

**WFSF****WORLD FUTURE STUDIES FEDERATION**EDITED AND PREPARED BY THE SECRETARIAT  
Casella Postale 6203 Roma Prati Italy

DATOR

**n e w s l e t t e r**PT  
JUNE 1979**EDITORIAL****Environment and Ecology Everybody's concern**

*The Public opinion in industrialized countries is watching with growing uneasiness the battle (so far only verbal) caused by the energy crisis and environment pollution. In this battle politicians, economists, industry managers, technicians and poets take part.*

*To the common awareness that the situation is difficult and that drastic and immediate remedies are necessary, a great indecision corresponds, above all from the part of the Governments (for example the U.S. Parliament has recently rejected the programme of energy consumption limitation proposed by the President, as well as the strong opposition of the industries which prevent the suspension of dangerous processing by using the blackmailing of unemployment).*

*These contradictions and other elements seem to indicate that the introduction in development processes of new parameters so far neglected (ecology and energy) lead towards a great dilemma: are the type of progress and the ways of development so far pursued only to be corrected, or rather are they to be totally replaced by others more respectful to natural equilibrium? If this second hypothesis is right, the necessary transformations will have to be radical and deep, and only the broadest popular consensus will be able to grant its efficiency.*

*Beyond every evaluation, it seems to me fundamental that ecological and energetic problematics become an element of public opinion consciousness, so that the fear of frightening the people does not push the rulers to postpone urgent choices. Above all, it is fundamental for the Community to choose the quality of its future. It is not only a question of choosing between nuclear energy or solar energy, of building more purifiers, of restraining the use of toxic substances, but rather of building a new civilization in which the relation between man and nature, man and environment can reach a lasting equilibrium. This kind of civilization will not have to be imposed, but it will have to be built up by the everyday engagement of all of us.*

ANDREA BOTTAI

## ALL ABOUT MEMBERS

### NEW WFSF MEMBERS

- Susan Triesman Ulster Polytechnic Shore Road Newtownabbey Co Antrim BT 37 QOB Ulster
- Colman Alfred Quenum WHO Regional Director for Africa OMS Blvd 6 Brazzaville Congo
- William A Nesbitt 85 Ridgebury Road Danbury CT 06810 USA
- Manuel Reyero Hamburgo 97 301 Mexico 6 DF
- Anna Malavasi Via Cavallotti 10 40134 Bologna Italy
- Matundu Ne N Kueno BP 14143 Kinshasa 1 Zaire

## ORGANIZATIONS

### HUMANISTIC FUTURE STUDIES

(Western Michigan University)

From the present the future appears as an infinite spectrum of potential alternatives which may or may not be realized depending at least in part upon our individual and collective decisions. In the attempt to determine appropriate courses of action for our lives most of us move cautiously and nervously sometimes impetuously unaware that techniques exist which could cast meaningful light on the obscurities that distort our judgement for the future.

During World War II the U.S. military described their mathematical techniques for analyzing complex social systems as «Operations Research». Updated version of these continue to be utilized internationally for military and industrial purposes. In 1943 Ossip K. Flechtheim, refugee in the U.S.A. from Nazi Germany, coined the term «futurology» as the concept for the systematic and critical treatment of questions concerning the future. Since then «Futurism», «Futuristics», «Futures Research», «Alternative Futures» and «Future Studies» have also been commonly used. These terms are basically

synonymous with slight semantical difference in emphasis.

Future Studies is often differentiated into three sub-categories: forecasting, planning, and philosophy of the future, concerned with developmental logic, methodology, epistemology, ethics, etc. The concerns and methodology of Humanistic Future Studies as an area of academic inquiry are discussed in detail in the Undergraduate Bulletin section of this document.

The inclusion of «Humanistic» is a deliberate statement that the Center and the Minor are concerned with human values and social ethics, in terms of both the individual and the collective, at all levels from the family to the species. The humanism referred to here is closely associated with humaneness, a practical humanism dedicated to minimizing physical and psychological suffering in both the short and the long term. It does not preclude empirical studies, but rather integrates and applies all spheres of inquiry towards the tasks of heightening the quality of life for those living today and for all of our descendants.

Future Studies activities are growing rapidly, as documented in the World Future Society's 603-page resource catalogue which «provides information on 450 individuals, 230 organizations, 116 research projects, 400 books and reports, 107 periodicals, 354 films (including 11 film series), one series of video cassettes, 64 audiotapes and tapes series, 31 games and simulations, 6 mixed media presentations, and more than 200 courses and programs offered by educational institutions». A survey in 1975 found 1700 educators involved in future-oriented courses, with a 50% increase every two years.

Among the institutions with Future Studies programs are The American University, George Washington University, MIT, Universities of Hawaii, Huston, Kansas, Maryland, Massachusetts, Minnesota, Oklahoma, Portland State, Purdue, St. Louis, and Wisconsin. By 1975, 180 junior and senior high schools had programs in Future Studies, over half of them in New York, California, Ohio, Minnesota, and Massachusetts, and the number is increasing.

Efforts were underway from 1965 through 1977 to establish a Future Studies program at Western Michigan University. Through the years the project was continually discussed by faculty, students, and administrators. It found expression in many public events on campus and in the community, culminating in an all-day *G. W. F. Hegel Colloquium* in 1971. Several future-oriented courses were introduced in General Studies, the Religion Department, and elsewhere. Throughout the 1970s the project was promoted by a steering committee. In the winter semester of 1976, Professor Rudolf J. Siebert and other members of the steering committee organized and presented a day-long conference on Future Studies to about 300 students and members of the Kalamazoo community. Two films on the future were presented.

this same semestre and were discussed by panels of faculty before an audience of 200 to 300 people. A proposal for a series entitled *Humanistic Futurology* featuring 20 speakers was submitted to the Michigan Council for the Humanities in the summer of 1976.

In April 1977 Professor Siebert together with his assistant John Hughes organized and conducted an international course and seminar on *The Future of Religion: End or Renewal?* in the Inter University Centre Dubrovnik Yugoslavia. The course was such a success that the Director of the Inter University Centre asked Professor Siebert to repeat it in 1978 and 1979. Fifty future oriented religiousists from North and South America and Eastern and Western Europe have been invited to convene in the Inter University Centre in April of 1978 and 1979.

Professor Siebert has also organized a course and seminar on Future Studies for the University of Waterloo Kitchener Ontario Canada for July and August 1978.

In November 1976 a proposal was submitted to the College of Arts and Sciences for an Institute for Future Studies offering both a major and a minor. Dean Loew referred the proposal to the Institute of Public Affairs to be part of the proposed School of Environmental Affairs. After passing through an ad hoc advisory committee on Future Studies formed from representatives from all colleges in the University the Advisory Committee on Environmental Programs and the Curriculum Committee of the College of Arts and Sciences the Center and Minor were approved by Dean Cothran on December 31 1977. They are currently being considered by the Educational Policies Council. Dr Loew Vice President for Academic Affairs has given permission for students who wish to pursue the minor to receive credit towards the minor retroactively for courses taken from Winter semester 1978 onwards.

Among the faculty whose future oriented courses and research are coordinated by the Center are Garland from Anthropology Junker from Economics Bahlke Dooley and Tenharmel from General Humanities Bach Hargreave and Swords from General Science Houston Tyler and Williams from General Social Science Hodler Kirchner and Micklin from Geography Wolf from Industrial Engineering Dahlberg Kaufman Plano and Rogers from Political Science Malott Poche and Ulrich from Psychology Kaufman and Siebert from Religion Ellin and Pulaski from Philosophy etc.

For further information Rudolf Siebert 3064 Friedmann 383 2469

## THE CHINESE SOCIETY FOR FUTURE STUDIES SET UP IN BEIJING

On January 16 1979 in Beijing the Chinese Society for Future Studies (CSFS) was founded which is simultaneously a (new) member of All China Association of Science and Technology.

CSFS was sponsored by some twenty social and natural scientist who later became the founding members and some leading members of the Chinese Academy of Social Sciences at the Chinese Academy of Sciences are its advisors.

CSFS aims at

- 1) Promoting with Marxism Leninism and Mao Zedong thought as guideline in its work the development of science and technology and social progress in China and serving the Chinese people to achieve the four modernizations
- 2) Serving as a forum for exchange of information and views in all fields of future studies stimulating and coordinating future research activities of different sections and institutions at all levels and strengthening the cooperation between them
- 3) Organizing future research activities and cooperative future projects seminars meeting and lectures
- 4) Helping to popularize future research and future education in China and
- 5) Strengthening communications and cooperation with other nations or international organizations engaged in future studies

### Membership

CSFS has both organization members and individual members (including founding members). More than thirty organization members are institutes future relevant institutions university departments from Beijing and other provinces of China.

One hundred and more individuals are men and women with different professions including natural scientists social scientists technicians science policy researchers professors as well as those who are interested in future studies.

Since its founding CSFS has been engaged in the following activities

- 1) giving lectures to those organizations and institutions that are most closely related to future studies
- 2) making a 3 year research programme
- 3) preparing to publish a journal «Future and Development» and a «Newsletter of CSFS»

- 4) connecting with the institutions and individuals in various provinces of China and helping them to organize some sub societies of CSFS at local level
- 5) Keeping and strengthening its communications and cooperation with WFSF and other international organizations

---

**ACTIVITIES**

**CHILDREN'S RIGHTS AND WORDL ORDER A GLOBAL SURVEY OF THE ROLE AND STATUS OF CHILDREN AND YOUTH IN THE 1970'S**

A study survey by Elise Boulding (University of Colorado Boulder Colorado USA 80309)

**ECOROPA DECLARATION FOR ANOTHER EUROPE TOWARDS AN ECOLOGICAL DEMOCRACY**

Within the frame of information dealing with elections of European Parliament Ecoropa has drafted a declaration You can get the original test of this declaration by writing to

ECOROPA 107 Rue de la Course F 33000 Bordeaux France

**PARIS DECLARATION 5 6 MARCH 1979**

Informatics for the third worlds (ITM) an international non governmental organization has held a round table as well as the first Session of its steering committee in Paris One of the results of this meeting has been the adoption of a declaration meant to sensitize world public opinion decision makers and the scientific community about the need for urgent action in the field of informatics for the benefit of development Social Change and human upliftmen

For further information ITM 13 AV Soeur Rosalie 75013 Paris France

**SWEDEN IN A NEW INTERNATIONAL ECONOMIC ORDER A project presentation**

*From the preface*

This initial report on the future study «Sweden in a New International Economic Order» contains a presentation of the background purposes and structure of the project together with some of the points of departure for the work which is to be undertaken The description of the project has been

prepared by the team members. By presenting the project in this way we hope to be able to arouse interest in our work and any ideas, suggestions and observations with a bearing on the work of the project will be gratefully received. The names of the team members are listed in Appendix together with the project address and phone numbers. The material resulting from our efforts will be published successively in a series of reports. Some of these reports deemed to be of interest to readers outside Sweden may be translated into English.

Stockholm January 1979

Soren Ekstrom  
Project leader

For further information: Secretariat for Future Studies, P.O. Box 7502, S-103 92 Stockholm (Sweden)

### **WHICH EDUCATION FOR TOMORROW? INTERNATIONAL PERSPECTIVE SEMINAR**

(Paris 13-14 November 1978)

Following the seminar organized by Futuribles and Club of Rome last November on the «Learning project» the minutes of the debates are available. For further information: Futuribles, 55 Rue de Varenne, 75007 Paris.

### **AFRICAN REGIONAL SYMPOSIUM ON SCIENCE AND TECHNOLOGY AND THE FUTURE**

Place Nairobi (Kenya)

Date 9-12 July 1979

Sponsored: The Kenya National Academy for Advancement of Arts and Sciences, DSE, WFSF, OAU, African Association for Advancement of Science and Technology.

#### *Agenda*

1. Changing purpose of science  
Alternative future approaches to the generation of Knowledge  
Science to meet African challenges, limitations and possibilities  
The prevalent scientific method, its prospects
2. Sciences and technology and society  
Relevance to human needs and well being  
The misuse of science and technology  
Restructuring and democratising the science and technology community
3. Future trends in international cooperation in sciences and technology  
Self reliance and cooperation, the way towards development  
Long range effectiveness as a criterion of international science and technology cooperation

For further information: Prof. Canute Khamala, KNAAS, P.O. Box 47288, Nairobi, Kenya.

### **ALTERNATIVE FUTURES FOR BUSINESS, THE ECONOMY AND EMPLOYMENT**

Place Berkhamsted (England)

Date 18-20 May

## OBJECTIVES

The future for business the economy and employment in the UK and the other advanced industrial societies of Europe and North America is less clear than at any time this century. The sources of uncertainty include new technologies such as the microprocessor increasing competition from rapidly industrialising countries such as Brazil Taiwan and South Korea changes in the world division of resources between north and south physical limits to growth unsolved social and political problems which contribute to inflation and unemployment new issues in the fields of industrial relations and the employment contract

This seminar will enable top management to have direct access to the latest thinking on these matters by leading authorities from Britain continental Europe and North America who will identify alternatives and suggest strategies for dealing with them

## PROGRAMME

*Friday 18th May*

6 00 p m onwards

Arrival and Registration

7 00 for 7 30 p m

Conference Dinner

Speaker Aurelio Peccei (Club of Rome)

«The Alternatives Before Us»

*Saturday 19th May*

Morning

«North American Perspectives»

Hazel Henderson (Princeton Center for Alternative Futures) «Risk Uncertainty and the Economic Future»

William A Dyson (Vanier Institute of the Family Ottawa) «New Challenges for the Economy in Canada»

Willis W Harman (Stanford Research Institute California) «Towards a Trans industrial Society?»

Carter Henderson (Princeton Center for Alternative Futures) «Industrial Economies in Transition the Business Response»

Afternoon

Discussion in Groups and with the panel of Speakers

Evening

Michael Shanks

«The British and European Perspective»

Sunday 20th May

Morning

«Alternative Futures for the British Economy»

Speakers Philips Sadler

James Robertson

«Prospects for the Western industrialised nations»

Panel Discussion

The Seminar will close at lunch time

For further information The Registrar Ashridge Management College Berkhamsted Hertfordshire HP4 1NS United Kingdom

## ASSOCIATION INTERNATIONALE FUTURIBLES

March 20

School Place of reproduction of Social inequalities? (Round table)

March 28

Employment perspectives in France (Seminar)

April 2

Tools and methods of perspective applied to ways of life (Afcet group and Futuribles)

## CLUB D'AMICS DE LA FUTUROLOGIA

April 2

Perspective and quality of life

April 23

World and Spanish Scenarios for the 80

April 30

Seminar on alternative energies

May 21

Political perspective for the 80

May 28

Perspective anthropology

June 31

Pedagogy of nature

For further informations Club d Amics de la Futurologia Gran Via 608 8º D

## THE CLUB OF ROME MEETING ON «LEARNING»

Place Salzburg (Austria)

Date 6 8 June 1979

For further information Club of Rome Via Giorgione 163 00167 Rome Italy

**DEVELOPMENT PERSPECTIVES FOR AFRICA HORIZON 2000**

(Symposium)

Place Monrovia

Date 12 16 February 1979

On the invitation of Mr Edem KODJO Secretary General of the Organization for African Unity (OAU) a symposium on the theme «Development Perspectives for Africa of the Horizon 2000» was held in Monrovia from the 12th to the 16th of February 1979

The meeting which was opened by Dr Tolbert President of the Republic of Liberia was organized in cooperation with the United Nations Economics Commission for Africa and the United Nations Development Programme In addition to the Secretary General of the OAU and Mr Kenneth Dadzie Director General for Development and International Economic Cooperation of the United Nations other high international Civil Servants and around forty African personalities from the worlds of Education Science Culture Finance and Administration took in the work of the symposium in their personal capacity

The report of the meeting has been circulated as a working document at the Conference of Ministers of the Economic Commission for Africa (Rabat March 1979) and will also be sent to the African of State who may discuss some of its recommendations at the OAU Summit meeting which will be held in Monrovia in July 1979 The conclusions of the symposium emphasized the failure of the type of development pursued since independence and called for a radical revision of goals The participants unanimously agreed on the absolute need of giving a more prominent place to the human element to the fundamental liberties as well as to social justice and cultural values Self reliance and endogeneous development particularly in the field of Science and Technology were stressed and the notion of «transfer» was condemned as a totally inoperant concept in this key area

Fully aware of the importance of anticipation and of a long term perspective the symposium recommended the creation of a Pan African Association for Future Studies Professor Mahdi Elmandjra (Morocco) was asked to follow up this matter and to help organize a Conference for the establishment of this association

**EFFECTIVE FORECASTING FOR MANAGERS (Seminar)**

Place Bradford University (England)

Date 30 May 1979

Sponsored Bradford University

*The need for a management appreciation of forecasting*

Most important decisions taken by managers require a view to be taken of future uncertainty In business the decision taker attempts to convert his uncertainty into a risk — the change of being wrong — but most times this is done intuitively and even naively Forecasting provides a systematic approach to this operation and perhaps for this reason alone it is important that managers should understand what forecasting is about Yet how often is the manager involved in the forecasting process and indeed is he aware of its various aspects?

Although some forecasting techniques may require a high degree of mathematical skill it should not be presumed that management cannot appreciate the methodology employed

Forecasting is not however a scientific system of prophecy Indeed the value of a forecast lies as much in its analysis of the operative factors in relation to the environment and in its indication of likely changes within their limitations as it does in assessing the probabilities of the likely outcomes The analysis in fact reveals the areas of concern It identifies the problem and infers the type and degree of corrective action It cannot say what should be done but it can test the options open to the decision taker

*Objectives*

The main purpose of the seminar is to provide an understanding of the logic structure and skills associated with forecasting and of the usefulness and limitations of forecasting so as to help managers to participate more fully in the decision making process

For further information The Programme Secretary The Management Centre Heaton Mount Keighley Road Bradford West Yorkshire BD9 4JU

**FOURTH INTERNATIONAL MEETING ON MACRO PROBLEMS**

Place Rome

Date 25-31 May 1975

Sponsored Eta Verde and Italian Commission for the International Year of the Child

The meetings is contemporary by an exhibit of paintings sculptures writings of children from many parts of the world

**FIFTH MEETING OF THE STANDING COMMITTEE ELECTED BY THE 16TH NGO CONFERENCE**

Place Paris

Date 12-16 March 1979

Sponsored UNESCO

## PROVISIONAL AGENDA

*Monday 12 March*

- |              |   |  |
|--------------|---|--|
| 10 am - 1 pm | 1 | Adoption of the agenda   |
|              | 2 | Approval of the minutes of the 4th Meeting of the Standing Committee   |
|              | 3 | Activity Report of the Bureau  |
|              | 4 | Follow up to the symposium on «Education against Apartheid»  |
|              | 5 | Consideration of arrangements made for the Symposium on «The Right to Communicate»   |
|              | 6 | Questions concerning the Twentieth Session of Unesco's General Conference  |
| 3 pm - 6 pm  | 7 | Amendments to the Rules of Procedure adoption by the Standing Committee of the document which will be presented to the 17th NGO Conference |

*Tuesday 13 March*

9 30 am - 10 am

*Symposium on «The Right to Communicate»**Opening session*

- a Introduction to the work of the symposium by the Chairman of the Standing Committee and the coordinator
- b Adoption of the work schedule and procedure
- c Appointment of rapporteurs a group responsible for summarizing and drafting the report and a recommendations committee

10 am - 1 pm

Languages and Communication

3 pm - 6 pm

Diversified Communication related to the Diversified Public

*Wednesday**14 March*

10 am - 1 pm

*Symposium on «The Right to Communicate»*

3 pm - 6 pm

Feedback and participation

The Right to Communicate as a Human Right

*Thursday 15 March*

10 am - 1 pm

*Symposium on «Right to Communicate»*

ROUND TABLE The New International Communication Order

3 pm - 6 pm

8 Geographical extension of NGOs

9 Evaluation of the implementation of the Decisions of the 16th NGO Conference

10 International Year of the Child

11 Financial questions

12 Preparation of the 17th NGO Conference 18-22 June 1979

*Friday 16 March*

10 am - 1 pm

12 (continued) Preparation of the 17th NGO Conference

13 Other questions

14 Date of the next meeting of the Standing Committee

3 pm - 6 pm

Conclusion of the symposium on «The Right to Communicate» Amendment and adoption of recommendations

For further information UNESCO 7 Place de Fontenoy 75700 Paris



**THE INTERNATIONAL YEAR OF THE CHILD THE ROLE OF EDUCATION IN INCREASINGLY MULTICULTURAL SOCIETIES**

1979 International School Association (ISA) Conference  
Place Israel  
Date 22 31 July 1979

*Participants*

Headmasters administrators department heads teachers students from international and internationally minded school of all continents Representatives of national ministries of education University professors and lecturers specializing in education Representatives of international organizations concerned with education and the future Other interested persons sociologists social workers researchers community and civic leaders youth and youth counsellors etc

*Sub themes and workshops*

The International Year of the Child Education for international understanding and peace Education in Israel Early childhood and primary education Multicultural education Teaching mathematics Extra curricular culture Environment English as a foreign language Youth session and more

For further information ISA Palais Wilson case 20 CH 1211 Geneva 14 Switzerland

**THE MALVERN HILLS INTERNATIONAL ORGANIC ASSEMBLY**

Date 16 17 June 1979  
Place Malvern Hills College (England)

A weekend of knowledge good food pleasure entertainment at the Malvern Hills College Albert Road North Great Malvern Worcestershire Lectures stalls displays demonstrations farm visits discussions wholefood catering films concert

Organic farming and gardening biodynamics natural veterinary medicine breadmaking

Organic fertilizers and aids machinery and tools

Camping and creche facilities

With emphasis on facilitating conversion to the organic system

For further information Dennis Nightingale Smith Greenways Malvern Wells Worcs

**METHODS AND STRATEGIES OF INTEGRATED DEVELOPMENT**

Date 23 29 September  
Place Arlon (Belgium)

For further information Colloque international Dr Michel Schrevel Fondation Universitaire Luxembourgeoise Rue des Deportes 140 B 6700 Arlon Belgique

**THE SECOND ANNUAL CONFERENCE EDUCATION SECTION WORLD FUTURE SOCIETY**

Place Leamington Hotel Minneapolis Minnesota  
Date October 18 21 1979

The Program Committee is now accepting proposals for session which will be considered for inclusion on the program Because of printing deadlines three copies of Proposal Form and Abstract Form must be submitted to the Program Director by June 1 1979

*Types of sessions*

Clinics workshops extended experiential learning session Demonstrations Dialogues panel Fishbowl nuclei sessions working sectionals with observers Components for idea/flea market poster session Simulations Media Networking brainstorming small group interactions structure by special interests and/or roles Performing and studio arts expressions Paper author probes Current research and volunteered papers round tables Off site experiences field trips

*Nature of planned sessions*

1 CLINICS A clinic workshop or extended experiential learning sessions is one for which pre registration will be required Clinics may be either half day (3 hours) or full day sessions Clinics will be limited to 30 participants each unless a different limit is specified in writing by the presenter

2 SECTIONALS A sectional is a demonstration discussion or participant session (or a component of such) Sectionals may be either 1 hour or 2 hours in length

*Note* All presenters are expected to register for the Conference All Conference and registration expenses are the responsibility of the presenter

*Selection of sessions*

All proposals will be reviewed by a panel from the Conference Program

Committee Special consideration will be given to those proposals which focus on futures studies and education broadly defined are compatible with the objectives of the World Future Society and its Education Section specify audience participation and indicate demonstration activities. Proposers are expected to follow a participatory type format rather than presenting a «being talked at» format. It is also suggested that some helpful material be distributed to the participants.

For further information: Second Annual Conference Education Section World Future Society 315 Pillsbury Drive S.E. University of Minnesota Minneapolis Minnesota 55455 USA

### STRATEGIES FOR FEEDING HUMANITY

Date 11 June 1979  
Place Philadelphia

World Game was conceived by architect/philosopher R. Buckminster Fuller in the 1960s. Strategies for Feeding Humanity will be the 10th annual World Game Program held this summer in Philadelphia and New York City. World Game is an alternative approach to global problem solving.

Strategies will be formulated during a one month planning session in Philadelphia June 11 and is open to the public. The cost is \$361 which includes a private room and meals for the month. Strategies will be presented at a Symposium in New York City July 14-21. Leading food experts representative of national and international hunger and agricultural development organizations and innovative thinkers including R. Buckminster Fuller, John Todd and Rene Dubos will make presentations. The cost of the Symposium is \$155.

For further information and applications contact Steve Mosenson World Game 21 Washington Place New York NY 10003 (212 598 2036)

### TURNING POINT MEETING

Date 12 May  
Place London

All day meeting 10am to 7pm Saturday 12th May 1979  
Conway Hall Red Lion Square London WC1  
Contributions to an alternative future

Many new strands of thought and action are combining to create a vision of a better future and to clarify the path towards it. The speakers at this meeting represent four outstanding examples from North America. The programme will provide plenty of time to discuss their presentations.

### Speakers

*FRITJOF CAPRA* Author of «The Tao of Physics» High energy physicist at Berkeley California. He believes we need a cultural revolution to bring about a radically different social and economic structure reflecting the harmonious inter-relatedness which modern physicists and Eastern mystics observe in nature. «In the role of interpreter of the philosophy of physics Dr. Capra has few equals» (Times Ed. Sup.)

*ROSALYN (Fallis) DYSON WILLIAM A. DYSON* Respectively program coordinator and executive director of the Vanier Institute of the Family (Ottawa) the Dysons are prominent among those who are rethinking the social economic and political life of Canada. Both are deeply concerned with the practical possibilities for a more «familial» society and with what these imply for lifestyles education economic activity communications etc.

*WILLIS W. HARMAN* Author of «An Incomplete Guide to the Future» Associate Director Stanford Research Institute (SRI) President of the Institute of Noetic Sciences. Internationally known as an adviser to government and consultant to top management. He believes that our scientific understanding of subjective experience could be developed to the level of the natural sciences and that this will be a feature of «trans-industrial society».

*HAZEL HENDERSON* Author of «Creating Alternative Futures» Co-Director of the Princeton Center for Alternative Futures Director of the Council on Economic Priorities and the Worldwatch Institute. Member of the Advisory Council on Technology Assessment «A unique contemporary pioneer» and «among the most eloquent and original of the econoclasts».

### Chairman

*JAMES ROBERTSON* Author of «The Sane Alternative»

For further information Turning Point 7 St. Ann's Villas London W11 4RU

**VISIONS OF DESIRABLE SOCIETIES**

Place Mexico City  
 Date 25-28 May 1979  
 Sponsors WFSF and Centro de Estudios Economicos y Sociales del Tercer Mundo

For further information Secretariat Casella Postale 6203 Roma Prati Italy

**YOUTH MOBILITY AND EDUCATION**

Place Strasbourg  
 Date 29 April-5 May 1979  
 Sponsors European Federation for Intercultural Learning European Youth Center of the Council of Europe in cooperation with WFSF  
 Among the Participants I Galtung B Suchodolski R Garaudy M Rahnema D Markowska A Elkoussy

For further information Intercultura via dell Elettronica 18 00144 Roma Italy

**VII WORLD CONFERENCE ON FUTURE STUDIES**

Place New Delhi India  
 Date 24-28 November 1980  
 Sponsored Indian Council of Social Sciences Research and WFSF

Title Future Societies Power Lifestyles and World Orders  
 The international preparatory Committee met in Berlin during the conference on «Science Technology and the Future» with the presence of members from the working group in India which is preparing the meeting

For further information WFSF Secretariat Casella Postale 6203 Roma Prati Italy

**CORPORATE PLANNING IN PRACTICE**

Date 11-15 June 1979  
 Place Bradford University England  
 Sponsored Bradford University

*The problem*

Companies today increasingly use formal corporate planning methods to cope with the accelerating rate of change in the environment. These companies are in manufacturing business and in service industries in the private sector as well as in nationalised industry. Those concerned with planning in particular organizations have little time to consider the options open to them in developing suitable planning system in the light of the experience of others of the planning techniques which are available or in comparing actual cases with their own.

*Objectives*

This course is aimed at those with responsibility for planning or concerned with its practice. It aims to

- 1 Provide a forum of contact ideas and experience with corporate planners and senior managers responsible for planning from other organisations
- 2 Present authoritative briefings from leading corporate planners on modern planning concepts and techniques
- 3 Enable course members to discuss actual case histories and take part in specific exercises involving strategies and plans
- 4 Compare and contrast how planning is organised and developed in major U.K. and European companies

*Participants*

The programme is designed for both specialist planners and senior managers with planning responsibilities. It is also useful as a review course for experienced planners who wish to update their knowledge of cases and methods.

For further information Mrs R Pyrah The Programme Secretary Corporate Strategy Programmes The Management Centre University of Bradford Heaton Mount Keighley Road Bradford West Yorkshire BD 9 4JU

## FINANCIAL CONTROL OF RESEARCH AND DEVELOPMENT

Date 18 21 September 1979  
Place Bradford University England  
Sponsored Bradford University

The importance of technological management was recognised from the stars of the Bradford Management Development Programme Conference in Technological Forecasting (1968) and the Management of Technological Innovation (1969) were followed by a programme of one week course in Management of Research and Development and Technological Forecasting and a two week course Managing Technological Innovation for Research Directors and Senior R & D Managers

### *The need*

The uncertainties of R & D present unique problems in financial control. Money is however the only universal measure for the costs incurred in technological innovation and the benefits expected to be derived from it. In the past financial control has frequently been poor due to the deficiencies of the financial information and a lack of understanding by those who have had to use it for decision making. Nowadays R & D costs are escalating sharply at a time when budgets are being pruned. The need for management to obtain the maximum value from all the available information has never been greater.

### *Course Objectives*

A wide range of topics will be covered. The aim is to present modern techniques of managerial control, evaluate their relevance to R & D decisions and illustrate their practical application. In particular the course will focus on the sources of financial information for R & D decision making, evaluation of the deficiencies of this information, the application of financial information in project selection, portfolio construction and resource allocation, the use of financial data for project and portfolio control.

### *Pre Course Study*

The three day programme is demanding. In order to derive the maximum benefit from the limited time available, participants will be required to devote time to pre course preparation. This will take the form of selected readings and case study analysis.

For further information Mr Brian C Twiss University of Bradford Management Centre Management Development Programmes Heaton Mount Keighley Road Bradford West Yorkshire BD 9 4JU

## THE FUTURE OF RELIGION

Place Dubrovnik (Yugoslavia)  
Date 9 27 April 1979  
Sponsored Inter University Center

Third program of the Future of Religion after the success of the first and second program (1977 and 1978). It will be international in scope. Resource persons and participants from the Americas, Eastern and Western Europe, Far and Near East.

For further information Rudolf J Siebert Department of Religion Western Michigan University Kalamazoo Michigan 49008 USA

## V TH INTERNATIONAL SCHOOL «PROBLEMS OF EDUCATION AND TRAINING IN FORECASTING»

Sponsored Forecasting Research Center of the Technical University of Wrocław  
Place Karpacz (Poland)  
Date 2 6 April 1979  
Director L J Baworowski

The International School in Forecasting has started in 1975. Each of them was in lectures of wellknown scientists directed on one central topic. The 1st School was concerned on mathematic models in forecasting, the 2nd with «Innovation Processes as an object of Forecasting», the 3rd with «Information Problems in Forecasting». The Situation in the Seventies has focused the attention on actual problems of education in future approach and education and training of professionalist in TF.

- The main questions for which the V th School has to give answers are
- which elements for future oriented attitude formation should be included in education programs for all students in high school and universities?
  - which elements of theory and the methodology of forecasting are for necessary to use forecasting in the decision making processes?

- which approach teaching form and methodology have to be used in education in forecasting of professionals?
- to which disciplinary group/division or specialisation is to include the lectures in forecasting of science and technology and which are the methodological consistencies?
- how is to organize the information flow between the education institutions and the administration and the corporations / for which are prepared professionalists / about his forecasting needs?

For further informations Dr L J Baworowski Forecasting Research Center Technical University of Wroclaw Wybrzeze Wyspianskiego 27 50 370 Wroclaw Poland

### **INTRODUCTION TO TECHNOLOGY FORECASTING**

Date 5 6 April 1979

Place Heaton Mount (England)

Sponsored Bradford University

#### *The Need*

Many technologies are still advancing rapidly but they are increasingly being influenced by trends in the social political and economic environments. When planning R & D all these influences must be taken into account in order to assess the relevance of new projects to the conditions of the future. There is a need to forecast. Many R & D managers are unaware of the techniques which have been developed for this purpose.

#### *Objectives*

- 1 To give an understanding of the concepts underlying technology forecasting
- 2 To describe the most useful techniques
- 3 To practice the application of the techniques through exercises

#### *Method*

The seminar will be based on lecture presentation discussions and examination of case material. Each participant will receive a copy of the book Forecasting Technology for Planning Decisions by Jones and Twiss (Macmillan 1978)

#### *Participants*

This seminar is designed for managers whose companies are considering (or have just started) the introduction of technology forecasting. It is particularly suited for managers new to these techniques. It is not for forecasters of considerable experience.

For further information Mr Brian C Twiss Course Director of Technology Management Programmes University of Bradford Management Centre Heaton Mount Keighley Road Bradford West Yorkshire BD9 4JU England

### **MANAGING TECHNOLOGICAL INNOVATION**

Place Bradford University (England)

Date 4 16 March 1979

Sponsored Bradford University

The importance of technological management was recognised from the start of the Bradford Post Experience Programme Conferences in Technological Forecasting (1968) and The Management of Technological Innovation (1969) were followed by a programme of one week course in the Management of Research and Development and Technological Forecasting. These have been attended by approximately 600 senior research managers. This two week course has been run annually since 1971.

#### *The Problem*

The impact of the technology on a wide range of business is growing rapidly. For many companies this is seen to offer exciting opportunities for the future but for others major threats to the individual companies or a whole industry can be identified.

In the current economic climate R & D budgets are being scrutinised closely. Yet most technologists would agree that the need for innovation has never been greater. Many business men would agree.

Much the apparent waste in R & D is the inevitable consequence of the uncertainties inseparable from innovation. But there is ample evidence to suggest there is considerable potential for improvement in the effectiveness of these scarce resources. This is a management not a technological problem. Thus we must search constantly for new methods to ensure greater business effectiveness of R & D expenditure without stifling creativity and the innovative spirit essential for success.

**PUBLICATIONS**

**ALTERNATIVES, A JOURNAL OF WORLD POLICY**

Vol IV No 2 — October 1978

Contents

- Oppression and human liberation towards a third world utopia (Ashis Nandy)
- The right to food how to guarantee (Cheryl Christensen)
- Alternative life styles (Ramashray Roy)
- Role of people in the future global order (Chadwick F Alger)
- Global apartheid (Gernot Kohler)
- The barrel of the gun ared the barrel of oil in North South equation (Ali A Mazrui)
- Korea as a world order issue (Yoshikazu Sakamoto)

For further information Alternatives 1140 Av of the Americas New York N Y 10036 USA

**ANTICIPATORY DEMOCRACY PEOPLE IN THE POLITICS OF THE FUTURE**

Edited by Clement Bezold with an introduction by Alvin Toffler Vintage Books 1978 405 pages

A collection of articles by leading futurists professional planners and futures oriented citizen involved in practical applications of A/D adressing issues ranging from housing and health care to ecology and technology

For further information World Future Society 4916 St Elmo Avenue Washington DC 20014 USA

**COPPER THE NEXT FIFTEEN YEARS**

*A United Nations Study*

With the price of copper still very much depressed the development of its future production is in doubt as many countries may ecounter problems in attracting the necessary funds The slump has arleady wreaked havoc with

the economies of the copper dependent countries like Zambia Zaire and Peru How will countries new to copper mining such as Panama Mexico and Iran fare? What of its future consumption? And how can policy makers assess the metal s future? This authoritative and analytical book contains data which is not otherwise available so succinctly and discusses questions of adequacy of resources problems of investment and policy issues relevant for the immediate and medium term development of the world copper industry In particular the book provides a clear overall picture of the copper industry describes current pricing procedures and marketing highlights prospect of future demand for various end uses taking into consideration the problem of substitution assess present reserves and potential resources in the context of their adequacy for future supplies evaluates present and future capacity specifies average and total investment costs illustrates recycling trends in secondary copper in the developed market economies and provides examples of policy responses necessary to cope with future problems Copper The Next Fifteen Years goes a long way in meeting the urgent demand by policy makers and planners both in the public and private sector to have available a careful analysis of the present situation and a reliable assessment of present and future trends

For further information D Reidel Publishing Company P O Box 17 3300AA Dordrecht Holland Lincoln Building 160 Old Derby Street Hingham Mass 02043 USA

**D + C Development and Cooperation**

A review published by DSE German Foundation for International Development

Contents

- Culture and development
- Environment and development
- Appropriate technology
- Cooperation with developing countries
- DSE Scope

For further information D + C Postfach 120518 D 5300 Bonn 12 Germany

**EPA JOURNAL REPRINT April 1978**

published by United States Environmental Protection Agency

*Contents*

- On the threshold of a New Environmental Era
- Think globally act locally
- Will we be remembered because of our wastes?
- The role of private conservation organizations

For further information United States Environmental Protection Agency  
Research Triangle Park NC 27711

**FUTURE RESEARCH PLANNING DECISION MAKING**

Proceedings of Conference held in Jablonna 1977 by WFSF and Poland 2000  
are available from Polska 2000 Palac Kultury i Nauki Warszawa 00 901

**HANDBOOK OF FUTURES RESEARCH**

Edited by Jib Fowles Greenwood Press 1978 822 pages

Forty six of the world's most prominent futurists including Arthur C Clarke  
Herman Kahn and Barry Commoner have contributed to this comprehensive  
collection of contemporary futures scholarship Comment «A remarkable  
book Invaluable as a reference tool and a gold mine for even the casual  
browser»

For further information World Future Society 4916 St Elmo Avenue  
Washington DC 20014 USA

**HEGEL'S PHILOSOPHY OF HISTORY Theological, Humanistic, and  
Scientific Elements**

Rudolf J Siebert Western Michigan University at Kalamazoo  
December 1978

The author describes and critically analyses Hegel's philosophy of history  
emphasizing three essential components theology humanism and social  
science Offering new insights into the modern personal social and religious

identity crises the author elucidates Hegel's unique synthesis of the positive  
scientific the humanistic philosophical the theological methodological and  
the substantive orientation of Western man  
The work will be of interest to college level students as well as scholars of  
philosophy and theology

For further information University Press of America 4710 Auth Place S E  
Washington DC 20023 USA

**IFDA DOSSIER March 1979**

*Contents*

- Bhoomi Sena A struggle for people's power (G V S de Silva N Mehta A  
Rahman P Wignaraja)
- Strategies of implementation of rural development programmes in India  
(T K Mouluk)
- Choix energetiques et choix de societe (Jean Charles Hourcade)
- The International Monetary Fund the international monetary system and  
the periphery (E A Brett)
- Gold the International Monetary Fund the Third World (Leelananda de  
Silva)
- Unity for a new order (Julius K Nyerere)
- Towards the New International Order through collective self reliance and a  
strategy of negotiation and confrontation (Chakravarthi Raghavan)
- Eradication of poverties (Carlos A Mallmann)
- Village industrialization as a key component in integrated rural  
development (Vivian Craddock Williams)
- A (Norwegian) grassroot view of the preparations for a new international  
development strategy (Grethe Vaerno)
- The World Bank (Joseph Collins and Frances Moore Lappe) with a  
comment by B A Jenny

For further information IFDA 2 place du Marche CH 1260 Nyon Switzerland

**INTERMEDIA — March 1979, Vol 7 No 2**

Published by IIC (International Institute of Communication)

*Among the contents*

- Iran Communication Alienation Revolution
- Canada's New Satellite

- Exploiting the resources of information
- A world information order
- Resource material
- Teaching Interactive Telecommunications

For further information Intermedia Tavistock House East Tavistock Square  
London WC 1H 9LG

### **INTERNATIONAL PEACE RESEARCH NEWSLETTER**

Vol XVII No 1 2 1979

#### *Contents*

- Song of Vasterhaninge
- Introduction and overview
- Seminar staff and facilities
- Eight unasked questions for UNCSTED
- Problems of transition to self reliant development
- The 1978 Seminar Overall report and summary of work
- Reports of the working groups
  - International transfer of arms and military technology
  - Food and nutrition policy
  - International division of labour

For further information International Peace Research Association P O  
Box 70 33101 Tampere 10 Finland

### **SOCIAL COMPASS, international review of socio religious studies Islam and Society**

#### *Contents*

- Introduction methodologique
- Official and Popular Religion in Islam
- Introduction a la sociologie religieuse d Ibn Khaldun
- Orientalism Islam and Capitalism
- Islam reformisme et nationalisme dans la resistance a la colonisation  
française en Algerie (1830 1930)
- De la theorie a la pratique des prescriptions de l Islam en Algerie  
contemporaine

- Religion and Social Protest in Indonesia
- Politics and Culture in the Middle East
- Some Sociological Aspects of the Muslim Revivalism in Sri Lanka
- Le culte de saints chez les musulmans au Nepal et en Inde du Nord

For further information Social Compass Place Montesquieu 1/21 1348  
Louvain la Neuve Belgique

### **LES CHOIX DIFFICILES (The difficult choices)**

Economica cultural social mounthly journal

#### *Among the contents*

- Islam and politics the context of Iranian revolution
- Dependance mechanisms
- Change is necessary but we must manage it
- Proposals for a level arabisation

For further information Les choix difficiles Loghnam Presse 27 Rue d Epinal  
Casablanca Morocco

### **NATURAL RESOURCES FORUM**

In the mid 70s the energy crisis stunned policy makers and world attention began to focus in earnest on alternative energy methods and the use of natural resources in general It became increasingly evident in industrial and academic research that a comprehensive journal on natural resources was lacking Even the most elementary data collection required a very tedious survey through volumes of books and journals

To fill this gap for policy makers and researchers *Natural Resources Forum* was launched in late 1976 on behalf of the United Nations by Reidel It is devoted to the study of economic scientific technological and policy aspects of energy minerals and water resources development Methods of increasing supply by exploration investment and new technologies are examined as are ways of reducing demand through conservation and substitutions The aims of the journal therefore are to acquaint policy makers with current problems of resources and energy development and to supply accurate and up to date information in a readable and comprehensive style



*Natural Resources Forum* is extremely valuable to those planning long term exploration of the mining of minerals and other energy materials and of water resources whether in government or industry. For the banking and commercial sectors the journal has particular appeal because it lays a strong foundation on the demand/consumption aspect. Finally it will prove of importance to the academic community in providing a larger perspective on the field of natural resources as a whole.

For further information: D. Reidel Publishing Company, P.O. Box 17, 3300AA Dordrecht, Holland; Lincoln Building, 160 Old Derby Street, Hingham, MA 02043, U.S.A.

### **PEACE, DEVELOPMENT AND NEW INTERNATIONAL ECONOMIC ORDER**

Proceedings of the 7th IPRA GENERAL CONFERENCE are available at the price of 12\$ each.

For further information: International Peace Research Association, P.O. Box 70, 33101 Tampere 10, Finland.

### **PRESENTE INQUIETO, AVVENIRE INCERTO** (in Italian)

by Gino Martinoli  
ed. I libri dell'Espresso, 1979.

#### *Contents*

- 1) Foreword
- 2) Embarrassing questions on an uncertain future
- 3) Demographic explosion
- 4) Food resources: today and tomorrow
- 5) Energy availabilities
- 6) Technology: great protagonist of the future
- 7) Technique and organisation
- 8) Uncertain future

### **PROBLEMS OF WORLD MODELING: POLITICAL AND SOCIAL IMPLICATIONS**

Edited by Karl W. Deutsch, Bruno Fritsch, Helio Jaguaribe, Andrei S. Markovits. Ballinger Publishing Co., 1977. 423 pages.

Whereas earlier world models have emphasized problems of world population, pollution, scarcity of food and raw materials, these papers presented at a conference of specialists in 1976 at Harvard University stress the effects of political and economic decisions and their social ramifications.

For further information: World Future Society, 4916 St. Elmo Avenue, Washington, DC 20014, USA.

### **THE DIMINISHING RETURNS OF TECHNOLOGY: An Essay on the Crisis in Economic Growth**

Orio Giarini and Henri Louberge, European Institute of Graduate Studies, Geneva University of Geneva, Switzerland. June 1978. 96 pages. \$15.00, L 7.50.

#### *Contents*

The Biography of this book: The Age of Uncertainty, Lessons from the History of Economic Growth, Technology and Production, Is Technological Innovation slowing down? The Decline in the overall Efficiency of Technology, problem of «Value Deducted», Concluding references, Historical and Political Aspects.

Readership & Level: Undergraduate and postgraduate students of economics, economic history, industrial development, planning and management.

For further information: Pergamon Press, Headington Hill Hall, Oxford OX3 0BW, England.

### **PUBLICATIONS IN ENGLISH BY SECRETARIAT FOR FUTURE STUDIES**

*Sweden in an International Economic Order*  
Presentation of the future study, January 1979.

#### *Energy and Climate*

English version of the report by Professor Bert Bolin within the future study «Energy and Society», November 1975.

*Sweden in the World Society*

English version of the programme for the future study on Sweden's role within the international system January 1976

*Energy in transition*

A report on energy policy and future options by Mans Lonnroth Peter Steen and Thomas B Johansson March 1977

*Challenge to Sweden*

Views about «Sweden in the world society» 1977

*Solar Sweden*

An outline to a renewable energy system By Thomas B Johansson and Peter Steen 1978

*Programme for Futures Studies in Sweden*

Presentation of the Secretariat for Future Studies February 1979

For further information the Secretariat for Future Studies Box 7502 S 103 92 Stockholm Sweden

**REPORTS PUBLISHED BY ISTITUTE FOR RESEARCH ON PUBLIC POLICY**

A monograph *Issues in Canadian/U S Transborder Computer Data Flows* edited by W E Cundiff and Mado Reid records the proceeding of a conference involving over sixty industry and government representatives. The event focussed on economic rather than privacy related issues with industry representatives expressing a strong concern over possible government regulatory action which could limit the relatively free flow which currently exists

Also of interest are two Istitute occasional papers *Computers in the Home — Waht They Can Do for Us — and to Us* by C C Gottlieb and *The Electronic Briefcase — the Office of the Future* by Robert Arnold Russel. The former examines progress in computing technology and the social and economic impacts in the event that computers become an ordinary device in the home. The author offers projection in five areas where considerable change could occur shopping mail education recreation and home maintenance

The second occasional paper depicts the developments in computerized word processing of the 1970s then goes on to forecast potential developments into the 1980s and 1990s claiming that the workplace will become greatly decentralized and widespread job displacement will result. Mr Russel believes that the fundamental issue involves a better understanding of the nature of

information in that it represents a new form of wealth which must be properly managed and nurtured just as material wealth has dictated in industrial society

For further information Istitute for Research on Public Policy 3535 Chemin Queen Mary Bureau 514 Montreal H3V IH8

**THE KEY TO COMPETITIVENESS IN THE APPLICATION OF HIGH TECHNOLOGY BASED ON MICROELECTRONICS**

Canada will have to exploit high technology based on microelectronics including computer aided design and manufacturing technique to regain competitiveness in world markets

That is one of the conclusions of a study on the impact of the microelectronics industry in Canada just released by the Istitute for Research on Public Policy. Author of the publication J Michael McLean an associate of the Istitute and editor of the *Electronics Times* presents a detailed examination of the microelectronics revolution and its potential for transforming practically every sector of our economy

The study points to serious policy decisions which will have to be made regarding job and wole industry trade offs in the development of the microelectronics industry in Canada

«Massive redeployment of workers from paperworks based to technically base jobs must occur with major social consequences»

«While some trades will inevitably be lost to new microelectronics technology the basic choice facing Canada is between losing them to Canadian technology which will create new opportunities for Canadians or losing them to imported technology» said McLean

Underlining the findings of the Task Force on the Canadian Electronics Industry McLean agrees that key sectors of the Canadian economy must keep up with their counterparts internationally in the use of microelectronics or risk becoming even more uncompetitive globally. The problems of generating growth and increasing levels of employment will be more severe than they are today if Canada does not embrace this technological revolution wholeheartedly

According to McLean government must play a key role «to tame and control this revolution with strong political initiative and leadership and long term decision making which takes into account economic technological industrial and socio political factors»

While it will not be easy McLean believes it is imperative for the Canadian government to generate a satisfactory socio economic climate for the manufac

ture exploitation and application of microelectronic technology  
«The present lack of initiative» says McLean «can only be regarded with apprehension»

For further information J. Michael McLean Institute for Research on Public Policy Montreal Canada

**TRANSNATIONAL PERSPECTIVES, Vol 4 N 4, 1978 an International Journal of Federalism and World Affairs**

Contents

Peaceful Settlement of Conflicts European Wide Efforts Herbert von Arx

The Conference on Security and Cooperation in Europe and Peaceful Settlement of International Disputes Max Habicht

Assessment of the UN Special Session on Disarmament William Epstein

For further information Transnational Perspectives Case Postale 161 1211 Geneva 16 Switzerland

**UNESCO FEATURES BULLETIN**

**Among the contents in the last issues**

- The soviet part in the world biosphere reserve network Vladimir Sokolov
- Repetek protecting desert ecosystems
- How the auroch was saved Igor P. Sosnovsky
- Conquering the desert from the Nile to the Atlantic Mohammed El Kassas
- A Canadian who helps to improve the climate for science an interview with Fernand Seguin Kalinga Prizewinner
- Apartheid the new face of barbarism Amadou Mahtar M Bow
- What nuclear war means a timely warning Frank Barnaby
- Ernesto Sabato talks about reason dream and the novel cuban artist creates UNESCO poster for year of the child keying educational innovation to African conditions Robert Mathias

For further information United Nations Educational Scientific and Cultural Organization 7 place de Fontenoy 75700 Paris

**WORLDWATCH PAPER 26**

Planting the Future Forestry for Human Needs February 1979

Contents

- Forest and Human Needs
- World Forestry Trends
- The Sources of Deforestation
- The Price of Inaction
- Forests By the People For the People
- Community Forestry Successes China and South Korea
- Gaining Ground in Gujarat
- Notes

For further information Worldwatch Institute 1776 Massachusetts Avenue N.W. Washington D.C. 20036 (USA)

**BILL BOARD**

**MEMBERS OF WORLD FUTURE STUDIES FEDERATION DIVIDED BY COUNTRIES**

**AFRICA**

|            |    |
|------------|----|
| ✓ Congo    | 1  |
| ✓ Egypt    | 4  |
| ✓ Ethiopia | 1  |
| ✓ Jordan   | 1  |
| ✓ Kenya    | 2  |
| ✓ Morocco  | 7  |
| ✓ Nigeria  | 1  |
| ✓ Syria    | 1  |
| ✓ Tanzania | 2  |
| ✓ Zairi    | 2  |
| <hr/>      |    |
|            | 23 |

**ASIA**

|             |    |
|-------------|----|
| ✓ India     | 10 |
| ✓ Indonesia | 2  |
| ✓ Israel    | 5  |
| ✓ Japan     | 5  |
| ✓ Kuwait    | 2  |
| ✓ Sri Lanka | 1  |
| <hr/>       |    |
|             | 26 |

**EUROPE**

|                  |    |
|------------------|----|
| ✓ Austria        | 6  |
| ✓ Belgium        | 7  |
| ✓ Bulgaria       | 1  |
| ✓ Cecoslovacchia | 2  |
| ✓ Denmark        | 2  |
| ✓ England        | 15 |
| <hr/>            |    |
|                  | 33 |

|               |     |
|---------------|-----|
| ✓ France      | 26  |
| ✓ Germany     | 15  |
| ✓ Hungary     | 4   |
| ✓ Italy       | 32  |
| ✓ Norway      | 3   |
| ✓ Poland      | 8   |
| ✓ Portugal    | 1   |
| ✓ Romania     | 5   |
| ✓ Spain       | 5   |
| ✓ Sweden      | 3   |
| ✓ Switzerland | 8   |
| ✓ Netherlands | 8   |
| ✓ USSR        | 1   |
| ✓ Yugoslavia  | 12  |
| <hr/>         |     |
|               | 121 |

**LATIN AMERICA**

|             |    |
|-------------|----|
| ✓ Argentina | 1  |
| ✓ Brasil    | 1  |
| ✓ Chile     | 1  |
| ✓ Colombia  | 1  |
| ✓ Mexico    | 5  |
| ✓ Venezuela | 1  |
| <hr/>       |    |
|             | 10 |

**NORTH AMERICA**

|        |    |
|--------|----|
| Canada | 18 |
| Hawaii | 1  |
| U S A  | 51 |
| <hr/>  |    |
|        | 70 |

38