Institute of Medical Sciences
New Delhi, India

**GROUP D: BIOLOGICAL FOUNDATION OF ALTRUISM, DEDICATION
AND EGOISM**

26 NOVEMBER, SATURDAY—2:30 p.m.



CHAIRMAN: ALBERT SOMIT
Executive Vice-President and
Professor of Political Science
State University of New York
at Buffalo, USA

Topic and Speakers (D)

**“Biological Foundation of Altruism, Dedication and Egoism:
The Viewpoint of an Anthropologist”**

SPEAKER: Joseph Shepherd, Assoc. Prof. of Sociology & Anthropology
University of Haifa, Israel
(Currently Visiting Professor at the Museum of
Comparative Zoology, Harvard University, USA)

COMMENTATOR: Magoroh Maruyama, Professor of Anthropology
Portland State University, USA
(Currently Bernardin Distinguished Visiting Professor
Department of Psychology, University of Missouri-Kansas City)

“Biological Foundation of Altruism, Dedication and Egoism”

SPEAKER: David P. Barash, Associate Prof. of Zoology and Psychology
University of Washington-Seattle, USA
(Currently on leave at Center for Advanced Study in the
Behavioral Sciences, Stanford, CA)

COMMENTATOR: James F. Danielli, Professor of Life Sciences
Worcester Polytechnic Institute, Worcester, MA, USA;
Editor, Journal of Social and Biological Structures

“The Evolution of Altruism”

SPEAKER: Sir John Eccles, Conference Chairman

COMMENTATOR: Eileen V. Barker, Professor of Sociology
The London School of Economics and Political Science, UK

COMMITTEE IV THE PHYSICAL SCIENCES

Grand Ballroom Lounge

CHAIRMAN
EUGENE P. WIGNER

GROUP A: LIMITS OF SCIENCE

25 NOVEMBER, FRIDAY—11:00 a.m.



CHAIRMAN: JOHN S. TOLL
President and Professor of Physics
State University of New York
at Stony Brook, USA

Topic and Speakers (A)

"Physics and the Search for the Absolute"

SPEAKER: Max Jammer, Professor of Natural Philosophy & History of Science
Bar-Ilan University, Israel

COMMENTATOR: Se-Won Yoon, Professor of Physics and Dean
College of Engineering, Kyung-Hee University, Seoul, Korea

"Limits of Science"

SPEAKER: Eugene P. Wigner, Committee IV Chairman

COMMENTATOR: Henry Margenau
Eugene Higgins Professor of Physics and Philosophy
Yale University, USA

COMMENTATOR: Maurice M. Shapiro, Chief Scientist
Laboratory of Cosmic Ray Physics
Naval Research Lab, Washington, D.C., USA

GROUP B: A CONSIDERATION OF THE UNIVERSE AS A WHOLE
25 NOVEMBER, FRIDAY—3:00 p.m.



CHAIRMAN: YUVAL NE'EMAN
Professor of Physics
Tel-Aviv University, Israel

Topics and Speakers (B)

"Overall Properties of the Universe"

SPEAKER: Mael Melvin, Professor of Physics
Temple University, Philadelphia, PA, USA

COMMENTATOR: Lloyd Motz, Prof. of Astronomy
Columbia University, New York, NY, USA

"Man's Place in the Universe and the Possibility of Extra-Terrestrial Life"

SPEAKER: Thomas B.H. Kuiper, Senior Scientist
Jet Propulsion Laboratory
California Institute of Technology, USA

COMMENTATOR: Yuval Ne'eman, Chairman

**GROUP C: THE BRAIN-MIND PROBLEM IN RELATION
TO THE PHYSICAL SCIENCES**
26 NOVEMBER, SATURDAY—9:00 a.m.



CHAIRMAN: KARL H. PRIBRAM
Professor of Neuroscience
Stanford University, USA

Topic and Speakers (C)

"Some Thoughts on the Matter of the Mind/Body Problem"

SPEAKER: Daniel N. Robinson, Professor of Psychology
Georgetown University, Washington, D.C., USA

COMMENTATOR: Miguel R. Covian, Professor of Physiology
University of Sao Paulo, Brazil

"A Basic Difficulty in the Mind-Brain Identity-Hypothesis"

SPEAKER: J.W.N. Watkins, Professor of Philosophy
The London School of Economics and Political Science, UK

COMMENTATOR: Grover Maxwell, Professor of Philosophy and Director
Minnesota Center for Philosophy of Science,
University of Minnesota, Minneapolis, USA

**"Subjective and Neuronal Time Factors in Conscious Sensory Experience,
Studied in Man, and Their Implications for the Mind-Brain Relationship"**

SPEAKER: Benjamin Libet, Professor of Physiology
School of Medicine, University of California, San Francisco, USA

COMMENTATOR: K.B. Madsen, Professor of General Psychology
Royal Danish School of Educational Studies,
Copenhagen, Denmark

GROUP D: THE BOUNDARIES OF SCIENCE AND TECHNOLOGY
26 NOVEMBER, SATURDAY—2:30 p.m.



CHAIRMAN: MAX JAMMER
 Professor of Natural Philosophy
 and History of Science
 Bar-Ilan University, Israel

Topic and Speakers (D)

“Progress and the Limits of Science”

- SPEAKER:** Dudley Shapere, Professor of Philosophy of Science
 University of Maryland, College Park, USA
- COMMENTATOR:** Felix Cernuschi, Professor and Director Emeritus
 Department of Astronomy and Physics,
 University of the Republic, Montevideo, Uruguay

“The Boundaries of Science and Technology”

- SPEAKER:** Gerard Radnitzky, Professor of Philosophy
 University of Trier, West Germany
- COMMENTATOR:** Kemal Karhan, Professor of Engineering Science and Dean
 Faculty of Engineering, Ege University, Izmir, Turkey
- COMMENTATOR:** Joseph Silverman, Professor and Director
 Institute for Physical Science and Technology
 University of Maryland, College Park, USA

“Technology and Values in a Changing World”

- SPEAKER:** Malcolm H. Gotterer, Professor of Computer Science
 Florida International University, Miami, FL, USA
- COMMENTATOR:** Mahmood J. Nahvi, Professor and Chairman
 Department of Electrical Engineering,
 Arya-Mehr University, Tehran, Iran
- COMMENTATOR:** H.H. Young, Professor of Industrial Engineering
 Arizona State University, USA

DISCUSSION GROUPS

27 NOVEMBER, SUNDAY—10 AM

GROUP 1: MEDIA FREEDOM AND RESPONSIBILITY

CRYSTAL ROOM—EAST

CHAIRMAN: SIR CHARLES MOSES
 Secretary-General
 Asian Broadcasting Union,
 Sydney, Australia



"The News Media: Freedom and Responsibility"

SPEAKER: Reed J. Irvine, Chairman of the Board
 Accuracy in Media, Inc., Washington, D.C., USA

GENERAL COMMENTATOR: John Spence, Director of Management Sciences
 W.D. Scott & Co. Pty, Ltd., North Sydney, Australia

GENERAL COMMENTATOR: Timothy Yu, Professor of Journalism and Communications
 Director, Center for Communications Studies,
 Chinese University of Hong Kong

GROUP 2: DEATH AND THE MEANING OF LIFE

PAVILION ROOM

CHAIRMAN: JOHN HICK
 H.G. Wood Professor of Theology
 University of Birmingham, UK



"Death and the Meaning of Life"

SPEAKER: Kai Nielsen, Professor of Philosophy
 University of Calgary, Alberta, Canada

"Death and the Meaning of Life—A Hindu Response"

SPEAKER: Ramchandra Gandhi, Reader in Philosophy
 University of Delhi, India

"Death and the Meaning of Life in the Christian Tradition"

SPEAKER: W. Norris Clarke, S.J., Professor of Philosophy
 Fordham University, Bronx, NY, USA

**GROUP 3: THE RELATIONSHIP OF GOVERNMENT AND BUSINESS TO THE
INDIVIDUAL IN DEMOCRATIC AND TOTALITARIAN SYSTEMS**
CRYSTAL ROOM—WEST

MAIN SPEAKER: ERWIN K. SCHEUCH
Professor of Sociology
and Co-Director, Institute for
Applied Social Research,
University of Cologne,
West Germany



MODERATOR: Donald McL. Lamberton, Professor and Head
Department of Economics,
University of Queensland, Australia

GROUP 4: WAYS AND MEANS OF MULTIDISCIPLINARY STUDIES
GRAND BALLROOM LOUNGE

MAIN SPEAKER: HERMAN WOLD
Professor of Statistics,
University of Uppsala, Sweden
(Currently Visiting Professor,
Wharton School, University of
Pennsylvania, USA)



“Interdisciplinary Creativity”

SPEAKER: Anthony R. Michaelis, Editor
Interdisciplinary Science Reviews, London, UK

“Systemic Research of the Future”

SPEAKER: Alexandre Marc, Founder and Permanent Delegate
International Center of European Education, Nice, France

**“Toward A Theory of Man: A Multi-Disciplinary,
Multi-Systems, Multidimensional Approach”**

SPEAKER: J.R. Royce, Professor and Director
The Center for Advanced Study in
Theoretical Psychology, University of Alberta,
Edmonton, Canada

MODERATOR: R.V. Jones, Professor of Natural Philosophy
Aberdeen University, UK

**GROUP 5: SCIENCE AS AN EXPERIENCE OF THE ABSOLUTE:
RELIGIOUS AND MORAL IMPLICATIONS OF RESEARCH**
FOUNTAIN ROOM—EAST

MAIN SPEAKER: ENRICO CANTORE, Director
Institute for Scientific Humanism
Fordham University, Bronx, NY, USA

GENERAL COMMENTATOR: Choon-Sup Kim, Professor & Chairman
Dept. of Philosophy, Seoul National U., Korea

MODERATOR: Panos D. Bardis, Professor of Sociology
University of Toledo, OH, USA



**GROUP 6: THE FUTURE OF HUMANITY IN A WORLD
OF FINITE RESOURCES**
FRENCH ROOM

MAIN SPEAKER: ALEXANDER KING, CHAIRMAN
International Federation of Institutes
for Advanced Study (IFIAS)
Paris, France

MODERATOR: Alastair M. Taylor, Prof. of Political Studies
and Geography, Queen's University
Kingston, Ontario, Canada



**GROUP 7: SCIENTIFIC RESEARCH AND ENQUIRY: IVORY TOWER OR THE
MARKET PLACE, SLAUGHTERHOUSE OR SHANGRI-LA?**
FOUNTAIN ROOM—WEST

MAIN SPEAKER: NICHOLAS KURTI
Professor of Physics
University of Oxford, UK

MODERATOR: Albert J. Butros, Director-General
Royal Scientific Society of Jordan



GROUP 8: FUTURE OF THE FAMILY: A CROSS-CULTURAL PERSPECTIVE
GARDEN ROOM

MAIN SPEAKER: KIVUTO NDETI, Director
Center for African Family Studies
Egerton College
Njoro, Kenya



**“Women and the Family in the Muslim Middle East:
Past, Present and Future”**

SPEAKER: Nikki R. Keddie, Professor of History
University of California at Los Angeles, USA

MODERATOR: Marvin B. Sussman, Professor and Chairman
Department of Medical Social Sciences,
Bowman Gray School of Medicine, Winston-Salem, NC, USA

GENERAL COMMENTATOR: Edwin Terry Prothro, Professor of Psychology
and Director, Center for Behavioral Research,
The American University of Beirut, Lebanon/USA

GROUP 9: HOW CAN ATOMIC ENERGY HELP MAN'S FUTURE?
CIRQUE ROOM

MAIN SPEAKER: BERNARD L. COHEN
Professor of Physics & Director
Nuclear Lab,
University of Pittsburgh, USA



“The Future of Mankind—The Nuclear Imperative”

SPEAKER: Marcelo Alonso, Director, Dept. of Scientific Affairs
Organization of American States (OAS), Washington, D.C. USA;
Executive Secretary, Inter-American Nuclear Energy Commission

MODERATOR: Bulent Atalay, Professor and Chairman
Department of Physics and Astronomy,
Mary Washington College, Fredericksburg, VA, USA

GROUP 10: ALIENATION AND IDENTIFICATION

VANDERBILT ROOM—TERRACE LEVEL

MAIN SPEAKER: MORTON A. KAPLAN
Professor of Political Science and
Chairman, Committee on
International Relations
University of Chicago, USA



MODERATOR: Dan V. Segre, Professor of International Relations
Haifa University, Israel

GROUP 11: SYSTEMATIC INTERRELATIONS OF DIFFERENT TYPES OF VALUE

STATE ROOM—MEZZANINE LEVEL

MAIN SPEAKER: JOHN N. FINDLAY
University Professor of Philosophy
Boston University, USA



“The Systematic Interrelation of Types of Values”

SPEAKER: Renate K. Mayntz, Professor of Sociology and
Co-Director, Institute for Applied Social Research,
University of Cologne, West Germany

“Changes in the Valuation of Human Life and of Human Life Stages”

SPEAKER: Alexander Szalai, Professor of Sociology
Karl Marx University of Economic Sciences,
Budapest, Hungary

**GENERAL
COMMENTATOR:** Ki-Kun Chang, Professor of Chinese Literature
Seoul National University, Korea

MODERATOR: Alexander Szalai

GROUP 12: THE ROLE OF EDUCATION IN IMPARTING VALUES
VENETIAN ROOM—NORTH

MAIN SPEAKER: ROBERT MacVICAR, President
Oregon State University
Corvallis, Oregon, USA



COMMENTATOR: Ali A. Mazrui, Professor of Political Science
University of Michigan at Ann Arbor, USA/Kenya

GENERAL
COMMENTATOR: Farhang Mehr, Chancellor
Pahlavi University, Shiraz, Iran

GENERAL
COMMENTATOR: Hideyasu Nakagawa, President
International Christian University, Tokyo, Japan

MODERATOR: Robert C. Brasted, Professor of Chemistry & Director
of General Chemistry, University of Minnesota, USA

GROUP 13: THE SOCIAL MEANING OF ARTISTIC CREATIVITY
VENETIAN ROOM—SOUTH

MAIN SPEAKER: RENÉ BERGER, Director & Curator
Museum of Fine Arts
Lausanne, Switzerland



“The Meaning of Artistic Creativity”

SPEAKER: Mikel Dufrenne, Professor of Philosophy Emeritus
University of Paris at Nanterre, France

“Towards A Definition of Poetry”

SPEAKER: Aleksis Rannit, Professor and Curator
of Slavic and East European Literature
Yale University, USA

MODERATOR: Maurice Goldsmith, Director
Science Policy Foundation, London, UK



ICF

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 2. REGISTRATION AND INFORMATION DESK.
 3. SENO TRAVEL SERVICE—Ms. Karen Kardel will be on hand to arrange return air-flights.
 4. GROUND TRANSPORTATION—Mr. Fred Goble will direct return ground transportation to San Francisco Bay Area Airports.
 5. ICF PRESS—Far East Room. Mr. Glenn Carroll Strait will be available to answer questions about copyright or paper revisions.
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