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NEWSLETTER

WFSF Membership Directory 1992
Individual Members
Institutional Members



EDITORIAL

Here is the Directory for the year 1992! I hope that your contact information in it is as you wanted it to be

We all need information in various ways about our colleagues in the futures field – and it is most vital to the Secretariat, of course. Otherwise our contacts and networking would be impossible. There would be no WFSF without correct, updated information about you. I would say that updating this information is the first minimum membership duty, wouldn't you agree! Even paying the fees comes second. Saying this is giving thanks to you for your good cooperation, as ever

The dear Council members are requested, however, to send more detailed personal information once they have been elected or re-elected. The statutes of WFSF under the maintaining French law commands us to deliver information on Council members to the French authorities in due time after the election or re-election. We owe a big thank you to FUTURIBLES for their expert service to us in that duty. Only we ourselves encountered delays in delivering the information to Futuribles and this caused unnecessary work to everybody. It might be better to collect the needed information already from the Council member candidates before the election takes place.

Next I would like to recall your attention to the proposal made by KAORY YAMAKUCHI in Barcelona. I support it, and hope that we can find a way to make it our practice.

His proposal was that the Directory would give us more information about each member than what it does now. His view of WFSF was that the Federation is a 'market place' where 'producers' and 'consumers' may meet and start cooperative activities. To make that happen, market information is needed to be disseminated for everyone's choices and "transactions".

In his e-mail message, Kaoru is offering us an example of his own disseminated market information as follows:

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The idea is excellent, and not too difficult nor demanding to any of us, is it? Please give your opinion, and, if possible, make your own pilot entrance to "the markets of WFSF" We will let you know how this will work

We have to tell you that the 'IUC Dubrovnik' -based course of futures studies which was planned to be held somewhere else in Europe this year, will not take place We will hold it again sometime in the future ELEONORA MASINI tells that even though the beautiful old building of the IUC was hit by a bomb and burned down, Inter University Centre will have some of its courses elsewhere in Dubrovnik again this year with the help of the towns people Our wholehearted blessings and good wishes to the IUC We will come along when possible As Eleonora put it, Dubrovnik has very special symbolic value as the place where intercultural and interdisciplinary futures courses were initiated in 1975

Because of that sad news, the greater the value and meaning of our new course in Bangkok this summer The Asia-Pacific course "Futures of Development Historical Roots, Present Trends and Alternative Futures", organized by TONY STEVENSON and TERUSHI TOMITA, to be held on 23-30 August More information in the First Announcement and in the ad in this issue - if you want to participate, please act immediately

The regional conference in Islamabad, Pakistan, planned and organized by Dr IKRAM AZAM, is another event of WFSF's in Asia this year I hope that we can meet there with as many members as possible in October It is really an important and discrete door opening to the futures problematic Please learn more from the Announcement which was mailed to you earlier, and from the ad in this issue

There are also advertisements of other events, too, in this issue worth consulting

The draft of the First Announcement of the XIII World Conference in Finland in 1993 has been circulating among the members of the International Committee for comments and it will be sent out any day now for your information, for reserving the time in your 1993 summer calendar and for preparing your contribution The discussion about its theme continues in this issue, I hope you'll join it

I wish you happiness and strong spirit for the future

Pentti Malaska

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Asia-Pacific Futures Course

**Futures of Development Historical Roots, Present Trends
and Alternative Futures**

Date 23-30 August 1992
Venue Asian Institute of Technology (AIT)
Bangkok Thailand

All interested people particularly postgraduate students are invited to attend especially those from the Asia-Pacific Region including the developing countries, notwithstanding their professional or cultural background or their age and status

Development theory and practices are largely a result of 19th Century social thought particularly Spencer's Social Darwinism. But instead of progress and evolution generally we have focussed primarily on economic development and economic growth. Marx added the important component of class and equity but maintained that model.

A futures orientation towards development might also ask: What is next? What do we want next? Assuming that the ecological movement, the peace movement and the spiritual movements bring a change to development theory and practice, what might development then look like? And what might development look like once contradictions in these models become pervasive?

The other present emerging tension is between global and local models (with national models having been thrown out). What new global models are emerging? What new local models? What new cultures will there be in the future - global and local?

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NEW MEMBERS

Individual members

JAMES FRANCIS DUNCAN is presently Chair of New Zealand Futures Trust, Wellington, New Zealand. Former Chair of N2 Government Commission for the Future, and a member of National Development Council, Mr Duncan has done research in problems dealing with population, immigration, and development of new mathematical forecasting techniques.

Currently, he is planning a research project on further development of techniques, and another in transport. His other fields of interest include chemistry, farming, and applications of technology.

RUUD PLEUNE has a Masters degree in meteorology. He is studying for a PhD with Utrecht University, the Netherlands and participating with an international project on social learning in the management of global environment risks. In the project, a historical analysis is made on the way that societies reacted to three global environmental problems: acid rain, ozone depletion, and climate change. Through this analysis, recommendations on the problems will arise. Mr Pleune's work deals with energy planning and the environment.

BRAJ MOHAN SINHA is Editor of the Hindustan Times Evening News, New Delhi, India, presently on a two-year study leave. He has published a number of articles on various futures lines in important newspapers and magazines both in India and in other countries. Mr Sinha has also written some books dealing with the future of India, the latest called *'India Faces Shudra Revolution'*. Presently Mr Sinha is working on a research project to produce a book on the future relationship between the Indian Parliament and the Press. After that he is to start up a project on examining the social change in Southern Asia in the next few years. In addition, he is deeply interested in the Indian spiritual sciences which help understand the future as unfolding itself in the life of both individuals and countries.

Institutional member

FUTURES STUDIES GROUP OF THE OFFICE OF STRATEGIC PLANNING & ENVIRONMENTAL DATA, EPA (United States Environmental Protection Agency). Acting Head David Rejeski, President. The futures staff with the Office works on identifying and examining possible futures and exploring the environmental impacts and implications of these futures, characterizing the poli-

cy options associated with alternative futures, identifying variables which are precursors or early warning indicators of change, and developing a computer-based information system to track, analyze, and disseminate information on such indicators, as well as communicating critical information about the future to policy-makers, planners, and the public.

The futures activities of the group include developing a "blueprint" (gener-

al institutional model" for using forecasting and scenario analysis to support EPA's strategic planning, conducting scenario analyses to develop alternative futures, identifying and utilizing the broadest possible group of forward-thinking experts in both the public and private sectors to support EPA's futures function, and ensuring the widest possible access to all information collected and synthesized to support futures activities. ◊

International Health Futures Network

of strategic policy-makers and health futurists
has been established in 1991

The goal of the organization is to get the growing number of 'health futurists' together to find answers to: What will 21st Century Health Care be like? Efforts will be made by network members to add health futures discussions to various conferences.

The Steering Committee of Future Health Scenarios (STG) will also publish a quarterly newsletter which will be mailed to all network members and serve as a center for spreading information on health futures studies and their use in various health care systems.

More information

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NEWS, INVITATIONS AND MEETINGS

THE KNOWLEDGE BASE OF FUTURES STUDIES - WORKING OUTLINE

Rick Slaughter

Rick Slaughter is working on a special issue of FUTURES on the knowledge base of futures studies. For information, and in order for anyone interested wanting to be considered as a contributor, he writes the following

Since futures studies is an interdisciplinary area or field of knowledge/research/action which intersects with many others, there is some uncertainty about what constitutes its core, or its knowledge base. This arguably interferes with its ability to develop and find its own particular niche(s) in the wider field of accepted knowledge.

This special issue will attempt to provide an overview of aspects of that base or core from the viewpoints of several informed and experienced contributors. It will not assume that this core is static or unproblematic in some respects. But it will demonstrate that there is indeed a core, made up of several distinct dimensions.

Such an exercise is valuable for several purposes including

- defining the strengths and resources available in the area,
- identifying a core to teach with / from about futures,
- easing the induction of newcomers into the field,

- placing individual scholarship and research work in a more clearly defined, common context,
- presenting a clearer and more consistent picture to external constituencies (for funding, legitimization, etc.)

Aspects of the Knowledge Base

- 1 Concepts and Language
- 2 Theories and Ideas
- 3 Literature and People
- 4 Organizations
- 5 Methods, Tools and Practices
- 6 Social Innovations and Movements

Obviously there is some overlap in the above, but that is not necessarily a bad thing. Since each paper will be written by a different individual, the overall intention is to have a number of informed views of the core which will certainly intersect at various points. The core will be characterized both by these points of overlap, as well as by authoritative accounts of the various subject matters. The categories as given are provisional at this stage; they can be changed, added to or deleted. Please feel free to comment on the overall scheme.

The Process

This outline is being circulated to a number of people, most of whom could write one or more sections. What I would ask is that each person fills in up to three names for each section, including their own, where relevant. I am enclosing a separate sheet for the purpose which should be returned to me at this university as soon as possible.

I would like to identify potential authors of chapters by Easter of 1992 at the latest so that there is time to

research, write, and polish each paper. The result could well be a useful and up-to-date review of the 'territory' associated with futures.

I hope you will be able to help.

Rick Slaughter

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The Knowledge Base of Futures Studies

Please fill in the names of *three* prominent futures people (and their contact addresses) who you consider to be well qualified to write a 5 000-6 000 word paper on one of the following aspects of the futures field.

- 1 Concepts and Language
- 2 Theories and Ideas
- 3 Literature
- 4 Organizations
- 5 Methods, Tools and Practices
- 6 Social Innovations and Movements

Please return to Rick Slaughter
Institute of Education University of Melbourne Parkville 3052 Victoria Australia

NEW RUSSIAN FUTURES CENTER ESTABLISHED

Igor Bestuzhev-Lada sent a letter telling us of the newly founded Russian Futures Center

'According to decisions of the WFSF Ececutive Council meeting in Barcelona 21 09 1991 (Minutes', § 5, WFSF Newsletter, vol 17, No 4, p 17) the Soviet Future Research Center at Moscow under USSR Union of scientists & engineers societies is re-organized as the All Russian Future Research Center (Moscow) - one of the research groups on futures studies in the European countries proposed by WFSF Ececutive Council

At the same meeting of 04 11 1991 there was organized All Russian Association for Co-Operation with WFSF

"We look forward to contacts with other centers and associations

Yours sincerely,

Igor Bestuzhev-Lada

All Russian Future Research Center (Moscow), Director
All Russian Association for Co-Operation with WFSF, President

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Swedish Symposium on Global Communication

The Swedish Institute for Futures Studies will arrange a *Symposium on Global Communication Technical Development and Humanity's New World View* in cooperation with the Sweden Post. The Symposium will take place 6-7 May 1992 in Stockholm. Among several eminent speakers there will be Daniel Bell from Harvard University, Michael L. Dertouzos from Massachusetts Institute of Technology, Sir Peter Abeles, founder of TNT, and John Casti from Technical University of Vienna and Santa Fe.

The symposium will alternate between solid practical experience and new theories. The occasion will cover aspects from multimedia, consumer-supported design and service management to the latest research findings on human consciousness and social needs.

More information

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CONTACT 9th meeting

**March 6-8, Holiday Inn Palo Alto/
Stanford, 625 El Camino Real, Palo Alto, CA, 94301**

Anthropologists, space scientists, futurists, science-fiction writers and artists participate in symposia, simulations and proseminar workshops addressing the human future.

Participants: newcomers will include writers Orson Scott Card and Greg Benford. Veterans include NASA's Yvonne Clearwater, psychologist Al Harrison, anthropologists Doug Raybeck, Bob Tytzer and Mischa Adams, futurist Allen Tough, philosopher Dennis Rohatyn and space lawyer Uncle Chuck Stovitz.

There will be an art gallery organized by NASA artist Carter Emmart. We're also reinstating a Saturday evening banquet honoring CONTACT veterans and welcoming new friends with a report and slide presentation. The meal ticket (about \$20) also includes a performance of *Button Willow*, an original science fiction musical written by singer/songwriter James Lee Stanley and premiered for CONTACT.

1 THE SYMPOSIA: paper sessions, interdisciplinary forums in which scientists, writers and artists present professional papers that support the serious goals of CONTACT. Three symposia based on research at NASA/Ames: Chris McKay coordinating a paper session on exobiology and terraforming; Michael Sims on robotics and artificial intelligence; Carol Stoker on virtual reality and education by Reed Riner and Don Scott. Artist Joel Hagen will put together a session on computer graphics.

2 THE BATESON PROJECT: A seminar of invited experts addresses a selected topic of academic and public interest relating to our future on earth or in space. This year's Bateson Project will give us our first entirely remote (i.e. communication-only) contact scenario.

3 CULTURES OF THE IMAGINATION: Participants design an integrated world, alien life form and culture, and simulate contact.

4 PROSEMINAR WORKSHOPS: Educational mini-courses directed by professionals provide theoretical background and hands-on experience for the audience in various subjects. These highly successful and limited-registration workshops present an opportunity to explore favorite topics or new teaching techniques.

More information

Jim Funaro
603 Riverview Dr., Capitola, CA 95010 USA

Registration

Pre-registration is \$45 until February 1st, \$70 at the door (Student rates \$25 and \$40). Make your check out to CONTACT and mail it to CONTACT, Department of Anthropology, Cabrillo College, 6500 Soquel Drive, Aptos, CA 95003.

Room reservation

Call 800/HOLIDAY or 415/328-2800. Mention CONTACT.

POST-POSTMODERNIST CULTURES

The Gallatin Review seeks articles for an upcoming issue

The Gallatin Division, an interdisciplinary component of New York University, publishes *the Gallatin Review* as part of its cultural and academic mission. *The Gallatin Review's* aim is to provide a forum for the exchange of analyses of cultural history in all its aspects, especially those traditions, structures, and trends that are, or should be, of great present concern. *The Gallatin Review* includes articles that use components of the past to explore the aetiology of and directions being taken by the present, without a restriction to specialized academic approaches.

The topic

The topic of the future-oriented issue to be published in September can be described as follows. Based on analysis of the past, recent and/or distant, and of the current cultural scene in any respects that seem appropriate, contributors are asked to address what may be the major characteristics of the next large-scale cultural period – that period which will succeed our postmodernist age. What should be the characteristics of this post-postmodernist mode be? Where in our current surroundings can we discern the traces of the predominant cultural modes of our proximate fu-

ture? *The Gallatin Review* is seeking submissions from writers whose interests are also focused on broader issues, namely, on the possible and/or recommended future of general culture – the overall system of beliefs and values, as they might show up in the whole breadth of culture – something more than a list of specific technological or social predictions.

The deadline for submission is May 31, 1992 for publication in October 1992. Submissions should be up to 2,000 to 4,000 words in length, conform to the *Chicago Manual of Style*, and, if possible, submitted on disk in either DOS or Macintosh word-processing format along with a printed copy of the article.

Address

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ENVIRONMENT, ECONOMIC DEVELOPMENT, DISARMAMENT

Inauguration of Project Global 2000

Project Global 2000, a worldwide citizens movement, was officially launched on October 25th, 1991, in Vienna. More than 200 governmental officials, diplomats, scholars, business and religious leaders, and other representatives from 25 countries participated in the conference sessions.

WFSF has joined with 19 other international nongovernmental and intergovernmental organizations to create *Project Global 2000*. They have agreed to work as partners to develop a decade-long program to raise the level of public demand for effective, democratically-based policies and systems related to three central global security issues – the environment, economic development, and disarmament.

The Project's inaugural meeting was part of a week-long international conference entitled *'Breakthrough to a New World Order'* that featured symposia and workshops on questions that are highlighted in *Project Global 2000's* framework paper. The paper provides a conceptual context for understanding and responding to the new challenges of global interdependence. It emphasizes the inextricable connection between ecology and economic development and provides a framework for developing a new understanding of security and sover-

eignty based upon a new global ethic and effective international law.

Emphasizing the importance of broad, international participation in arriving at solutions to today's problems, Ambassador Douglas Roche, the Project's international chairperson, reminded the participants that *'all nations are developing, no nation, ideology, culture, religion or economic or political model has produced final answers, all have something to contribute in shaping our common future'*.

During the Project's organizational meeting, working groups were created to establish program councils to generate the involvement of five key sectors – Education, Religion, Business, Health, and Communications. Preliminary plans were also discussed for creating Committees on Youth, Women, and World Order.

The next major step in implementing *Project Global 2000* will be regional conferences to be held following the June 1992 Earth Summit in Brazil. The North American Conference will be in Toronto and the European in Vienna in the fall of 1992. The conferences in Asia, Latin America, Africa, and the Middle East are projected for the first half of 1993. Teams from participating countries will gather at these regional conferences for orientation and to plan for their respective national programs.

THE FUTURE OF DEMOCRACY IN THE DEVELOPING WORLD

From the 1st Announcement of The Asian Regional Conference in Islamabad, Pakistan in October, 1992

The PFI feels proudly privileged in all humility to announce that the WFSF has provided it the prized opportunity to organize the First WFSF - PFI Asian Regional International Conference on *The Future of Democracy in the Developing World*.

Thus, Insha-Allah, Pakistan has been placed on the map of Global Futuristics. The WFSF dates back to 26th May 1973, since when it has sponsored 12 Global and several Regional Conferences. Those already familiar with such conferences, know that both kinds are international in ambience and participation. Their difference lies in theme and attendance, the global ones being generally larger in size and universal in their thesis.

It is hoped that about/over 120 persons will participate in the conference now being announced - 60 international and 60 local. The necessary details are given in the Conference Working Paper. Since most of the local and many international participants have already been earmarked, competition for the remaining (international) participants is likely to be fierce. In case this number is crossed, every effort will be made to accommodate as many additional applicants as possible. But that would call for an immediate response to this announcement from those who are interested in attending/participating in the conference. The WFSF-PFI members and friends

are, therefore, requested to respond to this call at their earliest possible opportunity - certainly within a month of its receipt. We look forward to hearing from them soon.

Ross Mahmood Husain and Dr Ikram Azam

• • •

According to the First Announcement, the mission of the Conference is to critically evaluate, through creative dialogue and discussion, the Future of Democracy in the Developing World. The goals are to raise consciousness, to create viable visions and scenarios, to present possible alternative strategies, to develop democratic visions from alternative civilizational perspectives, to assess the existing practice(s) of Democracy, and to evolve local/regional Paradigms/Models of Democracy.

The main sub-themes are

- 1 The Future of Democratic Theory and Practice in the West - including Eastern Europe and Russia
- 2 The Future of Democracy in the Third World, including China and the SAARC Region
- 3 The Future of Democracy in the Muslim World, the ECO Region and the Central Asian Republics
- 4 The Future of Democracy in Pakistan
- 5 Overall Alternative Visions of the Future



The Future of Democracy in the Developing World

Islamabad, Pakistan
Saturday 24th October - Tuesday 27th October, 1992

Organizers WFSF in cooperation with The Pakistan Futuristics Foundation and Institute

The Conference International Organizing Committee

Jim Dator, President
Eleonora Masini Uvais Ahamed, Pentti Malaska Ashis Nandy Sohail Inayatullah Mesbah-us-Saleheen
Dr Raja Ikram Azam Secretary General/Coordinator

Sponsors

The Ministry of Education
Government of Pakistan, Islamabad

Papers

The papers with their summaries must reach the PFI by 30th June 1992. Selected papers will hopefully be published in a book.

Registration

Fees USD110

More information

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COHERENCE AND CHAOS

CONTRIBUTIONS FOR DISCUSSION

Pentti Malaska

The Conference on Chaos hopefully won't be in chaos, as MICHAEL MARIEN'S warning might mean. In his letter to JIM DATOR of January 24, he writes

This leads to the theme of the 1993 Finland meeting on Coherence and chaos. As described by Pentti (pp63-64), I find it rather boring and worry that it might turn off others and thus lead to lowered WFSF participation. If the conference is to be seriously structured around this theme, I think that the implications for futures-thinking must be made clear: how could chaos make an important difference in shaping futures? You should also cite relevant literature, such as the recent article in the Jan-Feb 1991 Futures, and the enclosed from the Nov-Dec 1991 Utne Reader. So chaos 'challenges the reductionist viewpoint'. Big deal: reductionism has been 'challenged' for years of systems, futures, Gaia theory, etc. and nothing changes because of infogulf and fragmentation. From what I have read so far, I for one am not turned on by 'chaos'. If this is true for others, you got problems buddy."

We have also another contribution from SAMIR K. GHOSH for our learning

'Prof Pentti Malaska's proposal to hold a conference on the above topic is very welcome. It is time that the WFSF should prove its identity by holding meetings on serious topics and/or sponsoring researchers on subjects that will contribute to the world of thinking that affects our future - man's future

"Malaska is also right in stating that 'the exact meanings of the elementary concepts related to the topic are of quite recent origin / if he is not aware of the long tradition in the Indian philosophical thinking of *sristi* (creation), *sthiti* (existence-status quo), and *pralaya* (destruction-devastation) which dance in a circle and simultaneously is a time-encompassing treatise. SKG/ The subject's history begins in 19th century thermodynamics and Poincaré's bifurcation theory in mathematics, and from the works of Gaston Julia and Pierre Fatou at the beginning of this century'. Yes and no. One has to

look also for the controversy surrounding the Brownian particle. Moreover, in this century classicism in science has had to be abandoned or modified in a large number of areas. One of the key insights of quantum mechanics, for example, is that, at the sub-atomic level, it is meaningless to employ the old idea of objectivity (classicism). What you see is not the 'real' world, but a version of that world created by an interaction of yourself and your experimental apparatus

"Nobel Laureate Prof Ilya Prigogine, who almost commutes between Bruxelles and Austin, Texas, and goes to a number of places to lecture, - his ideas should not have remained unknown among the scholars. I think, we should discuss his views and contribution at the WFSF conference. 'Classical science, which started with the 'Newtonian paradigm', writes Prigogine in his introduction (1985), 'was centered around the idea of deterministic and time-reversible law. In this context, the world was seen as a vast automaton, man appeared being outside nature, as a free agent in a mechanical universe, able to manipulate and exploit his environment. Our conception of nature is undergoing a radical change towards the multiple, the temporal, the complex. A new paradigm is taking shape. It is now understood that the behavior of matter under non-equilibrium conditions can be radically different from its behavior at, or near equilibrium, and it is precisely this difference that introduces multiple choice, self-organization, complex dynamics'.

"I would like also to bring to your attention a very significant work, by Paul Feyerabend (1975), very helpful in understanding the phenomena of

chaos and order - but at times confusing. Mention must also be made to two recent writings - an article (1990) and a book (1990), and one of my colleagues here (Dr Miss Anita Bose) worked on the problems of chaos and order in management of industries. Although I do not have an access to the Laszlo volume (I would love to have a copy), I am familiar with his works and he should be invited to your conference."

Reference/Readings

Feyerabend Paul *Against Method* - outline of an anarchist theory of knowledge London Verso 1986 6th edition
Hayles N R *Chaos Bound: orderly disorder in contemporary literature and science* Ithaca Cornell University Press 1990
Kuper Adam *Coming of age in anthropology?* *Nature* 6 453 55 1990
Prigogine Ilya and Isabelle Stengers *Order out of Chaos: man's new dialogue with nature* New York Bantam Books 1984
Prigogine Ilya and Michele Sangher (eds) *Laws of Nature and Human Conduct: specificities and unifying themes* Bruxelles CORD-ES 1980 (Proceedings of the discoveries symposium 1985 pp 360)
See also Lakatos Imre and A E Musgrave *Criticism and Growth of Knowledge* Cambridge University Press 1970

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These two contributions give us a good kick forward in the discussion, thank Michael and Samir for them. Please continue sending reflections on the conference theme - you need not necessarily refer to these but rather to state your own view. While waiting for your words, I will try to consider further the comments by Michael and Samir.

I may well agree that my statement was boring, as Michael so nicely put it. But that's not the point. The point is that the three scientific fields which I see as the most important



Coherence and Chaos in Our Uncommon Futures

- Visions, Means, Actions

The XIII WFSF World Conference

will be arranged in Turku, Finland, from August 23-27, 1993, together with the Finnish Society for Futures Studies (FSFS).

A telematic pre-conference will begin already in 1992 and it will work by an electronic mail system specially organized for the Conference.

The first announcement with more specific details will be mailed to the members in a few weeks.

More information.

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sources of chaos thinking were presented and referred to. I repeat them: The Bifurcation Theory in mathematics (the theory of systems with variant structures, one of them called *chaos* or a *strange attractor*), secondly, the Theory of the Far from Equilibrium States in Thermodynamics (à la Prigogine et al.), and the Evolutionary Theory of Emergent States (my term).

It is a common and creative way to derive by analogy new interpretations from an exact conceptual system for other subject fields, like for transformation of societies or cultures, etc. I think that these interpretations are real issues which are of the greatest interest to us and will provoke interesting contributions to the conference. How to learn more about them? Samir gave us some books to consult, and I would like to call your attention to the book *Evolution, The Grand Synthesis* by Ervin Laszlo for a start.

Samir's observation on ancient wisdom in India, and perhaps elsewhere, too, about chaos as the natural order of things is important to recognize. I recall that in these sources the substance of chaos may well have been known long before it was recognized by Western sciences. Someone else might know more about it.

SAM COLE has mailed us a few articles on chaos and a list of about 200 recently published books and articles on the subject. If you are interested in the list, please let me know and I'll mail you a copy.

Chaos is not the same as disorder nor a synonym to it. Chaos is an op-

posite of disorder. It is a structured order of a special kind, having still internal energy (exergy) available for transforming the system yet into another kind, perhaps better order. If, however, its exergy is totally dissipated, the state of symmetric, random disorder follows suit. So disorder, death, is an inherent alternative built in chaos.

T. J. Cartwright gives a clear description of chaos in his article *Planning and Chaos Theory*, which was published in the Journal of the American Planning Association (Vol. 54, No. 1, Winter 1991).

"The basic idea of chaos theory is unsettling. In simple terms, chaos is order without predictability. That is, there are systems, physical and social, that are well understood (in the sense that they can be fully described by means of a finite set of conditions or rules) and yet are fundamentally unpredictable."

"Thus, chaos is not anarchy or randomness. Chaos is order, but it is order that is 'invisible'."

Think of the analogy of what is happening now in the ex-Soviet Union or Russia. They are in chaos for sure, but not yet in total disorder. If they one day become disordered, they will be unable to create any new order by themselves, but only call for external help. Let's hope that they can change their chaos to a new, better order instead. Let's wish them fresh exergy and self-organization.

Join our brain hypercycle with your own contribution!

Pentti



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