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***Absolute Values  
and  
The Reassessment of the  
Contemporary World***



***Sixteenth International Conference  
on the  
Unity of the Sciences***

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**W**e meet at the XVI International Conference on the Unity of the Sciences at a time of hope for the world. For the first time since the atom was split, we see a possible winding down of the nuclear arms race. And the seeming intractable confrontations between two political worlds shows glimmerings of new syntheses, marked initially by an unprecedented openness in the East.

We at ICUS must find satisfaction in these stirrings of political dialogue. A central theme of ICUS has been the search for unity. Though our search is confined to the spheres of the intellect, we must hope that whatever unity we find will ultimately be reflected in a broader unity of mankind—a unity centered on values that emerge from deliberations such as ours.

Our search for the role of values in scientific inquiry must therefore be carried on with renewed vigor. Indeed, as we consider the deep

divisions that still exist in the world, all of us recognize that these divisions ultimately reflect conflict in underlying value systems. In so far as our search for values in science succeeds in identifying those values that transcend political division we shall be providing the basis for a universal value system that we hope will contribute to the creation of a better world.

I welcome our colleagues to ICUS XVI: all of us have worked hard to make ICUS XVI a success. Let us trust that this conference will be remembered as an important step in our quest for unity of the sciences, for meaningful values, and our hopes for a peaceful world.




Alvin M. Weinberg  
Conference Chairman  
ICUS XVI (1987)

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**W**elcome to Atlanta—the unofficial capital of the South. Atlanta has played an important role in America's history and has now emerged as a thoroughly modern, cosmopolitan city. It is the business and transportation hub of the southeast with a unique flair, accented by gracious Southern hospitality.

We gather here as an international community of scholars to continue our exploration of the conference theme, "Absolute Values and the Reassessment of the Contemporary World." Representatives from diverse academic disciplines will have the opportunity to engage in dialogue with colleagues from more than 47 countries. It is our hope that this year's conference can stimulate the participants in their search for responsible approaches and fresh solutions to the common problems facing mankind.

The conference staff is here to serve you in every aspect of your stay. If you need assistance in any way, please stop by the Conference Office located in the Card Room. I encourage you to visit our book and activity displays in the Garden Court to learn more about ICF-related activities of the Professors World Peace Academy (PWPA), Paragon House Publishers (PHP), Advisory Council to the Unification Movement International (ACUMI) and The Washington Institute for Values in Public Policy (WI). Your comments and suggestions for improving the conference are welcome.



Neil Albert Salonen  
President  
International Cultural  
Foundation

***Sixteenth International Conference on the Unity of Sciences***  
***November 26–29, 1987 • Stouffer Waverly Hotel, Atlanta, Georgia***

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# Sixteenth ICUS Chairmen's Board

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**Conference Chairman**

**Alvin M. Weinberg**

*Distinguished Fellow  
Institute for Energy Analysis  
Oak Ridge Associated Universities  
Oak Ridge, Tennessee*



**Conference Vice-Chairman**

**Tor Ragnar Gerholm**

**Plenary Speaker  
"Beyond Science"**

*Professor of Physics  
University of Stockholm  
Stockholm, Sweden*



**Conference Vice-Chairman**

**Nobuyuki Fukuda**

*University of Tsukuba  
Tokyo, Japan*

**Plenary Speaker**

**"The Unification of Knowledge:  
An Ideal and Its Difficulties"**

**Edward Shils**

*Professor of Social Thought & Sociology  
University of Chicago and  
Honorary Fellow  
Cambridge University  
Cambridge, England*

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### Committee I — Tyndall Room

#### **"The Unity of the Universe"**

**Raymond A. Lyttleton**

Honorary Chairman  
Institute of Astronomy  
Cambridge, England

**Lloyd Motz**

Organizing Chairman  
Professor Emeritus  
Department of Astronomy  
Columbia University  
New York, New York

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### Committee II — Stanhope Room

**Ninian Smart**

Honorary Chairman  
Professor of Religious Studies  
University of Lancaster  
Lancaster, England

**Paul Badham**

Organizing Chairman  
Senior Lecturer in Theology & Religious Studies and  
Chairman of the Religion and Ethics Subject Committee  
St. David's University  
University of Wales

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### Committee III — Hallmark Room

#### **"Towards Ecumenism in World Philosophy"**

**Sang Hun Lee**

Honorary Chairman  
President  
Unification Thought Institute  
Seoul, Korea

**A. Durwood Foster**

Organizing Chairman  
Professor of Christian Theology  
Pacific School of Religion  
Berkeley, California

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### Committee IV — Galleria Room

#### **"A Critical Assessment of the Achievements of the Economic Approach"**

**Karl Brunner**

Honorary Chairman  
Director  
Center for Research in Government Policy  
and Business School of Management  
University of Rochester  
Rochester, New York

**Gerard Radnitzky**

Organizing Chairman  
Professor of Philosophy of Science  
Department of Philosophy  
University of Trier  
Trier, WEST GERMANY

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### Committee V — Chancellor Room

#### **"The Human Food Chain: The Problem of Nourishment"**

**Alexander King**

Honorary Chairman  
President  
Club of Rome  
Paris, France

**Gerald Stanhill**

Organizing Chairman  
Research Professor  
Institute of Soils and Water  
Agricultural Research Organization  
Bet Dagan, ISRAEL

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### Committee VI — Brayton Room

#### **"Eastern Approaches to the Unity of Spirit and Matter: Qi and Science"**

**Jean Charon**

Honorary Chairman  
Theoretical Physicist  
University of Paris  
Paris, France

**Manabu Nakagawa**

Organizing Chairman  
Professor of Economics  
Hitotsubashi University  
Tokyo, Japan

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### Committee VII — Wilton Room

#### **"In Search For Understanding Among the Monotheistic Religions"**

**Majid Khadduri**

Honorary Chairman  
University Distinguished Research Professor Emeritus  
School of Advanced International Studies  
Johns Hopkins University  
Baltimore, Maryland

**Raphael Patai**

Organizing Chairman  
Professor Emeritus of Anthropology  
Fairleigh Dickinson University  
Rutherford, New Jersey

# The Unity of the Universe

Until quite recently (up to the beginning of the last decade) astronomy was, more or less, an aggregate of apparently unrelated disciplines, such as celestial mechanics, planetary studies, astrophysics, stellar evolution, and cosmology. Current observational and theoretical discoveries, however, have revealed that all of these studies are intimately related and that cosmology, in particular, requires an understanding of all branches of astronomy, as well as some of the more esoteric branches of physics. Since today's rapid accumulation of astronomical data and proliferation of astronomical theories make it impossible for any cosmologist to keep in day-to-day touch with all these new discoveries, it is necessary and desirable that conferences such as THE UNITY OF THE UNIVERSE be held periodically to exchange information about current developments in these various fields that impinge upon cosmology.

But it is clear that such conferences should not be limited to astronomy; the most interesting and crucial questions that confront us in our attempts to understand the universe cannot be answered without knowledge of high energy particle physics, so that physics and cosmology become interwoven into a single intellectual fabric.

The following are some of the questions that I hope will be considered in the present conference:

1. Can a model of the universe be developed that is not burdened by the initial singularity which makes the standard model untenable? Since a singularity is physically inadmissible, its elimination should be the first concern of cosmologists.
2. Does the present large entropy asymmetry in the universe (vast excess of photons over baryons) necessarily imply a hot, high entropy initial state of the universe?
3. Can we accept the present observational evidence of the mass density in the universe as definitive evidence that the geometry of the universe is flat?
4. What is the nature of the hidden mass and is enough of it present to close the universe? If so, how would that affect the inflationary models of the universe?
5. What is the relationship between cosmology and elementary particle physics? Can elementary particle theory be so designed as to eliminate the initial singularity in the universe?
6. What evidence about the hidden mass in the universe can we glean from the large scale structure of the universe?
7. What can we learn about the initial conditions in the universe from planetary astronomy?
8. What can we deduce about the universality of life in the universe from the chemistry of the interstellar medium?



**Honorary Chairman**  
**Raymond A. Lyttleton**  
*Professor of Theoretical  
Astronomy  
Institute of Astronomy  
Cambridge, ENGLAND*



**Organizing Chairman**  
**Lloyd Motz**  
*Professor Emeritus  
Department of Astronomy  
Columbia University  
New York, New York*

## Session I. Origin and Evolution of the Universe

Friday, November 27, 2:30-4:30 pm

### 1. Energy and the Unity of the Universe



**Marcelo Alonso**  
*Executive Director  
Florida Institute of Technology  
Research & Engineering, Inc.  
Melbourne, Florida*

### 2. The Cosmological Problem: The Origin and Fate of the Universe



**Lloyd Motz**  
*Department of Astronomy  
Columbia University  
New York, New York*

### **3. The Anthropic Principle as a Unifying Approach to the Universe**



**Virginia Trimble**  
Professor of Physics  
University of California  
Irvine, California  
and  
Visiting Professor of Astronomy  
University of Maryland  
College Park, Maryland

#### **Session I Discussants**

**George Marx**  
Physics Institute  
University of Budapest  
Budapest, HUNGARY

**Georg Sussman**  
Professor of Theoretical Physics  
University of Munich  
Munich, WEST GERMANY

**Michael J. Higgsberger**  
Institute for Experimental Physics  
University of Vienna  
Vienna, AUSTRIA

### **Session II. Large Scale Structures in the Universe**

Friday, November 27, 5:00-7:00 pm

#### **1. Large-Scale Properties of the Universe**

**Jeremiah P. Ostriker**  
Princeton University Observatory  
Princeton, New Jersey

#### **Session II Discussant**

**Francesco Bertola**  
Full Professor of Astrophysics  
University of Padova  
Padova, ITALY

### **Session III-A. The Milky Way**

Saturday, November 28, 9:00-11:00 am

#### **1. Gravitational Antennas and the Search for Gravitational Radiation**



**Joseph Weber**  
Physics Department  
University of Maryland  
College Park, Maryland

### **Session IV-A. Solar Systems and the Earth**

Saturday, November 28, 11:30 am-1:30 pm

#### **1. Organic Molecules and the Origin of the Solar System**



**Fred Johnson**  
Professor of Physics  
California State University  
Fullerton, California

#### **Session IV Discussants**

**Thomas Gornitz**  
Max Planck Institute  
Starnberg, WEST GERMANY

**A.M. Perry, Jr.**  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee

### **Session V. Life in the Universe**

Sunday, November 29, 9:00-11:00 am

#### **1. Interstellar Dust, Comets and Panspermia**



**N. Chandra Wickramasinghe**  
Department of Maths & Physics  
Cardiff University  
Cardiff, WALES

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## 2. Life and Intelligence in the Universe—A Cosmic Perspective



**Michael Papagiannis**  
Professor of Astronomy  
Boston University  
Boston, Massachusetts

### Session V Discussants

**M. Shamsheer Ali**  
Professor of Physics  
University of Dhaka  
Dhaka, BANGLADESH

**Bulent I. Atalay**  
Professor of Physics  
Mary Washington College and  
University of Virginia  
Fredericksburg, Virginia

## Session VI. Thoughts About the Future

Sunday, November 29, 11:30 am-1:30 pm

### Panel Discussion

(Panelists to be Announced)





## Committee II — Stanhope Room

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### The Value of Human Life

In 1986, this committee focused on the boundaries of human life at its origins and at its ending. Many of its discussions hinged on assumptions about the value of human existence which could not be fully considered in the time available. What is proposed for the follow-up conference is an exploration of what it is that gives value to human life, and what can be done to enhance the quality of our human existence.

Such an exploration will need to be at least as interdisciplinary and inter-cultural as our initial discussions, as clearly the perspectives of ecology, technology, medicine, bioethics, psychology, sociology, economics, philosophy and religion all influence and contribute to our overall evaluation and understanding of this theme.

The committee will begin by considering the place of human beings in the natural order and in relation to their

environment, and then look at neurobiological data concerning the factors which lead to the development of personhood. After this we shall explore the contribution of science and technology to human life and note the changes in the quality of life which new patterns of life and labour can bring. We shall consider problems associated with allocating medical resources, which will lead us into considering what makes life worthwhile. The committee will then move on to discuss how we satisfy our emotional and psychological needs, and the extent to which political and social freedom are necessary for the dignity and worth of the individual.

Finally, the committee will consider how judgements on the value of life are influenced by the way individuals perceive death, and by the teachings of the world's religions concerning the purpose and meaning of human existence.



**Honorary Chairman**  
**Ninian Smart**  
*Professor of Religious Studies*  
*University of California*  
*Santa Barbara, California*



**Organizing Chairman**  
**Paul Badham**  
*Senior Lecturer in*  
*Theological and*  
*Religious Studies*  
*Chairman, Religious and Ethics*  
*Subject Committee*  
*St. David's University College*  
*University of Wales*  
*Lampeter, WALES*

#### Session I.

Friday, November 27, 2:30-4:30 pm

##### 1. The Place of the Human Race in the Natural Order



**Kenneth Mellanby**  
*Director Emeritus*  
*Monk's Wood Experimental Station*  
*Huntingdon, ENGLAND*

**Discussant**  
**Bernardo Bernardi**  
*Professor of Ethnology*  
*University of Rome*  
*Rome, ITALY*

##### 2. Technology and the Good Life



**Jacquelyn Ann Kegley**  
*Chair of Department of Phil.*  
*and Religious Studies*  
*NEXA Science and Humanities*  
*Convergence Program*  
*California State College*  
*Bakersfield, California*

**Discussant**  
**Krishan Kumar**  
*Professor of Social Thought*  
*University of Kent*  
*Canterbury, ENGLAND*

## Session II.

Friday, November 27, 5-7 pm

### 1. The Importance of Satisfying Work to the Value of Human Life



**Dieter Cassel**  
Prof. of Economics  
University of Duisberg  
Duisberg, WEST GERMANY

**Discussant**  
**Terence Lee**  
Head, Department of Psychology  
University of Surrey  
Guilford, Surrey, ENGLAND

### 2. Neurobiological Factors in the Development of Personhood



**Jose M.R Delgado**  
Professor and Director  
Center for Neurobiological Studies  
Madrid, SPAIN

**Discussant**  
**Ljubisav Rakic**  
Head, Dept. of Research  
Clinical Centre of the  
School of Medicine  
Belgrade, YUGOSLAVIA

## Session III-B.

Saturday, November 28, 2:30-4:30 pm

### 1. Allocating Health Care Resources and the Problem of the Value of Life



**Helga Kuhse**  
Acting Director  
Center for Human Bio-Ethics  
Monash University  
Victoria, AUSTRALIA

**Discussant**  
**Hans Martin Sass**  
Chairman, Dept. of Philosophy  
Ruhr University  
Bochum, WEST GERMANY

### 2. What Prevents Life from being Worthwhile?—An Examination of Some Changing Views on Human Life and Suffering



**Christie Davies**  
Professor of Sociology  
University of Reading  
Reading, ENGLAND

**Discussant**  
**Waldemar Molinski**  
Professor of Ethics  
University of Wuppertal  
Wuppertal, WEST GERMANY

## Session IV-B.

Saturday, November 28, 5:00-7:00 pm

### 1. Understanding Human Emotions and Their Relevance for Medical Ethics



**Padmasiri De Silva**  
Chairman, Dept. of Philosophy  
and Psychology  
University of Peradeniya  
Peradeniya, SRI LANKA

**Discussant**  
**Felix Fernando**  
Vice-Pres., Med. Acupun. Assoc. &  
Medical Practitioner  
Dispensary and Surgery  
Wennappuwa, SRI LANKA

### 2. Equal Value; or Equal Rights to Equal Liberties?



**Anthony Flew**  
Distinguished Research Fellow  
Social Philosophy and Policy Center  
Bowling Green State University  
Bowling Green, Ohio

**Discussant**  
**Tamas Kozma**  
Head of Department  
Hungarian Institute for  
Educational Research  
Budapest, HUNGARY

## Session V.

Sunday, November 29, 9-11 am

### 1. Three Views of Death and Their Implications for Life



**Arthur S. Berger, J.D.**  
Director, Internat'l Institute  
for the Study of Death  
President, Survival Research  
Foundation  
Pembroke Pines, Florida

#### Discussants

**David Lorimer**  
Director, the Scientific and  
Medical Network  
Northleach, ENGLAND

and

**Shigeru Katoh**  
Professor of Philosophy  
Tokyo Univ. of Art & Design  
Tokyo, JAPAN

### 2. Issue of Life and Death in Buddhism



**Daigan Lee Matsunaga**  
Director, International  
Buddhist Study Center  
Tokyo, JAPAN

#### Discussant

**Saeng Chandra-ngarm**  
Assoc. Professor of Religion  
and Buddhism  
Faculty of Humanities  
Chiang Mai University  
Chiang Mai, THAILAND

## Session VI.

Sunday, November 29, 11:30 am-1:30 pm

### 1. A Christian Understanding of the Meaning of Life



**David Davies**  
Dean, Faculty of Theology &  
Religious Studies  
St. David's Univ. College  
University of Wales  
Lampeter, WALES

#### Discussants

**Ursula King**  
Senior Lecturer  
Dept. of Theol. & Rel. Studies  
University of Leeds  
Leeds, ENGLAND

and

**Rosalind Hackett**  
Asst. Prof. of Religious Studies  
University of Tennessee  
Knoxville, Tennessee

### 2. The Value of Human Life: an Islamic Perspective



**Anis Ahmad**  
Director-General  
Da'wah Academy  
International Islamic Univ.  
Islamabad, PAKISTAN

#### Discussant

**Mashuq Muhammad Ally**  
Lecturer in Islamic Studies  
St. David's College  
University of Wales  
Lampeter, WALES

## Committee III — Hallmark Room

### Towards Ecumenism in World Philosophy

The present world situation not only urgently needs but also remarkably favors the emergence of creative new interaction within the farflung variegations of the philosophical enterprise. The fragmentation of knowledge and the split between science and values continue to thwart the vision of a unific human purpose. To cope with the grim threats to our common future as epitomized in nuclear holocaust and ecological disaster, it is increasingly clear that humanity must get its heart and head together, not in reductive uniformity but in mutuality of understanding that will ground and promote cooperative endeavor. The fruitful work of all cognitive disciplines requires to be taken with utmost seriousness, but beyond the level of technology and the individuated disciplines of science, art, and praxis we must and can reach today for wider and deeper sharing of intellectual vision.

The undertaking that challenges us is nothing less than an ecumenical movement of philosophy wherein the earth's vast heritage of thought will be potentiated afresh through the dialogical interaction of living traditions and newly arising viewpoints. An inventory is wanted of the world's philosophical resources, discerned in their wholistic integrity and critically appreciated in their respective salient contributions to the mutual coherence of the sciences and their integration with values. Thereupon, through the indispensable medium of actual dialogue,

can ensue reciprocal inquiry, critique and reflexive serendipity—a process of interpersonal co-thinking that has largely been lacking in the history of thought till now.

The **problem** which motivates this committee is on the one side precisely this standing lack, so far in the human adventure, of a genuine wider ecumenism in philosophy, while on the other side it is the dire need already mentioned to mobilize and integrate the human mind and spirit to cope with the crises we face. The unprecedented opportunity we enjoy today is sweeping access to world cognition and the chance to experience its evolving dynamism in the encounter of creative representative interpreters of our immense but divided heritage. Building on the work of preceding ICUS meetings, it is proposed to continue eliciting papers that will focus the overarching thrust of major representative viewpoints as these address both the unity of knowledge and the integration of science and values. Care should be taken to engage authors who not only can expound expertly the content of living traditions but who also will be authentic witnesses to their contemporary personal meaning. In each case an "elephantine" paper would be sought, spanning epistemology, axiology, ontology and ethics, as all of these together form the embrace of wholistic cognition with human purpose.



**Honorary Chairman**  
**Sang Hun Lee**  
President  
Unification Thought Institute  
Seoul, KOREA



**Organizing Chairman**  
**A. Durwood Foster**  
Professor of Christian  
Theology  
Pacific School of Religion  
Berkeley, California

#### Session I.

Friday, November 27, 2:30-4:30 pm

##### 1. Steps toward Ecumenism in Meister Eckart and Nicholas of Cusa



**Emilie Zum Brunn**  
Director of Research  
National Center of  
Scientific Research  
Paris, FRANCE

**Discussant**  
**Daniel Charles**  
Professor, U.F.R. Arts and Music  
University of Paris VIII  
Antibes, FRANCE

##### 2. Truth, Nonviolence and Ecumenism in Ghandian Thought



**K.L. Seshagiri Rao**  
Professor of Religious Studies  
University of Virginia  
Charlottesville, Virginia

**Discussant**  
**Candadai Seshachari**  
Chair, English Department  
Weber College  
Ogden, Utah

## Session II.

Friday, November 27, 5-7 pm

### 1. Radhakrishnan and His Universal Synthesis: A Critical Analysis



**Bina Gupta**  
Department of Philosophy  
University of Missouri  
Columbia, Missouri

**Discussant**  
**Krishna Sivaraman**  
Dept. of Religious Studies  
MacMaster University  
Hamilton, CANADA

## Session III-B.

Saturday, November 28, 2:30-4:30 pm

### 1. The Buddha's Conceptions of Reality and Morality



**David Kalupahana**  
Department of Religion  
University of Hawaii at Manoa  
Honolulu, Hawaii

**Discussant**  
**R. David Gunaratne**  
Department of Philosophy  
University of Peradeniya  
Peradeniya, SRI LANKA

### 2. On the Diversity of Religions and the Reference of Religious Terms

**George I. Mavrodes**  
Department of Philosophy  
University of Michigan  
Ann Arbor, Michigan

**Discussant**  
**Robert E. Carter**  
Department of Philosophy  
Trent University  
Peterborough, Ontario, CANADA

## Session IV-B.

Saturday, November 28, 5-7 pm

### 1. Universalism as a Meta-philosophy of Mankind



**Janusz Kuczynski**  
Professor of History  
of Philosophy  
Warsaw University  
Warsaw, POLAND

**Discussant**  
**Lewis Rayapen**  
Research Fellow  
The Foundation for  
Peace International  
New York, New York

## Session V.

Sunday, November 29, 9-11 am

### 1. Unification Thought and a new Basis for Society



**Paul J. Perry**  
Unification Thought Institute  
New York, New York

**Discussant**  
**Ramon Reyes**  
Professor of Philosophy  
Ateneo de Manila University  
Quezon City, PHILIPPINES

### 2. The Philosophical Multidimensionality of Confucianism



**Charles Fu**  
Department of Religion  
Temple University  
Philadelphia, Pennsylvania

**Discussant**  
**Ki Kun Chang**  
Professor of Chinese Literature  
Song-Sim College for Women  
Seoul, KOREA

## Session VI.

Sunday, November 29, 11:30-1:30 pm

General Discussion

# A Critical Assessment of the Achievements of the Economic Approach

Adam Smith's vision encompassed a wide range of man's affairs and pursuits in society. In this century, economists narrowed their attention to the range of activities surrounding market transactions. Only during the last three decades has economics begun its "imperialist" age, spreading the economists' theory of behavior to the entire domain of the social sciences. Political economy and the new "institutional economics" broadened attention again to an open-ended array of social and political problems. The term 'economic approach' has come to be used as an umbrella word for studies that apply concepts generalized from economics as well as the structural organization of these concepts, on the individual decision level and on the social level of analysis, to problems dealt with in various other disciplines.

What gives economics this "imperialist" power is the fact that its key concepts are universal in applicability: scarcity, preference, opportunities, cost, choice, etc., apply to all of life\*, not only to human phenomena. The basic building blocks of economic theory, such as optimizing and equilibrium are likewise readily applicable to almost all social phenomena. Hence, generalized economics may ultimately become coextensive with all social sciences, as economic concepts and economic theory come to be used extensively and systematically in the various social sciences. In political science this new insight came like a breath of fresh air, when it was recognized that exchange also takes place outside the economic market. In domains of study such as family, marriage, divorce, fertility, the concept of exchange proved useful; the understanding that in primary groups love and affection are exchanged for help and assistance, achieved great explanatory power. In the study of crime, exciting results were obtained when criminals were treated as individuals rationally responding to opportunities in the form of

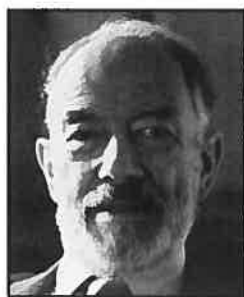
punishment and reward. The application of economic analysis to legal rules and legal institutions made possible a new understanding of the evolution of law. Its application to constitutional design and international relations, to war and conflict, have likewise led to a rapid intellectual flowering, one that could not have been obtained by other means.

The economic approach emphasizes an underlying unit in the structure of problems appearing over the whole of man's experience. Economics offers a coherent analytic framework to express this unity, and, hence, it opens an opportunity for a unified approach understood in a broad sense in the social sciences. It appears safe to predict that the interpenetration of economic thought with all other social disciplines will continue, will lead to new interesting problems, and that this interpretation will have repercussions on economics in the more traditional form.

However, the unifying potential of the economic approach is not limited to the social sciences. The economic approach has proven fruitful in applications to animal behavior and to biological phenomena. It offers the possibility of a unified approach to all life sciences.

Representatives of the economic approach can point to impressive results. Of course, these claims have not remained uncontested. It is the aim of this workshop critically to assess the achievements so far, and also to evaluate the various criticisms that have been levelled against "imperialist" economics.

\*Preference and choice may be applicable to purely biological phenomena only in a metaphorical sense.



**Honorary Chairman**  
**Karl Brunner**  
*Director*  
*Center for Research in*  
*Government Policy and*  
*Business*  
*University of Rochester*  
*Rochester, New York*



**Organizing Chairman**  
**Gerard Radnitzky**  
*Professor of Philosophy of*  
*Science*  
*University of Trier*  
*Trier, WEST GERMANY*

## Session I.

Friday, November 27, 2:30-4:30 pm

### 1. Biology, Economics and Bioeconomics



**Michael T. Ghiselin**  
Senior Research Fellow  
Department of Invertebrate Zoology  
and Geology  
Calif. Academy of Sciences  
San Francisco, California

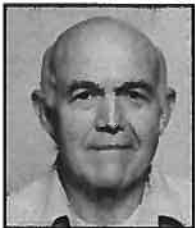
#### Discussants

**Percy Lowenhard**  
Associate Professor  
Department of Psychology  
University of Goteborg  
Goteborg, SWEDEN

and

**Jack Hirshleifer**  
Department of Economics  
Univ. of California  
Los Angeles, California

### 2. The Economic Approach to Sociology



**James S. Coleman**  
Professor of Sociology  
University of Chicago  
Chicago, Illinois

#### Discussants

**Manfred Tietzel**  
Department of Economics  
University of Duisburg  
Duisburg, WEST GERMANY

and

**Erich H. Weede**  
Professor of Sociology  
University of Cologne  
Cologne, WEST GERMANY

## Session II.

Friday, November 27, 5-7 pm

### 1. The Reintegration of Political Science and Economics and the Presumed Imperialism of Economic Theory



**Peter Ordeshook**  
Division of Humanities and  
Social Sciences  
California Institute of Technology  
Pasadena, California

#### Discussant

**Vincent Ostrom**  
Workshop in Political Theory &  
Policy Analysis  
Indiana University  
Bloomington, Indiana

## Session III-A.

Saturday, November 28, 9-11 am

### 1. The Law and Economic Approach



**Alan Schwartz**  
Professor of Law  
Law Center  
Univ. of So. California  
Los Angeles, California

#### Discussants

**Peter H. Aranson**  
Professor of Economics  
Emory University  
Atlanta, Georgia

and

**Anthony DeJasay**  
Cany, FRANCE

### 2. The Economic Approach to History

**Roger E. Meiners**  
Director, College of Commerce and  
Industry  
Center for Policy Studies  
Clemson University  
Clemson, South Carolina

#### Discussant

**Peter Munz**  
Professor of History  
Victoria University of Wellington  
Wellington, NEW ZEALAND

## **Session IV-A.**

Saturday, November 28, 11:30 am-1:30 pm

### **1. The Economics of Conflict**



**Gordon Tullock**  
Department of Economics  
University of Arizona  
Tucson, Arizona

**Discussant**  
**Jack Hirshleifer**  
Department of Economics  
University of California  
Los Angeles, California

## **Session V.**

Sunday, November 29, 9-11 am

### **1. The Economic Approach to International Relations**

**Peter Bernholz**  
Institute for Social Sciences  
University of Basel  
Basel, SWITZERLAND

**Discussant**  
**Erich H. Weede**  
Professor of Sociology  
University of Cologne  
Cologne, WEST GERMANY

### **2. Concluding Discussions of the Potential of the Economic Approach**



**Karl Brunner**  
Director, Center for Research in  
Government Policy and Business  
University of Rochester  
Rochester, New York

## **Session VI. Panel Discussion: The Economic Approach Applied to Problems of Science Policy and Technology Policy**

Sunday, November 29, 11:30-1:30 pm

### **Introductory Statements:**

#### **How the Scientific Marketplace Works**



**Alvin M. Weinberg**  
Distinguished Fellow  
Institute for Energy Analysis  
Oak Ridge Associated Universities  
Oak Ridge, Tennessee

### **The Economic Approach Applied to Science Policy**



**Simon Rottenberg**  
Department of Economics  
University of Massachusetts  
Amherst, Massachusetts

### **Special Panel Discussants**

**Michael J. Moravcsik**  
Inst. of Theoret. Science  
University of Oregon  
Eugene, Oregon

**Hans Otto Lenel**  
Dept. of Economics  
University of Mainz  
Mainz, WEST GERMANY

**Erwin Schopper**  
Dept. of Experimental Physics  
University of Frankfurt  
Frankfurt, WEST GERMANY

**John W. Sommer**  
Director of Research  
National Science Foundation  
Washington, D.C.



# The Human Food Chain: The Problem of Nourishment

The production, distribution and consumption of food has provided mankind with one of its greatest concerns throughout most of its history. For most men undernourishment has been a major concern and its causes, consequences and prevention are important problems for study.

It remains so today for far too high a proportion of humanity but, in addition and for the first time, there exists in many countries widespread concern with a new set of problems—those caused by the over-production and over-consumption of food.

These problems and in particular their interactions are the subject of this committee's discussions, and a wide range of the many scientific disciplines dealing with the food problem will be brought together for this purpose.

This framework will be set by a description of the current global food situation with its emerging trends. This will be followed by an examination of the changes that have taken place in the largest but least known of the national food systems—that of the People's Republic of China.

Food losses in production and distribution and the potential for their reduction will then be considered on a global scale to be followed by an examination of the policy choices available to the world food economy with their international implications.

The remaining contributions will focus on the problems of nourishment on the individual rather than the global

or national scale. The nutritional aspects of food consumption in sustaining human functions and development will be considered from both their physical and mental aspects. The anthropological viewpoint will then be used to examine the many cultural factors influencing man's diet. This will be followed by a consideration of the sensual aspects of food consumption and in particular how these are being affected by modern methods of food production and attitudes to animal and human well-being and health.

More than purely physical aspects play an important role in food consumption via the teachings of many of the world's religions and these will be reviewed from the viewpoint of comparative religion.

Finally, an attempt will be made to achieve a unity of these very different scientific disciplines concerned with the problems of nourishment through the integrative, ecological concept of the human food chain. The many and major effects of modern systems of food production on the environment and their effects on food production, will be considered as well as their implications for securing a sustainable food supply for the future.

The problems of nourishment are clearly manifold and complex: hopefully, by bringing together some of the important but often neglected aspects, this multi-disciplinary committee may be able to suggest some new approaches to solving this oldest and most persistent of mankind's problems.



**Honorary Chairman**  
**Alexander King**  
*President  
The Club of Rome  
Paris, FRANCE*



**Organizing Chairman**  
**Gerald Stanhill**  
*Research Professor  
Institute of Soils and Water  
Agricultural Research  
Organization  
Bet Dagan, ISRAEL*

## Session I.

Friday, November 27, 2:30-4:30 pm

### 1. The World Food Situation—Glut and Starvation



**Alexander King**  
*President  
Club of Rome  
Paris, FRANCE*

### 2. The Food-Energy System in the People's Republic of China



**Yingzhong Lu**  
*Director, Institute for Techno-  
Economics and Energy System  
Analysis  
Beijing, PEOPLE'S REPUBLIC OF  
CHINA*

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### Session I Discussant

**David Pimentel**  
Cornell University  
Ithaca, New York

### Session II.

Friday, November 27, 5-7 pm

#### 1. Food-loss Prevention: A Means of Socio-Economic Transformation



**Husain A.B. Parpia**  
Central Food Technology  
Research Institute  
Center for Advanced  
Research & Development  
Mysore, INDIA

#### 2. Policy Choices and the World Food Economy



**Eric A. Monke**  
Associate Professor  
Dept. of Agricultural Economics  
University of Arizona  
Tucson, Arizona

### Session II Discussants

**Jimmye S. Hillman**  
Head, Department of Agricultural  
Economics &  
Director, International Programs  
University of Arizona  
Tucson, Arizona

**Kook Hee Kang**  
Professor, Sung Kyun Kwan  
University  
Seoul, KOREA

**Yasuhiko Yuize**  
Faculty of Law  
and Economics  
Chiba University  
Chiba, JAPAN

### Session III-B.

Saturday, November 28, 2:30-4:30 pm

#### 1. The Global Dimensions and Physiological Aspects of Malnutrition



**Paul B. Pearson**  
Professor, College of Agriculture  
Department of Nutrition and  
Food Science  
University of Arizona  
Tucson, Arizona

#### 2. Nutrients, Cognition and Human Behavior



**Shlomo Yehuda**  
Full Professor  
Psychopharmacology  
Dept. of Psychology  
Bar-Ilan University  
Ramat-Gan, ISRAEL

### Session III-B Discussants

**Seymour S. Alpert**  
Department of Physics  
University of New Mexico  
Albuquerque, New Mexico

**Jin Daxun**  
Chinese Academy of  
Preventive Medicine  
Institute of Nutrition and  
Food Hygiene  
Beijing, PEOPLE'S REPUBLIC  
OF CHINA

### Session IV-B.

Saturday, November 28, 5-7 pm

#### 1. The Chinese Experience in Transforming Nutrition



**Jin Daxun**  
Chinese Academy of Preventive  
Medicine  
Institute of Nutrition and  
Food Hygiene  
Beijing, PEOPLE'S REPUBLIC OF  
CHINA

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## 2. The Human Food Chain: Newer Perspectives on Food Ideologies and Food Use, Globally



**Norge W. Jerome**  
Professor, Department of  
Preventive Medicine  
Director, Comm. Nutrition Division  
Univ. of Kansas Medical Center  
Kansas City, Kansas

### Session IV-B Discussants

**Jan Knappert**  
Senior Fellow  
School of Oriental and  
African Studies  
University of London  
London, ENGLAND

**James Fleming**  
History of Science  
Princeton University  
Princeton, New Jersey

### Session V.

Sunday, November 29, 9-11 am

#### 1. The Sensual Aspects of Food Consumption



**Nicholas Kurti**  
Prof. of Physics Emeritus  
Dept. of Engineering Science  
University of Oxford  
Oxford, ENGLAND

#### 2. And they ate and drank and rejoiced before the Lord

**R.J.Z. Werblowsky**  
Martin Buber Professor of  
Comparative Religion  
The Hebrew Univ. of Jerusalem  
Jerusalem, ISRAEL

### Session V Discussants

**J. Audrey Ellison**  
Food Consultant, Researcher  
and Writer  
Fulham, London  
ENGLAND

**Kook Hee Kang**  
Professor, Sung Kyun Kwan  
University  
Seoul, KOREA

### Session VI.

Sunday, November 29, 11:30-1:30 pm

#### 1. Ecological Aspects of the Human Food Chain



**David Pimentel**  
Cornell University  
Ithaca, New York

### Session VI Discussant

**Jack Vallentyne**  
Canadian Department of Fisheries  
and Ocean  
Burlington, CANADA

# Eastern Approaches to the Unity of Spirit and Matter: Qi and Science

For last year's ICUS XV, Committee 6 dealt with the theme "Eastern Approaches to Knowledge and Values: With an Emphasis on Qi." Discussion focused primarily on Qi as a physical/physiological energy. Qi, however, is considered to possess a mental/spiritual aspect as well. A hypothesis presented at the conclusion of last year's discussion proposed that Qi may be the force of a field capable of unifying spirit with physical/physiological energy. This year the committee will focus on whether the spirit is able to exert an influence on matter, and if so, by what processes and structures such influence is effected. These questions will be discussed in light of empirical examples and various theories in the history of Eastern philosophy.

First, in an attempt to substantially demonstrate the existence of Qi, we will examine the empirical facts of Qi found in the arts, technology, medical science and customs through the results of experiments and training carried out in relation to Qi.

Next, we will explore certain documents from the histories of Eastern philosophy and religion to examine their

empirical laws premised on the actual existence of Qi. The view of nature in Hinduism, Buddhism and Taoism as well as the Confucian Li-Qi Theories (schools of Chu-Zi and Wang Yang-Ming) will be reviewed and restructured. Finally, a theoretical model concerning the essence of Qi will be established based on the empirical examples and laws taken up. As one such model, a Qi function hypothesis will be adopted this year.

By comparing and examining this model in relation to the theories of several disciplines of modern science—including psychology, physiology, medicine, physics and philosophy—and particularly traditional mechanics and quantum mechanics, the committee will consider whether it is possible to construct a scientific paradigm that integrates spirit and matter. It is thought that the Li-Qi Theory may contribute to the theoretical breakthrough required by contemporary physics by providing the referential framework for a solution to the relationship between consciousness and matter as well as that between spirit and matter.



**Honorary Chairman**  
**Jean Charon**  
*Theoretical Physicist*  
*University of Paris*  
*Director, Center of Research*  
*on Complex Relativity and*  
*Relations to Consciousness*  
*Villebon-sur-Yvette, FRANCE*



**Organizing Chairman**  
**Manabu Nakagawa**  
*Professor of Economics*  
*Hitotsubashi University*  
*Tokyo, JAPAN*

### **Session I. Possible Contributions of Qi to Science: An Overview**

Friday, November 27, 2:30-4:30 pm

Introductory Remarks by Manabu Nakagawa

All Paperwriters' Presentations

### **Session II. Qi as Empirical Fact**

Friday, November 27, 5-7 pm

#### **1. An Initial Study of the Qi in Chinese Painting and the Secret of Long Life**



**Chang-juan Ji**  
*Head of the Division of Archaeology*  
*China Jonshu Tsenjon Museum*  
*Zhenjiang, PEOPLE'S REPUBLIC OF CHINA*

## 2. The Meridian and Qi



**Yong-Tae Choe**  
Professor  
College of Oriental Medicine  
Kyung Hee University  
Seoul, KOREA

### Session II Discussants

**Manuel Dy**  
Philosophy Department  
Ateneo de Manila University  
Manila, PHILIPPINES

**Professor Alfredo V. Lagmay**  
Professor of Philosophy & Psychology  
University of the Philippines  
Diliman, Quezon City  
PHILIPPINES

## Session III-A. Philosophical Significance of Qi in Eastern Thought

Saturday, November 28, 9-11 am

### 1. The Indian View of Nature



**Ravi Ravindra**  
Professor, Department  
of Religion  
Dalhousie University  
CANADA



**Priscilla Murray**  
Professor, Department  
of Religion  
Dalhousie University  
CANADA

## 2. The Li-Qi Theory in Qi Thought and Some Unresolved Issues



**Seiji Takeuchi**  
Director of Research Section  
Unification Thought Institute  
of Japan  
Tokyo, JAPAN

### Session III-A Discussants

**Henryk Skolimowski**  
Professor of Philosophy  
University of Michigan  
Ann Arbor, Michigan

**Wu-Huan Pei**  
Associate Professor  
Heilongjiang University  
Harbin, PEOPLE'S REPUBLIC OF CHINA

## Session IV-A. Physics and Qi: Interaction of Spirit and Matter

Saturday, November 28, 11:30-1:30 pm

### 1. Qi and Physics



**Se Won Yoon**  
President, Sung Hwa  
Theological Seminary  
Seoul, KOREA

### 2. The Interaction of Spirit and Matter and the Qi Function



**Riitsu Nishio**  
Director of Academic Research  
Professor's World Peace Academy  
of Japan  
Tokyo, JAPAN

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#### Session IV-A Discussants

**Mitsuo Ishikawa**

*Division of Natural Sciences  
International Christian University  
Tokyo, JAPAN*

**Lan-Xu Xu**

*President  
Heilongjiang University  
Harbin, PEOPLE'S REPUBLIC  
OF CHINA*

#### Session V. Qi and View on Nature in Eastern Thought

Sunday, November 29, 9-11 am

##### 1. Buddhist View of Nature and Qi

**Chatsumarn Kabilsingh**

*Faculty of Liberal Arts  
Thammasat University  
Bangkok, THAILAND*

##### 2. Qi and Geomancy in Korean Thought

**Yong-Woon Kim**

*Professor of Mathematics  
Han Yang University  
Seoul, KOREA*

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#### Session V Discussants

**Nam Pyo Lee**

*Professor  
Hanyang University  
Seoul, KOREA*

**Per Sorbom**

*Associate Professor  
Uppsala University  
Uppsala, SWEDEN*

#### Session VI. Qi and Physics: Unified Understanding of Spirit and Matter

Sunday, November 29, 11:30-1:30 pm

##### Summation Speech: Analysis and Representation of Spirit in Contemporary Physics

**Jean E. Charon**

*Theoretical Physicist  
University of Paris  
Director, Center of Research  
on Complex Relativity and  
Relations to Consciousness  
Villebon-sur-Yvette, FRANCE*

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#### Session VI Discussants

**Kunihiko Watanuki**

*Professor, Dept. of Chemistry  
University of Tokyo  
Tokyo, JAPAN*

**Kenzo Yamamoto**

*President, Hidafukurai Psychological  
Research Institute  
Gifu Prefecture, JAPAN*

#### Summary Session

Sunday, November 29, 3-4 pm

##### Remarks by Committee Chairman

**Manabu Nakagawa**

*Professor of Economics  
Hitotsubashi University  
Tokyo, JAPAN*



# In Search For Understanding Among the Monotheistic Religions

The insights provided by the teachings of Judaism, Christianity and Islam into the basic themes of the deity, the relationship between God and man, the duties of man toward god and his fellow men, and the destiny of man are not only the most fundamental guidelines for human conduct for more than half of mankind, but are also among the greatest spiritual values possessed by man for the last three millennia.

Unfortunately, while religion exerts a great unifying influence on disparate human groups, it was historically also a major factor making for intergroup differences, tensions and struggles, and triggering some of the most bloody wars mankind has known. Hence it can be considered axiomatic that mankind will not be able to achieve unity, harmony and global cooperation until and unless an understanding is reached among the different religions of man.

In recent decades some steps have been taken in this direction. Vatican II has signified an important change in the attitude of the Catholic Church toward other monotheistic religions. Jewish-Christian dialogues have been initiated both in Rome and in the United States several years ago. Much more, however, remains to be done in this field, and even more in order to commence an interchange between Christianity, Judaism and Islam, and thus to work toward a common ground among the three "Abrahamic religions," as Ramon Lull first called them some seven centuries ago.

The persons best qualified to lay the ground work upon which such an understanding can be built are historians of religion who study the multi-faceted manifestations of the world of faith without any *a priori* commitment to a single, historically developed formulation of religion, but

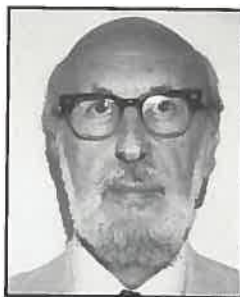
rather treat them analytically with dispassionate scholarship. A most suitable forum for the presentation of such analyses and for the initiation of scholarly discussion on this subject is the International Conference on the Unity of the Sciences whose two major themes are Unity of Knowledge and Science and Values.

Religious knowledge—one of the most fundamental branches of human knowledge—suffers more from lack of unity than any other major branch of knowledge. In the natural or exact sciences there are certain generally agreed-upon basic facts, accepted equally by specialists in mathematics, physics, chemistry, etc., as well as by scientists all over the world, irrespective of their national, racial or religious affiliation. The situation is similar, although admittedly less unequivocal, in the humanities, in history and in the social sciences. However, in the *ulum al-din*, "the religious sciences," to use al-Ghazali's classical term, the common denominator is so slim that, thus far, it has not proved practicable to build upon it the universal House of God of which Isaiah dreamt almost three thousand years ago. It is this lofty ideal, which is an essential element in the vision of Reverend Moon, that would be served in a modest way by the deliberations of our Committee.

That committee will, to begin with, engage in a stock-taking of the differences and the similarities among the three monotheistic religions and their various branches, and would proceed to searching for, identifying and emphasizing the common denominator among them. It would explore, by analyzing the various aspects of religion, the possibility of developing a basis for common religious values, and for a unity of religious knowledge. Its work will, hopefully, be an important first step toward the goal which ICUS was created to serve.



**Honorary Chairman**  
**Majid Khadduri**  
*Univ. Distinguished Research  
Professor Emeritus  
School of Advanced  
International Studies  
Johns Hopkins University  
Baltimore, Maryland*



**Organizing Chairman**  
**Raphael Patai**  
*Professor of Anthropology,  
Emeritus  
Fairleigh Dickinson  
University  
Rutherford, New Jersey*

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## Session I.

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Friday, November 27, 2:30-4:30 pm

**Opening Remarks: Raphael Patai, Organizing Chairman**  
**Scripture, Clergy and Laymen**



### Judaism

**Jacob Joseph Staub**  
Chairman of the Faculty  
Reconstructionist  
Rabbinical College  
Wyncote, Pennsylvania



### Christianity

**Cromwell Crawford**  
Prof. of Religion & Ethics  
Department of Religion  
University of Hawaii  
Honolulu, Hawaii



### Islam

**Vali Reza Nasr**  
Dept. of Political Science  
Massachusetts Institute  
of Technology  
Cambridge, Massachusetts

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## Session II

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Friday, November 27, 5-7 pm

**The Mystical Way to Unity**

**Yaffa Eliach**  
Distinguished Professor  
of Judaic Studies  
Brooklyn College  
Brooklyn, New York



**Adriaan Peperzak**  
Full Professor  
Department of Philosophy  
University of Nijmegen  
Amsterdam,  
NETHERLANDS



**Syed Ausaf Ali**  
Indian Institute of  
Islamic Studies  
New Delhi, INDIA

### Fundamentalism: Problems and Trends



**Gershom Weiler**  
Department of Philosophy  
Trinity College  
Hartford, Connecticut



**Donald W. Dayton**  
Professor of Theology  
and Ethics  
Northern Baptist  
Theological Seminary  
Lombard, Illinois



**Mohamed Rabie**  
Center for Research  
and Publishing  
Washington, D.C.

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## Session III-A

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Saturday, November 28, 9-11 am

**The God-Concept and the Creed**



**Norbert Samuelson**  
Temple University  
Philadelphia, Pennsylvania



**Joseph Bettis**  
Prof. of Religious Studies  
Western Washington  
University  
Bellingham, Washington



**Gamal M. Badr**  
Adjunct Professor  
New York University  
New York, New York



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## ***The Good Life: What it is and How to Achieve it***



**Benjamin Uffenheimer**  
Professor of Bible  
University of Tel-Aviv  
Jerusalem, ISRAEL



**Paul W. Sharkey**  
Assoc. Professor of  
Philosophy  
University of Southern  
Mississippi  
Hattiesburg, Mississippi



**Maan Ziade**  
Professor of Philosophy  
Lebanese University  
Beirut, LEBANON

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## **Session IV-A**

Saturday, November 28, 11:30 am-1:30 pm

Open Discussion

### ***My Religion and yours: the issue of Religio- Centrism***



**Gedaliahu G. Stroumsa**  
Chairman, Dept. of  
Comparative Religion  
Hebrew University  
Jerusalem, ISRAEL



**John W. Cooper**  
Senior Research Fellow  
Ethics and Public  
Policy Center  
Washington, D.C.



**Sadek J. Sulaiman**  
Senior Fellow  
Middle East Institute  
Washington, D.C.

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## **Session V**

Sunday, November 29, 9-11 am

### ***The Role of Women***



**Livia Bitton-Jackson**  
Prof. of Judaic and  
Hebraic Studies  
H. H. Lehman College  
City University of New York  
New York, New York



**Eileen V. Barker**  
Department of Sociology  
London School of  
Economics  
London, ENGLAND

**Amira El-Azhari Sonbol**  
Department of History  
Georgetown University  
Washington, D.C.

### ***Non-Theistic Views of Monotheism***



**Buddhist**  
**Masao Abe**  
Visiting Professor of  
Buddhism  
The Divinity School  
University of Chicago  
Chicago, Illinois



**Confucianist**  
**Philip H. Hwang**  
Professor  
Dongguk University  
Seoul, KOREA



**Hindu**  
**Purushottam L. Bhargava**  
Former Professor  
Rajasthan University  
Jaipur, INDIA

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## **Session VI**

Sunday, November 29, 11:30 am-1:30 pm

Open Discussion

Concluding Session  
Introduction of the Summation Speaker by  
Raphael Patai

Summation Speaker: Richard Rubenstein  
Lawton Distinguished  
Professor of Religion  
Florida State University  
and  
President, The Washington  
Institute for Values in  
Public Policy  
Washington, D.C.



# Agenda

## **Sixteenth International Conference on the Unity of Sciences**

**November 26-29, 1987  
Stouffer Waverly Hotel  
Atlanta, Georgia**



### **The Symbol of ICUS**

The symbol of ICUS employs at its center the symbol of ICF. The symbol of ICUS portrays the give and take relation and interdependence between all phenomena, symbolized by two circular arrows. The form of a man and woman, which also symbolizes the unity of "heaven and earth" or the spiritual and material cultures, revolve around a common center, or standard of value. The extended arms represent the tips of writing pens, since writing is the medium of cultural expression and interaction.

### **Thursday, November 26**

- 10:00 am** Registration Opens  
Coat Room
- 11:00—** Buffet Luncheon  
**3:00 pm** Lobby/Stanhope
- 7:30 pm** Welcoming Reception  
Habersham

### **Friday, November 27**

- 7:00 am** Breakfast  
Habersham
- 9:00 am** Opening Plenary Session  
Ballroom III & IV
- 10:30 am** Refreshment Break  
Garden Court
- 11:00 am** Plenary Address  
"The Unification of Knowledge:  
An Ideal and Its Difficulties"  
Edward Shils  
Ballroom III & IV
- 11:45 am** Introductory Committee  
Session  
Tyndall, Stanhope (lobby level),  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 1:00 pm** Luncheon  
Habersham
- 2:30 pm** Session 1  
Tyndall, Stanhope (lobby level),  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 4:30 pm** Refreshment Break  
Garden Court
- 5:00 pm** Session 2  
Tyndall, Stanhope (lobby level),  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 7:00 pm** Dinner  
Habersham

## **Saturday, November 28**

- 7:00 am Breakfast**  
Habersham
- 9:00 am Session 3a**  
Tyndall, Galleria, Brayton, Wilton  
Committees I (Motz), IV (Radnitzky),  
VI (Nakagawa), VII (Patai)
- 11:00 am Refreshment Break**  
Garden Court
- 11:30 am Session 4a**  
Tyndall, Galleria, Brayton, Wilton  
Committees I (Motz), IV (Radnitzky),  
VI (Nakagawa), VII (Patai)
- 1:00 pm Luncheon**  
Habersham
- 2:30 pm Session 3b**  
Stanhope (lobby level),  
Hallmark, Chancellor  
Committees II (Badham),  
III (Foster), V (Stanhill)
- 4:30 pm Refreshment Break**  
Garden Court
- 5:00 pm Session 4b**  
Stanhope (lobby level),  
Hallmark, Chancellor  
Committees II (Badham),  
III (Foster), V (Stanhill)
- 7:00 pm Dinner**  
Habersham
- 8:30 pm Plenary Address**  
"Beyond Science"  
Tor Ragnar Gerholm  
Ballroom III & IV

## **Sunday, November 29**

- 7:00 am Breakfast**  
Habersham
- 9:00 am Session 5**  
Tyndall, Stanhope (lobby level),  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 11:00 am Refreshment Break**  
Garden Court
- 11:30 am Session 6**  
Tyndall, Stanhope (lobby level),  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 1:30 pm Luncheon**  
Habersham
- 3:00 pm Summary Session**  
Stanhope (lobby level), Tyndall,  
Hallmark, Galleria, Chancellor,  
Brayton, Wilton
- 4:00 pm Closing Plenary Session**  
Ballroom II
- 6:00 pm ICF Reception**  
Garden Court
- 7:00 pm Farewell Banquet**  
Ballroom III & IV

## **Monday, November 30**

- 5:00 am Continental Breakfast**  
(early departures)  
Garden Court
- 7:00 am Breakfast**  
Habersham

# ICUS: Goals and Perspectives

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## An Interdisciplinary Academic Forum

The International Conference on the Unity of the Sciences (ICUS) is an interdisciplinary academic forum dedicated to examining the important issues confronting our contemporary world. ICUS is sponsored by the International Cultural Foundation, Inc. (ICF), which is a non-profit organization set up to promote academic, scientific, religious and cultural exchange among peoples of the world. ICF was founded in 1968 by the Reverend Sun Myung Moon.

Starting in 1972 with 20 participants, ICUS has continually expanded its scope, while also deepening its relationship with the worldwide academic community. During its tenure, the conference has come to be recognized as a forum for scholars and scientists committed to addressing issues of fundamental concern to humanity. ICUS now has a global network of cooperating scholars. In the words of Dr. Alexander King, President of the Club of Rome, "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."

Apart from the annual meeting, ICUS also has an impressive and expanding publication program, **ICUS Books**, which includes volumes that come from conference committees as well as other single-authored manuscripts. Moreover, an ICUS journal, dedicated to publishing articles that reflect ICUS' concern with interdisciplinary studies and values, is in the process of becoming a significant and unique contribution to the academic enterprise.

## The Challenge

In our common effort to build a better future for all peoples, there is little question but that we face significant and even discouraging challenges. Many scholars and scientists, of course, devote themselves to exploring and finding solutions to the most pressing global concerns. Breakthroughs in science have contributed greatly to our knowledge of the world and to our understanding of and ability to deal with disease, famine, over-population, under-development and environmental pollution. Yet despite advances in science, humanity is presently confronted with grave dangers, some of which result from the often unintended but

harmful side effects of technological applications of scientific knowledge.

At the same time, the problems which humanity now faces are not merely of a material or technical nature. As we know, it is oftentimes the more cultural and ethical factors which serve as the decisive forces in creating success or failure for the world's peoples. These same factors, however, are not generally understood as being easily integrated with a scientific worldview.

The global challenge to scholars, as understood in the ICUS perspective, is multi-dimensional. On the one hand, there is the need to understand and contribute to the possibilities for a fuller and more meaningful human life for all, by providing tools for comprehending and averting life-threatening situations. At the same time, ICUS also sees the global challenge as one that requires a transformation of the very practices by which the academic community acquires knowledge and seeks to address these challenges. This transformation involves not only the effort to integrate science and values, but also the commitment to a cooperative, interdisciplinary approach to inquiry.

## Facing the Challenge

ICUS was founded in order to squarely face the challenge discussed above. This founding spirit includes the firm conviction that the world's scientists and scholars have a great potential to substantially contribute to the progress and wellbeing of humanity. ICUS was also established in order to foster the participation of the academic community in an international, interdisciplinary dialogue which considers the possibility and promise of an integrated and non-exclusive worldview founded on the premise of absolute, universal values.

In stating this underlying purpose, ICUS recognizes that the premise of absolute values may not be accepted by all, or even a majority, of participants. Nevertheless, it is possible to identify certain ennobling values that have inspired people over the ages, such as the pursuit of truth, beauty, and goodness—ideals that benefit all of humanity. The clarification of these shared values and their implications is worthy of serious study, whether or not these values are presumed a priori to be absolute. If scholars are to be able to chart a promising course for



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humanity's future, scientific knowledge must be related to values.

ICUS provides scholars with a rare opportunity to discuss timely issues in the company of a distinguished, international group of colleagues. As ICUS committees address problems of global concern, there is a concerted effort to extend the inquiry beyond conventional disciplinary limits. When, for example, topics such as development or education are considered, a variety of perspectives are included, such as technical, theoretical, philosophical and ethical orientations. In this way a more cooperative and comprehensive analysis can be made. Indeed, much of the distinctiveness and importance of ICUS resides in the fact that it is an international forum which examines topics in an interdisciplinary way and with paramount attention given to the factor of values.

ICUS participants are encouraged to use the resources at their disposal to discuss and contribute to the achievement of an improved understanding of our changing world. In this respect, science is understood as having a significant role to play, both as observer and participant, in contemporary processes of world transformation.

### **A Distinctive Approach to Scientific Inquiry**

From the observations discussed above, it follows that there are two fundamental criteria which underlie the approach which ICUS committees take in considering particular topics such as the origin and nature of the universe, biological evolution, biomedical ethics, economic development, environmental studies, education, or the comparative study of worldviews. First of all, ICUS is characterized by an interdisciplinary and unified approach to inquiry. This "Unity of Knowledge" criterion helps ICUS either to avoid the pitfalls or to move beyond the over-specialization and fragmentation which may characterize mono-disciplinary studies. Secondly, with its "Science and Values" criterion, ICUS underscores the centrality of values as they operate both in the practice of science and in the subject matter of science. ICUS thereby emphasizes the need for an integration of scientific practices with a value perspective.

Committees with a "Unity of Knowledge" focus

consider specific topics with a comprehensive analysis, relying on the input from many different disciplines. At the same time, a committee might take upon itself the task of exploring the very desirability and possibility of obtaining a "Unity of Knowledge" perspective: that is, scientific methodology itself may be examined. Committees that have a "Science and Values" focus reflect on the philosophical, religious, cultural or ethical issues that are relevant either to some particular form of scientific inquiry or to some area of scientific application, such as health care or the environment.

Apart from these characteristics, each ICUS meeting also seeks to address an overall conference theme. Past conference themes have included, "The Responsibility of the Academic Community in the Search for Absolute Values," "Modern Science and Moral Values," and "Absolute Values and the New Cultural Revolution." These have encouraged both the examination of the profound changes—changes related to advancing technology or modernization, as well as cultural flux—in our world and the effort to responsibly address global problems in a way that leads to the material and spiritual betterment of all people.

### **The Participation of Scholars**

ICUS is dedicated to a continuing study, in an atmosphere of complete academic freedom, of the underlying themes of the "Unity of Knowledge" and "Science and Values." Participants in ICUS come from a variety of nationalities, ethnic backgrounds, religions and cultural traditions. Thus, while participants' interests and expertise overlap to a degree with the vision expressed by the Founder, this overlap is generally only partial. The sponsors of ICUS do not expect participants to accept more of the Founder's vision than they in good conscience can. While many ICUS participants may be active in various other causes and activities, ICUS is completely independent of all other organizations, programs or political movements.

In summary, ICUS' purpose is to investigate with full academic freedom the enduring themes of the "Unity of Knowledge" and "Science and Values," and to study as scholars the scientific as well as the ethical and social implications of the specific themes of the conference.

# A Short History of ICUS

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The International Conference on the Unity of the Sciences (ICUS) arises from the commitment of the Reverend Sun Myung Moon to create an integrated worldview which can serve as the basis for a peaceful, harmonious future. Only such a worldview can provide order to human knowledge and a resolution of conflicting value premises.

Hence, the two enduring themes of ICUS—"Unity of the Sciences" and "Absolute Values"—have been raised as a challenge to stimulate the research and creativity of the world's scientists and scholars.

Starting in 1972 with 20 participants, ICUS year by year expanded its scope as it deepened its relationship with the worldwide academic community. This growing phase culminated with the historic Tenth ICUS, which convened 808 participants

from over 100 countries in Seoul, Korea in 1981. By this time ICUS had gained recognition from the world academic community as being truly unique as an interdisciplinary, international gathering of scholars and scientists addressing issues of fundamental concern to humanity.

Now a worldwide network of cooperating scholars has been established and, together with ICUS, several other ICF programs are helping to sustain this network. Thus ICUS is presently moving toward smaller conferences. More focused attention is being given to developing publishable book manuscripts from committee themes, securing specific contributions to the two fundamental ICUS themes, and enhancing the cross-disciplinary dialogue.

## Conference Chronology

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**Edward Haskell**

*Chairman, Council For Unified Research  
and Education*

**ICUS I (1972)**

*Moral Orientation of the Sciences  
20 participants from 8 nations*



**Nobusige Sawada**

*President, Japanese Association of Philosophy  
of Science*

**ICUS II (1973)**

*Modern Science and Moral Values  
60 participants from 17 nations*



**Lord Adrian**

*Professor of Physiology  
Nobel Laureate*

**ICUS III (1974)**

*Science and Absolute Values  
128 participants from 28 nations*



**Robert S. Mulliken**

*Distinguished Research Professor of Chemical  
Physics*

*Nobel Laureate*

**ICUS IV (1975)**

*The Centrality of Science and Absolute Values  
340 participants from 57 nations*



**Sir John Eccles**  
*Distinguished Professor of Physiology and  
 Biophysics*  
*Nobel Laureate*  
**ICUS V (1976)**  
 The Search for Absolute Values: Harmony  
 Among the Sciences  
*360 participants from 53 nations*  
**ICUS VI (1977)**  
 The Search for Absolute Values in a Changing  
 World  
*400 participants from 50 nations*



**Eugene P. Wigner**  
*Emeritus Professor of Physics*  
*Nobel Laureate*  
**ICUS VII (1978)**  
 The Re-evaluation of Existing Values and the  
 Search for Absolute Values  
*450 participants from 60 nations*  
**ICUS VIII (1979)**  
 The Responsibility of the Academic Community  
 in the Search for Absolute Values  
*485 participants from 67 nations*  
**ICUS XII (1983)**  
 Absolute Values and the New Cultural Revolution  
*300 participants from 80 nations*



**Morton A. Kaplan**  
*Professor of Political Science*  
**ICUS IX (1980)**  
 Absolute Values and the Search for the Peace  
 of Mankind  
*600 participants from 80 nations*  
**ICUS X (1981)**  
 The Search for Absolute Values and the Creation  
 of the New World  
*808 participants from 100 nations*  
**ICUS XI (1982)**  
 The Search for Absolute Values and the Creation  
 of the New World  
*525 participants from 100 nations*  
**ICUS XII (1983)**  
 Absolute Values and the New Cultural Revolution  
*300 participants from 80 nations*



**Kenneth Mellanby**  
*Director Emeritus, Monk's Wood Experimental  
 Station*  
**ICUS XIII (1984)**  
 Absolute Values and the New Cultural Revolution  
*225 participants from 40 nations*  
**ICUS XIV (1985)**  
 Absolute Values and the New Cultural Revolution  
*240 participants from 40 nations*  
**ICUS XV (1986)**  
 Absolute Values and the New Cultural Revolution  
*240 participants from 45 nations*



**Alvin M. Weinberg**  
*Distinguished Fellow*  
*Institute for Energy Analysis*  
**ICUS XVI (1987)**  
 Absolute Values and the Reassessment of the  
 Contemporary World  
*225 participants from 47 nations*

## Founder's Page

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Today in all fields people are prone to narrow their research to small and limited areas so that they tend to lose the overall purpose or the centrality of their subject. By doing so, they lose vitality which is produced and which functions only through the harmonious integration between the fields. They stray from the original motivation and purpose of science which is to bring about human happiness. In the extreme we can even find instances where people have destroyed their own happiness with their inventions.

In order to deal with these problems, man must have a clear and healthy mind so that he can function effectively. What we need is not an industrial or technological revolution but a great revolution of human consciousness. The solution to social problems is not limited to the natural sciences but must be transdisciplinary and influencing the areas of social science, the arts, religion, etc.

By going through this revolution of human consciousness man must be so led as to use the results of his research for the peaceful co-existence of all mankind in a very creative and productive way. Man's ideals can be realized only when he serves the individual purpose and the public purpose in complete harmony.

In the field of natural science, as in every other field of research, the immediate individual purpose must be attained along with the long-term, broader purpose of integrating with other fields for the

whole of mankind. Only then can we find the true meaning of the results of research.

In order to integrate all the specific fields of research, we are in need of a larger design or blueprint. In this way we may have a common ideal before us as we proceed to achieve this integration. The main purpose of this Conference on the Unity of the Sciences is for us to produce that blueprint. Permit me to offer some thoughts concerning that blueprint.

Man is aware that he has life within him because his mind which originates from a source of the highest dimension is not limited to space and time. That source may be called the cosmic mind or the first cause of all beings. Man must be able to understand the centrality of absolute value in the cosmos in order to give his life meaning.

Science begins its research on visible and external things. However, science can also assist in understanding the frontiers of invisible or internal things of a spiritual dimension. Finally, the integration of the two realms should occur. Thus, we must be able to have a central point located in the external, visible world connected to the central point located in the metaphysical world of highest dimension. Then, with the latter as the unchanging axis, the other will revolve around it for eternity in the action of give and take—giving absolute meaning and value to all things in space and time.



# The International Cultural Foundation

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The International Cultural Foundation (ICF) sponsors the ICUS meeting. ICF is a non-profit foundation founded in 1968 by the Reverend Sun Myung Moon with the purpose of promoting academic, scientific, religious and cultural exchange among the countries of the world. Based on a deep desire to create a peaceful world, ICF aims to foster the emergence of a rich, new world culture embodying the enduring common values of all cultures, yet retaining as well the unique and essential traditions of each people.

The scope and diversity of ICF is evidenced by the many programs supporting positive, value-based dialogue, research, and publishing by scholars and scientists of all disciplines and nationalities. In addition to ICUS, ICF sponsors the Professors World Peace Academy and the Washington Institute for Values in Public Policy.

The underlying pattern and direction of all the ICF activities comes from the board of directors in response to the many suggestions received from scholars and scientists working with ICF.

## ICF Leadership

### **Founder**

**Sun Myung Moon**

### **Executive Members**

**Chung Hwan Kwak** *Chairman*

**Neil Albert Salonen** *Vice-Chairman*

**Michael Leone**

**Hugh Spurgin**

**Bo Hi Pak**

### **Ex-Officio Members**

**Martin Porter**

**Paul Werner**

**Reiner Vincenz**

**Young Whi Kim**

**Henry Blanchard**

**Shunichiro Yoshida**

**Dennis F. Orme**

**Kae Hwan Kim**

**Osami Kuboki**

**Se Won Yoon**



*Reverend and Mrs. Sun Myung Moon with Eugene P. Wigner, recipient of the 1st ICF Founders Award.*

## The ICF Founder's Award

On the foundation of fourteen years of support for scholarly activity, the International Cultural Foundation has created a major new academic award: the ICF Founder's Award.

This award recognizes the outstanding achievements of great scholars in their fields of professional expertise as well as their contributions in the service of humanity and furthering the causes of world peace. Both areas are considered in selecting the recipient of the award.

The award is given biennially (starting in 1982) and carries a substantial cash prize. It is presented by the Founder of ICF, the Reverend Sun Myung Moon, on the occasion of the annual International Conference on the Unity of the Sciences.



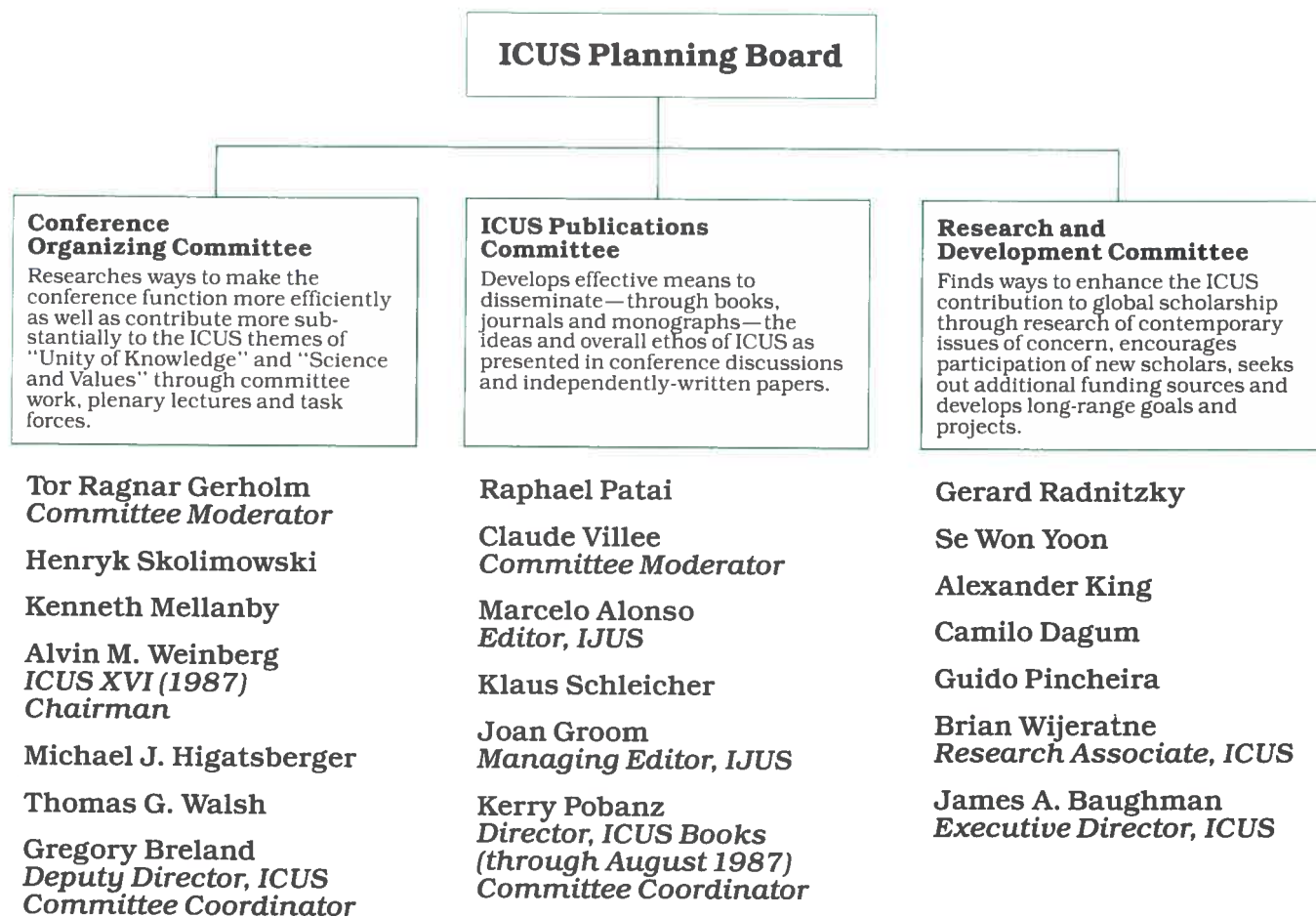
*F.A. Hayek receiving 1985 ICF Founders Award.*

# ICUS Planning Board



Front row, left to right: Se Won Yoon, Camilo Dagum, Raphael Patai, Marcelo Alonso, Claude Villee, Alvin M. Weinberg, Rev. Chung Hwan Kwak, Kenneth Mellanby, Tor Ragnar Gerholm, Alexander King, Michael Higatsberger, Guido Pincheira.

Back row, left to right: James A. Baughman, Thomas Walsh, Brian Wijeratne, Manabu Nakagawa, Klaus Schleicher, Henryk Skolimowski, Gerard Radnitzky, Joan Groom, Gregory Breland, Laura W. Lykes.



# International Journal on the Unity of the Sciences

## (IJUS)

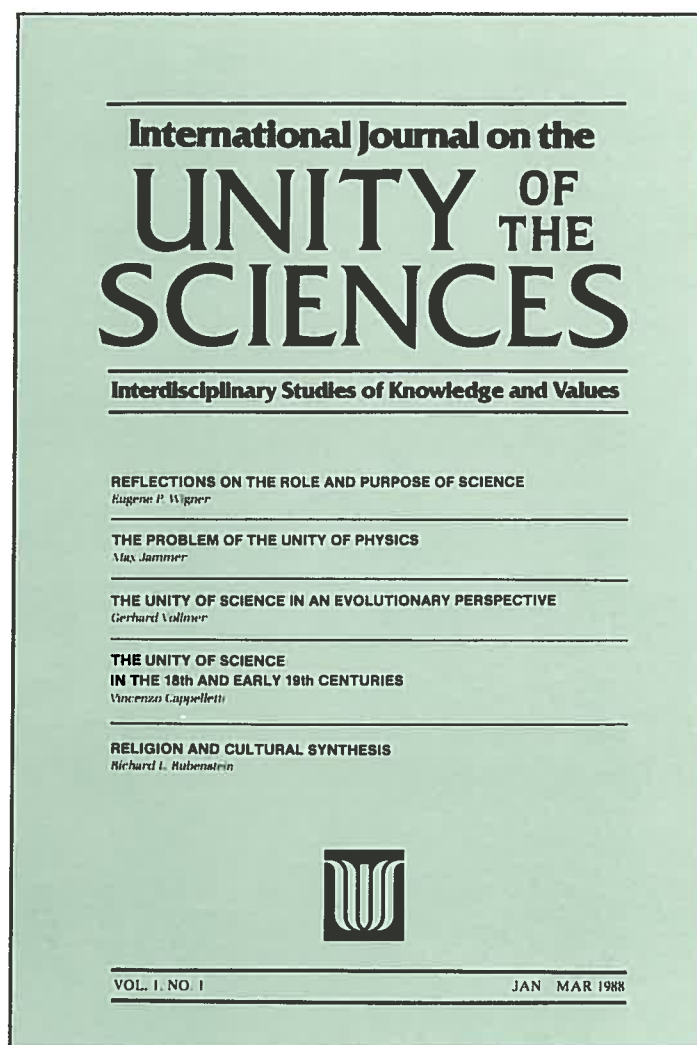
IJUS is a quarterly interdisciplinary journal published by the International Conference on the Unity of the Sciences (ICUS) and dedicated to the comprehension and analysis of the interrelations among the different branches of knowledge in its various manifestations, underscoring the relationship between knowledge and values. IJUS provides a forum for the publication of research and scholarly work seeking a more unified understanding of humanity and the universe.

Individual issues may focus on particular timely topics, dealing with important issues confronting the world, discussed from an interdisciplinary perspective. Articles may be related to such disciplines as the Physical, Life or Social Sciences, Philosophy, Religion, Economics, Arts and Humanities and address these in the context of the main themes of the journal, which are primarily the unity of knowledge and the relation between knowledge and values.

In its conception IJUS is to be a journal of value-oriented interdisciplinary studies which goes beyond the scope of ICUS participants and papers presented at ICUS meetings. Contributions in any way related to the purpose stated above and dedicated to interdisciplinary studies are welcome. These may be in the form of original papers, commentaries, book reviews and editorials.

Each issue will be composed of approximately 100 pages and will consist of:

- 1) An **Editorial Page** prepared by the editor or another contributor commenting on particular problems of current interest, or providing an overview to the content of the issue.
- 2) Scholarly **Articles** dealing with topics that correspond to the themes of IJUS. All papers will be submitted to peer review prior to acceptance.
- 3) **Letters to the Editor**, likely referring to contents published in previous issues.
- 4) **New and Comments** on current events, information about past or future meetings and projects, critiques of papers.
- 5) **Book Reviews**, a list of **Books Received** and **Book Ads**.





## Related Activities

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### *Professors World Peace Academy (PWPA)*

The Professors World Peace Academy (PWPA) is an educational organization composed of scholars from a diversity of backgrounds, disciplines and political persuasions working cooperatively for world peace and human well-being. Through its interdisciplinary and international approach to world problems, the Academy sponsors many programs where scholars from conflicting national backgrounds can meet and engage in open and non-violent discussion of realistic solutions to the problems of peace.

PWPA was founded by the Reverend Sun Myung Moon at a gathering of 168 professors in Seoul, Korea on May 6, 1973. Inspired by Reverend Moon's vision of the possibility of greater international cooperation for world peace, these professors had developed an academic network during a series of Korean-Japanese friendship seminars held in 1972. The Academy's first large international

event was the First International Conference on world peace (ICWP), held in April, 1974 in Seoul. The conference, focusing on the theme "World Peace and Asia," convened 45 participants from Korea, Japan and the Republic of China.

Japanese participants followed the Korean lead by starting their own chapter of PWPA in 1974. The two academies, with the financial support and encouragement of the International Cultural Foundation, grew significantly during the late 1970s. The International Conference on World Peace, since its beginning, has been an annual event held in Asia.

In addition to programs geared for the academic community, the Korean and Japanese academies sponsor lectures and courses for the general public. The publications efforts of the Asian academics has been extensive, including scholarly journals, newsletters and books comprising the



## International Journal on World Peace

proceedings of the various PWPA and ICWP conferences.

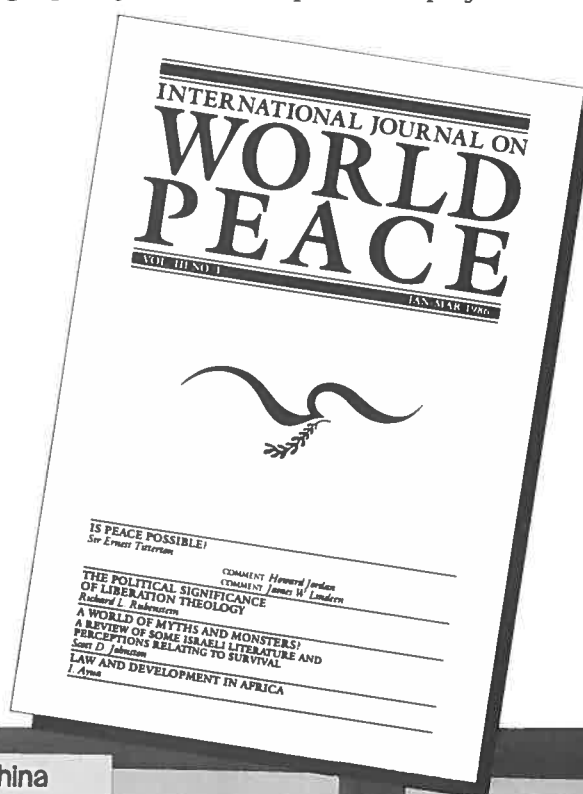
Several conferences were held in Europe during the late 1970s. In 1982, 1983 and 1984 numerous regional conferences were held throughout the world; seminars were held in 1982 in the Ivory Coast, Turkey, the Philippines and Peru as well as in Korea, Japan, Germany, France, Italy and the United States. Conference proceedings of each of these fledgling chapters were often published.

Beginning in 1980, scholars attending the annual ICUS meeting began to assemble to plan the establishment of a worldwide network of PWPA scholars. After four such annual meetings were held, PWPA had become large enough to begin a new level of international activity. Since 1983, hundreds of national meetings have been held.

The most significant event in PWPA history occurred on December 18, 1983, in the tenth year after the Academy was founded, with the meeting of the First International Congress of PWPA. Held in Seoul, Korea, the Congress launched the organization of a worldwide network of PWPA chapters and professors.

In August 1985, the Second International congress of PWPA was held in Geneva, Switzerland on the topic "The Fall of the Soviet Empire: Prospects for Transition to a Post-Soviet World." The Third International Congress of PWPA was held in Manila, the Philippines, in August 1987 on the topic, "China in a New Era: Continuity and Change."

In 1984, PWPA launched a new international journal, *The International Journal on World Peace*. It also began an international publishing program which consists of conference proceedings, monographs and books published with Paragon House. In 1986 fifteen books were produced on a wide range of topics related to world peace. A number of reviews of the first six PWPA Books produced with Paragon House Publishers established the high quality of scholarship of PWPA projects.



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## ***The Washington Institute for Values in Public Policy (WI)***

The Washington Institute for Values in Public Policy (WI) is dedicated to sponsoring research that can help provide information and insights that will further the formulation of constructive policy in a democratic society.

Founded in 1982, The Washington Institute is an independent, non-profit educational and research organization which examines, with particular attention to their ethical implications, current and pending issues which require policy decisions.

The Washington Institute enables policy-makers and their academic counterparts to benefit from a variety of programs. Each group often deals with similar issues from different perspectives. What they frequently lack are opportunities to exchange viewpoints and information that will further the development of innovative approaches and solutions.

The Washington Institute has sponsored more than 85 conferences, debates and forums. Results of research sponsored by the Institute have been disseminated through the publication of more than 100 books, monographs and occasional papers.

### **Programs of The Washington Institute in 1987**

#### **"AIDS: The Medical Challenge of the Century"**

Richard Schweiker, speaker; former Secretary, U.S. Department of Health and Human Services, former U.S. Senator

#### **"The Political Significance of Latin American Liberation Theology"**

Richard L. Rubenstein, conference chairman; Distinguished Professor, Florida State University and President, The Washington Institute

#### **"The South Korean Political Crisis and American Policy Options"**

Selig Harrison, paper writer; Senior Fellow, Carnegie Endowment for International Peace

#### **"United States Energy Policy"**

J. Bennett Johnston, speaker; U.S. Senator, chairman, Energy and Natural Resources Committee

#### **"Energy Development in China"**

Alan Crane, moderator; Senior Associate, Office of Technology Assessment

#### **"Stable Transitions to Defense Dominance"**

Alvin M. Weinberg and Jack Barkenbus, co-chairmen; Institute for Energy Analysis

### ***Publications of The Washington Institute in 1987***

#### **Book Releases**

#### ***Rebuilding A Nation: Philippine Challenges and American Policy***

Edited by Carl H. Lande

#### ***The East Wind Subsides: Chinese Foreign Policy and the Origins of the Cultural Revolution***

Andrew Hall Wedeman, author

#### ***Strategic Defenses and Arms Control***

Edited by Alvin Weinberg and Jack Barkenbus

#### ***The Dissolving Alliance: The United States and the Future of Europe***

Edited by Richard L. Rubenstein

#### ***The Soviet Nomenklatura: A Comprehensive Roster of Soviet Civilian and Military Officials***

Compiled by Albert L. Weeks

#### ***The Terrible Meek: Essays on Religion and Revolution***

Edited by Lonnie D. Kliever

#### ***Arms Control: The American Dilemma***

Edited by William R. Kintner

#### ***Spirit Matters: The Worldwide Impact of Religion on Contemporary Politics***

Edited by Richard L. Rubenstein

#### ***The Economics of Mass Migration in the Twentieth Century***

Edited by Sidney Klein



J. Bennett Johnston, U.S. Senator from Louisiana and Chairman of the Energy and Natural Resources Committee, speaks on U.S. Energy Policy at a program sponsored by The Washington Institute.

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## **The Advisory Council to the Unification Movement International (ACUMI)**

The Advisory Council to the Unification Movement International was founded in April of 1985 in New York City. A National Board was formed consisting of scholars who have been involved in the work of either the International Cultural Foundation (ICF) or the International Religious Foundation (IRF). The stated purpose of ACUMI is to provide a forum for scholars and professionals who have knowledge of the Unification Movement and who can, based on their experience, contribute to the growth, development and maturation of the Movement and/or the ideals it seeks to promote. It is hoped that ACUMI advisors could help guide various departments of the Movement, including activities outside ICF and IRF.

ACUMI members, therefore, are kept well-informed about the Movement worldwide. For example, an annual summer tour to Asia provides an opportunity for participants to gain firsthand knowledge of the movement as it has emerged and grown in Korea, Japan and elsewhere in Asia. ACUMI also sponsors regional

meetings in the United States to offer briefings on projects and solicit suggestions from participants. Moreover, ACUMI provides occasions for persons involved in one sphere of the Movement, for example, ICF, CAUSA, CARP, or World & I, to meet with ACUMI members from other areas to gather information and engage in constructive exchange.



## Paragon House Publishers (PHP)

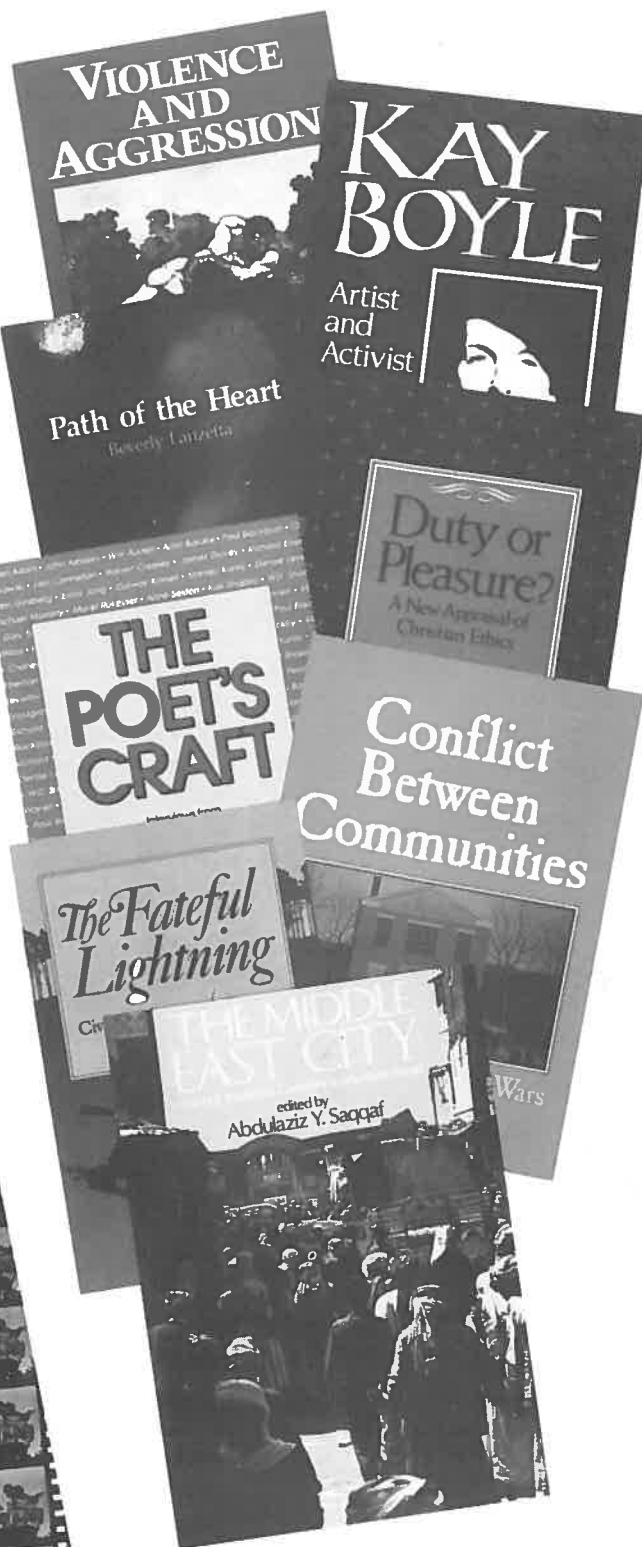
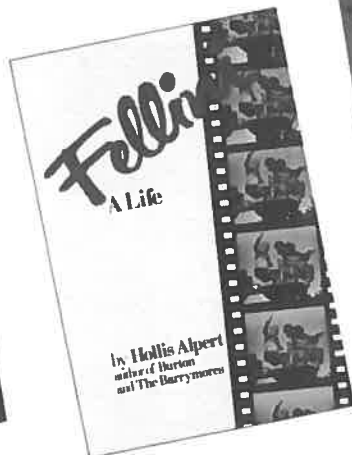
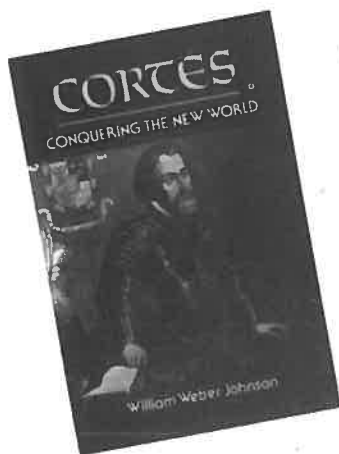
Paragon House, an independent publisher, is a producer of quality books from the religious, scientific and scholarly communities. One hundred and fifty titles are currently available in the humanities, theology, philosophy, political science and transdisciplinary studies.

Paragon House was organized in 1982 as an outgrowth of the International Cultural Foundation. Books authored in connection with ICF-related organizations—The International Conference on the Unity of the Sciences, the Professors World Peace Academy, and the Washington Institute for Values in Public Policy—are published by Paragon as imprint series.

In addition to its ICF-related imprint series, Paragon House publishes two other series, a general line of scholarly books to which it has added 50 new titles in 1987 and New Era Books, an imprint of the International Religious Foundation, which has 50 current titles in the field of religion.

Under the supervision of its independent advisory board, Paragon House is actively seeking original manuscripts from the academic community as well as selected titles of general interest in the humanities and the natural and social sciences. A representative of Paragon House is available at ICUS to confer with participants about initiating a publishing relationship with Paragon House.

Paragon House Publishers is located at 90 Fifth Avenue, New York, NY 10011. Telephone: (212) 620-2820. Please feel free to write with any questions you have. Address your enquiries to Mr. Ken Stuart, Editor-in-Chief.





## The World & I

**The World & I** is an encyclopedic magazine that covers topics from fields of human endeavor and experience, and from many countries and cultures.

Each issue, which has over 700 pages, deals with a broad range of subjects presented in eight editorial sections.

**The World & I** combines the best of scholarship and the best of journalism. It prints analytical and insightful articles that are presented in an interesting and enjoyable format. Our goal is to make information comprehensive and meaningful to literate and thoughtful people, and to become an invaluable reference book for important topics of our day, as well as a chronicle of our times.

It is also our goal to contribute to understanding across national, ethnic and cultural boundaries in a world that is becoming so interdependent that access to the latest information, analysis and thinking has become an absolute necessity.

**The World & I** is designed to provide adults and intellectually engaged students with a cumulative and encyclopedic account of contemporary and modern life in the many different nations and cultures of the world.

It provides:

- enduring knowledge prepared by leading professors and distinguished practitioners
- reference materials for high school and college students
- diverse viewpoints on contentious issues
- quality entertainment in a digestible form
- topics of conversation for every member of the family



The State House in Philadelphia September 17, 1787

### THE ORGANIC AND MORAL ELEMENTS IN THE AMERICAN CONSTITUTION

PAUL JOHNSON

The Constitution is a product of colonial experience under British common law and other historic traditions.

**I**n the endless human adventure of self-government, the United States has been one of the great stories of success. The explanation for this must lie primarily in its constitution and, still more, in its constitutionalism—that is, its capacity to modify its mode of government by due process rather than by violence. Nowadays the study of constitutions is regarded as dull work; “constitutional history” is completely out of fashion. Yet constitutions are important. No other document tells us more about a country, or why its public system works or does



not work. The United States has had the same constitution for 200 years. In the same period, another highly sophisticated and civilized country, France, has tried a dozen, some abortive; only under the Fifth Republic has it acquired a satisfactory document, likely to become permanent. How did the United States manage to get it right the first time?

The question is all the more worth asking if we reflect that the American statesmen of the 1770s and 1780s really inaugurated the constitutional era in world history. During the last two centuries, the number of

Paul Johnson is a British historian and the author of *Modern Times* and, most recently, *History of the Jews*.

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## ***Introductory Seminars on the Unification Movement (ISUM)***

From time to time the International Cultural Foundation has organized "Introductory Seminars on the Unification Movement." During the past nine years these seminars have been held in 25 different countries, with participants, including scholars, professors and government officials responsible for higher education, from over 70 nations.

This seminar has developed with the purpose of serving those ICUS and PWPA participants who expressed an interest and desire to learn more about the Movement, its Founder, the Reverend Sun Myung Moon, and the sponsorship of contributing organizations such as ICF and PWPA. The agenda consists of ten to twelve lectures given over three to four days and includes an "Outline of the Principle" — the religious teaching of Reverend Moon. These lectures are presented by doctoral scholars, Ph.D. students and Church Leaders.

The content of the lectures is clarified during informal discussion groups designed to encourage an exchange of ideas and to provide an opportunity to understand the lifestyle of those who live as active members of the Movement, and to give an

overview of the worldwide activities of the Movement. The lectures are supplemented by Photostlide and video presentations covering various aspects of marriage and family life, and issues such as religious liberties. Each seminar has provided a rare opportunity to experience world fellowship beyond cultural and national boundaries.

The ISUM program is coordinated by the ICF Director of Seminars at ICF Headquarters: G.P.O. Box 1311, New York, NY 10116 (212) 947-1756. Information about the seminars is also available through the national ICF chapters listed in this program.

Past sites for the seminar have included:

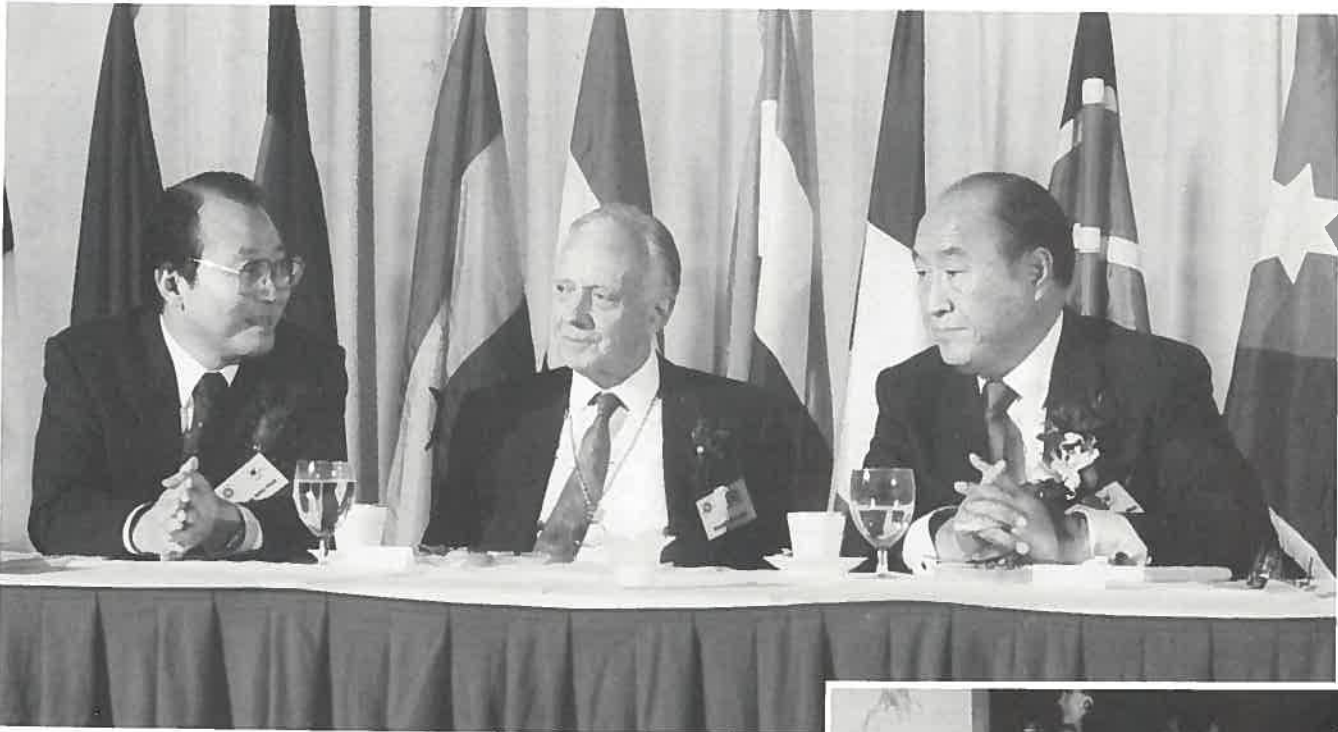
**Hawaii  
Spain  
Puerto Rico  
Greece  
Kenya  
Mexico  
Ivory Coast  
Brazil  
USA**

**Jamaica  
Egypt  
Philippines  
Peru  
Italy  
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Scenes From ICUS XV



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# ICUS Publications

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From the beginning, ICUS meetings have generated a large body of quality scholarship on significant issues. The existence and availability of this material has given rise to a substantial publishing program, now known as *ICUS Publications*. The center of the ICUS publishing program is *ICUS Books*. In keeping with the ICUS tradition, ICUS Books aims to advance human understanding by publishing manuscripts that approach scientific topics with a special regard for the broad ICUS themes of Science and Values and the Unity of Knowledge.

For ICUS I (1972) through ICUS XI (1982), ICUS Books consisted of volumes of the proceedings of the various ICUS meetings. Beginning with ICUS XII (1983), a Commemorative volume has been published from each ICUS, along with edited multi-authored volumes on particular themes. These edited theme-volumes have often been the selected fruits of a particular Committee from a particular ICUS. Because of this, the edited volumes tend to be interdisciplinary approaches to timely issues, addressing the overall subject of the particular volume from several scientific, philosophical, historical, cultural or religious perspectives.

In addition to conference proceedings, commemorative volumes, and multi-authored edited volumes, ICUS Books also publishes single

authored volumes. These single authored books are either enlargements of papers presented at ICUS, or solicited manuscripts on subjects or themes relating to the concerns of ICUS. ICUS Books actively seeks book projects and proposals that support or amplify the aims of ICUS and ICUS Books.

ICUS Publications is a young and evolving publishing program. For many years it published the ICUS conference proceedings. In recent years it has published more than a dozen edited volumes and several single authored books. ICUS Books is attempting to improve its publications both in strength of content and in quality of workmanship. The distribution and marketing of ICUS Books is being expanded and strengthened.

In recent years, because of the volume of material to be published and because of limitations of personnel and funding, ICUS Books has accumulated a backlog of publishing projects that have yet to be completed. In recent months, however, ICUS Books has taken on additional staff and has begun to reduce the backlog. For the next year or two, the goals of ICUS Publications are to clear up the backlog in the ICUS Books publishing program, to increase the number and quality of new publications, and to enhance the influence of ICUS Publications through a more concerted marketing and distribution program.

## ICUS Books



### **Art and Technology.** Edited by René Berger and Lloyd Eby.

The development and use of new technologies in the arts, especially the computer, has changed the situation of the arts. Old definitions and understandings of arts may no longer apply. This book presents a collection of articles on the art-technology interface as it affects such arts as cinema, city planning, music, television, the comics, computer art, video art, and art in extra-terrestrial communities.

Created from the papers of Committee III of ICUS XII.

468 pages, photos and illustrations, Hardbound \$29.95. Order # 1211

### **Complex Relativity.**

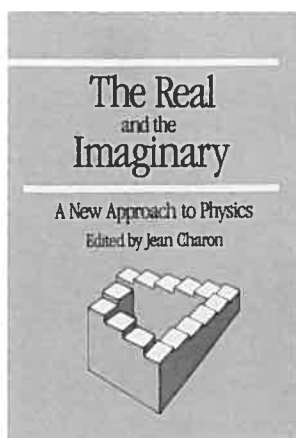
By Jean Charon.

The physics of our century has made great strides toward a *unified* representation of the universe. Most of this progress is a direct consequence of physicists' constantly improving understanding of the *complexity* of space and time.

In this important book, French physicist Jean Charon proposes a unification scheme called Complex Relativity. This approach assumes that ALL momentum-energy (action) of the universe is located in the Imaginary part of the total universe. Like Supergravity and Superstring theories, Complex Relativity also asserts the existence of "invisible" dimensions.

176 pages, illustrated, Hardbound \$27.95. Order # 1231



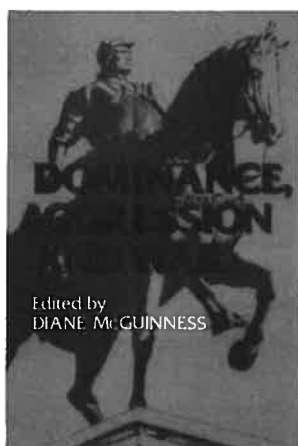


**The Real and the Imaginary: A New Approach to Physics.** Edited by Jean Charon.

The interaction between mind and reality has been a central field of investigation from the time of the Ancient Greeks. What role does the *imaginary* have in such "hard" sciences as physics and biology? How does the imaginary interact with the "objectivity" of science? In this book, leading scholars take a focused look at these important topics.

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**Dominance, Aggression and War.** Edited by Diane McGuinness.

The puzzle of human warfare is that, in contrast to rage, war is premeditated and prolonged. This

book brings together the contributions of a number of anthropologists, biologists, sociologists and psychologists on the question of inter-male aggression. Topics covered include the biological basis of dominance and aggression, animal intelligence and human instinct, nuclear weapons and the control of aggression, the social organization, rank and aggression among subspecies of chimpanzees, and human dominance systems.

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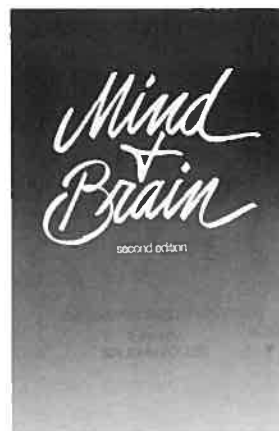


**The Metropolis in Transition.** Edited by Ervin Y. Galantay.

The metropolis as a type of human settlement first attracted scientific attention in the late 1950's and early 1960's. A quarter of a century later, Ervin Galantay organized Committee III of ICUS XIII to study the future of metropolitan cities worldwide, and produced this book from the results.

"This book is a truly extraordinary source for the serious scholar of urban growth and development. The contributors are outstanding scholars and the volume contains a wealth of material not usually available in one source. Perspectives are varied, and are presented with scholarship of a consistently high quality."—Choice

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**Mind and Brain: The Many-Faceted Problems,** Second Edition. Edited by Sir John Eccles.

Are mind and brain one and the same? How and where does mind or consciousness originate, and does it exist apart from the brain? Sir John Eccles, recipient of the Nobel Prize in 1963 for his work in nerve impulse transmission, has brought together in this volume a collection of important papers on these topics from numerous ICUS sessions.

"The great advantage and attraction of these essays is their interdisciplinary character with a willingness to consider other dimensions of the subject. The book is of value for all who are concerned with the mind or the brain, whatever their discipline."

—International Social Sciences Review

424 pages, illustrated, Paperback \$12.95. Order # I242

**Centripetal Forces in the Sciences.** Edited by Gerard Radnitzky.

The primary aim of basic science is to improve our knowledge of the world and of man as a part of nature. But specialization in science is unavoidable. This leads to a compartmentalization of science and, at the level of the individual, to a limitation of competence and knowledge to an increasingly narrow field.

This book presents a number of approaches to the unity of the sci-

# ICUS Publications

ences. One section covers the idea of "Unity of Science" in intellectual history. A second presents the unifying potential of the evolutionary perspective. A third considers the economic approach, and a fourth discusses unity in the social sciences.

Created from Committee I of ICUS XII.

429 pages, Hardbound \$22.95  
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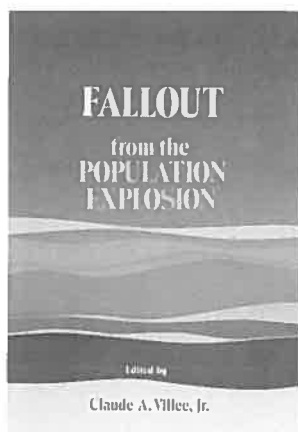


**Modernization:  
The Humanist Response to  
its Promise and Problems.**  
New Edition. Edited by Richard  
Rubenstein.

This collection of essays examines aspects of the modernization process and its religious, social, environmental, and political consequences. The authors are all humanists in the sense that they are fundamentally concerned with the quest for values by which men and women can sustain themselves, and they come from a wide variety of national, religious, cultural, and professional backgrounds.

Created from papers from the Committee on Religion and Philosophy of ICUS VI and ICUS VII.

360 pages, Paperback \$14.95.  
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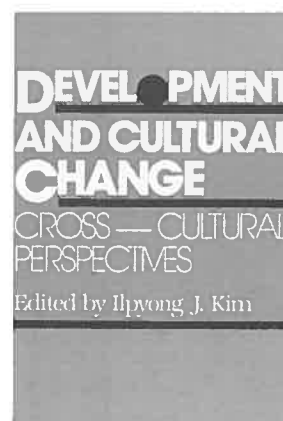
**Fallout from the  
Population Explosion.**  
Edited by Claude A. Villee, Jr.

Population control has been a political concern for several millennia. Both Plato and Aristotle discussed population size in their political theories. In this century, during the sixties, the catastrophe theory came into fashion; we were warned that if we didn't do something about the expanding human race then each of us might soon be confined to one square yard of earth. Since then the issue seems to have dropped from public consciousness. Professor Claude Villee has brought together a number of papers on this topic from several ICUS conferences.

*"Presents a balanced picture of the situation as it exists today and, importantly, interweaves population matters in with other social issues...I like especially the chapters on health care, ethical aspects, environment and conservation, and aging."*

—Professor Donald J. Bogue  
Department of Sociology  
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264 pages, Hardbound \$24.95.  
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**Development and Cultural  
Change:  
Cross-Cultural Perspectives.**  
Edited by Ilpyong J. Kim.

East Asia has undergone remarkable development in the past several decades, while much of the rest of the Third World has languished. This book contains a number of studies of Asian development, together with contrasting studies of failure in Chile and the Philippines.

*"At the heart of this collection is the question of what one can learn from the post WWII economic development in Japan, South Korea, Hong Kong, Taiwan, and Singapore....Excellent written, this volume can be used in undergraduate classes and as an addition to public and college libraries."*

Choice

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254 pages. Hardbound \$22.95,  
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## Books Expected to Appear in 1988

### **Organization and Change in Complex Systems.**

Edited by Marcelo Alonso.

### **Evolution as a Transdisciplinary Paradigm.**

Edited by Diane McGuinness.

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Edited by John Oxenham.

### **Unity of the Sciences, Vol. II.**

Edited by Gerard Radnitzky.

### **The Evolving Global Environment.**

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### **The Ocean in Human Affairs.**

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ICUS I, New York, 1972. Not yet published.

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