

PROGRAM

THE RESPONSIBILITY
OF THE ACADEMIC COMMUNITY
IN THE SEARCH FOR ABSOLUTE VALUES



ICUS

THE EIGHTH INTERNATIONAL CONFERENCE
ON THE
UNITY OF THE SCIENCES

NOVEMBER 22-25, 1979
CENTURY PLAZA HOTEL
LOS ANGELES, CALIFORNIA

CONTENTS

What is "ICUS"?	2
Purpose of ICUS	3
Eighth ICUS Chairman's Board	4
Eighth ICUS Advisory Board	5
Agenda	6-7
Program—Committee I	8-11
Program—Committee II	12-15
Program—Committee III	16-19
Program—Committee IV	20-23
Sunday Discussion Groups	24-29
International Cultural Foundation	30
ICF-ICUS Branch Offices	31
General Information	32

WHAT IS "ICUS"?

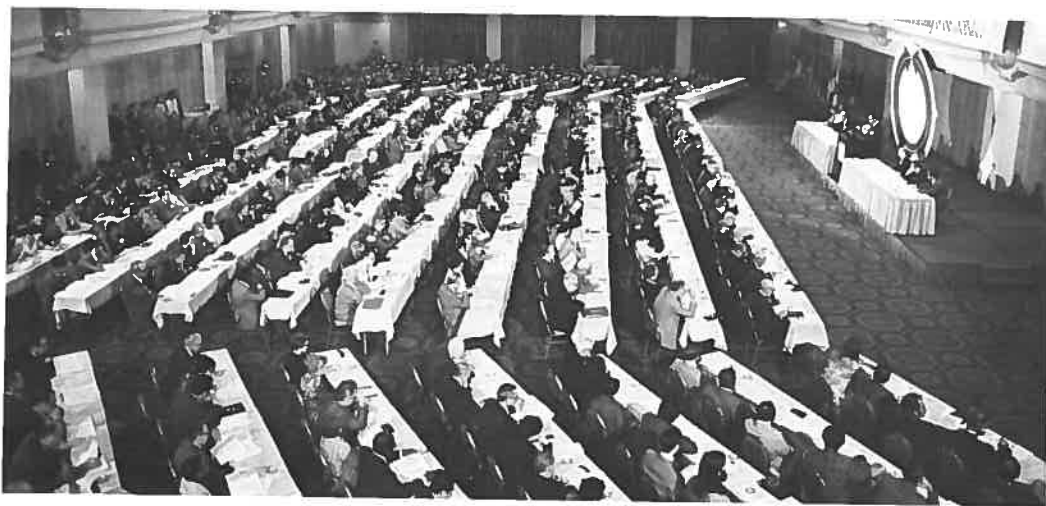
"ICUS" stands for the annual "International Conference on the Unity of the Sciences." Sponsored by the International Cultural Foundation, Inc., this unique conference convenes distinguished scholars and scientists from around the globe and from every field of study to pursue timely and significant issues of worldwide concern. Conference themes have been developed around the search for a central standard of value to solve the crisis of fragmentation of the sciences in the face of pressing global problems.

What makes this conference unique? ICUS is the only conference of its kind which is truly international, interdisciplinary, and concerned with the world as a whole. There is very little institutional support for a meeting of such scope among most scientific and educational organizations with more limited concerns, despite a very real need.

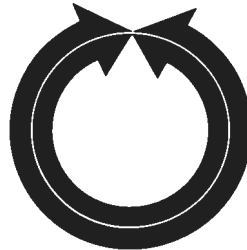
And what is this particular need to which ICUS responds? Dr. Alexander King, Chairman of the International Federation of Institutes for Advanced Study and Co-Founder of The Club of Rome, explains it as follows:

"ICUS is the only world occasion where scholars from diverse disciplines can come together and discuss mutual interactions in their work as a multidisciplinary attack on global problems."

Over 400 scholars and scientists from 60 nations will gather this weekend in Los Angeles for the Eighth ICUS. Under the general theme of "The Responsibility of the Academic Community in the Search for Absolute Values," they will advance the pursuit for answers to the perplexing problems of our age.



Sixth ICUS Opening Plenary Session, San Francisco, 1977



ICUS

PURPOSE OF ICUS

Science has developed with the ideal of increasing human knowledge, and indeed, has contributed greatly to human prosperity. Mankind, however, is presently confronted with grave dangers resulting from the often unintended, but harmful side effects of technological applications of scientific knowledge; environmental pollution, populations and cities under stress, global economic inequalities and instabilities, shortages of energy and other natural resources, and the threat of nuclear disaster.

Underlying these ecological dangers is a fundamental crisis of values—the loss of confidence in traditional religious beliefs and philosophies as reliable standards of moral and ethical behavior. Some would argue that scientific progress has actually precipitated our present moral dilemma. What emerges is the growing recognition of the critical importance of the search for a more integrated understanding which harmonizes the diverse fields of human knowledge with a guiding standard of value.

As scholars and scientists pursue their specialized fields of study, we ask: to what extent do such pursuits contribute to solving the moral and social crisis of our time? Our intellectual endeavors will solve human problems more effectively if we can agree on a central standard of value to guide the theoretical quest and practical application of scientific knowledge. Without such agreement, our knowledge may lead to self-destruction. Therefore, the purpose of ICUS 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.

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

EIGHTH ICUS CHAIRMAN'S BOARD

CHAIRMAN



Eugene P. Wigner
Professor of Physics Emeritus
Princeton University, USA

VICE-CHAIRMAN



Sir John Eccles
Distinguished
Emeritus Professor
SUNY-Buffalo
USA/Switzerland

VALUES AND CONSCIOUSNESS COMMITTEE I CHAIRMAN



Walter Kaufmann
Stuart Professor of Philosophy
Princeton University, USA

CHANGE AND DEVELOPMENT COMMITTEE II CHAIRMAN



Morton A. Kaplan
Professor of Political Science
and Chairman, Committee on
International Relations
University of Chicago, USA

POPULATION AND QUALITY OF LIFE COMMITTEE III CHAIRMAN



Aurelio Peccei
Founder and President
The Club of Rome
Italy

VISION AND DIRECTION OF THE FUTURE COMMITTEE IV CHAIRMAN AND VICE-CHAIRMAN



Frederick Seitz
Past President
The Rockefeller University and
The National Academy
of Sciences, USA

U.S. ADVISORY BOARD

1. **Julian L. Ambrus**, Professor of Internal Medicine and Experimental Pathology
SUNY-Buffalo
2. **O. Roger Anderson**, Senior Research Associate in Biology, Lamont-Doherty Observatory
Columbia University
3. **Frederick Ferré**, Charles A. Dana Professor of Philosophy, Dickinson College, Carlisle, PA
4. **John N. Findlay**, University Professor of Philosophy, Boston University
5. **Morton A. Kaplan**, Professor of Political Science
University of Chicago
6. **Walter Kaufmann**, Stuart Professor of Philosophy, Princeton University
7. **Abba P. Lerner**, Professor of Economics
The Florida State University
8. **Daniel Lerner**, Ford Professor of Sociology and International Communication, M.I.T.
9. **Robert MacVicar**, President
Oregon State University
10. **Robert S. Mulliken**, Professor of Chemistry
University of Chicago
11. **Karl H. Pribram**, Professor of Neuroscience
Stanford University
12. **Richard L. Rubenstein**, Distinguished Professor of Philosophy
The Florida State University
13. **Frederick Seitz**, Past President, The Rockefeller University and The National Academy of Sciences
14. **Frederick E. Sontag**, Robert C. Denison Professor of Philosophy, Pomona College, Claremont, CA
15. **Claude A. Villée, Jr.**, Andelot Professor of Biological Chemistry, Harvard University
16. **Paul A. Weiss**, Professor of Biology
Rockefeller University
17. **Eugene P. Wigner**, Professor of Physics Emeritus
Princeton University

INTERNATIONAL ADVISORY BOARD

1. **Miguel R. Covan**, Professor of Physiology
State University of Campinas, Brazil
2. **Sir John Eccles**, Distinguished Emeritus Professor
SUNY-Buffalo, USA/Switzerland
3. **Franco Ferracuti**, Professor of Criminological Medicine and Forensic Psychiatry
University of Rome, Italy
4. **Max Jammer**, Professor of Natural Philosophy and History of Science, Bar-Ilan University, Israel
5. **R.V. Jones**, Professor of Natural Philosophy
Aberdeen University, UK
6. **Alexander King**, Chairman
IFIAS, Paris, France
7. **Koentjaraningrat**, Professor and Head
Department of Anthropology
University of Indonesia
8. **Nicholas Kurti**, Emeritus Professor of Physics
University of Oxford, UK
9. **T.A. Lambo**, Deputy Director General
World Health Organization (W.H.O.)
Geneva, Switzerland
10. **Hang-Nyong Lee**, President and Professor of Philosophy of Law, Hong-ik University, Korea
11. **Charles Habib Malik**, Distinguished Professor of Philosophy
American University of Beirut, Lebanon
12. **Masatoshi Matsushita**, President
Professor World Peace Academy of Japan
13. **Ali A. Mazrui**, Professor of Political Science
University of Michigan, USA/Kenya
14. **Kenneth Mellanby**, Director Emeritus
Monk's Wood Experimental Station
Huntingdon, UK
15. **Sir Charles Moses**, Past Secretary-General
Asian Broadcasting Union, Sydney, Australia
16. **Aurelio Peccei**, Founder and President
The Club of Rome, Italy
17. **Gerard Radnitzky**, Professor of Philosophy
University of Trier, West Germany
18. **U.S. von Euler**, Professor of Physiology
Karolinska Institute, Stockholm, Sweden
19. **Herman Wold**, Professor of Statistics
University of Uppsala, Sweden
20. **Pyong-Do Yi**, Professor Emeritus
Seoul National University, Korea; President
Korean National Academy of Sciences

AGENDA

22 NOVEMBER
Thursday

2:00 PM	Thanksgiving Dinner and Orientation	Los Angeles Ballroom
7:30 PM	General Reception	Los Angeles Ballroom

23 NOVEMBER
Friday

7:45 AM	Breakfast	California Showroom
9:00 AM	Opening Plenary Session Founder's Address— Reverend Sun Myung Moon Chairman's Address—Eugene P. Wigner Vice-Chairman — Sir John Eccles Committee IV Chairman — Frederick Seitz Committee III Chairman — Aurelio Peccei Committee II Chairman — Morton A. Kaplan Committee I Chairman — Walter Kaufmann Moderator — Richard L. Rubenstein	Los Angeles 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)	Santa Monica Westside Pacific Palisades Plaza Room
1:00 PM	Luncheon	Los Angeles Ballroom
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)	Santa Monica Westside Pacific Palisades Plaza Room
5:00 PM	Break	
5:30 PM	Committee Meetings Continued—Group B	
7:00 PM	Dinner	Los Angeles Ballroom
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.	I. Santa Monica II. Westside III. Pacific Palisades IV. Brentwood
9:30 PM	Break	

24 NOVEMBER

Saturday

7:45 AM	Breakfast	California Showroom
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)	Santa Monica Westside Pacific Palisades Plaza Room
10:30 AM	Break	
11:15 AM	Committee Meetings Continued—Group C	
12:30 PM	Luncheon Luncheon Meeting Professors World Peace Academy of the United States	California Showroom Beverly 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)	Santa Monica Westside Pacific Palisades Plaza Room
4:30 PM	Break	
5:15 PM	Committee Meetings Continued—Group D	
6:30 PM	Dinner	California Showroom
7:45 PM	Discussion—Committee Chairmen each chair voluntary joint discussions of their respective Groups C & D after brief reports from Group C & D Chairmen.	I. Santa Monica II. Westside III. Pacific Palisades IV. Brentwood
9:00 PM	Break	

25 NOVEMBER

Sunday

		California Showroom
8:45 AM	Breakfast	
10:00 AM	Multidisciplinary Discussion Groups (see pp. 24-29)	
11:30 AM	Break	
12:00 PM	Discussion Groups Continued	
1:00 PM	Luncheon	California Showroom
2:30 PM	Concluding Plenary Session	Los Angeles Ballroom
4:00 PM	Break	
7:00 PM	Farewell Banquet hosted by the Reverend and Mrs. Sun Myung Moon	Los Angeles Ballroom

26 NOVEMBER

Monday

7:30 — 9:00 AM	Breakfast	Los Angeles Ballroom
-------------------	-----------	----------------------

COMMITTEE I

VALUES AND CONSCIOUSNESS

Santa Monica (California level)

CHAIRMAN
WALTER KAUFMANN

GROUP A: HUMANITIES VS. SOCIAL SCIENCES
23 NOVEMBER, FRIDAY — 3:00 p.m.



CHAIRMAN: PAUL KURTZ
Professor of Philosophy
State University of New York at Buffalo, USA

Topics and Speakers (A)

"Humanism *versus* Social Science?"

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

COMMENTATOR: Panos D. Bardis, Professor of Sociology
University of Toledo, Ohio, USA

"Humanism and Social Science—Deceptions and Conceptions

SPEAKER: Peter Munz, Professor of History
Victoria University of Wellington, New Zealand

COMMENTATOR: Khushwant Singh, Editor
ILLUSTRATED WEEKLY OF INDIA, Bombay, India

GROUP B: CAN VALUES BE ABSOLUTE?
23 NOVEMBER, FRIDAY — 11:00 a.m.



CHAIRMAN: W.W. BARTLEY, III
 Professor of Philosophy
 California State University at Hayward, USA

Topics and Speakers (B)

“In What Sense Can Values be Absolute?”

SPEAKER: Jaakko Hintikka, Professor of Philosophy
 Stanford University, California; Florida State University, Tallahassee
 and at the Academy of Finland, USA/Finland

COMMENTATOR: Laurence Briskman, Lecturer in Philosophy
 University of Edinburgh, UK

“Being Human Implies Absolute Values”

SPEAKER: Tom Settle, Professor of Philosophy and Dean
 College of Arts, University of Guelph, Ontario, Canada

COMMENTATOR: I. C. Jarvie, Professor of Philosophy
 York University, Downsview, Ontario, Canada

“On the Making and Breaking of Traditions in Art”

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

COMMENTATOR: Merrill Provence, Associate Professor of Philosophy
 Florida State University, Tallahassee, USA

COMMENTATOR: Paul Levinson, Assistant Professor of Communications
 Fairleigh Dickinson University, Teaneck, New Jersey, USA

GROUP C: BRAIN, FREEDOM AND RESPONSIBILITY

24 NOVEMBER, SATURDAY — 9:00 a.m.



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

Topics and Speakers (C)

“Transmaterial Values within the Brain”

SPEAKER: José M. R. Delgado, Director
 Department of Investigation, Ramon Y Cajal Center, Madrid, Spain

COMMENTATOR: Sanford L. Palay, Bullard Professor of Neuroanatomy
 Harvard Medical School, Cambridge, Massachusetts, USA

“Brain, Freedom and Moral Responsibility”

SPEAKER: Sir John Eccles, Vice-Chairman

COMMENTATOR: Benjamin Libet, Professor of Physiology
 University of California Medical School, San Francisco, USA

“Brain, Freedom and Responsibility”

SPEAKER: Karl H. Pribram, Chairman

COMMENTATOR: Franz Seitelberger, Director
 Neurological Institute, University of Vienna, Austria

FIRST

DISCUSSANT: R. J. Zwi Werblowsky, Professor of Religion
 Hebrew University of Jerusalem, Israel

GROUP D: WHAT IS HAPPINESS?

24 NOVEMBER, SATURDAY — 2:30 p.m.



CHAIRMAN: IVAN SOLL

Professor of Philosophy

University of Wisconsin at Madison, USA

Topics and Speakers (D)

“Psychological Hedonism”

SPEAKER: Hector-Neri Castaneda, The Mahlon Powell Professor
of Philosophy and Dean of Latin Affairs,
Indiana University, Bloomington, USA

COMMENTATOR: Clark W. Butler, Associate Professor and Chairperson
Department of Philosophy, Indiana University —
Purdue University at Fort Wayne, USA

“Happiness and Power”

SPEAKER: Karl H. Pribram, Group Chairman

COMMENTATOR: Richard L. Rubenstein, Distinguished Professor of Religion
Florida State University, Tallahassee, USA

“What is Happiness?”

SPEAKER: Ninian Smart, Professor of Religious Studies
University of California at Santa Barbara, and at
Furness College, University of Lancaster, USA/UK.

COMMENTATOR: Herbert Richardson, Professor of Religion
St. Michael's College, University of Toronto, Canada

COMMITTEE II CHANGE AND DEVELOPMENT

II-A

Westside (Plaza level)

CHAIRMAN
MORTON A. KAPLAN

GROUP A: COMPARATIVE PHILOSOPHIES OF CHANGE
23 NOVEMBER, FRIDAY — 3:00 p.m.



CHAIRMAN: SEYYED HOSSEIN NASR
Professor of Religion
Temple University, Philadelphia, USA

Topics and Speakers (A)

GENERAL

INTRODUCTION: Morton A. Kaplan, Committee Chairman

“The Metaphysical and the Modern Evaluation of Change”

SPEAKER: Elemiré Zolla
University of Rome, Italy

COMMENTATOR: Archie J. Bahm, Professor of Philosophy Emeritus
University of New Mexico at Albuquerque, USA

“Contrasting Concepts of Time and Process:
Contemporary Implications”

SPEAKER: Joseph Epes Brown, Professor of Religion
University of Montana, Missoula, USA

COMMENTATOR: Kwame Gyekye, Professor of Philosophy
University of Ghana, Legon

GROUP B: LANGUAGE, TRADITION AND CROSS-CULTURAL VALUES
23 NOVEMBER, FRIDAY — 3:00 p.m.



CHAIRMAN: ROGER W. WESCOTT

Professor of Anthropology and Linguistics
 Drew University, Madison, New Jersey, USA

Topics and Speakers (B)

“English as the World Language: Problems and Perspectives”

SPEAKER: Richey Novak, Executive Director
 International Educational Consultants
 San Francisco, California, USA

COMMENTATOR: Adam Makkai, Director
 Linguistic Association of Canada and the United States
 Lake Bluff, Illinois, USA

COMMENTATOR: Hyun Bok Lee, Professor of Linguistics
 Seoul National University, Korea

“Anthropologists and the Rise of a Global Civilization”

SPEAKER: Elliott P. Skinner, Franz Boas Professor of Anthropology
 Columbia University, USA

COMMENTATOR: Edwin Terry Prothro, Director, Center for Behavioral Research
 American University of Beirut, Lebanon/USA

“Appropriating Tradition”

SPEAKER: Jude P. Dougherty, Dean, School of Philosophy
 The Catholic University of America, Washington, D. C., USA

COMMENTATOR: Aleksis Rannit, Professor of Russian and East European Studies
 Yale University, New Haven, Connecticut, USA/Estonia

COMMENTATOR: Raphael Patai, Professor of Anthropology Emeritus
 Fairleigh Dickinson University, Rutherford, New Jersey, USA

**GROUP C: DEVELOPMENT OF CIVILIZATION AND THE CHANGING
SELF-CONCEPTION OF MAN**

24 NOVEMBER, SATURDAY — 9:00 a.m.



CHAIRMAN: GERARD RADNITZKY
Professor of Philosophy
University of Trier, West Germany

Topics and Speakers (C)

**“Historical Aspects of the Development of Civilization and the Changing
Self-Conception of Man”**

SPEAKER: Alistair M. Taylor, Professor of Geography and Political Studies
Queen's University, Kingston, Ontario, Canada

COMMENTATOR: John King-Farlow, Professor of Philosophy
University of Alberta, Edmonton, Canada

COMMENTATOR: Victorino Tejera, Professor of Philosophy
State University of New York at Stony Brook, USA

“Is the Scientific Enterprise Self-Refuting?”

SPEAKER: Anthony Flew, Professor of Philosophy
University of Reading, UK

COMMENTATOR: Kenneth R. Minogue, Professor of Political Science
The London School of Economics and Political Science, UK

COMMENTATOR: Peter Graf Kielmansegg, Professor of Politics
University of Cologne, West Germany

“Ethics and Evolution”

SPEAKER: Erich Jantsch, Lecturer, Author and Founding Editor
TECHNOLOGICAL FORECASTING Berkeley, California, USA

COMMENTATOR: Hector-Neri Castaneda, The Mahlon Professor
of Philosophy and Dean of Latin Affairs
Indiana University, Bloomington, USA

COMMENTATOR: Adriaan Peperzak, Professor in Ethics
University of Nijmegen, Netherlands

GROUP D: RESOURCES AND ECONOMIC DEVELOPMENT
24 NOVEMBER, SATURDAY — 2:30 p.m.



CHAIRMAN: FRANCIS A. BOTCHWAY
 Professor of Political Science and
 International Law and Head, Department
 of Afro-American Studies
 University of Cincinnati, Ohio, USA

Topics and Speakers (D)

"Resources: Scarcity or Abundance?"

SPEAKER: Robert U. Ayres, Professor of Engineering and Public Policy
 Carnegie-Mellon University, Pittsburgh, Pennsylvania, USA

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

"Resources and Economic Development"

SPEAKER: Garrett N. Scalera, Director and Research Fellow
 Institute of Policy Studies, Tokyo, Japan

COMMENTATOR: Willie Breytenbach, Chief Researcher
 Africa Institute, Pretoria, South Africa

"Economic Resources and Political Development — A North-South Equation"

SPEAKER: Ali A. Mazrui, Professor of Political Sciences and Director
 Center for Afro-American and African Studies
 University of Michigan, Ann Arbor, USA

COMMENTATOR: Alvaro Donoso, National Sub-Director
 National Planification Office, Santiago, Chile

COMMITTEE III

POPULATION AND QUALITY OF LIFE

Pacific Palisades (California level)

CHAIRMAN
AURELIO PECCEI

GROUP A: HOW DOES MATERIAL WELL-BEING AFFECT "HAPPINESS"?
23 NOVEMBER, FRIDAY — 11:00 a.m.



CHAIRMAN: ELIZABETH DODSON GRAY
Bolton Institute for a Sustainable Future
Wellesley, Massachusetts, USA

Topics and Speakers (A)

"How Does Material Well-Being Affect 'Happiness'?"

SPEAKER: Sir Hans A. Krebs, Metabolic Research Laboratory
Radcliffe Infirmary, Oxford, UK

COMMENTATOR: Donald N. Michael, Director, Center for Research on
Utilization of Scientific Knowledge, University of Michigan
Ann Arbor, USA

"The Ecological Foundation of a Quality of Life"

SPEAKER: Anitra Thorhaug, Professor of Biological Sciences
Florida International University, Miami, USA

COMMENTATOR: Beatrice E. Willard, Director and Professor of Environmental
Sciences, Colorado School of Mines, Golden, USA

"Material Abundance and Happiness: A Third World Perspective"

SPEAKER: Ignacio Castuera, Adjunct Professor of Theology
Claremont University, California, USA

COMMENTATOR: Frederick E. Sontag, Robert C. Denison Professor
Pomona College, California, USA

GROUP B: TOMORROW'S WORLD POPULATION TRENDS**23 NOVEMBER, FRIDAY — 3:00 p.m.**

CHAIRMAN: GEORGE J. STOLNITZ
Indiana University, Bloomington;
First Vice-President
Population Association of America, USA

Topics and Speakers (B)**"World Population Trends"**

SPEAKER: Sam Baum, U. S. Bureau of the Census
Department of Commerce, Washington, D. C., USA

COMMENTATOR: David Herr, Professor of Sociology
Population Research Laboratory
University of Southern California, Los Angeles, USA

"Ethical Dimensions of World Population Trends"

SPEAKER: Richard L. Rubenstein, Distinguished Professor of Religion
Florida State University, Tallahassee, USA

COMMENTATOR: Joel Kurtzman, Project Coordinator
New International Economic Order
United Nations Institute for Training and Research
New York City, USA

GROUP C: HEALTH SYSTEMS AND POPULATION CONTROL
24 NOVEMBER, SATURDAY — 9:00 a.m.



CHAIRMAN: EDWARD O. PRATT
Population Specialist
The World Bank
Washington, D.C., USA

Topics and Speakers (C)

“Sociobehavioral Aspects of Health Studies”

SPEAKER: Jack Elinson, Professor of Sociomedical Sciences
Columbia University, USA

COMMENTATOR: Betty E. Cogswell, Associate Professor of Family Medicine
University of North Carolina at Chapel Hill, USA

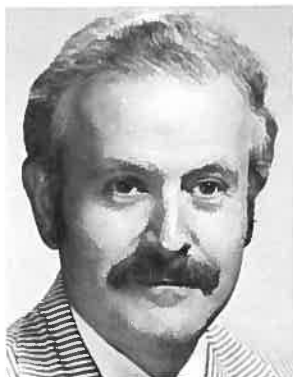
SPEAKER: C. O. Akerele, Coordinator for Tanzania
World Health Organization, Dar es Salaam

COMMENTATOR: P. O. Chuke, Associate Professor of Neurology
University of Nigeria, Enugu

SPEAKER: Gervin Samarawickrama, Professor of Community Medicine
University of Sri Lanka, Peradeniya

COMMENTATOR: Plutarco Naranjo, Professor and Head
Department of Pharmacology
University of Quito, Ecuador

GROUP D: CONSEQUENCES OF WORLD POPULATION GROWTH
24 NOVEMBER, SATURDAY — 2:30 p.m.



CHAIRMAN: S. FRED SINGER
 Professor of Environmental Sciences
 University of Virginia
 Charlottesville, USA

Topics and Speakers (D)

“The Effects of Population Growth on Renewable and Other Resources”

SPEAKER: Claude A. Vilée, Jr., Andelot Professor
 of Biological Chemistry
 Harvard University, USA

COMMENTATOR: A. Melamed, Head
 Tushia Engineering Company,
 Givatayam, Israel

COMMENTATOR: Ervin Y. Galantay, Professor of Urban Planning
 Ecole Polytechnique Federale de Lausanne, Switzerland

“Labor, Migration, International Trade”

SPEAKER: Paul Demeny, Director, Policy Studies
 The Population Council, New York City, USA

COMMENTATOR: Abdel Karim Aly Elahwal, Professor of Sociology
 Riyadh University, Saudi Arabia

COMMENTATOR: Toshio Kuroda, Professor of Demography
 Nihon University, Japan

“Mechanisms for Mediation”

SPEAKER: John G. Stoessinger, Professor of Political Science
 Hunter College, City University of New York, USA

COMMENTATOR: Jared Hazleton, Associate Dean
 Lyndon Baines Johnson School of Public Affairs
 University of Texas at Austin, USA

GENERAL

COMMENTATOR: Alvin M. Weinberg, Group Chairman

COMMITTEE IV

VISION AND DIRECTION OF THE FUTURE

Plaza Room, (Plaza level)

CHAIRMAN
FREDERICK SEITZ

GROUP A: TECHNOLOGY AND HUMAN VALUES
23 NOVEMBER, FRIDAY — 11:00 a.m.



CHAIRMAN: FREDERICK FERRÉ
Charles A. Dana Professor of Philosophy
Dickinson College
Carlisle, Pennsylvania, USA

Topics and Speakers (A)

"Hope through Post-Modern Technology"

- SPEAKER: W. David Lewis, Hudson Professor of History and Engineering
Auburn University, Alabama, USA
- COMMENTATOR: Hans-Martin Sass, Professor of Philosophy
Ruhr University at Bochum, West Germany
- COMMENTATOR: Willis Harman, Director, The Educational Policy
Research Center, Stanford Research Institute
Menlo Park, California, USA

"A Theological Critique of 'Hope through Technology'"

- SPEAKER: Gabriel Vahanian, Jeannette K. Watson Professor of Religion
University of Syracuse, Strasbourg, France
- COMMENTATOR: Arthur S. Parsons, Assistant Professor of Sociology
and Anthropology, Smith College
Northampton, Massachusetts, USA

GROUP B: SCIENCE AND TECHNOLOGY POLICIES FOR DEVELOPING NATIONS
23 NOVEMBER, FRIDAY — 3:00 p.m.



CHAIRMAN: ALEXANDER KING
 Chairman, International Federation
 of Institutes for Advanced Study
 Paris, France

Topics and Speakers (B)

“Science and Technology for Developing Nations. A Search for Answers”

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

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

“A Policy to Develop Science and Technology in a University”

SPEAKER: Guido Pincheira, Director of Research
 University of Chile, Santiago

COMMENTATOR: Marcelo Alonso, Director
 Department of Scientific Affairs
 Organization of American States, Washington, D. C.;
 Executive Secretary, Inter-American Nuclear
 Energy Commission, USA

“Science and Technology Policies for Developing Nations”

SPEAKER: Mangalam Srinivasan, Director
 Council for the Responsible Use of Science
 and Technology, Washington, D.C.;
 Research Associate, New York University; and
 and [Distinguished] Fellow, Harvard University, USA

COMMENTATOR: Werner Meissner, Professor of Economics and Director
 Economic Institute, University of Frankfurt, West Germany

GROUP C: FRONTIERS OF SCIENCE AND TECHNOLOGY
24 NOVEMBER, SATURDAY — 9:00 a.m.



CHAIRMAN: ALVIN M. WEINBERG
 Director, Institute for Energy Analysis
 Oak Ridge, Tennessee, USA

Topics and Speakers (C)

“Frontiers of Science and Technology”

SPEAKER: Adam Schaff, President
 European Coordination Center for Research and Documentation
 in Social Sciences, Vienna, Austria

COMMENTATOR: Paul Y. Hammond, Weidlein Professor of Environmental and Public Policy
 Sciences, University of Pittsburgh, Pennsylvania, USA

“Frontiers of Technology”

SPEAKER: Sam Nilsson, Director, International Federation of Institutes
 for Advanced Study, Solna, Sweden

COMMENTATOR: Nicholas De Claris, Professor of Electrical Engineering
 University of Maryland, College Park, USA

“Frontiers of Science”

SPEAKER: Max Jammer, Professor of Natural Science
 and History of Science
 Bar-Ilan University, Ramat-gan, Israel

COMMENTATOR: Malcolm H. Gotterer, Professor of Computer Sciences
 Florida International University, Miami, USA

GROUP D: A LOOK AT THE 1990'S — WHAT DOES THE FUTURE HOLD?
24 NOVEMBER, SATURDAY — 2:30 p.m.



CHAIRMAN: PIERRE PIGANIOL
 President, Les Futuribles, and of the
 Commission Methods du Plan-Constriction
 Paris, France

Topics and Speakers (D)

"Socialism and Capitalism — Ideology or Mechanism? A Question of Survival"

SPEAKER: Abba P. Lerner, Professor of Economics
 The Florida State University, Tallahassee, USA

"Uncertainties of the 1990's"

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

"The Coming Age of Mankind"

SPEAKER: Ervin Laszlo, Special Fellow
 United Nations Institute for Training and Research
 New York City, USA

"How Big Should Cities Grow? The Concept of Optimum Size and its Relevance to Urban Concentration in Developing Countries"

SPEAKER: Ervin Y. Galantay, Professor of Urban Planning
 Ecole Polytechnique Federale de Lausanne, Switzerland

GENERAL DISCUSSANT: P. Menke-Gluckert, Director
 Federal Ministry of the Interior
 Bonn, West Germany

DISCUSSION GROUPS

25 NOVEMBER, SUNDAY—10:00 AM

GROUP 1: IS THERE LIFE AFTER DEATH?
SANTA MONICA

MODERATOR: EILEEN V. BARKER
Professor of Sociology
The London School of Economics
and Political Science, UK



SPEAKER: Paul Kurtz, Professor of Philosophy
State University of New York at Buffalo, USA

SPEAKER: Mael A. Melvin, Professor of Physics
Temple University, Philadelphia, Pennsylvania, USA

SPEAKER: Milan Ryzl, Lecturer in Parapsychology
San José, California, USA

GROUP 2: PRESERVATION OF CULTURE: WHAT ARE THE LIMITS?
BRENTWOOD

MODERATOR: RENÉ BERGER
Director-Curator
Museum of Fine Arts
Lausanne, Switzerland



- SPEAKER:** Guerin C. Montilus, Assistant Professor of Humanities
Wayne State University, Detroit, Michigan, USA
- SPEAKER:** Panos D. Bardis, Professor of Sociology
University of Toledo, Ohio, USA
- SPEAKER:** Mohammed Fadhel Jamali, Professor of Educational Philosophy
University of Tunis, Tunisia

GROUP 3: WHAT ARE THE VALUES IMPLICIT IN ECONOMIC DEVELOPMENT?
PACIFIC

MODERATOR: DONALD M. LAMBERTON
Professor and Head
Department of Economics
University of Queensland
St. Lucia, Australia



- SPEAKER:** Kasim Gulek
Ankara, Turkey
- SPEAKER:** Andres Sanfuentes, Chairman, Economic Department
University of Chile, Santiago
- SPEAKER:** William S. Kim, Professor of Microbiology
Yonsei University, Seoul, Korea

GROUP 4: NORMALIZATION OF VIOLENCE THROUGH MASS COMMUNICATION

DIRECTOR'S BOARD ROOM

MODERATOR: Daniel Lerner
 Ford Professor of Sociology and
 International Communications
 Massachusetts Institute of Technology, USA



SPEAKER: Sig Mickelson, Visiting Distinguished Professor
 Department of Journalism
 University of California at San Diego, USA

SPEAKER: Henry O. Hart, Director
 Audience and Public Opinion Research Department
 Radio Free Europe/Radio Free Liberty, Inc.
 Munich, West Germany/USA

SPEAKER: Karl-Georg Graf von Stackelberg, Chairman
 Internationale Marktforschung und Sozialforschung
 Munich, West Germany

GENERAL DISCUSSANT: Franco Ferracuti, Professor of Criminological Medicine
 and Forensic Psychiatry, University of Rome, Italy

GROUP 5: DO NEW PATTERNS OF WEALTH CREATION DEMAND NEW STRUCTURES OF SOCIETY?

PALISADES

MODERATOR: NICHOLAS KURTI
 Emeritus Professor of Physics
 University of Oxford, UK



SPEAKER: D.T.N. Williamson, Engineering and Director, Retired
 Rank Xerox, Ltd., UK/Italy

SPEAKER: F.B. Malik, Professor of Physics
 Indiana University, Bloomington, Indiana, USA

SPEAKER: Erich Jantsch, Lecturer, Author and Founding Editor
Technological Forecasting, Berkeley, California USA

GROUP 6: HUMAN KNOWLEDGE AND SCIENTIFIC MODELS
BEVERLY

MODERATOR: TOR RAGNAR GERHOLM
Professor of Physics
Institute of Physics
University of Stockholm, Sweden



SPEAKER: Herman Wold, Professor of Statistics
University of Uppsala, Sweden

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

GROUP 7: SOCIOBIOLOGY AND VALUE SYSTEMS
GOVERNOR'S BOARD ROOM

MODERATOR: J.W.S. PRINGLE
Linacre Professor of Zoology
Oxford University, UK



SPEAKER: Paul Shepard, Avery Professor of Human Ecology
Pitzer College, Claremont, California, USA

SPEAKER: M.R.A. Chance, Professor of Ethology
Uffculme Clinic, University of Birmingham, UK

SPEAKER: Ernest W. Caspari, Professor of Biology
University of Rochester, New York, USA

**GROUP 8: THE BECOMING OF A HUMAN PERSON: MOTHER-CHILD RELATIONS
IN THE FIRST YEAR OF LIFE
SENATOR'S DINING ROOM**

MODERATOR: KOENTJARANINGRAT
Professor and Head
Department of Anthropology
University of Indonesia, Djakarta



SPEAKER: Colwyn Trevarthen, Professor of Psychology
University of Edinburgh, UK

SPEAKER: Diane McGuinness, Lecturer in Psychology
University of California at Santa Cruz, USA

**GROUP 9: MAN'S PLACE IN THE WORLD ECO-SYSTEM
DIRECTOR'S DINING ROOM**

MODERATOR: KENNETH MELLANBY
Director Emeritus
Monk's Wood Experimental Station
Huntingdon, UK



SPEAKER: Kenneth Mellanby, Moderator

SPEAKER: Anthony V.S. de Reuck, Head of International Relations Studies
Department of Linguistics and International Studies
University of Surrey, UK

GROUP 10: PROSPECTS FOR REDUCING WORLD HUNGER
GOVERNOR'S DINING ROOM

MODERATOR: M.L. DEWAN

Chief, Regional Bureau for Asia and Far East,
Development Department, United Nations
Food and Agriculture Organization, Rome, Italy



"Assessment of Immediate and Foreseeable Problem Areas"

SPEAKER: P.V. Sukhatme, Professor of Biometry
Maharashtra Association for the Cultivation of Science
Poona, India

"The Oceans as Food Source for the World"

SPEAKER: Milton G. Johnson, Economist and Chief, Special Studies Staff
National Oceanic and Atmospheric Administration
Rockville, Maryland, USA

"Economic Dimensions of World Hunger"

SPEAKER: D.R. Denman, Professor of Land Economy
University of Cambridge, UK

GROUP 11: ENERGY AND THE URBAN EFFECT
REGENT'S DINING ROOM

SPEAKER: PAOLO SOLERI
Architect and City Planner
President
Cosanti Foundation
Scottsdale, Arizona, USA





ICF

--- THE INTERNATIONAL CULTURAL FOUNDATION ---

The International Cultural Foundation, sponsor of the International Conference on the Unity of the Sciences, is a non-profit organization dedicated to promoting academic, scientific, religious and cultural exchange among the countries of the world. Founded in 1968 by the Reverend Sun Myung Moon, the Foundation is now headquartered in New York with branches throughout the world.

The International Cultural Foundation is authorized to receive and is supported by contributions. Grateful appreciation is given to the Unification Church for its financial support which makes the ICUS series possible. Participation in ICUS and other programs of ICF implies neither acceptance nor endorsement of the tenets and activities of the Unification Church.

Activities sponsored by the International Cultural Foundation include:

- * International cultural and artistic exchange involving the performing and the fine arts
- * Academic exchange programs and scholarly research
- * Publishing books and magazines of cultural significance
- * Public welfare and general good will to all nations

MEMBERS OF THE BOARD OF DIRECTORS

Sun Myung Moon (Chairman)
Young Whi Kim
Peter Koch
Osami Kuboki
Dennis F. Orme
Bo Hi Pak

Martin Porter
Neil Albert Salonen
Teddy Verheyen
Reiner Vincenz
Paul Werner
Se-Won Yoon

OFFICERS

Neil Albert Salonen
Chung Hwan Kwak
Dennis F. Orme
Paul Werner
Michael Young Warder
Joe Allen Tully

President
Vice President
Vice President
Vice President
Secretary-General
Treasurer

ICF-ICUS BRANCH OFFICES

AUSTRALIA	Christopher Olsen GPO 1985R Melbourne 3001, Victoria
AUSTRIA	Manfred Hauser Graf Seilern - Gasse 22 A-1120 Vienna
BELGIUM	Simon Robinet Chausee d'Alseberg, 209 1180 Brussels
CANADA	Martin Porter 87 Bellevue Avenue Toronto, Ontario M5T 2N8
FRANCE	Didier Rias 295 - 303 rue Saint - Jacques 75005 Paris
GERMANY	Heinrich Weber Kettenhofweg 85 6000 Frankfurt/M
ITALY	Antonio Ciacciarelli Via Castiglione 18 Bologna
JAPAN	Jun-Ichiro Owaki Kioicho TBR Building, Room 907 5-7, Koji-Machi, Chiyoda-Ku Tokyo, 102
KOREA	Dong-Moon Joo 6th floor, Ilyang Building Doneu-dong, Chongno-ku Seoul
NETHERLANDS	Jan Van Winden Titiaanstr. 40 Amsterdam
SWITZERLAND	Claude Perrottet 108 route de Suisse 1289 Versoix/Geneva
UNITED KINGDOM	P. Brian Wijeratne 44 Lancaster Gate London W2 3NA
UNITED STATES	Michael Young Warder Post Office Box 3939 Grand Central Station New York, New York 10017

EIGHTH ICUS SECRETARIAT

GENERAL INFORMATION

Michael Young Warder	Secretary-General, Eighth ICUS
Jun-ichiro Owaki	Secretary-General—Asia
Kae-Hwan Kim	Coordinator—Europe
P. Brian Wijeratne	Secretary-General—Europe
Richard R. Wojcik	Assistant Secretary-General and General Manager
Glenn Carroll Strait	Director of Meetings and Publications
Kathryn L. McLaughlin	Director of Administration
Lynn Peter	Business Manager
Jean Navratil	Executive Secretary
Louise Kohan	Administrative Assistant

- The following SERVICES are located on the California Level:
 1. REGISTRATION AND INFORMATION DESK (California Lounge).
 2. GROUND TRANSPORTATION—Mr. John Willis will coordinate ground transfers to Los Angeles International Airport and other points (California Lounge).
 3. FETI TRAVEL—Mr. George Kay will be on hand to re-confirm return air flights (California Lounge).
 4. CONFERENCE HEADQUARTERS (Encino Room).
 5. ICF PRESS—Mr. Glenn Carroll Strait will be available to answer questions about copyright, paper revisions, etc. (Sherman Oaks Room).
 6. CONFERENCE PAPERS AND PROCEEDINGS (California Lounge).
 7. PARTICIPANT LOUNGE and BOOK DISPLAY (Bel-Air Room).
- Please wear your name BADGE. It allows you entry to all functions. White-participant, blue-observer, green-staff, yellow-hospitality, pink-press.
- A Saturday TOUR of Universal City Studios and the J. Paul Getty Museum will be arranged for spouses and guests. Please sign up at the Ground Transportation table in the California Lounge.
- All incidental charges including outside telephone calls will be billed to you upon check-out. Please return room key to the Hotel desk in the lobby.