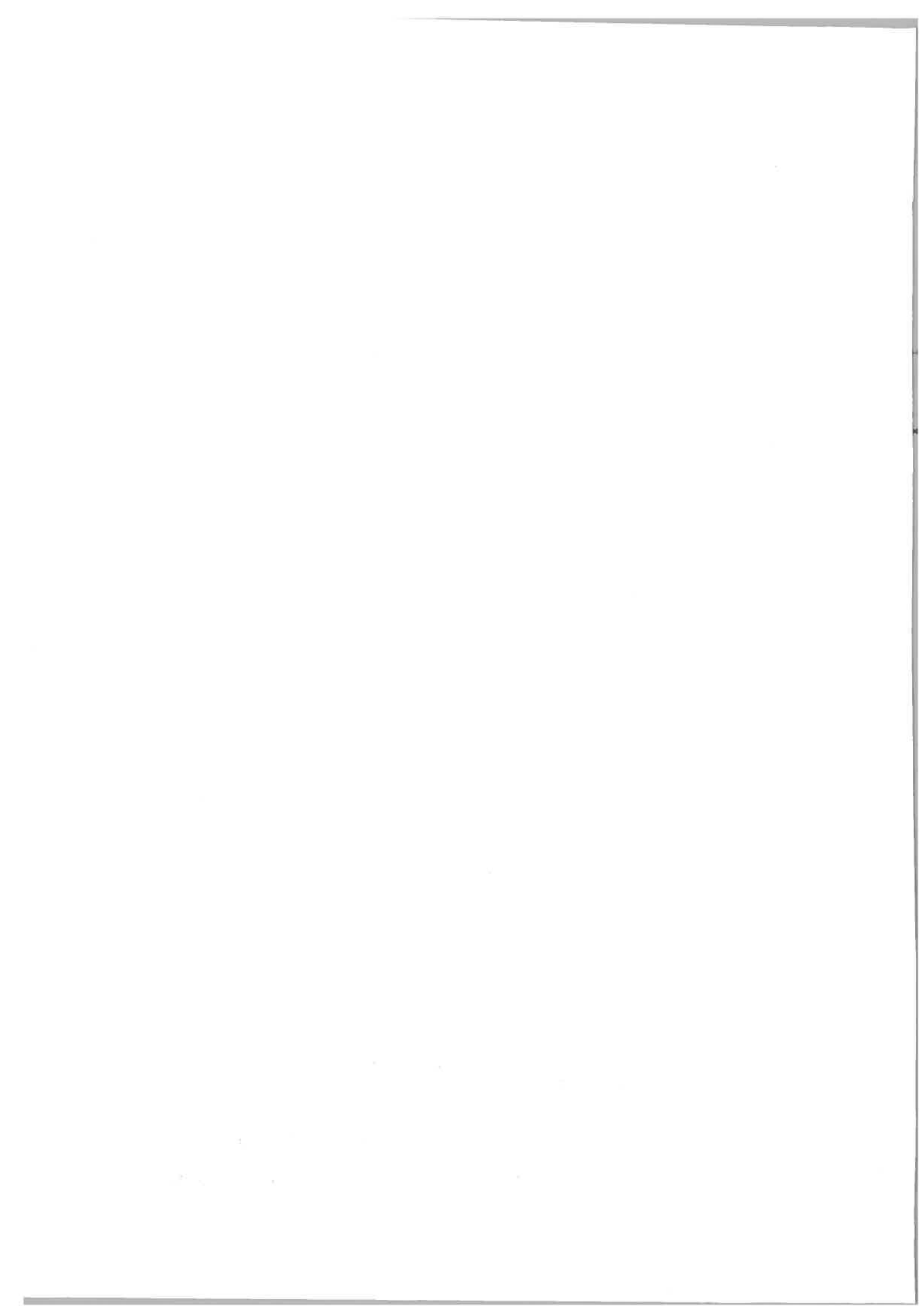


PROGRAMME

SCIENCE AND ABSOLUTE VALUES

THE THIRD INTERNATIONAL CONFERENCE ON THE UNITY OF THE SCIENCES

November 21st–24th London England



STATEMENT OF PURPOSE

Science has developed with the ideal of increasing human happiness, and indeed, has contributed a great deal to human prosperity.

However, mankind in these times has had to face grave dangers which have been brought about by the harmful side effects of science and science-technology, such as pollution of our environment, populations under stress, cities in distress and a shortage of natural resources. But, besides these strains, the most serious problem has been the loss of a standard of value, in all the spheres of human endeavour, such as politics, education, economics, art, morals, philosophy, systems of religious belief, and even traditional behaviour norms. From these, we dare mention that man has lost the sense of a universal standard of value in almost every aspect of human culture.

Yet, as scientists, whilst pursuing our own specialized fields, we should also give some thought to the problem of values.

The purpose of this conference, therefore, is to provide adequate opportunity for scholars, scientists, and persons of responsible position outside the academic community, from diverse fields of academic study, to discuss the role of science in its relation to problems of value, reflecting the nature of scientific truth, and, as scientists, how we could usefully contribute in solving these problems and to devise a new perspective for setting up a universal standard of value for all mankind.

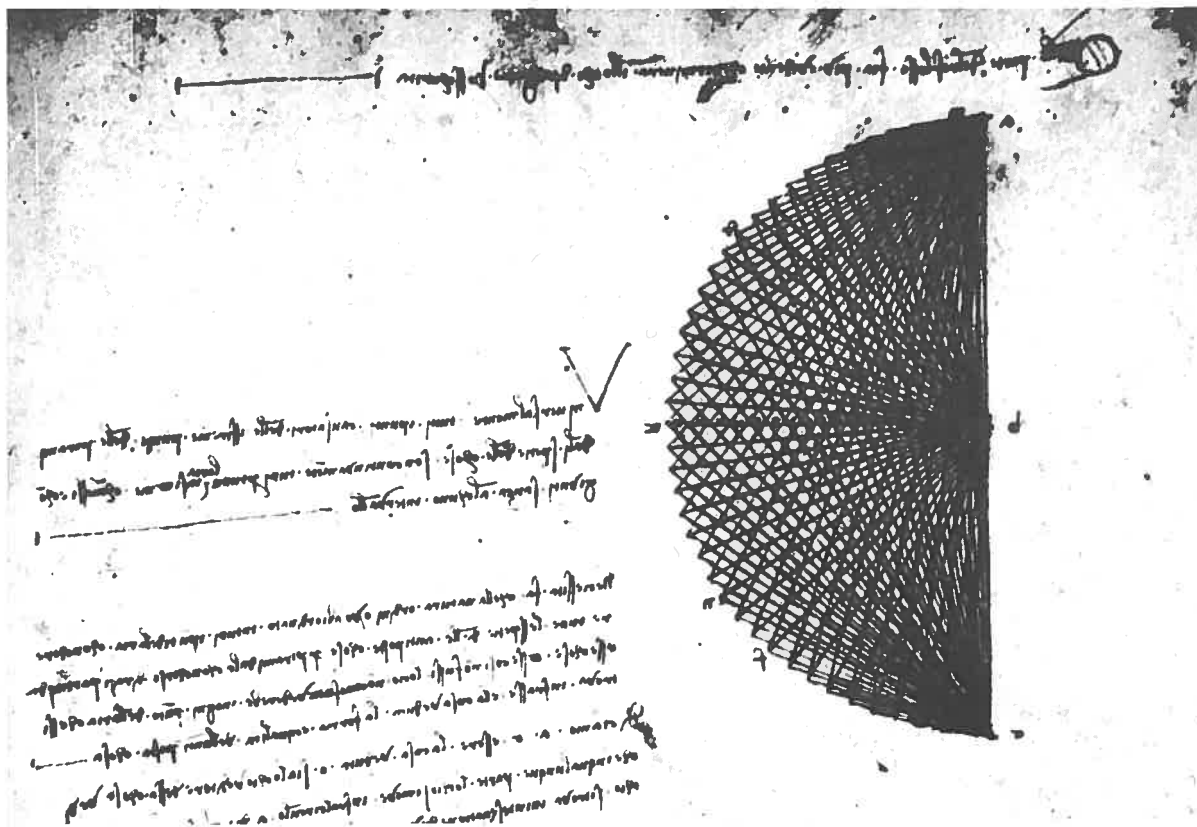
It is hoped that general discussions in the academic programme will be based on purely scientific attitudes.

**The Executive Committee,
The Third International Conference on the Unity of the Sciences,
London.
4th April, 1974.**

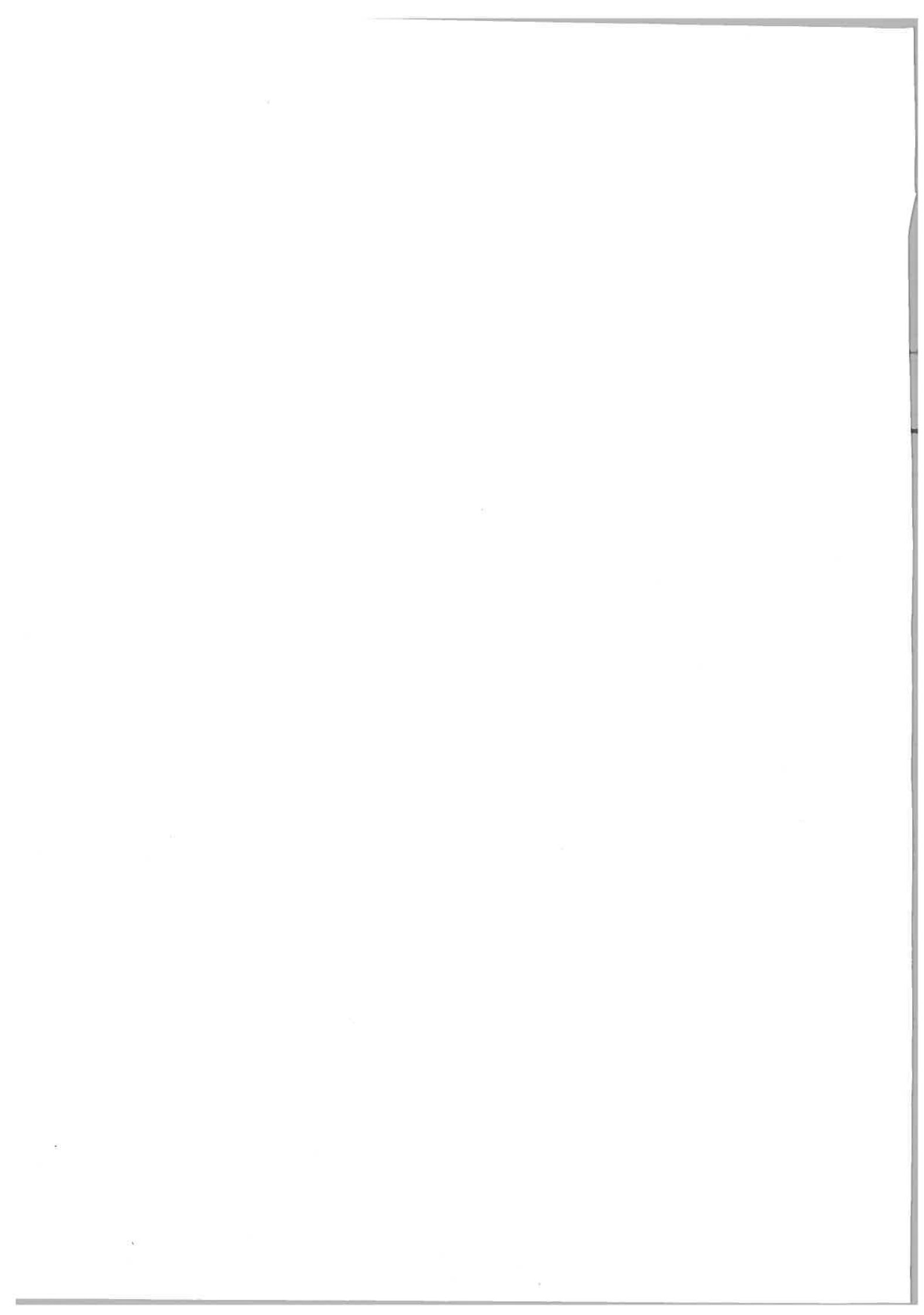


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Study of the reflection of rays — a drawing from Leonardo da Vinci's notebook



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THE INTERNATIONAL CULTURAL FOUNDATION INC.

The International Cultural Foundation, sponsor of the annual International Conference on the Unity of the Sciences, was founded in Japan in 1968, following the inspired initiative of its founder, Sun Myung Moon. Having now expanded to be truly world-wide in scope, the I.C.F. has recently been incorporated with its headquarters in New York.

The purpose of the International Cultural Foundation is to inspire and foster the emerging world culture and civilization. In order to accomplish this purpose, the Foundation will sponsor exchange programmes among the countries of the world. These programmes will pursue philosophic, academic, and scientific knowledge as well as cultural exchange.

Specific purposes

1. Promotion of cultural and artistic performances and demonstrations. These would include dance, music, painting, sculpture, etc..
2. International exchange in the fields of religion, philosophy, education, science, economics, etc.
 - a. to promote cultural and artistic exchange programmes between various countries of the world.
 - b. to conduct and promote the exchange of cultural and academic studies of various nations.
 - c. to promote and encourage the international exchange of academicians through seminars and conferences.
3. Publications of cultural significance which concern themselves with making vital and fundamental contributions to world goodwill and peace.
 - a. to publish and distribute a periodical of the activities of the Foundation.
 - b. to publish books and magazines in order to promote cultural exchange and to make available the results of research, especially those works and research materials receiving inadequate support.
4. To co-operate and contribute to the public welfare through general goodwill services.

Footnote:

The I.C.F. exists to facilitate advancement, promotion, fostering or accomplishment of the aforesaid purposes, directly or indirectly, but nothing herein is intended to authorize powers which are not primarily for charitable and educational purposes, permitted under section 501 (c) (3) of the Internal Revenue Code of 1954, as amended (or corresponding provision of subsequent legislation).

ACTIVITIES OF THE I.C.F.



In 1968, Reverend Dr. Sun Myung Moon founded the International Cultural Foundation in Tokyo, Japan. His great interest in human culture leads him frequently to direct programmes, especially for the Foundation.

Below: A symposium of the Asian Professors' World Peace Academy in progress.

Bottom: a plenary address at the Second International Conference on the Unity of the Sciences in Tokyo last year.





The International Cultural Foundation began by promoting activities of cultural exchange from East Asian regional programmes, expanding to international programmes.

By helping cultures and the arts to mutually share with and understand each other, the Foundation transcends political and racial stumbling blocks.

Revealing, in mature exchange programmes, genuine manifestations of cultural interest (the I.C.F. sponsored UNICEF benefits at the United Nations, New York, the Hague, and in Tokyo), the Foundation vigorously encourages our civilizations to harmonize.

Efforts by the gifted at utilizing their talents in challenging, difficult fields, will be nurtured in a spirit of co-operation. In this way, it is hoped that all of mankind, not sections, will be elevated into a better state of physical and spiritual well-being.

Top: members of an I.C.F. sponsored traditional music and dance group being introduced to Her Majesty, the Queen.

Bottom: the I.C.F. staging a UNICEF benefit performance at the United Nations.



ACADEMIC ADVISORS

Academic sessions

Honorary chairman

Lord Adrian

Opening greetings

Co-chairmen

Prof. K.Mellanby

Keynote address

Prof. R.V.Jones

Closing address

List of academic advisors in the United Kingdom

| | | |
|----------------------|-----------------------------------|------------------------------------|
| Edward Bastin | Physics | University of Cambridge |
| Maurice Broady | Social Administration | University of Wales |
| Donald Cardwell | History of Science and Technology | University of Manchester |
| Frederick Copleston | History of Philosophy | University of London |
| Alistair Crombie | History of Science | University of Oxford |
| Dennis Gabor | Physics | Imperial College, London |
| Sir Charles Goodeve | Applied Science | Tavistock Inst. of Human Relations |
| Hilde Himmelweit | Social Psychology | London School of Economics |
| Peter Hodgson | Nuclear Physics | University of Oxford |
| Eric Mascall | History of Theology | King's College, London |
| Jack Mongar | Pharmacology | University College, London |
| Sir John McMichael | Medicine | University of London |
| Pierluigi Petrobelli | Art and Music | King's College, London |
| Marjorie Reeves | Education, History | University of Oxford |
| John Taylor | Mathematics | King's College, London |

The 3rd I.C.U.S. international advisory board

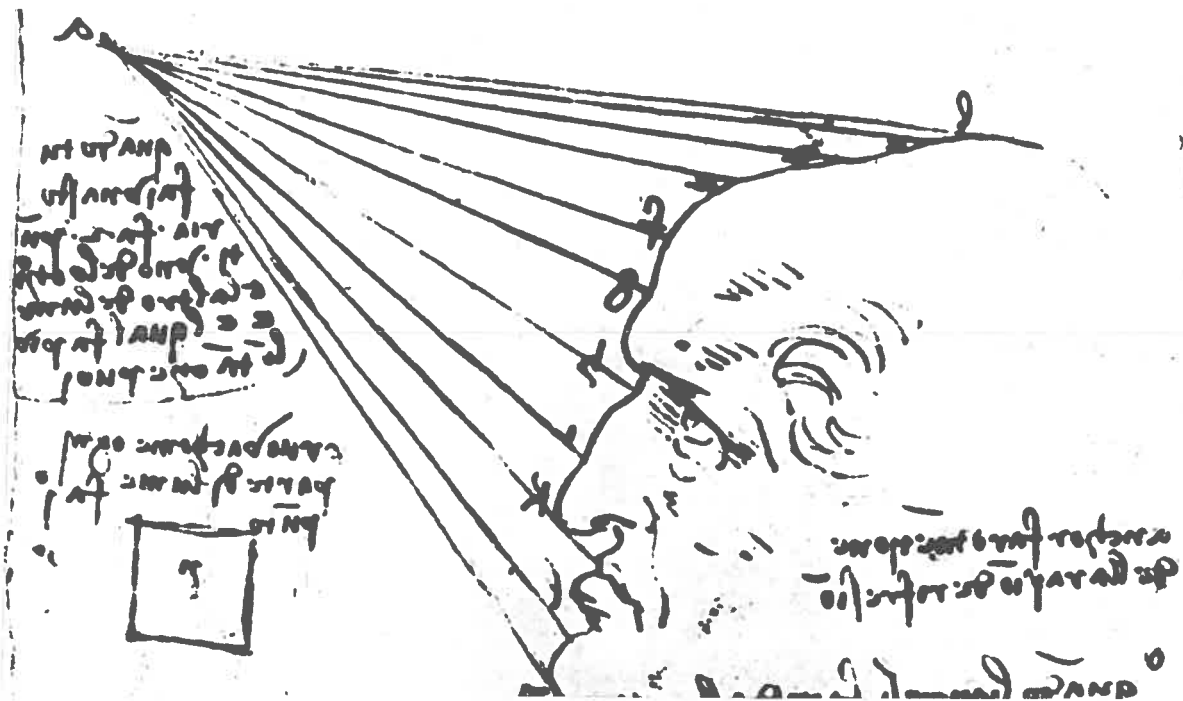
| | | |
|-------------------|------------------------|---------|
| Roger Anderson | Natural Sciences | U.S.A. |
| Carlos Chagas | Biophysics | Brazil |
| Andre Cournand | Medicine | U.S.A. |
| Sir John Eccles | Biophysics | U.S.A. |
| Ervin Laszlo | Systems Philosophy | U.S.A. |
| Robert Merton | Sociology | U.S.A. |
| Oskar Morgenstern | Mathematics, Economics | U.S.A. |
| Pierre Piganiol | Physics | France |
| Leopold Rosenmayr | Sociology | Austria |
| Jacques Rueff | Economics | France |
| Nobushige Sawada | Philosophy | Japan |
| Ulfe von Euler | Physiology | Sweden |
| Herman Wold | Statistics, Economics | Sweden |

Honorary members

| | |
|--------------------------|------|
| Sir George Thomson | U.K. |
| Count Stefan Tyszkiewicz | U.K. |

THEMES OF THE CONFERENCE

Varying effects of light from a single source striking the face — drawing from Leonardo da Vinci's notebook



Central theme

Science and absolute values

Sub-themes

Committee 1: Quality of life: physical, mental and spiritual aspects

- a. *what is a good life? How do we measure a good life?*
- b. *mental health and the quality of life.*
- c. *standard of living and the quality of life.*

Committee 2: Value change and absolute values

- a. *what agents bring changes of value into society, and how do we accommodate these?*
- b. *value change through increased communication.*
- c. *possibility of devising a new perspective for an absolute standard of value for all mankind.*

Committee 3: The unity of science

- a. *the dilemma of facts and values, and the relation between scientific judgement and value judgement.*
- b. *diversification versus synthesis in science.*
- c. *relation between method in natural science and method in social science.*

Committee 4: The idea of the university in a troubled society

- a. *relation between schools and other academic institutions, and society.*
- b. *problems of international education and their possible solutions.*
- c. *the modern university and the confusion of ideology.*

CONFERENCE SCHEDULE

Thursday 21st November

7.30 p.m. Reception
Royal Lancaster Hotel
Gloucester Suite

Friday 22nd November

| | | | | |
|-------------------------|---|---|--|---|
| 10.00 a.m. — 10.50 a.m. | Opening ceremony | <i>Master of ceremonies</i> <i>Founder's address</i> <i>Opening greetings</i> <i>Outgoing chairman's greetings</i> <i>Keynote address</i> | | M.Broady S.M.Moon Lord Adrian N.Sawada K.Mellanby |
| 11.15 a.m. — 1.00 p.m. | Plenary session 1 | <i>Chairman</i> K.Mellanby | <i>Speakers</i> W.F.Libby A.J.P.Martin | |
| 1.00 p.m. — 2.15 p.m. | Lunch | | | |
| 2.15 p.m. — 5.15 p.m. | Committee session 1 | | | |
| | Committee 1 Bolingbroke Suite | Committee 2 Derby Suite | Committee 3 Richmond Suite | Committee 4 Gloucester Suite |
| | <i>Chairman</i> S.L.Cook | <i>Chairman</i> K.Mellanby | <i>Chairman</i> A.C.Crombie | <i>Chairman</i> N.Kurti |
| | <i>Rapporteur</i> M.Goldsmith | <i>Rapporteur</i> S.B.Hill | <i>Rapporteur</i> P.E.Hodgson | <i>Rapporteur</i> R.Mufti |
| | <i>Speakers</i> R.L.Ackoff M.W.Thring A.Szent-Györgyi Sir Charles Goodeve | <i>Speakers</i> J.Coulomb E.Cantore A. & M. de Reuck R.T.Webster | <i>Speakers</i> J.Meurers P.E.Hodgson E.Barker O.R.Anderson | <i>Speakers</i> M.Husain J.P.Jiang A.Rörsch H.Wold |
| | <i>Commentators</i> S.L.Cook A.Pikas Lord Adrian O.Granö | <i>Commentators</i> A.F.Cournand C.Chagas M.R.A.Chance E.L.Mascall | <i>Commentators</i> K.Kuypers J.Roger J.W.N.Watkins R.Hilpinen | <i>Commentators</i> A.Pleijel E.O.Pratt T.Miyazima W.Meissner |
| 6.00 p.m. | Leave hotel by coach for London Press Centre | | | |
| 7.00 p.m. | Commemorative banquet | | | |
| 8.30 p.m. | Commemorative lecture: <i>Science and absolute values</i> | | | P.Auger |
| | Commemorative address: | | | |
| | <i>Followed by a programme of music</i> | | | |
| 10.30 p.m. | Return to the hotel by coach | | | |

Saturday 23rd November

| | | | | |
|------------------------|---|--|--|--|
| 10.00 a.m. — 1.00 p.m. | Committee session 2 | | | |
| | Committee 1 Bolingbroke Suite | Committee 2 Derby Suite | Committee 3 Richmond Suite | Committee 4 Gloucester Suite |
| | <i>Chairman</i> S.L.Cook | <i>Chairman</i> K.Mellanby | <i>Chairman</i> A.C.Crombie | <i>Chairman</i> N.Kurti |
| | <i>Rapporteur</i> M.Goldsmith | <i>Rapporteur</i> S.B.Hill | <i>Rapporteur</i> P.E.Hodgson | <i>Rapporteur</i> R.Mufti |
| | <i>Speakers</i> A.K.Cragg G.R.Dunstan Lord Halsbury B.D.Josephson | <i>Speakers</i> H.Ford K.Atsumi P.Hein E.Jantsch | <i>Speakers</i> S.E. & Z.Luria G.S.Stent H.Groenewold | <i>Speakers</i> P.N.Brooks C.Galperin |
| | <i>Commentators</i> L.Rosenmayr A.K.Cragg G.R.Dunstan H.B.Jones | <i>Commentators</i> D.J.E.Ingram L.Allegra A.Dou N.Smart | <i>Commentators</i> H.Riecken M.Jeuken E.Schopper | <i>Commentators</i> D.R.Daugs H.Wold |
| 1.00 p.m. — 2.15 p.m. | Lunch | | | |
| 2.15 p.m. — 4.30 p.m. | Committee session 3 | | | |
| | <i>Speakers</i> W.Th.O.Forssmann H.B.Jones R.W.Raven | <i>Speakers</i> E.L.Mascall J.Basile N.Smart | <i>Speakers</i> T.Kitagawa W.Fucks D.Whitehead | <i>Speakers</i> Y.Dror D.Kahneman |
| | <i>Commentators</i> C.F.Cori Lord Halsbury Sir John McMichael | <i>Commentators</i> P.Baelz K.A.Dickson J.Moltmann | <i>Commentators</i> W.F.Buckley R.S.Scorer O.R.Anderson | <i>Commentators</i> B.C.J.Lievegoed H.Himmelweit |
| 5.00 p.m. | Pre-theatre buffet | | | |
| 6.00 p.m. | Leave hotel by coach for the Royal Opera House, Covent Garden | | | |
| 7.00 p.m. | Opera: Boris Godunov with Boris Christoff <i>[Please note that latecomers will not be admitted to the auditorium until the interval]</i> | | | |
| 10.30 p.m. | Return to the hotel by coach | | | |

Sunday 24th November

| | | | | | |
|--|---|---------------------|---------------------|---------------------|--|
| 10.00 a.m. — 1.00 p.m. | Committee session 4 | | | | |
| | Committee 1 | Committee 2 | Committee 3 | Committee 4 | |
| | Bolingbroke Suite | Derby Suite | Richmond Suite | Gloucester Suite | |
| | <i>Chairman</i> | <i>Chairman</i> | <i>Chairman</i> | <i>Chairman</i> | |
| | S.L.Cook | K.Mellanby | A.C.Crombie | N.Kurti | |
| | <i>Rapporteur</i> | <i>Rapporteur</i> | <i>Rapporteur</i> | <i>Rapporteur</i> | |
| | M.Goldsmith | S.B.Hill | P.E.Hodgson | R.Mufti | |
| | <i>Speakers</i> | <i>Speakers</i> | <i>Speakers</i> | <i>Speakers</i> | |
| | L. & H. Rosenmayr | J.L.Russell | W.Kerber | A.M.Taylor | |
| | J.Maddox | T.R.Gerholm | W.Rodding | H.Popper | |
| | V.Geist | E.Laszlo | E.Goldsmith | S.W.Yoon | |
| | G.Strasser | J.Moltmann | R.S.Scorer | D.S.L.Cardwell | |
| 1.00 p.m. — 2.15 p.m. | <i>Commentators</i> | <i>Commentators</i> | <i>Commentators</i> | <i>Commentators</i> | |
| | M.R.Covian | E.Cantore | J.Tucker | M.Broady | |
| | H. de Jouvenel | R.T.Webster | A.Beck | S.Prickett | |
| | P.M.C.Davies | E.Jantsch | W.Fucks | S.Hook | |
| | M.Goldsmith | J.Hersch | E.Goldsmith | A.Kastler | |
| | Lunch | | | | |
| | 2.15 p.m. — 4.15 p.m. Nine Kings Suite | Plenary session 2 | | | |
| | | <i>Chairman</i> | | | |
| | | R.V.Jones | | | |
| | | <i>Speakers</i> | | | |
| | | R.A.Granit | | | |
| | | J.G.Taylor | | | |
| 4.40 p.m. — 5.30 p.m. | Closing ceremony | | | | |
| | <i>Closing address</i> | | | | |
| | R.V.Jones | | | | |
| | Statement by I.C.U.S. Secretariat | | | | |
| 7.00 p.m. — 9.00 p.m. Royal Lancaster Hotel | Farewell party | | | | |

STRUCTURE OF THE ACADEMIC PROGRAMME

Plenary sessions

The Plenary sessions will be attended by all participants. The speaker will present a special lecture for 40 minutes, followed by a period of 20 minutes allowed for questions and discussion.

There will be two Plenary sessions in the conference programme.

Committee sessions

Each of the four Committee sessions will open with the speakers outlining the main points of their paper in 10 minutes, followed by commentaries on them each for 10 minutes. A general discussion will follow after each commentary.

Commemorative lectures

These are lectures on topics of wide general interest, which will also be attended by distinguished members of the public. These lectures will take place on Friday 22nd November at the London Press Centre, following the commemorative banquet.

Each academic session will have a chairman to formally chair the session and a rapporteur to receive in writing the substance of the contributions to discussions.

The conference proceedings will be published.

LIST OF PARTICIPANTS

Keynote address

| | | |
|------------------|------|---|
| Prof. K.Mellanby | U.K. | Ecology, Institute of Terrestrial Ecology |
|------------------|------|---|

Plenary speakers

| | | |
|--------------------|-------------|--|
| Prof. R.A.Granit | Sweden | Karolinska Institutet, Stockholm |
| Prof W.F.Libby | U.S.A. | Chemistry, University of California, Los Angeles |
| Prof. A.J.P.Martin | U.K./U.S.A. | Chemistry, Houston University, Texas |
| Prof J.G.Taylor | U.K. | Mathematics, King's College, London |

Commemorative lecture

| | | |
|---------------|--------|------------------------------|
| Prof. P.Auger | France | Physics, University of Paris |
|---------------|--------|------------------------------|

Closing address

| | | |
|-----------------|------|---------------------------------|
| Prof. R.V.Jones | U.K. | Physics, University of Aberdeen |
|-----------------|------|---------------------------------|

Committee 1

| | | |
|--------------------------|---------|---|
| Prof. R.L.Ackoff | U.S.A. | Operational Research Analysis, University of Pennsylvania |
| Lord Adrian | U.K. | Medicine, University of Cambridge |
| Prof. Sir Ernst Chain | U.K. | Biochemistry, Imperial College |
| Prof. S.L.Cook | U.K. | Operational Research Analysis, Aston University |
| Prof. C.Cori | U.S.A. | Medicine, Boston General Hospital, Massachusetts |
| Prof. M.Covian | Brazil | Physiology, University of Sao Paulo |
| Dr. A.K.Cragg | U.K. | Comparative Religion and Philosophy, University of Sussex |
| Dr. P.M.C.Davies | U.K. | Zoology, University of Nottingham |
| Prof. G.R.Dunstan | U.K. | Moral and Social Theology, King's College, London |
| Prof. W.Th.O.Forssmann | Germany | Medicine, General Practitioner |
| Dr. V.Geist | Canada | Environmental Science, University of Calgary, Alberta |
| Mr. M.Goldsmith | U.K. | Science Policy, Science Policy Foundation Ltd. |
| Sir Charles Goodeve | U.K. | Applied Science, Tavistock Inst. of Human Relations |
| Prof. O.Granö | Finland | Geography, University of Turku |
| Prof. D.Guilmet | France | Surgeon, C.M.C. Foch Hospital, Suresnes |
| Lord Halsbury | U.K. | Administration, Chancellor Brunel University |
| Prof. A.Headlam-Morley | U.K. | International Relations, University of Oxford |
| Dr. B.Inglis | U.K. | Economics, Journalist, T.V. Commentator |
| Prof. H.B.Jones | U.S.A. | Neurophysiology, University of California, Berkeley |
| Dr. B.D.Josephson | U.K. | Physics, University of Cambridge |
| Dr. H. de Jouvenel | France | Futurology, Secy. Gen. Int. Assn. 'Futuribles' |
| Prof. C.H.Kim | Korea | |
| Dr. S.H.Lee | Korea | Medicine, Philosophy, Institute of Thought Research |
| Prof. W.Leontief | U.S.A. | Economics, Harvard University |
| Mr. J.Maddox | U.K. | Journalist, John Maddox Editorial Company |
| Dr. M.Matsushita | Japan | Economics, Politics, Asian Professors' Peace Academy |
| Prof. Sir John McMichael | U.K. | Medicine, University of London |
| Prof. J.Mongar | U.K. | Pharmacology, University College, London |
| Dr. A.Pikas | Sweden | Education, University of Uppsala |
| Mr. R.W.Raven | U.K. | Surgical Oncology, Royal Marsden & Westminster Hospitals |
| Dr. H.Rosenmayr | Austria | Social Gerontology, University of Vienna |
| Prof. L.Rosenmayr | Austria | Sociology, University of Vienna |
| Prof. N.Sawada | Japan | Philosophy, Keio University |
| Mr. G.Strasser | U.S.A. | Technology Assessment, Strasser Associates Incorporated |
| Prof. A.Szent-Gyorgyi | U.S.A. | Physiology, Institute of Muscle Research, Massachusetts |
| Prof. M.W.Thring | U.K. | Applied Science, University of London |

Committee 2

| | | |
|---------------------|-------------|--|
| Prof. G.Aleandri | Argentina | Applied Psychology, Kennedy University, Buenos Aires |
| Prof. L.Allegra | Italy | Physiology, European Assn. for Clinical Resp. Physiology |
| Prof. K.Atsumi | Japan | Life-Science, University of Tokyo |
| Prof. P.Auger | France | Physics, University of Paris |
| Prof. P.Baelz | U.K. | Moral and Pastoral Theology, University of Oxford |
| Prof. J.Basile | Belgium | Applied Science, Catholic University, Belgium |
| Dr. E.Cantore | U.S.A. | Physics and Philosophy, Institute of Scientific Humanism |
| Prof. C.Chagas | Brazil | Biophysics, University of Rio de Janeiro |
| Dr. M.R.A.Chance | U.K. | Ethology, University of Birmingham |
| Prof. J.Coulomb | France | Geophysics, University of Paris |
| Prof. A.F.Cournand | U.S.A. | Medicine, Columbia University |
| Prof. K.A.Dickson | Ghana | Religious Studies, University of Ghana |
| Prof. A.Dou | Spain | Mathematics, University of Madrid |
| Prof. P.D.Dunn | U.K. | Engineering, Cybernetics, University of Reading |
| Prof. H.Ford | U.K. | Mechanical Engineering, Imperial College, London |
| Prof. T.R.Gerholm | Sweden | Physics, University of Stockholm |
| Dr. R.Habachi | France | Philosophy, UNESCO, Paris |
| Dr. P.Hein | Denmark | Information Science, Piet Hein International Company |
| Prof. J.Hersch | Switzerland | Philosophy, University of Geneva |
| Prof. S.Hill | Canada | Ecology, McGill University, Quebec |
| Prof. D.J.E.Ingram | U.K. | Physics, Administration, Chelsea College, London |
| Prof. E.Jantsch | U.S.A. | Systems Philosophy, Management, Univ. of Calif., Berkeley |
| Prof. E.Laszlo | U.S.A. | General Systems Philosophy, State University of New York |
| Prof. H.N.Lee | Korea | Philosophy of Law, Hong-Ik University |
| Prof. E.L.Mascall | U.K. | Historical Theology, King's College, London |
| Prof. K.Mellanby | U.K. | Ecology, Institute of Terrestrial Ecology |
| Prof. J.Moltmann | Germany | Systematic Theology and Social Ethic, University of Tübingen |
| Prof. R.Mulliken | U.S.A. | Chemistry, Physics, University of Chicago |
| Prof. R.G.W.Norrish | U.K. | Chemistry, University of Cambridge |
| Mr. A.V.S. de Reuck | U.K. | Linguistics, University of Surrey |
| Mrs. M. de Reuck | U.K. | Physics, Imperial College, London |
| Prof. J.Russell | U.K. | History of Philosophy, Heythrop College, London |
| Prof. N.Smart | U.K. | Religious Studies, Philosophy, University of Lancaster |
| Prof. E.T.S.Walton | Eire | Physics, Trinity College, Dublin |
| Mr. R.T.Webster | Italy | History of Philosophy, Journalist, Acc. del Med., Rome |

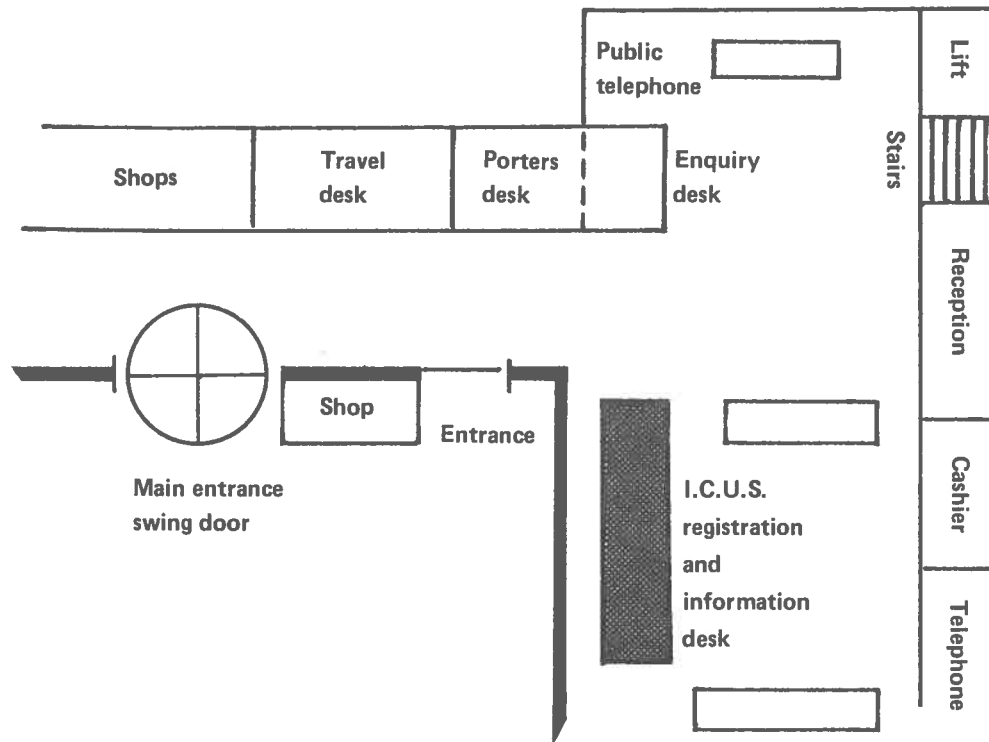
Committee 3

| | | |
|---------------------|--------------|---|
| Prof. O.R.Anderson | U.S.A. | Natural Sciences, Columbia University |
| Mrs. E.Barker | U.K. | Sociology, London School of Economics |
| Prof. A.Beck | U.K. | Mathematics, London School of Economics |
| Prof. W.Buckley | U.S.A. | Sociology, University of New Hampshire |
| Dr. A.C.Crombie | U.K. | History of Science, University of Oxford |
| Dr. B.Dixon | U.K. | Scientific Journalist, Editor of New Scientist |
| Dr. L.Esaki | Japan/U.S.A. | Physics, I.B.M. Research Centre, New York |
| Prof. W.Fucks | Germany | Applied Science, Institute of Applied Science, Aachen |
| Prof. D.A.Glaser | U.S.A. | Physics, Molecular Biology, University of California |
| Mr. E.Goldsmith | U.K. | Ecology, Cybernetics, Editor of 'Ecologist' |
| Prof. H.Groenewold | Netherlands | Theoretical Physics, University of Groningen |
| Prof. R.Hilpinen | Finland | Philosophy, Lahti University |
| Dr. P.E.Hodgson | U.K. | Nuclear Physics, University of Oxford |
| Prof. T.Inoue | Japan | Philosophy, University of Tokyo |
| Prof. M.Jeuken | Netherlands | Biology, State University of Leiden |
| Prof. W.Kerber | Germany | Sociology and Ethics, Hochschule für Philosophie |
| Prof. N.H.Keswani | India | Medicine, History of Science, All India Medical Institute |
| Prof. T.Kim | Korea | |
| Prof. T.Kitagawa | Japan | Social Information Science, Inst. for Adv. Study of SIS |
| Prof. K.Kuypers | Netherlands | Philosophy, University of Utrecht |
| Prof. S.E.Luria | U.S.A. | Biology, Massachusetts Institute of Technology |
| Prof. Z.Luria | U.S.A. | Psychology, Tufts University, Massachusetts |
| Prof. D.A.Martin | U.K. | Sociology, London School of Economics |
| Dr.G. Masini | Italy | Chemistry, Journalism, University of Florence |
| Prof. J.Meurers | Austria | Astronomy, Philosophy, University of Vienna |
| Prof. H.Riecken | U.S.A. | Behavioural Science, University of Pennsylvania |
| Prof W.Rodding | Germany | Systems Theory, University of Dortmund |
| Prof. J.Roger | France | History of Science, University of Paris |
| Prof. E.Schopper | Germany | Nuclear Physics, University of Frankfurt |
| Prof. R.S.Scorer | U.K. | Applied Mathematics, Imperial College, London |
| Prof. C.S.Shen | China | Natural Sciences, Tsing-Hua University, Taiwan |
| Miss I.Stengers | Belgium | Physics, Free University of Brussels |
| Prof. G.S.Stent | U.S.A. | Molecular Biology, University of California, Berkeley |
| Sir George Thomson | U.K. | Physics, University of Cambridge |
| Prof. J.Tucker | Canada | Mathematics, University of Waterloo, Ontario |
| Prof. J.W.N.Watkins | U.K. | Philosophy, London School of Economics |
| Prof. D.Whitehead | Australia | Economics, La Trobe University, Victoria |
| Prof. N.Yosida | Japan | Philosophy, Tokyo Institute of Technology |

Committee 4

| | | |
|------------------------|--------------|---|
| Prof. D.H.Baick | Korea | Agricultural Engineering Kon-Kuk University, Seoul |
| Prof. W.H.Brattain | U.S.A. | Physics, Appied Science, Whitman's College, Washington |
| Prof. M.Broadly | U.K. | Social Administration, University of Wales |
| Dr. P.N.Brooks | U.K. | History, Administration, University of Cambridge |
| Prof. D.S.L.Cardwell | U.K. | History of Science and Technology, Univ. of Manchester |
| Prof. D.Daug | Canada | Education, University of Victoria, British Columbia |
| Prof. Y.Dror | Israel | Policy Science, Hebrew University, Jerusalem |
| Prof. C.Galperin | France | Biology, Philosophy, University of Paris |
| Prof. G.P.Gislason | Iceland | Economics, Administration, Ministry of Education, Iceland |
| Prof. H.Himmelweit | U.K. | Social Psychology, London School of Economics |
| Prof S.Hook | U.S.A. | Philosophy, New York University |
| Prof. M.Husain | Pakistan | Philosophy, Administration, University of Karachi |
| Prof. J.P.Jiang | China | Political Science, National Chenchi University |
| Prof. D.Kahneman | Israel | Psychology, Hebrew University, Jerusalem |
| Prof. S.W.Kang | Korea | Zoology, University of Seoul |
| Prof. A.Kastler | France | Physics, University of Paris |
| Lord Kennet | U.K. | Politics, Institute of the European Community |
| Prof. O.Kim | Korea/U.S.A. | Mathematics, University of Maryland |
| Prof. N.Kurti | U.K. | Physics, University of Oxford |
| Prof. W.F.Libby | U.S.A. | Chemistry, University of California, Los Angeles |
| Prof. B.C.J. Lievegoed | Netherlands | Medicine, Sociology, Pedagogics, Institute of Education |
| Prof. W.Meissner | Germany | Economics, University of Frankfurt |
| Prof. T.Miyazima | Japan | Physics, Atomic Energy Commission of Japan |
| Mr. R.Mufti | U.K. | Sociology, Christ's College, Liverpool |
| Mr. P.J.Noel-Baker | U.K. | Author, London |
| Prof. A.Pleijel | Sweden | Mathematics, University of Uppsala |
| Dr. H.Popper | U.K. | Modern Languages, University of Wales |
| Prof. E.O.Pratt | Sierra Leone | Medicine, University of Sierra Leone |
| Dr. S.Prickett | U.K. | English and American Studies, University of Sussex |
| Prof. A.Rorsch | Netherlands | Biochemistry, University of Leiden |
| Prof. E.Segre | Italy/U.S.A. | Physics, University of California, Berkeley |
| Prof. E.C.Slater | Netherlands | Biochemistry, University of Amsterdam |
| Prof. A.M.Taylor | Canada | Political Science, Queen's University, Kingston, Ontario |
| Prof. H.Wold | Sweden | Statistics, Economics, University of Goteborg |
| Prof. S.W.Yoon | Korea | Physics, Administration, Kyung-Hee University |
| Dr. A.Zettersten | Sweden | Linguistics, Royal Swedish Embassy, U.K. |

REGISTRATION AND RECEPTION



Registration

A Special desk will be set up for the registration of participants in the main lobby of the hotel. This desk will be in operation from 3.00 p.m. to 10.00 p.m. on Wednesday 20th November and from 8.00 a.m. to 10.00 p.m. on Thursday 21st November. All participants are kindly asked to present themselves at the Registration desk during these times to officially register.

The Information Desk

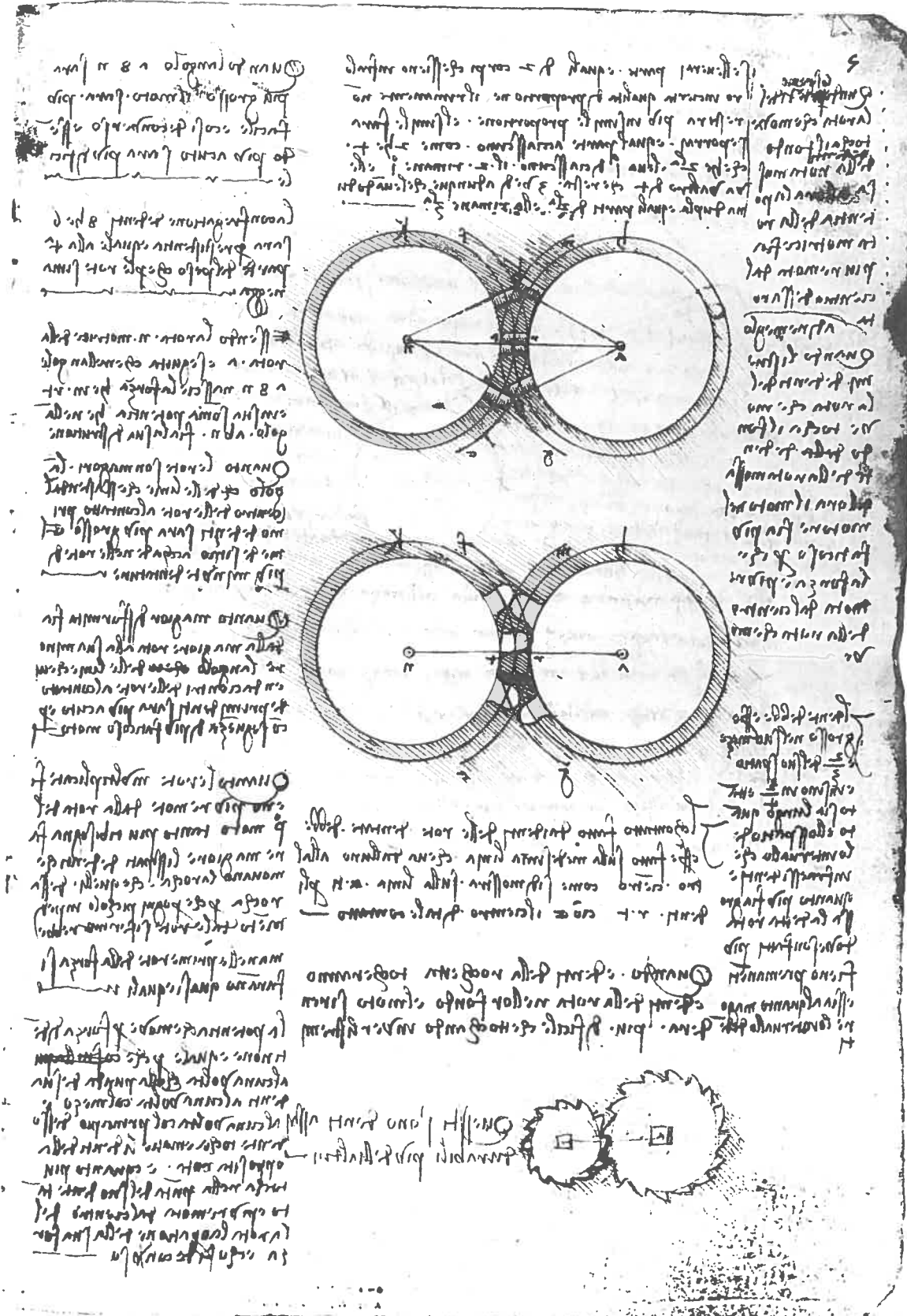
The Secretariat will maintain an Information desk which will be situated in the main lobby of the hotel beside the Registration desk on the 20th and 21st November, and in the Reception area of the Nine Kings Suite on the ground floor of the hotel, from 22nd to 26th November. Hours of opening: 8.00 a.m. to 7.00 p.m. One member of the Conference Secretariat and one of the staff of Seichi Travel Service will be at the Information desk during these hours. Please feel free to contact them for any information or assistance.

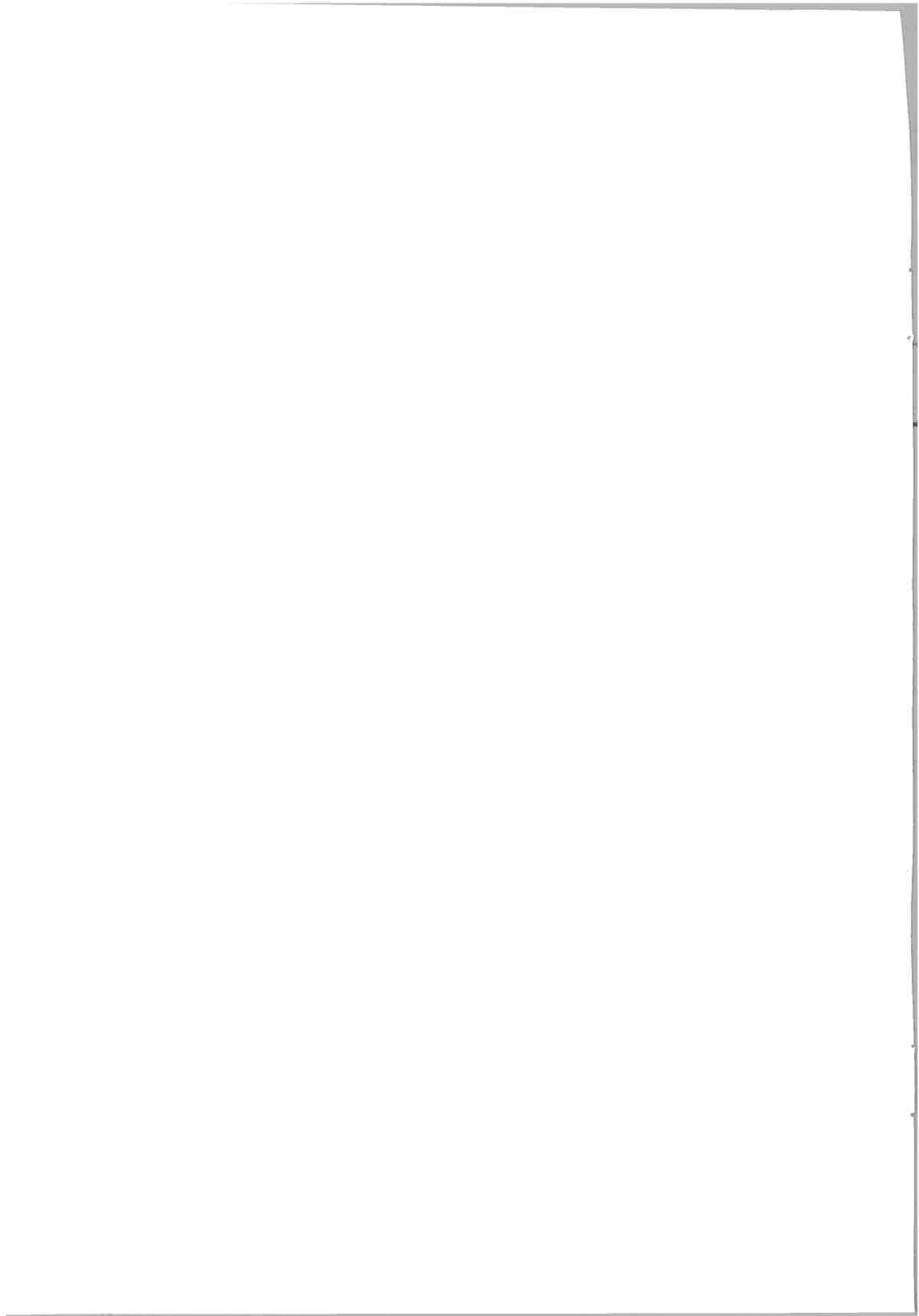
Conference Secretariat Office

The Conference Secretariat Office in the Royal Lancaster Hotel will be open 24 hours a day during official Conference schedule – 21st November to 24th November, and from 8.00 a.m. to 7.00 p.m. over the periods 16th November to 21st November and 25th November to 27th November. Our Information desk can inform you of the location of the Secretariat office.

FRIDAY 22nd NOVEMBER

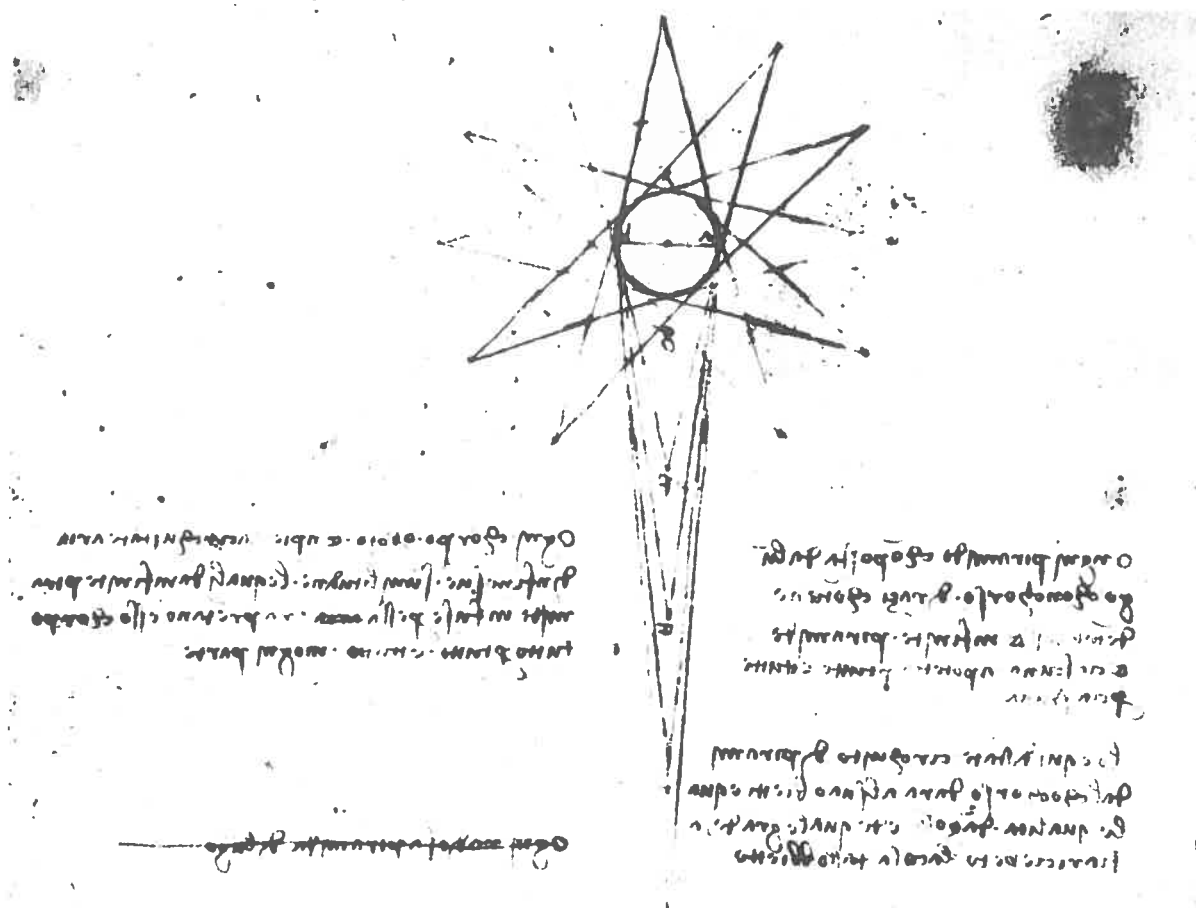
Words, wheels and gears; a page from Leonardo's notebook.





OPENING CEREMONY

The study of rays – their angles and paths



10.00 a.m. – 10.50 p.m. Opening ceremony
Nine Kings Suite

| | |
|--------------------------------------|-------------|
| <i>Master of ceremonies</i> | M. Broady |
| <i>Founder's address</i> | S.M. Moon |
| <i>Opening greetings</i> | Lord Adrian |
| <i>Outgoing chairman's greetings</i> | N. Sawada |
| <i>Keynote address</i> | K. Mellanby |

10.50 a.m. – 1.00 p.m. Plenary session 1
Nine Kings Suite

Chairman
K. Mellanby

Speakers
W.F. Libby
The values of knowledge.

A.J.P. Martin
Science and higher values.

COMMITTEE SESSION 1

COMMITTEE 1

2.15 p.m. — 5.15 p.m.

Bolingbroke Suite

Chairman

S.L.Cook

Rapporteur

M.Goldsmith

Speakers

R.L.Ackoff

Does the quality of life have to be quantified?

M.W.Thring

The quality of life as seen by an applied scientist.

A.Szent-Györgyi

Science and absolute values.

Sir Charles Goodeve

Can science help a social group to clarify and evaluate its objectives?

Commentators

S.L.Cook

A.Pikas

Lord Adrian

O.Grano

COMMITTEE 2

2.15 p.m. — 5.15 p.m.

Derby Suite

Chairman

K.Mellanby

Rapporteur

S.B.Hill

Speakers

J.Coulomb

What science can do.

E.Cantore

Science and value: the challenge to self-humanization.

A.V.S. & M. de Reuck

Value systems and value change.

R.T.Webster

Value change through increased communication — a suggestion for a theory of tolerance.

Commentators

A.F.Cournand

C.Chagas

M.R.A.Chance

E.L.Mascall

6.00 p.m. Leave hotel by coach for London Press Centre, and commemorative banquet.

COMMITTEE SESSION 1

COMMITTEE 3

2.15 p.m. — 5.15 p.m.
Richmond Suite

Chairman

A.C.Crombie

Rapporteur

P.E.Hodgson

Speakers

J.Meurers

Unity of science as a problem of scientific method.

P.E.Hodgson

Doubt and certainty in science.

E.Barker

Facts and values and social science.

O.R.Anderson

On method in science and religion.

Commentators

K.Kuypers

J.Roger

J.W.N.Watkins

R.Hilpinen

COMMITTEE 4

2.15 p.m. — 5.15 p.m.
Gloucester Suite

Chairman

N.Kurti

Rapporteur

R.Mufti

Speakers

M.Husain

Educational institutions and society in Pakistan

J.P.Jiang

The political attitudes of university students in Taiwan.

A.Rörsch

Ideology and practice of the democratic university in the Netherlands as instituted by law of 1970.

H.Wold

The university in its social setting: the university in transition III.

Commentators

A.Pleijel

E.O.Pratt

T.Miyazima

W.Meissner

6.00 p.m. Leave hotel by coach for London Press Centre, and commemorative banquet.

COMMEMORATIVE EVENT AND BANQUET

6.00 p.m. Leave hotel by coach for London Press Centre

7.00 p.m. Commemorative banquet

8.30 p.m. Commemorative lectures
Introduced by A.F. Cournand

P. Auger
Science and absolute values

Followed by a programme of music:
The Louise Williams String Quartet and Alan Brown (piano)
Royal Academy of Music

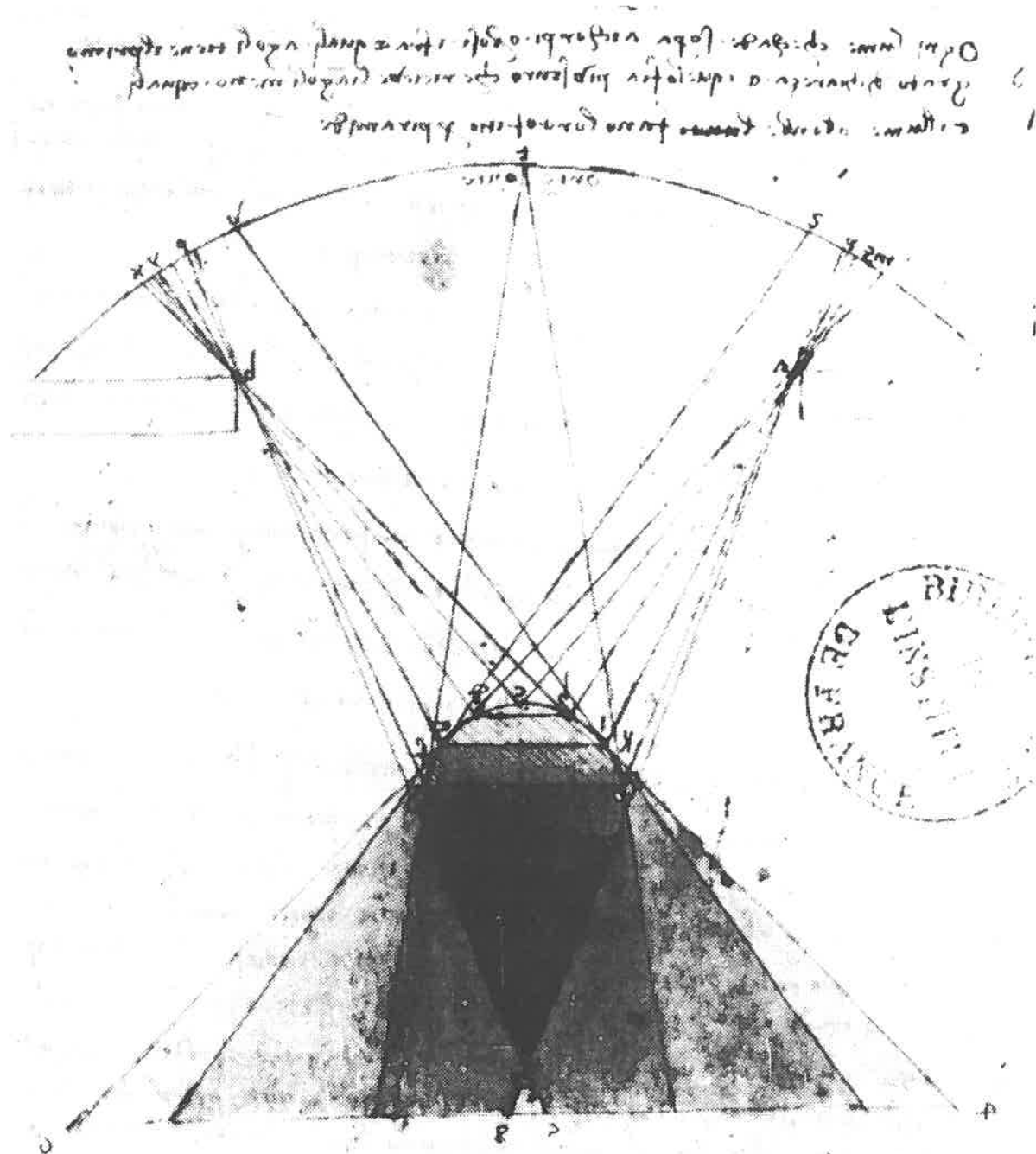


Leonardo's invention of the viola organista

10.30 p.m. Return to the hotel by coach

SATURDAY 23rd NOVEMBER

Graduations in shadow as light hits a spherical body



Handwritten text in a historical script, likely Latin, located below the diagram. The text is arranged in several lines and appears to be a detailed description or explanation of the diagram's content.

COMMITTEE SESSION 2

COMMITTEE 1

10.00 a.m. — 1.00 p.m.
Bolingbroke Suite

Chairman
S.L.Cook

Rapporteur
M.Goldsmith

Speakers
A.K.Cragg
Valuing ourselves: let man be man.

G.R.Dunstan
Man's dominion and the nature of man.

Lord Halsbury
*Our concepts of the good and the right:
their status and origin.*

B.D.Josephson
*Meditation techniques and the quality
of life.*

Commentators
L.Rosenmayr
A.K.Cragg
G.R.Dunstan
H.B.Jones

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE 2

10.00 a.m. — 1.00 p.m.
Derby Suite

Chairman
K.Mellanby

Rapporteur
S.B.Hill

Speakers
H.Ford
In quest of questions

K.Atsumi
*Human value in future — from the
viewpoint of a life scientist.*

P.Hein
On the absolute.

E.Jantsch
The quest for absolute values.

Commentators
D.J.E.Ingram
L.Allegra
A.Dou
N.Smart

1.00 p.m. - 2.15 p.m. Lunch

COMMITTEE SESSION 2

COMMITTEE 3

10.00 a.m. — 1.00 p.m.
Richmond Suite

Chairman

A.C.Crombie

Rapporteur

P.E.Hodgson

Speakers

S.E. & Z.Luria

The soluble and the insoluble.

G.S.Stent

Structuralism and biology.

H.Groenewold

*Hard and soft components in natural
and social science.*

Commentators

H.Riecken

M.Jeuken

E.Schopper

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE 4

10.00 a.m. — 1.00 p.m.
Gloucester Suite

Chairman

N.Kurti

Rapporteur

R.Mufti

Speakers

P.N.Brooks

*Crisis and confrontation: some
problems in contemporary university
education.*

C.Galperin

*Modern university and the confusion of
ideology.*

Commentators

D.R.Daugs

H.Wold

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE SESSION 3

COMMITTEE 1

2.15 p.m. — 4.30 p.m.

Bolingbroke Suite

Chairman

S.L.Cook

Rapporteur

M.Goldsmith

Speakers

W.Th.O.Forssmann

Will human life remain an absolute value?

H.B.Jones

Measurement of health and human life values.

R.W.Raven

Society, medicine and science.

Commentators

C.F.Cori

Lord Halsbury

Sir John McMichael

5.00 p.m. Pre-theatre buffet

COMMITTEE 2

2.15 p.m. — 4.30 p.m.

Derby Suite

Chairman

K.Mellanby

Rapporteur

S.B.Hill

Speakers

E.L.Mascall

Contemporary genetics: some ethical considerations.

J.Basile

A new scale of values for a new changing world.

N.Smart

Does a universal standard of value need to be higher order?

Commentators

P.Baelz

K.A.Dickson

J.Moltmann

5.00 p.m. Pre-theatre buffet

COMMITTEE SESSION 3

COMMITTEE 3

2.15 p.m. – 4.30 p.m.

Richmond Suite

Chairman

A.C.Crombie

Rapporteur

P.E.Hodgson

Speakers

T.Kitagawa

The role of information science in the unification of the sciences.

W.Fucks

Three elementary non-linear relations scoring for or against unity.

D.Whitehead

Economic analysis : economic policy and absolute values.

Commentators

W.F.Buckley

R.S.Scorer

O.R.Anderson

5.00 p.m. Pre-theatre buffet

COMMITTEE 4

2.15 p.m. – 4.30 p.m.

Gloucester Suite

Chairman

N.Kurti

Rapporteur

R.Mufti

Speakers

Y.Dror

Universities: training for policy making and policy research.

D.Kahneman

Cognitive limitations and public decision making.

Commentators

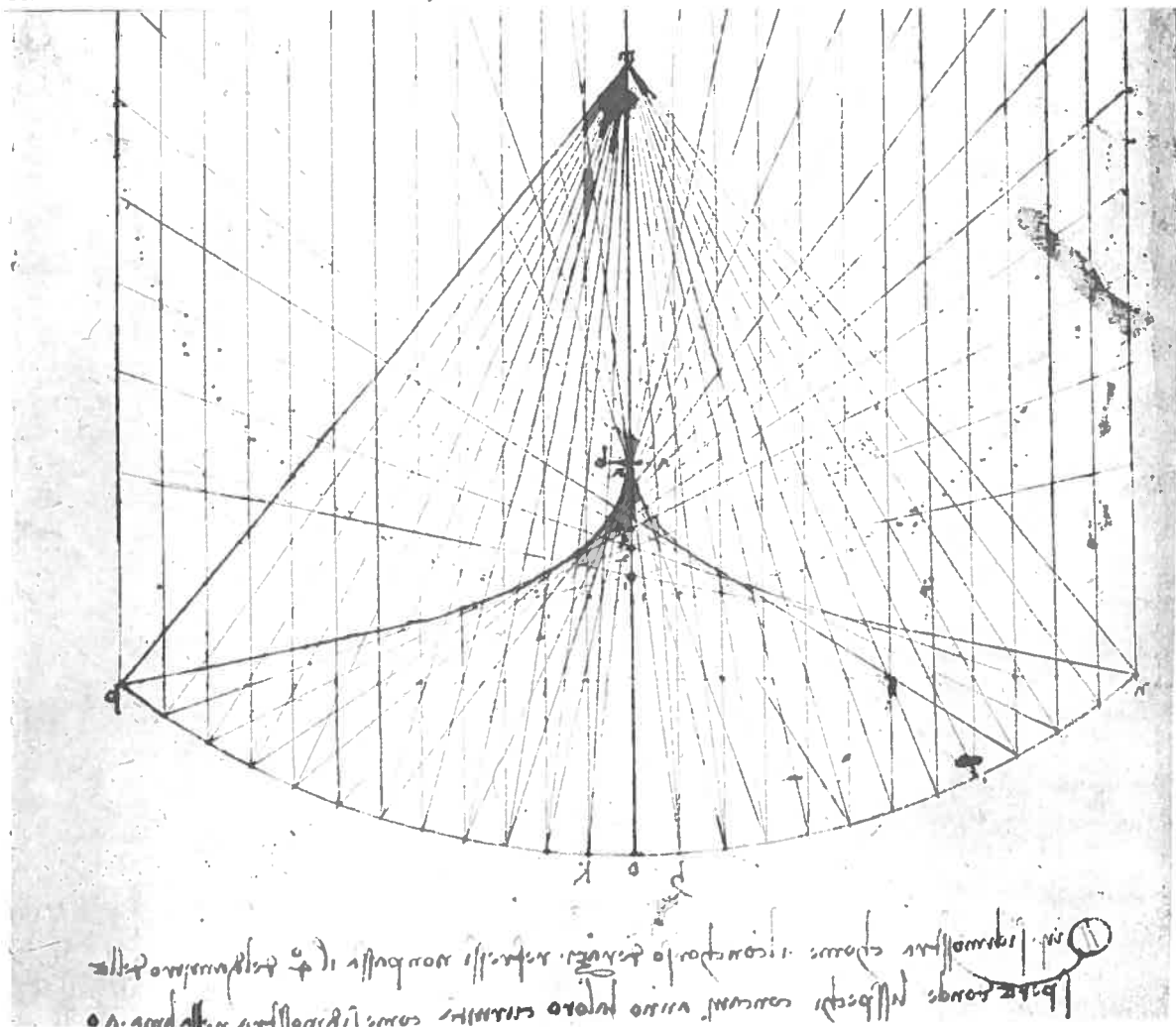
B.C.J.Lievegoed

H.Himmelweit

5.00 p.m. Pre-theatre buffet

ROYAL OPERA

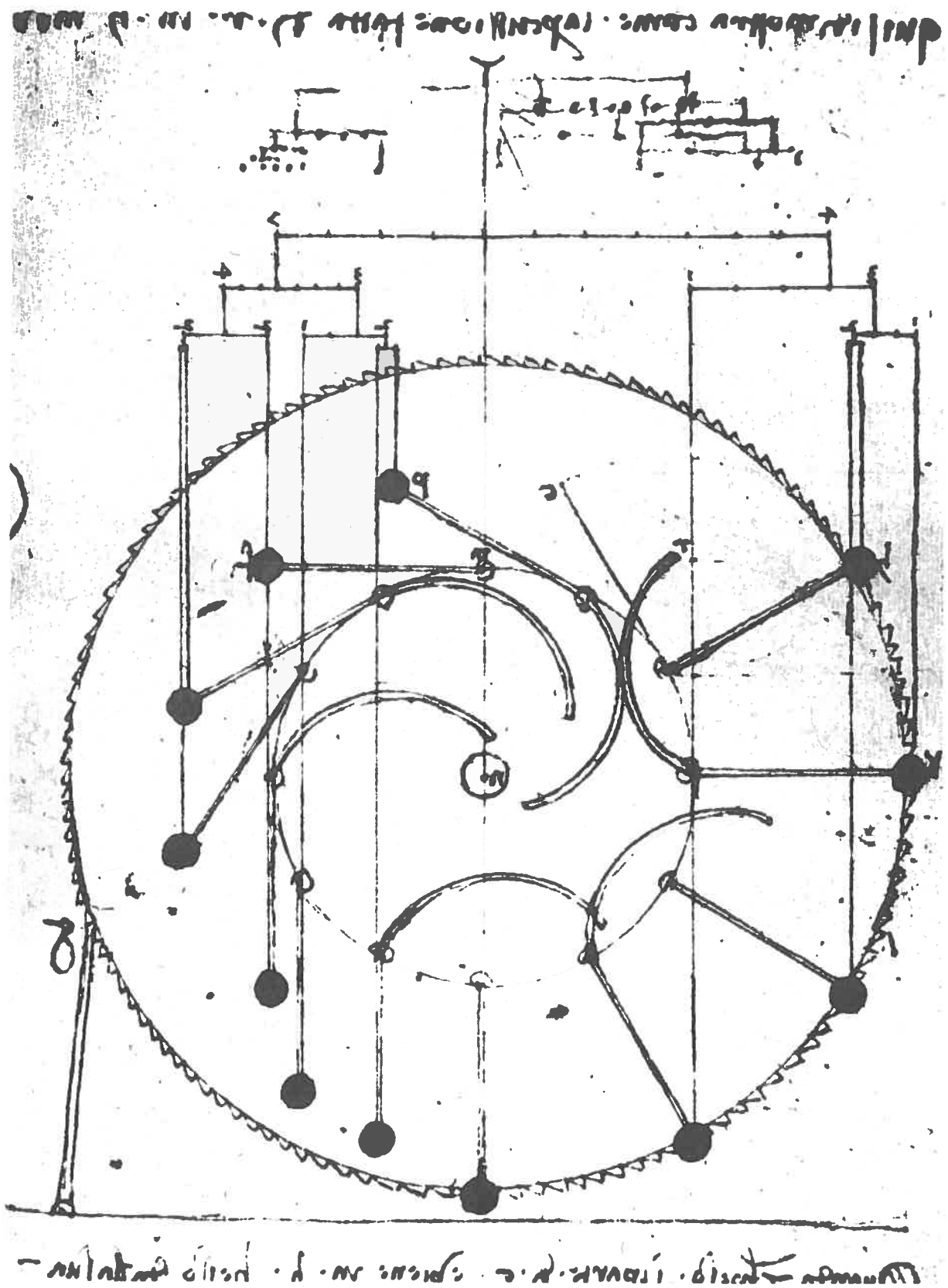
Studies on the reflection of luminous rays from the concave surface of a mirror



- | | |
|------------|--|
| 5.00 p.m. | Pre-theatre buffet |
| 6.00 p.m. | Leave hotel by coach for the Royal Opera House, Covent Garden |
| 7.00 p.m. | Opera: Boris Godunov with Boris Christoff [Please note that latecomers will not be admitted to the auditorium until the interval] |
| 10.30 p.m. | Return to the hotel by coach |

SUNDAY 24th NOVEMBER

This drawing illustrates Leonardo's notes on gravity



COMMITTEE SESSION 4

COMMITTEE 1

10.00 a.m. — 1.00 p.m.

Bolingbroke Suite

Chairman

S.L.Cook

Rapporteur

M.Goldsmith

Speakers

L. & H. Rosenmayr

Qualities of human ageing: a socio-logical perspective.

J. Maddox

The question of economic growth in a finite world.

V. Geist

About natural man and environmental design

G. Strasser

The increasing need for synthesis as viewed in a worldwide context.

Commentators

M.R.Covian

H. de Jouvenel

P.M.C.Davies

M.Goldsmith

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE 2

10.00 a.m. — 1.00 p.m.

Derby Suite

Chairman

K.Mellanby

Rapporteur

S.B.Hill

Speakers

J.L. Russell

Human nature and absolute values.

T.R. Gerholm

Science and technology — a cultural merger.

E. Laszlo

Science and humanism in a global society

J. Moltmann

From the pursuit of happiness to solidarity.

Commentators

E.Cantore

R.T.Webster

E.Jantsch

J.Hersch

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE SESSION 4

COMMITTEE 3

10.00 a.m. — 1.00 p.m.
Richmond Suite

Chairman

A.C.Crombie

Rapporteur

P.E.Hodgson

Speakers

W.Kerber

On the possibility of scientific evaluation.

W.Rödding

An exact method in social sciences.

E.Goldsmith

Science and social control.

R.S.Scorer

Popular and professional illusions about the scientific method.

Commentators

J.Tucker

A.Beck

W.Fucks

E.Goldsmith

1.00 p.m. — 2.15 p.m. Lunch

COMMITTEE 4

10.00 a.m. — 1.00 p.m.
Gloucester Suite

Chairman

N.Kurti

Rapporteur

R.Mufti

Speakers

A.M.Taylor

International education: a search for cultural and conceptual isomorphisms.

H.Popper

Word and thought: towards a harmony of the sciences.

S.W.Yoon

The responsibility of scientists and the teachings of oriental thought.

D.S.L.Cardwell

Public recognition of science: its history and its problems.

Commentators

M.Broadly

S.Prickett

S.Hook

A.Kastler

1.00 p.m. — 2.15 p.m. Lunch

PLENARY SESSION 2

2.15 p.m. — 4.15 p.m.
Nine Kings Suite

Plenary session 2

Chairman
R.V.Jones

Speakers

R.A.Granit
*Adaptability of the nervous system and
its relation to chance, purposiveness and
causality.*

J.G.Taylor
*Science and the implications of the
paranormal.*

4.15 p.m. — 4.40 p.m.

Tea break

4.40 p.m. — 5.30 p.m.

Closing ceremony

Closing address
R.V.Jones

Statement by I.C.U.S. Secretariat

7.00 p.m. — 9.00 p.m.
Royal Lancaster Hotel

Farewell party

INTRODUCING THE PARTICIPANTS



Lord Adrian

Chairman of the I.C.U.S. Chancellor of Cambridge University. Nobel Laureate (Medicine).



Russell L. Ackoff

Professor of City Planning at Pennsylvania University, Professor of Statistics and Operations Research and Chairman of Graduate Group Operations Research at the Wharton School since 1964.



O. Roger Anderson

Professor of Natural Sciences at Teachers' College and Senior Research Associate in Biology at Lamont-Doherty Observatory, Columbia University, New York.

Member of the Third I.C.U.S. International Advisory Board.

Kazuhiko Atsumi

Professor of Medicine (Medical Electronics) at Tokyo University.



Eileen Barker

Lecturer in the department of Sociology at the London School of Economics. Has worked on the relation between method in Social Science and method in the Natural Sciences.



Peter Brooks

Lecturer in Divinity and Modern Church History, Dean of Downing College, Cambridge.



Enrico Cantore

Doctor in Philosophy and Physics, Director of the Institute for Scientific Humanism at Lowenstein Centre, Fordham University, New York.

Donald Cardwell

Professor of History of Science and Technology at the Institute of Science and Technology, University of Manchester.

U.K. Advisor to the I.C.U.S.

Stephen L. Cook

Professor of Operational Research, University of Aston. Member of the Institute of Management Sciences.



Jean Coulomb

Professor at the University of Paris until 1972. President of the International Union of Geodesy and Geophysics, (1967–71), and a member of the French Academy of Sciences.



Kenneth Cragg

Philosopher and Theologian. Bishop of Jerusalem. Reader of Cultural and Community studies at the University of Sussex, and is the greatest authority on the theology and practice of Islam, according to the 'Christian Communication'.

Alistair C. Crombie

History of Science, University of Oxford.

Rev. Gordon R. Dunstan

Professor of Moral and Social Theology at King's College, London, since 1967, and Editor of 'Theology' since 1965. Is Priest in Ordinary to the Queen. Member of the Council of the Tavistock Institute of Human Relations.

Hugh Ford

Professor of Mechanical Engineering at the Imperial College, University of London. F.R.S. Thomas Hawksley Gold Medalist.

Charles Galperin

Professor of Biology and Philosophy at the University of Paris.



Valerius Geist

Programme Director of Environmental Science at the Faculty of Environmental Design, University of Calgary.

T. Ragnar Gerholm

Associate Professor of Physics at the Institute of Physics, University of Stockholm.

Edward Goldsmith

Editor of 'Ecologist'. Co-author of the now famous 'Blueprint for Survival'.



Sir Charles Goodeve

O.B.E., F.R.S., F.R.I.C., F.I.M., F.C.I.T., Vice President of the Royal Society, (1968–70). U.S. Medal of Freedom with Silver Palm, Bessemer Gold Medallist, Carl Lueg Gold Medallist, Silver Medal from the Operational Research Society. U.K. Advisor of the I.C.U.S.

Ragnar A. Granit

Professor Emeritus of Karolinska Institutet, Stockholm. Nobel Laureate (Medicine).

Hilbrand J. Groenewold

Professor of Theoretical Physics at the State University, Groningen.

Earl of Halsbury

F.R.S., Chancellor of Brunel University, Consultant Director of the Distillers Company Ltd. Governor of the B.B.C. (1960–62)

Piet Hein

Director of the Piet Hein International Information Company, Copenhagen



Peter Hodgson

Lecturer in Nuclear Physics, and Fellow of Corpus Christi College, Oxford. U.K. Advisor to the Third I.C.U.S.

Mahmud Husain

Vice Chancellor of Karachi University, and Professor of Philosophy.



Eric Jantsch

Visiting Professor at the University of Paris, Researcher at the Management Centre, University of California, Berkeley.



Joseph Jiang

Dean of the School of Political Science at the National Chengchi University, China.

Reginald V. Jones

C.B., C.B.E., D.S.C., F.R.S., F.R.S.E., Professor of Natural Philosophy at the University of Aberdeen.

Co-chairman of the Third I.C.U.S.



Walter Kerber

Professor of Social Philosophy at the Hochschule für Philosophie, Frankfurt.



Brian D. Josephson

Professor of Physics at the University of Cambridge. Nobel Prize for Physics.

Nicholas Kurti

F.R.S., C.B.E., Professor of Physics, Clarendon Laboratory, University of Oxford.

Ervin Laszlo

Professor of Philosophy at the State University of New York. Member of the 3rd I.C.U.S. International Advisory Board.



Willard F. Libby

Professor of Chemistry at the University of California, Berkeley, and Director of the Institute of Geophysics. Nobel Laureate (Chemistry).

Salvador E. Luria

Sedgwick Professor of Biology at Massachusetts Institute of Technology, Fellow of the Salk Institute for Biological Studies. Nobel Prize for Physiology.

John Maddox

Chairman and Managing Director of the Maddox Editorial Company since 1972. Former Editor of 'Nature', (1966–73).

A.J.P. Martin

Consultant to Chemical Industry. Nobel Laureate (Chemistry).

Kenneth Mellanby

C.B.E., O.B.E. Director of the Monks Wood Experimental Station, Hunts. Co-chairman in the Third I.C.U.S.



Joseph Meurers

Professor of Astronomy at the University of Vienna since 1962



Jurgen Moltmann

Professor of Systematic Theology and Social Ethics at the University of Tübingen.



Hans Popper

Reader in German at the University of Wales.



Anthony de Reuck

Research Fellow in Conflict Studies at the University of Surrey.



Marjorie de Reuck

Physicist at the Imperial College, and member of the I.U.P.A.C. Thermodynamic Tables Project Centre.



Walburga Rödding

Professor of Systems Theory at the University of Dortmund.



Arthur Rörsch

Deputy Director of the Medical Biological Laboratory Ryswyk, and Professor of Molecular Genetics at the Leyden State University. Editor of 'Mutation Research'.



Leopold Rosenmayr

Professor of Sociology at the Department of Sociology, University of Vienna since 1961. Member of the Third I.C.U.S. International Advisory Board.



John Russell

Reader in History of Philosophy at the Heythrop College, University of London.



Richard Scorer

Professor of Applied Mathematics at the Imperial College, London.



Gunther S. Stent

Professor of Molecular Biology at the University of California, Berkeley.

Gabor Strasser

Formed Strasser Associates Incorporated in 1973, and held position in the Office of Science and Technology of the Executive Office of the President.



Albert Szent-Gyorgyi

Director of Research at the Institute of Muscle Research, Massachusetts since 1947. Has won Cameron Prize (1946) and the Laskar Award (1954). Nobel Laureate in Medicine.



Alastair Taylor

Professor of Political Science at the Queen's University, Kingston, Ontario.

John G. Taylor

Professor of Mathematics, Kings College, London. Lectures widely on paranormal phenomena.



Herman Wold

Professor of Statistics, University of Goteborg. Member of the Third I.C.U.S. International advisory Board.



Se Won Yoon

Professor of Physics, Kyung-Hee University, Seoul, Korea.

ACCOMPANYING PARTICIPANTS

| | |
|----------------------|-------------|
| Emma-Jane Brattain | U.S.A. |
| Grace Brooks | U.K. |
| Olive Cardwell | U.K. |
| Anne Cori | U.S.A. |
| Nancy Crombie | U.K. |
| Rachel Dror | Israel |
| Ruby Dunstan | U.K. |
| Csilla Felker | U.S.A. |
| Nancy Galperin | France |
| Guorun Gislason | Iceland |
| Lady Janet Goodeve | U.K. |
| Marguerite Granit | Sweden |
| Eeva Granö | Finland |
| Ruby Guilmet | France |
| Countess of Halsbury | U.K. |
| Helen Jones | U.S.A. |
| Beatrice de Jouvenel | France |
| Georgiana Kurti | U.K. |
| Leona Marshall Libby | U.S.A. |
| Uta von Lucke | Germany |
| Brenda Maddox | U.K. |
| Lady McMichael | U.K. |
| Gerhild Meissner | Germany |
| Alice Meurers | Austria |
| Annalena Pikas | Sweden |
| Margit Riesz Pleijel | Sweden |
| Dieter Rödding | Germany |
| Marie-Louise Roger | France |
| Anne Parks | U.S.A. |
| Frances Riecken | U.S.A. |
| Geertrui Rörsch | Netherlands |
| Hilde Rosenmayr | Austria |
| Nel Schatborn | Netherlands |
| Elfriede Schopper | Germany |
| Susanne Schopper | Germany |
| Margaret Scorer | U.K. |
| Marion Slater | Netherlands |
| Inga Stent | U.S.A. |
| Margaret Thring | U.K. |
| Eva-Marie Tucker | Canada |
| Winifred Walton | Ireland |
| Betty Weston | U.S.A. |
| Anna-Lisa Wold | Sweden |

NOTES ON I.C.U.S.

Written contributions were presented by the following scholars who, because of reasons beyond their control, are not able to attend the Conference.

Adolf Butenandt

Professor of Chemistry at the Max Plank Institute, Germany. Nobel Laureate (Chemistry).

Willy Brandt

Former Chancellor of West Germany. Nobel Peace Prize.

Duc de Broglie

Permanent Secretary to the French Academy of Science. Nobel Laureate (Physics).

Joseph Needham

Master of Gonville and Caius College, Cambridge.

Marjorie Reeves

Education, History, Literature, University of Oxford.

U.K. Advisor to the Third I.C.U.S.

P.J.Noel-Baker

Author, London, Nobel Laureate. Lack of time prevented the presentation of his paper.

OBITUARIES

The following members of the I.C.U.S. International Advisory Board (1974) have died recently:

Lord Blackett, U.K.

Sir James Chadwick, U.K.

Jacob Bronowski, U.S.A.

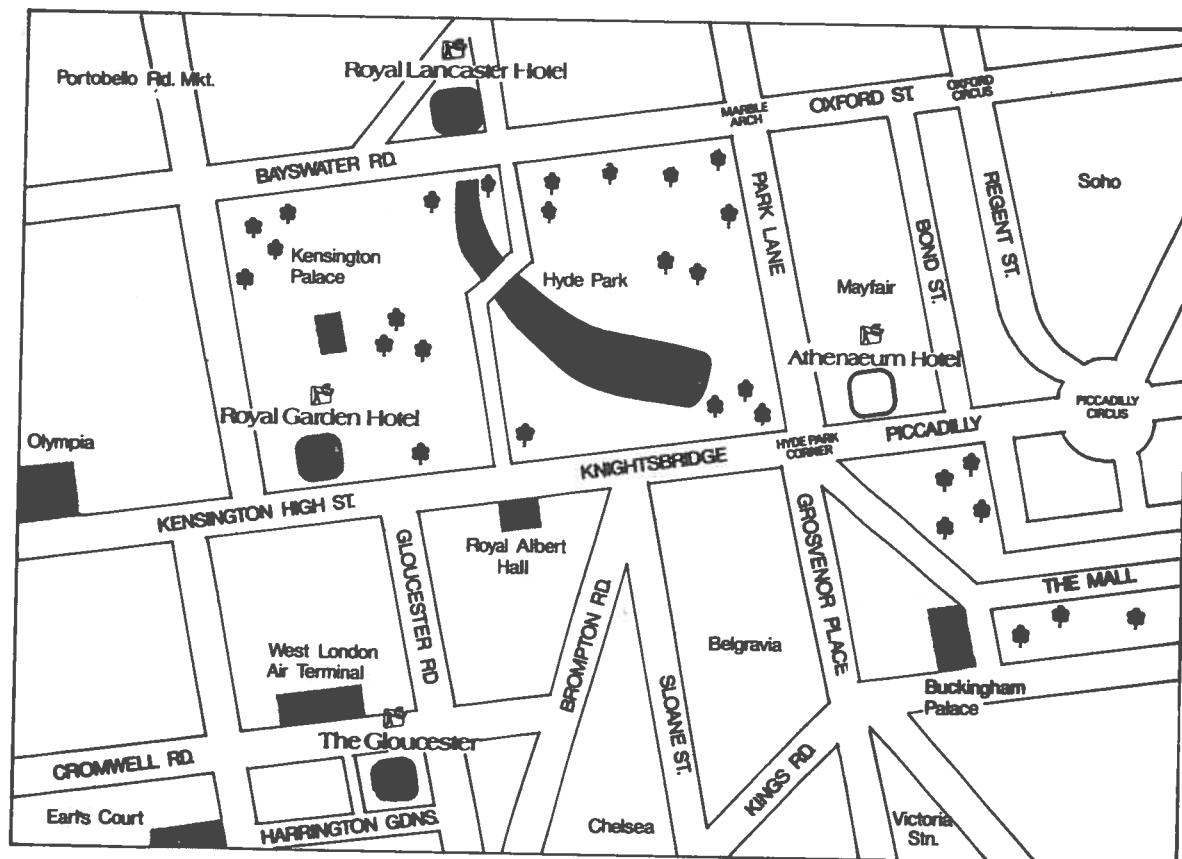
PLAN OF HOTEL AREA

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The drawings in this programme are reproduced from Leonardo da Vinci's notebooks, the Madrid Codices

