Dear Readers!

The first month of 1997 proved to be quite exciting for me. I was one of the founding members of the Austrian Society for Computer History and we started immediately to collect artefacts and documents. Which meant that the IFSR Newletter had to wait and thus got delayed. Nevertheless I include a long Calendar of Eventes. Most of the actual text of the call for papers etc. will appear in the next is sue, which I promise to be out soon. Sometimes 8 pages are really not enough! But, please, keep on sending me these pieces of information. It is a very simple way for you to get attention in the systems world..

I have opened a new column: Challenging Thoughts - send me also short contributions on new and fascinateing ideas. I will provide a forum for them - and we might even get a bit of discussion going. The topic of 'aura' has now been taken up by Ernesto Grün. Perhaps there is another 'Aura'-story around?

Yours sincerely

Gerhard Chroust

JOIN IFSR'S COMMITTEES!

In earlier Newsletters as well in direct communications the Executive Committee shared with you a plan to establish several working committees that will serve the advancement of the purposes and the program of the Federation. Several member organizations already expressed interest in the development of the committees and nominated members to participate in the work. On page 6 we present to you a first draft of the committee formulation. We invite our member organizations to make nominations for membership. (we need name, postal and e-mail-address). You may also share with us ideas about the establishment of other working committees.

For some of the committees we have already indicated people who begin the organization of the work. It will be the initial task of the committees to self-organize, formulate their purposes and the functions, and define who does what. Please send the information to Gerhard Chroust.

Bela H. Banathy

SYSTEMS THINKING

CAN SYSTEMS THINKING ENGENDER ETHICAL BEHAVIOUR?

Cecilia Tagliaferri
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Via Pontevecchio, 16
40139 Bologna (Italy)

Systems thinking means to look at the world searching for systems, to enlarge perception of the context, to clarify the comprehension of complex and integrated dynamics. But, we wonder, does this expanded perception, this deeper and more effective comprehension of causality lead itself to a greater reciprocal respect and to more ethical behaviours?

Feedback loops, systems concepts and arche-types can somehow help us to perceive the nonseparation which lies behind individualities. It can be said that this deeper comprehension has two components: a *behavioural* component and a *spiritual* one. The two elements normally coexist and merge at different degrees at any moment. Depending on the dominant component, systems thinking can sustain different kinds of human interactions tending to manipulation or participation (see table).

Manipulation	Participation
• Object: to reach one's goal	• Object: to reach one's goal

• Profit needs care of global needs	• Goal is function of people well-being
• Global improvement is function of one's own gain	• Profit too is needed to fulfil global needs
• Emphasis is put on systems mechanisms (behaviour)	• One's own gain is function of global improvement
• Competition prevails over co-operation	• Emphasis is put on systems insight (vision, design)
	• Co-operation prevails over competition

What is the difference between the two contexts (manipulation and participation)? Assuming that life is the self parting from the universe, we could say that life itself is *egotism*. Thus wishes always express a tendency of the self to bring the whole together again. There are two ways to do that:

- to join the self with the other (to *participate*)

- to join the other with the self (to *control* and *manipulate)*

This original *quality of wish* makes the difference between a manipulation and a participation context. The difference among approaches to human activity systems have a spiritual genesis.

If systems thinking can amplify the perception of the context, it is the self that draws the borders of such context. The reference horizon corresponds to the self expansion level and determines the breadth of the vision that guides actions.

Through a spiritual path of development the self can expand along the dimensions of time and space. On the space dimension a very narrow (egotistic) self will consider a space corresponding to its own body and to directly connected vital spaces (house, office, etc.). Expanding the boundaries of the self, individual self-care reaches the nearest persons like a partner and the other family members. A further expansion of the self will involve friends, colleagues, citizens, nations, humanity and biosphere.

On the time dimension a short sighted self will act considering a short time (for instance a certain behaviour can give some pleasure in the short term but can have negative effects in the long term); an natural expansion of the self will reaches the expected time laps of personal life. A further enlargement of self-concern will embrace the time extents of sons, grandchildren and the future. Within a wide-ranging horizon, the narrow-self/non-permanence becomes the wide-self/permanence of next and future generations and can support the development and pursuit of shared ideals through systems design.

If the horizon is short-sighted, systems thinking becomes a support for manipulation: one could use dynamic levers to simply deactive a deviant behaviour in the patient; one could adjust company organisation just to induce the workers to behavioural models more functional to profit; one could show off fictitious ecological properties of products to attract innocent customers.

On the contrary, if the reference horizon is wide-ranging, the self expands to embrace contiguous selves and further generations' time lapses; this way behaviour becomes actually more ethical and systems thinking works as a powerful support to develop an harmony-seeking culture of participation, towards a responsible and sustainable evolution.

CHALLENGING THOUGHTS

J. Gall: "Systemantics: How Systems Really work and How They FaiL", 2nd ed., p. 65, Ann Arbor, The General Systemantics Press, 1986

A Complex system that works is invariably found to have evolved from a simple system that worked.

A Complex system designed from scratch never works and cannot be patched up to make it work. You have to start over, beginning with a working simple system.

We, as individuals within the human family, recognize the interdependence that exists between us and our fellow citizens. Like the links of a chain, we form a bond of connections between persons in the human community. Our mission is to support or to contribute some useful service that will enhance the health of the community, such that when we dedicate ourselves to constructive efforts, we will at the same time dedicate our efforts to our self, our family, and our community. We pledge that we will strive to discover our talents, to develop our skills, and to apply what we have learned, so that the quality of our life, our community, and our world may be enhanced by our having touched them. We pray that God may grant us His Guidance and Blessing upon this mission. (Gregory La Pointe sen., 1988).

ANOTHER AURA-STORY

AURA II
"Aura" and the Corpus Juris

Ernesto Grün
Lavalle 1447/5 K.
Buenos Aires, Argentina

In the IFSR-Newsletter No. 40 (March 1996) appeared a small article by my friend Charles Francois about *"'Aura' and the Wasa Story".* This story is in some ways similar (isomorphic ?) to what happened with the Corpus Juris Civilis. It seems to me to be a perfect illustration, in the realm of law, of the concept of "aura", i.e. as defined it [1]: *"The set of traces, and/or contraints left over by a system after the end of its functional existence".* The conception of "aura" was originally conceived by Henri Prat ("Le Champ unitaire en Biologie") and, in my opinion, has many other examples and applications in law and politics.

Justinian I (483-565), emperor of the Roman empire, found the laws of the roman empire in great confusion. Many were out of date, some contradicted others, nowhere did a complete collection of them exist. Justinian appointed a commission to study the problem. The work of the commissioners resulted in the publication of the *"Code of Justinian"*. The first book, "Codex Constitutionum", is a collection of decrees of the emperors; the "Digest", or "Pandects", a summary of 9.000 extracts from the opinions of the lawyers and judges who had interpreted these decrees, and the "Institutes", a textbook. The "Institutes" stated legal principles in simple terms. A fourth book, the "Novels" (Novella constitutions), included the ordinances of Justinian after the codification. These four together constitute the "Code of Justinian", or Civil Law (Corpus Juris Civilis). Justinian forbade any commentaries of his work which he wanted to be a universal system of law.

During the Middle Age, Roman law in western Europe fell into disuse and was replaced by canon low and by the customs of the different Germanic peoples that overran the empire. But in the late 11th century Roman law, especially its condification by the Corpus Juris was rediscovered and studied by scholars in northern Italy, especially at the University of Bologna. With the increased demand for trained experts in law and administration, students flocked to Bologna from all over Europe, and soon the revival of Roman law had spread to other centers of learning. Hence, Roman law came to influence the developing legal systems of the newly emerging nations of Europe. The system that resulted was called everywhere the *Jus Civile*.

Naturally the contents of the Corpus Juris had to be reinterpreted and adapted to fit the completely different social, economic, political and religious conditions of the time, a task accomplished by the "glossatores", through a method known as the "mos italicus".

Further information can be found in William Seagle's "The Quest for Law" (chapter 12.2). He speaks about *the gost story of the resurrection of roman law*.

And so, as with the Swedish warship, given favourable condition and/or circumstances a system could recuperate itself as a functional entity of a quite different kind.

[1] Francois Charles: Diccionario de Teoria General de Sistemas y Cibernectica', Ed. Gesi, Buenos Aires, 1992.

CONFERENCE REPORTS

Heinz von Förster honored in Austria

On his 85th birthday Heinz von Förster received in Vienna the 'Honoray Cross of Science and Art' from the Austrian Government in Vienna and an honory professorship of the University of of Vienna.

A more detail account of this event will appear in the next issue.

Heinz von Förster with Peter Weibel and Werner-Jimmy DePauli-Schimanovich in Las Palmas in November 1996

EIGHTH ASILOMAR CONVERSATION
Monterey, November 2-6, 1996

The Conversation drew 56 participants from 8 countries to the rustic Asilomar Conference Center on California's Monterey Penninsula coastline for 5 days of intensive conversation about social system design. Participants committed themselves to active preparation and follow-up on one of the following research teams: Exploring Transcendence in Social Systems, Fostering Design Cultures through Evolutionary Learning Communities, Evaluating Social System Design Efforts, Interactive Management, Design Conversations, Societal Design and Designing Change in Educational Systems.

The latter team will publish a book this year for educational change facilitators.

Societal Design, a new team this year, began an ambitious, long term research effort to formulate a vision of a new society. Aleco Christakis volunteered his able facilitation skills, a superb technical team and the elegant computer assistance of his CogniScope to help the team address:

1) What are the markers of an ethical, designing, participative democracy, and
2) What means would be adequate to create it?

The Evaluation and Interactive Management themes were also new this year. The other teams welcomed some new participants as they continued ongoing efforts from previous years.

A most significant outcome of the five days was the emergence of the Asilomar Conversation Community (ACC) as a self-organizing, self-governing entity, committed to testing its collaborative vision and designerly ideals in its own collective life. On the last day a broad base of participants stepped forward to help ACC's new event coordinator, Sue McCormick prepare and deliver the Ninth Asilomar Conversation, Nov. 1-6, 1997. We welcome all scholar/practitioners interested in the idealized design of social systems to join us.

More information: Sue McCormick, 28 Grandview Dr., Bigfork, MT 59911, USA. e-mail: sue@digisys.net,http://www.par.univie.ac.at/~ics97/

Tad Frantz

CONFERENCE ANNOUNCEMENTS

For contacts and information see Calendar of Events

Culture and Democracy Revisited in the Global Information Society
IFIP-WG 9.2/WG 9.5, Working Conf.
8-10 May 1997,
Corfu, Greece

IFIP Working Group WG 9.2 (Social Accountability) with the support of IFIP WG 9.5 (Social Implications of Digital Media and Virtual Worlds), is organizing this working conference and invites practitioners and researchers of like minds to join us in developing a statement about the future of culture and democracy in a global information society. Corfu is where the "Bangemann Report" was accepted by the European Council summit meeting in June 1994.

Since then questions have emerged about the future of the Global Information Society (GIS).
Further information:
IFIP-WG9.2/WG9.5 Working Conf. Secretariat, Greek Computer Society, 16 Mavromichali St. Athens GR-10680 Greece. Tel.: +30-1-35.45.274 Fax: +30-1-36.45.154
e-mail: corfu@ru.aegean.gr
http://www.math.aegean.gr/english/eevents/econf/ecnew/ewc97.htm

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Invitation to ICS'97
ACM Int'l. Conference on Supercomputing
Vienna, Austria
July 7th through July 11th, 1997

This is a forum for engineers and scientists throughout the world to exchange ideas and research results relating to high performance supercomputing systems. The 11th conference in the series will be held in Vienna, Austria. Vienna is the site of one of the oldest universities in the world, which was the home of the Vienna Circle and Kurt Gödel and, in recent years, became a European Center for high performance parallel computing.
The conference program includes
- 5 keynote addresses by top-level researchers,
- 43 contributed papers,
- four workshops, all of which will take place on July 7th,
- two panel sessions,
- an exhibit, and
- an industrial session.

The social events include a reception by the Mayor of the City of Vienna, a formal Conference Dinner at an 18th-century Palais, and an informal evening at a typical Viennese wine restaurant.

The workshops (Monday, July 7)
- Performance Data Mining: Automated Diagnosis, Adaption, And Optimization
- Molecular Bioinformatics: Sequence Analysis, The Human Genome Project
- Metacomputing: The Challenge of High Performance Distributed Systems
- High Performance Cluster Computing

More information:
"http://www.par.univie.ac.at/~wender/wender.cgi or Bernd Wender, Univ. of Vienna, Institute for Software Technology and Parallel Systems.

4th Workshop on Logic, Language, Information and Computation (WoLLIC'97)
August 20-22, 1997
Fortaleza (Ceara'), Brazil

This workshop will cover all areas related to logic, language, information and computation, including: pure logical systems, proof theory, model theory, algebraic logic, type theory, category theory, constructive mathematics, lambda and combinatorial calculi, program logic and program semantics, logics and models of concurrency, nonclassical logics, nonmonotonic logic, logic and language, discourse representation, logic and artificial intelligence, automated deduction, foundations of logic programming, logic and computation, logic engineering.
Submissions
Two-page abstracts, preferably by e-mail to wollic97@di.ufpe.br until JUNE 1st, 1997.
Notification of acceptance: July 1st, 1997.
Abstracts will be published in the Journal of the IGPL (ISSN 0945-9103) (Oxford University Press). Selected papers will be invited for submission (in full version) to a special issue of the Journal of the IGPL.

The Idaho Systems Institute

The Idaho Systems Institute, which was founded earlier this year, now has a nearly fully-developed web site.

Please note that some areas are still under development. We will soon have on the site the booklet "The Design Way", the text of the GlobeSpeak concept paper, and much more detail on the projects.

Further information:

http://207.158.244.148/isi/index.html

NEWS FROM THE BOOK MARKET

Constructing Systems and Information: A Process View

Malcolm Corew, Richard Beeby, John Gammack

An interesting book with an interersting view on System development, constructivistic view, human aspects etc.

McGraw Hill, 1996, ISBN 0-07-707962-0,

ENCYCLOPEDIA OF SYSTEMS AND CYBERNETICS

by Charles Francois
Argentine Society for Systems and Cybernetics

This work offers a practically complete and up-to-date overview of the field of Systems and Cybernetics, as it developed from its beginnings.

Its scope is simultaneously informative, comparative and evaluative. It is internally interconnected in such a way as to offer the possibility to use it either as a dictionary, or a kind of general textbook.

The work includes very general and well known basic concepts as well as considerable supplementary information on the subject, until now scattered among hundreds of papers presented in international or national meetings, most of them completely out of reach of the great majority of scholars.

While written in English, it contains also a considerable store of valuable information gathered from sources in various other languages (Dutch, French, German, Italian, Russian, Spanish).

It is not highly technical and should be easily understood by anybody interested in global comprehension of complex situations and organizations of any kind from ecology and psychology to business administration.

It provides the tool for a general worldview, useful for any specialist in any trade who would like to establish, through a common language, a better transdisciplinarian communication with specialists in any other disciplines; for leaders endowed with economic, political or social responsabilities, or for the public in general. It aims at establishing a sound epistemological basis for systemics and cybernetics, by comparative critique of concepts and models.

It contains nearly 3000 entries with numerous verbatim quotes from authors, and a bibliography of more than 1200 entries.

It is printed by K.G. SAUR's Verlag, München, Germany and will appear soon.

News from the IFSR

Dear Members!

It is time to look at the future of the IFSR. In 1998 we will again have the EMCSR-Conference in Vienna and in parallel the Board Meeting of the IFSR and also another Stratety Meeting like in 1996. Many good ideas and suggestions were put forward and I hope you are preparing even more input for the 1998-Meeting.

Consider the new Committee-Structure of the IFSR and consider joining one or the other committee.

Hoping to keep up a fruitful communication

yours sincerely

Gerhard Chroust

COMMITTEES OF THE IFSR

The following committees were established in order to help the Executive Committee in its work. *To join, contact Gerhard Chroust.*
Strategic Program Design;
Research Committee
Database
Publication Committee
Systems Education
Funding development
Membership
Outreach
Distinguished Advisory Board
Nominations Committee

FROM OUR MEMBERS

JAPAN CONVERSATION 1997

AFTER ISSS97 ?

We have just realized that the ISSS97 Annual Meeting will be held in Seoul, South Korea from July 22, Tuesday until 25, Friday, and we guess some of you are planning to attend it.

Then, what if we hold the Japan Conversation 97 (JCV97) from July 26, Saturday until July 31, Thursday? Can we interest you to attend JCV97 on the way back home from ISSS97?

We can arrange JCV97 near the New Tokyo International (Narita) Airport for easy access.

There has been a good number of people interested in JCV97, but the traveling costs discouraged most of them from attending it. If we arrange JCV97 right after ISSS97, perhaps some of you would like to attend both.

Your comments on this idea would be highly appreciated.

Yoshi Horiuchi

CASYS'97

1st International Conference on Computing Anticipatory Systems

Liege (Belgium)
August 11-15, 1997

The organizers report a large influx of abstracts. So they expect it to be a big success. For details see Calendar of Events.

As usual, I also iterate the Editor's Lament: Please send material, especially short articles for 'New Trends' and ''Conference Reports'. You can put your information directly onto our FTP-server:. ftp.sea.uni-linz.ac.at, using directory 'INCOMING \ IFSR-IN. But please inform me via e-mail about it.

Calendar of Events

Title	Date and Place	Further Information
Abbreviations: CfP, CfA: Call f.Papers/Abstract, FP: Final Paper due, <No. nn>: mor e details in issue.nn		
Culture and Democracy Revisited in the Global Information Society, (Working Conference) <No. 16/1 >	May 8-10 1997, Corfu, Greece	IFIP-WG9.2/WG9.5 Working Conf. Secretariat, Greek Computer Society, 16 Mavromichali St. Athens GR-10680 Greece. Tel.: +30-1-35.45.274 Fax: +30-1-36.45.154 e-mail: corfu@ru.aegean.gr http://www.math.aegean.gr/english/eevents/econf/ecnew/ewc97.htm
ACM Int'l. Conference on Supercomputing Vienna, Austria July 7th through July 11th, 1997 <No. 16/1>	July 7-11, 1997 Vienna, Austria	"http://www.par.univie.ac.at/~wender/wender.cgior Bernd Wender, Univ. of Vienna, Institute for Software Technology and Parallel Systems.
CBMS'97 : The 10th IEEE Symposium on Computer-Based Medical Systems	June 11-13, 1997 Maribor, Slovenia, CfA: expired, FP. Jan 31, 1997	Dr. Peter Kokol, Faculty of Electrical Engineering and Computer Science, Smetanova 17, 2000 Maribor, Slovenia, fax: +386 62 225 013 or +386 62 226 232 tel: +386 62 221 112, email: cbms97@uni-mb.si, www: http://www.uni-mb.si/~cbms97
Systems for sustainability: people, organizations and environments, 5th Int. Conf. of the United Kingdom Systems Soc.	July 7-11th, 1997 Milton Keynes, UK	Hammerwood Gate, Kents Hill, Milton Keynes MK7 6HP, UK, tel: 44 1908 83494, fax: 44 1908 834948, uksssconf@dmu.ac.uk
SCI'97 - World Multiconference on Systemics, Cybernetics and Informatics <No. 15/4>	July 7-11, 1997 Caracas, Venezela	Int. Institute of Informatics and Sistemics, 14269 Lord Barclay Dr., Orlando, Fl, USA tel/fax: 1-407-8566274, email:iiis@aol.com http://www.callaos.com/SCI 97
ISSS-Conference 1997: Systems Thinking, Globalization of Knowledge, and Communitarian Ethics <No. 15/3>	July 22-25, 1997 Seoul, Korea CfA: expired FP: expired	Kenneth D. Bailey, Dept. of Sociology, UCLA, Los Angeles, CA , tel. 1-310-825-1313, fax 1-310-206-9838, bailey@soc.sscnet.ucla.edu,Linda Peno, ISSS, PO Box. 6808, Louisville, KY 40206-0808, tel: 1-502-899-3332, fax 1-502-897-2461

CASYS'97 :1st Int. Conference on Computing Anticipatory Systems <No. 15/3>	August 11-15, 1997, LIEGE (Belgium), CfA: expired1997 FP: June 1, 1997	Dr. Ir. Daniel M. DUBOIS, asbl CHAOS, Institut de Mathématique, Université de Liège, 15, avenue des Tilleuls, B-4000 LIEGE, Belgium. fax: /32/4/3669489, dubois@lema.ulg.ac.be
ICEE-1997 - Int. Conference on Engineering Education: Progress through Partnership	Aug. 14-17, 1997 Chicago, USA CfA: expired FP : expired	Joun Mead, Coal Res. Center MC 4623, Southern Illinois Univ. at Carbondale, Carbondale, IL 62901, USA, tel. 1-618-536-5521, fax: 1-618-453-7346, jmead@siu.edu
4th Workshop on Logic, Language, Information and Computation (WoLLIC'97) <No 16/1>,	Aug. 20-22, 1997 Fortaleza (Ceara), Brazil	Ruy de Queiroz, Dept. de Informatica, Univ. Fed. de Pernambuco, CP 7851, Recife, PE 50732 -970, Brazil, tel: +55 85 287 1333, fax +55 85 288 9845, email: marcel@lia.ufc.br
EUROMICRO Workshop on Computational Intelligence	Sept. 3-4, 1997 Budapest, Hungary CfP: expired FP: June 15, 1997	Bernd Reusch, University of Dortmn, Dept, of Computer Science, D-44221 Dortmund, Germany, tel: +49-231-9700952, reusch@ls1.informatik.uni-dortmnd.de http://LS11-www.informatik.uni-dortmund.de/ EUROMICRO
Sustainable Development (14th Int. Conf. of WACRA-EUROPE)t	Sept 16-19, 1997, Madrid, Spain CfA: expired	Francisco Parra-Luna, Univ. Complutense de Madrid, Fac. de CC.PP.y Sociologia, E -28023 Somosaguas, Madrid, tel. +34 -1--394-29-23, (irPrf
SOCO'97: 2nd Int. ICSC Symposium on Soft Computing (Fuzzy Logic, Artificial Neural Neworks, Genetic Algorithms)	Sept. 17-19, 1997 Nimes, France CfA: expired FP: May 15, 1997	ICSC Canada, PO Box 279, MILLET, Alberta ToC 1Z0, Canada tel: 1-403-387-4329, fax -3546, email: icsc@compusmart.ab.ca, http://www.compusmart.ab.ca/icsc/soco97.htm
Intelligente Organisationen (Überlebenskonzepte f. turbulente Zeiten auf der Grundlage von Systemtheorie und Kybernetik.	Oct 3-4, 1997, St. Gallen, Switzerland CfP: expired	Ricarda Bouncken, Inst. f. Betriebswirtschaft, Univ. St. Gallen, Dufourstr. 48, CH-9000 St. Gallen, Switzerland, tel: +41 71 224 -2379, fax: +41 71 224-2355, email: ricarda.bouncken @IfB.unisg.ch
SMC'97: Computational Cybernetics and Simulation	Oct 12-15, 1997 Orlando, Florida CfP: expired	SMC'97 secretariat, DSES Dept., Rensselaer Polytechnic, 110 8th Street, Troy, NY 12180 -3590, USA, tel, fax:518-374-1434, email: smc97@rpi.edui
IDIMT 1997, Interdisciplinary Information Management Talks	Oct. 15-17, 1997 Zadov , Cech Republic CfA: expired FP: June 1997	Gerhard Chroust, Systemtechnik, Kepler Universität Linz, 4040 Linz, tel: +43-732-2468-866, fax -878 email:Chroust@SEA.uni-linz.ac.at
ISAT'97 : Systgems Inquiry, Information Systems and Technology	Oct 6-10, 1997, Szklarska Poreba, Poland	Radoslaw Katarzyniak, Polish Systems Soc., Technical Univ. of Wroclaw, Wybrzeze Wyspianskiego 27, PL-50-350 Waroclaw, PL, fax +48 71 3203884, email:katarzyniak@zsi,pwr.wroc.pl
ICSQ'97 : Int. Conf. on Software Quality	Nov. 1997 Maribor, Sloveniar CfP: May 15, 1997	Marjan Pivka, Univ. of Maribor, School of Business adn Economics, tel 386 62 22 90 247, fax: 386 62 26 681, email: pivka@uni-mb.si
14th European Meeting on Cybernetics and Systems Research	April 14-17, 1998, Vienna, Austria CfP: Oct. 17, 1997	Austrian Soc. for Cybernetic Studies, -Schotteng. 3, A-1010 Vienna, Austria, tel: +43 -1-53532810, fax +43-1-5320652, email: sec@ai.univie.ac.at
IFIP'98: 15th IFIP World Computer Congress: 'The global Information Society'	Aug. 31- Sept 4, 1998 Vienna/Budapest	Austrian Computer Society, Wollzeile 1 -3, A-1010 Vienna, tel: +43 1 512 02 35 -0, fax: -9 email: ifip98@ocg.or.at John v. Neumann Computer Society, Bahtori u. 16, H-1054 Budapest, tel: +36 1 13 293 49, fax: +36 1 13181 40, ifip98@neumann.hu, http://www.ocg.or.at/ifip98