IFIP newsletter
International Federation for Information Processing

Editor:
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25TH ANNIVERSARY CELEBRATION

Distinguished Speakers Address Symposium

A distinguished group of world-famous computer scientists was present at the recent Symposium that celebrated IFIP's first 25 years. They came to Munich from as far as Japan to the east and California to the west to discuss the history, the present status, and the future of information processing, as well as its impact on mankind. Many participants had extensive experience in IFIP affairs. (Several of the IFIP founders were present.) Yet, some with no relationship to IFIP attended, to pay honor to the concept and accomplishments of the Federation.

Technical University of Munich

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The Symposium, held at the Technical University of Munich on 27 March, opened with fanfares played by a brass quintet. This was followed by a tribute to the past presidents of IFIP narrated by Mr. Ashley Goldsworthy (AUS), IFIP vice-president and chairman of the 25th Anniversary Committee for Protocol. During this, Mr. Goldsworthy traced the history of IFIP in terms of the accomplishments of its past presidents:

Mr. Isaac Auerbach (USA) '60-65
Prof. Dr. Ambros Speiser (CH) '65-68
Acad. Anatol Dorodnicyn (SU) '68-71
Prof. Dr. Heinz Zemanek (A) '71-74
Dr. Richard Tanaka (USA) '74-77
Prof. Pierre Bobillier (CH) '77-83.

All except Prof. Speiser were present at the Symposium.

Dignitaries Attended

The historical narrative was followed by words of greeting from several dignitaries, introduced by Prof. Dr. Friedrich Bauer (D), chairman of the 25th Anniversary Symposium Committee: Mr. A. Kaddoura, Assistant Director-General of Unesco, Prof. F.R. Güntsch , Ministerialdirektor of the German Ministry of Research and Technology, Mr. H. Kiessling, Ministerialdirektor of the Bavarian Ministry of Cultural Affairs, Prof. W. Wild, President of the Technical University of Munich, and Prof. M. Paul, Dean of the Faculty for Mathematics and Informatics at the Technical University (and former chairman of the IFIP Technical Committee on Programming). Also, representatives of IFIP's sister federations in the Five International Associations Coordinating Committee (FIACC) conveyed their greetings: IFAC, IFORS, and IMEKO.

The main substance of the Symposium was contained in seven lectures. (See the article on page 1 of the March 1985 *IFIP Newsletter* for the list of speakers and topics.) They formed a notable perspective on information processing. These talks, along with approximately 20 papers by other experts, will be printed in a special **IFIP** publication celebrating the anniversary. Prof. Zemanek, editor of the book, expects that it will be issued before the end of this year. North-Holland will be the publisher.

Following the Symposium, **IFIP** held a banquet honoring its past contributors. Mr. Auerbach concluded the celebration by presenting his reminiscences of the early days of **IFIP,** accompanied by a slide show.

The evenings preceding and following the day of the Symposium featured receptions given by the state of Bavaria and the city of Munich, to welcome **IFIP.**

(See page 7 for photographs taken during the Symposium.) ■

IFIP-UNESCO COOPERATION

The United Nations Economic, Scientific and Cultural Organization (11nesco) is planning a major effort—the Intergovernmental Informatics Program **(IIP)—in** which **IFIP** is expected to play a significant role. The **IIP** would draw on the experience of industrialized countries and take into consideration the needs of developing countries to promote a more widespread development of informatics and reduce the inequalities in degree of computerization that exist between countries and within countries. The HP may provide the resources to contribute materially to reducing the imbalances and designing appropriate solutions. The key areas of activity will be in training, improving the informatics infrastructure, research, increasing awareness, and establishing informatics policies. Experts from **IFIP** could help **IIP** officials formulate policies and establish programs.

The past cooperation between **IFIP** and Unesco has consisted largely of Unesco providing funds to assist participants from developing nations to attend selected **IFIP** conferences. The procedure for obtaining such funding involved **IFIP** submitting applications to Unesco requesting support for participants at specific **IFIP** meetings. Grants of $2000 to $4000 per meeting were common, and a total of $15 000 to $20 000 per year was typical. (For 1984, the total was $6000.) Unesco support, in general, did not enable **IFIP** to undertake new initiatives.

IFIP-Unesco Discussions

IFIP officers have been discussing the new HP program with Unesco officials in recent months, and the relationship between the two organizations may be evolving from the role described above to one in which **IFIP** acts as a major consultant for the HP program. Both sides wish to increase the degree of cooperation.

In July 1984, IFIP's president Dr. Kaoru Ando **(J)** and secretary Mr. Jacques Fourot (F) met with the Assistant Director General of Unesco, Mr. A. Kaddoura, in Paris. In November 1984, IFIP/Unesco Liaison Officer and ICID Committee chairman Prof. R. Narasimhan **(IND),** the chairman (at that time) of **IFIP's** Technical Committee on Education (TC3) Prof. Jacques Hebenstreit (F), and Mr. Fourot attended the Paris meeting of the Interim Intergovernmental Committee for the HP, where the objectives of the program were discussed in detail. In March, Mr. Y. Mentalecheta and Prof. V. Zharov, two top officials of the Unesco informatics division, attended the **IFIP** Council meeting in Munich, and Mr. Kaddoura addressed the **IFIP** 25th Anniversary Symposium. Shortly before the publication of this Newsletter, Mr. Fourot was to have had further discussions with these and other Unesco officials to determine their needs and to schedule further meetings between them and **IFIP** experts.

Advisors Needed

At present, IFIP workers with expertise in areas of interest to developing nations are needed to assist in formulating **IIP** policies and programs. Members of **IFIP** Working Groups (WGs) and Technical Committees (TCs) who are willing to consult with Unesco officials should inform their WG or TC chairmen of their interest. The chairmen will then forward the names to Secretary Fourot. (It is not anticipated that Unesco will provide travel funds.) Prof. Narasimhan encourages volunteers with these words: "This program can succeed only if experts step forward. We need a strong panel of advisors to assist the **IIP."** With the help of **IFIP** experts, Unesco officials are expected to draft a program for the **IIP** that will be presented to the Unesco General Conference at its 23th session in Oct. and Nov. 1985. ■

National Abbreviations Used in Newsletter

A	Austria	F	France	P	Portugal
AUS	Australia	GB	United Kingdom	PRC	China
B	Belgium	GR	Greece	S	Sweden
BG	Bulgaria		Italy	SU	USSR
CDN	Canada	IL	Israel	USA	USA
CH	Switzerland	IND	India	ZA	South Africa
D	Fed. Rep. of Germany	IRL	Ireland		
DK	Denmark	J	Japan		

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The Secretariat can also answer inquiries about IFIP.

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Please send the following IFIP information directly to the Secretariat: announcements of conferences, workshops, and other meetings; calls for papers; appointments to committees and other positions; changes of address; and new publications. The Secretariat is the clearinghouse for all such information; it will forward it to the *Newsletter.*

IFIP COUNCIL MEETS IN MUNICH

Future Changes Considered

The IFIP Council met in Munich 26, 28, and 29 March and devoted a good deal of its time to discussions about the future of IFIP. In particular, a proposal for restructuring IFIP was presented, and IFIP president Dr. Kaoru Ando (J) appointed a Long Range Planning Committee to chart the future course of the Federation.

The proposal for a new structure for IFIP was presented by the Task Group on Restructuring. (See the article on restructuring in the September 1984 *IFIP Newsletter,* page 1.) It addresses two major concerns with the current IFIP structure: that IFIP finds it difficult to respond rapidly to new technical developments; and that Technical Committees, where most of the professional work of IFIP is carried out, should have more influence in IFIP affairs. The proposal is not a drastic reorganization, but a realignment of responsibilities and committee memberships.

Restructuring Plan

If the plan were adopted, the following measures would be taken:

- The existing definition of Special Interest Group (SIG) would be abandoned, and the term would henceforth be applied to new groups concerned with areas of technical interest not able to be effectively incorporated within any other IFIP structure. This would enable IFIP to quickly charter groups to hold conferences and workshops in new technical areas. A Special Interest Committee (SIC) would be formed to foster the development of SIGs.
- The existing Activity Planning Committee (APC) would be replaced by an Activity Board (AB). Its charter would be unchanged. (See the article on the APC in the December 1984 *IFIP Newsletter,* page 7.) The membership would be reconstituted to include: all TC chairmen, the chairman of the SIC, a representative of the International Medical Informatics Association of IFIP (IMIA), a representative of Affiliate Members, the Conference Officer, the Publications Committee chairman, and up to six additional General Assembly (GA) members. The AB would meet twice yearly, in conjunction with IFIP Council and GA meetings, in order to plan future IFIP directions and discuss concerns of TCs and SIGs.
- The voting power at GA meetings would be exercised only by representatives of Full Members (national and regional members).
- Specific responsibilities would be assigned to IFIP vice-presidents. The Vice-President for External Relations would be responsible for specific committees dealing with organizations outside of **IFIP** (e.g., the IFIP Committee: Informatics for Development), and the Vice-President for Internal Relations would be concerned with **IFIP** administrative activities and Congresses.

The proposal does not give details of the roles of Affiliate Members and IMIA. It was recognized that more thought must be given to these organizations, especially because of their diverse nature.

The Task Group on Restructuring will revise the proposal according to the discussions that took place at the Council meeting. The revised proposal will be circulated to GA members and will presumably be presented to the GA in September.

Another significant item aired at the Council meeting was the relationship between **IFIP** and the United Nations Economic, Scientific and Cultural Organization (Unesco). The prospect for closer cooperation was discussed. A detailed presentation of this topic can be found on page 2.

Committee Reports

Reports were presented for all TCs, describing their current activities, plans, and concerns. These reports form a major segment of Council meetings. A proposal for an Outstanding Contribution Award was presented by the Internal Awards Committee. Based upon the Council's reaction, the Committee plans to present an amended proposal to the GA in September.

Reports were received from the Program and Organizing Committees for IFIP Congress '86. (The article on page 5 gives more details of the Congress.) A tentative list of invited speakers, responders, and panelists was presented. The estimate of participants has been revised upwards, to 1750. The Organizing Committee feels that this number can be accommodated comfortably. A report was also heard concerning the 1985 World Conference on Computers in Education. (This is discussed in an article on page 8.)

Future **IFIP** meetings are as follows:

2-7 Sept '85 in Tokyo: GA, Council, and committees
10-14 March '86 in Lisbon: Council and committees
Sept '86 in Dublin (prior to Congress '86): GA, Council, and committees
No invitation for the 1987 Council meeting has been received yet.
Sept '89 in San Francisco (prior to Congress '89): GA, Council, and committees

The meeting was closed with many thanks to the hosts from the Gesellschaft fur Informatik, who provided excellent administrative support for the meeting, as well as most cordial hospitality. ■

COMPUTER ART COMPETITION

At Pan Pacific Computer Conference

The world's first international computer art competition is being held in conjunction with the the First Pan Pacific Computer Conference (PPCC-1) 10-13 September in Melbourne, AUS. Prizes will be awarded for the best individual entry ($1000) and the best company entry (a trophy) of computer generated art (including animation and graphics). Entries will be displayed and the winners announced during PPCC-1.

The art will be judged primarily on its artistic merit; however, technical aspects of the production will be taken into account. The entries should be suitable for display; there are no limitations on size. Each entry, accompanied by a description of how it was produced, must be submitted to the committee by 23 August. Each individual or organization is limited to three entries.

PPCC-1 is co-sponsored by the Australian Computer Society and **IFIP.** For further information about the computer art competition or PPCC-1, contact—

The Australian Computer Society
P.O. Box 212
Hampton, Vic. 3188, Australia
tel. [03] 598 3675 or [03] 598 5224 ■

INFORMATION SYSTEMS RESEARCH COLLOQUIUM

A DOUBTFUL SCIENCE?

*by Prof. Enid Mumford (GB) **

The great advantage of conferences and colloquiums is that people are able to meet each other face-to-face. They can discuss, debate and argue, make friends and sometimes enemies, in an open and easy way. Here is a summary of what was discussed at our colloquium, *Information Systems Research—A Doubtful Science,* which was held in Manchester, UK 1-3 September 1984. Sixty attended. A full account will appear in the proceedings which are to be published by North-Holland in September 1985.

Dr. Hans-Erik Nissen (S) got the debate off to a splendid start by providing a critique of traditional "scientific" method. He described the complexity of real world information systems and stressed the fact that people are a major source of this complexity. New methods are therefore required.

Prof. Heinz Klein (USA) took up the thread and gave a powerful and dramatic presentation of the problems and limitations of using scientific method. He argued that because this was based on an engineering view of the world, it was bound to fail. It could not tackle crucial research issues. New paradigms were urgently required if research was to make progress.

Prof. Andrew Pettigrew (GB) stressed the importance of history in interpreting research. We need to note the different social influences affecting developments over time. He did not approve of "in and out" research. He believed that the researcher should spend time in the research situation and really get to understand it. He also saw research as a craft, a point of view that caused some debate and disagreement.

"Longitudinal Research"

Our final speaker was Prof. Nicholas Vitalari (USA) who added to the range of new research approaches by describing longitudinal research. He argued that social change could not be understood by examining at a single moment in time. Instead a longer term approach was required with the researcher returning to the research situation at regular intervals in order to see how the situation has altered. Nicholas has been applying this approach to the use of computers in the home.

Many of us, including myself, left the colloquium determined to look very closely and, if possible, objectively at the way in which we were doing research.

A task group chaired by Dr. Nissen is to continue through 1985 the debate on I.S. research methods started in the colloquium. An attempt is being made to involve people from other parts of the **IFIP** family. Technical Committee and Working Group chairmen were sent letters requesting them to inform their committee members of this activity on I.S. research methods and to invite those interested to contact Dr. Nissen.

The objective is to present the state of the art of this debate in the middle of 1986 in the form of a "polygraph" (monograph will probably not be an adequate description in view of the divergent points of view which we may end up with). The preliminary publishing date is the end of 1986. ■

* chairman of WG8.2

ICCC ACTIVITIES

The International Council for Computer Communication (ICCC), an Affiliate Member of **IFIP,** announces completion of another successful year. The goals of the ICCC are—to foster scientific research and development of computer communication; to foster progress in evaluation of applications of computer communication; and to foster study of potential social and economic impacts of computer communication.

ICCC's seventh International Conference on Computer Communication was held 30 October-2 November 1984 in Sydney, Australia, attracting approximately 1000 attendees from 33 countries. Telecom Australia and the Overseas Telecommunications Commission (AUS) served as hosts. Mr. John Curtis (AUS) was Conference chairman, Dr. Carl Hammer (USA) was Conference Governor, and Mr. John Cook (AUS) was Conference Director. Mr. Neil Crane (AUS) served as chairman of the Program Committee.

The Governor-General of Australia, Sir Ninian Stephen, opened ICCC '84, and Mr. James Bain, chairman of the Sydney Stock Exchange and the Associated Stock Exchanges of Australia, delivered the keynote address. Proceedings were edited by Prof. John Bennett (AUS) and Dr. T. Pearcey (AUS).

Plans are currently under way for ICCC '86 to be held in Munich in September 1986.

The ICCC journal, *Computer Networks and ISDN Systems,* published by North-Holland, will have ten issues in 1985.

Newly elected officers are—Prof. Philip Enslow (USA), president; Dr. Clayton Andrews (USA), executive vice-president; Dr. Ronald Uhlig (USA), secretary general; Dr. Pramonde Verma (USA), executive secretary; Mr. John McKendree (USA), treasurer; Prof. John Bennett (AUS), deputy secretary general; and vice-presidents Prof. Alexander Douglas (GB) [ICCC's representative to **IFIP], Dr.** Prem Gupta (IND), Dr. Maurice Karnaugh (USA), Mr. Yasuo Makino **(J),** Mr. Louis Pouzin (F), and Dr. Martin Silverstein (USA). Many of the officers and governors of the ICCC are also active in **IFIP.** ■

PAPERS SOUGHT FOR IFIP CONGRESS'86

Irish Committee Working Hard

The Program Committee for the 10th World Computer Congress recently issued its final call for papers and preliminary program. Contributions with broad scopes, addressing "real world" problems, and interesting to wide segments of the information processing community are sought. Papers are due 1 November 1985. Authors interested in submitting papers should contact–

Secretariat, IFIP Congress '86
44 Northumberland Road
Dublin 4, Ireland
tel.: +353-1-688244
telex: 31098
telegrams: congrex, dublin

Authors from the U.S. should write-

IFIP Congress '86
c/o AFIPS
1899 Preston White Drive
Reston, VA 22091

(For further information about the Congress, see the December 1984 issue of the *IFIP Newsletter,* page 4.)

Mr. Brian Rothery (IRL), Press Officer for **IFIP** Congress '86, informs the *IFIP Newsletter* that Ireland is delighted to be hosting the 10th World Computer Congress in September 1986. The venue will be Trinity College in Dublin, founded in 1591. An important exhibition, run by the Irish Business Equipment Trade Association (IBETA), will be held in conjunction with the Congress.

The Organizing Committee and the key sub-committees are hard at work. The task is, as always, quite formidable. Advance notices, calls for papers, arrangements to house over 3000 attendees, registration, foreign press, entertainment—all must be ready to function like clockwork upon the first day.

Contacts have been made with the American Federation of Information Processing Societies (AFIPS), who publicized the Congress at the most recent National Computer Conference. The Organizing Committee is grateful for this support. Help from other friends will be greatly appreciated.

The Congress Secretariat can be contacted at the address given above. ■

TENTH IFORS CONFERENCE

25th Year Celebrated

*by Prof. Heiner Müller-Merbach**

Some 425 participants from 38 nations attended the 25th anniversary conference of the International Federation of Operational Research Societies (IFORS), a sister society of **IFIP** in the Five International Associations Coordinating Committee. The conference was held in Washington, DC 6-10 August 1984. The program comprised 123 sessions with 330 papers. It included "traditional" as well as "frontier" Operations Research (OR) topics.

The technical program was preceded by the "Twenty-Fifth Anniversary Session," with contributions by the three individuals who have participated in all the IFORS Conferences so far. They considered the development of IFORS during the last 25 years and the changes in OR during that time. The importance of craftsmanship in OR was emphasized; the position of OR between science and art was observed; and the change in the societal environment for OR was noted.

Since the purpose of IFORS includes the international transfer of OR knowledge, the session *OR in Developing Countries* played an important role. It was emphasized that education in OR mathematics is well developed in most countries. However, the OR education in developing countries (and not just there) lacks the integration into decision processes. It was agreed that much remains to be done in this field of "Social OR."

Several sessions were dedicated to new technology. This included robotics, office automation, telecommunications, and today's and tomorrow's computer systems. Emphasis was placed on decision support systems, artificial intelligence, and expert systems. These sessions cast some interesting light on the challenging future of OR.

The eleventh IFORS Conference will be held in Buenos Aires in 1987.

* President of IFORS

[Prof. Müller-Merbach writes a monthly letter to the IFORS membership. Following are excerpts from one of them that holds special interest for Computer Scientists.

–the Editor]

The development of OR is being accompanied by the progress of computing technology, even if OR has a slightly longer "active" history. When from 1938 through the early forties the OR pioneers developed and applied the interdisciplinary approach of OR, no computer was yet available. When in the late forties and in the fifties the mathematical programming (and other) techniques were designed, the computers of the first generation were accessible to accomplish the iterative procedures with—at that time—"large" sets of data. The sixties and seventies brought more effective computing machinery and allowed quite advanced applications of optimization and simulation techniques with even bigger sets of data. The eighties brought another dimension: the personal computer.

It has been discussed in the British Operational Research Society and in other Member Societies of IFORS whether the development of OR depends upon the advancing computing technology, whether it is only supported by this technology, or whether it should be seen independent of the progress of computing technology. It has been argued that particularly the personal computer provides new opportunities for the application of OR.

However, OR and Computer Science (CS) seem to have a much more important aspect in common, far beyond the computing machinery itself. As far as practice is concerned, the core of OR as well as that of CS is modelling, i.e., structuring information about reality. With respect to modelling activities, there is hardly any fundamental difference between OR and CS. Only the technical background may be different.

The conclusion is: it is not basically the computing machinery that causes the proximity of OR and CS. Instead, it seems to be the fundamental identity of the modelling process in practice that links OR and CS closely together. ■

THE PAST

IFIP Council meeting, October 1961 in Denmark

IFIP Council meeting, October 1961 in Denmark

Past Presidents: A. Speiser, I. Auerbach, and A. Dorodnicyn

*Past Presidents: **H.** Zemanek, **R.** Tanaka, and P. Bobillier*

A. Walther opening Congress '62

General Assembly at Congress '86

Past President I. Auerbach at 10th Anniversary

1977 General Assembly in Toronto

THE PRESENT

Mr. Ashley Goldsworthy's involvement with IFIP began in 1974. At that time, he was President of the Australian Computer Society and attended the IFIP General Assembly (GA) to support his country's bid to have the 1980 Congress held in Australia. Eventually, the Congress was held as a joint event between Japan and Australia, with the first week being held in Tokyo and the second week in Melbourne. Mr. Goldsworthy served as chairman of the Australian Organizing Committee of that Congress, from 1974-1980.

He has attended every Council and General Assembly since 1974, first as chairman of the Organizing Committee for Congress '80, and then as Australia's representative in 1980. He was elected a trustee in 1980 and a vice-president in 1983. He has been chairman of the Activity Planning Committee since 1981.

Mr. Goldworthy is a graduate in accounting, economics, and administration from the University of Queensland, and has a M.Sc. from the Griffith University, also in Queensland. He has been active in computing since the early 1960's: first in Telecom Australia, then in the Bureau of Statistics, followed by several years in an insurance company. He is currently the chief executive of one of Australia's largest building societies (savings and loan associations). His special interests in information processing are in the social and economic impacts of computing, and management; he has published over 70 papers in those areas.

Mr. Goldsworthy was the first Australian to be honored by her Majesty the Queen for services to the computing profession when he was awarded the high honor of Officer of the Order of the British Empire in 1982. In 1981 he was chosen as Australia's first "Computer Professional of the Year."

He is a Fellow and one of only seven Life Members of the Australian Computer Society and served an unprecedented two terms as president of that society in 1974-76 and 1982-83. He has been a member of its governing Council continuously since 1968, two years after its founding. He has been chairman of Australia's National Information Technology Council since its birth in 1979. He is also a Governor of the International Council for Computer Communication (ICCC), one of IFIP's Affiliate Members. He is heavily involved on a variety of committees at several universities and on national advisory committees in fields as diverse as the National Library of Australia and the Australian Law Reform Commission.

Mr. Goldsworthy and his wife Shirley, who is a ballet teacher, live in Brisbane, Queensland. They have four grown children and recently became the proud grandparents of their first grandchild. ■

WCCE/85 COMING SOON

World Conference on Computers in Education

A broad and practical program awaits computer educators from sixty countries at the 1985 World Conference on Computers in Education (WCCE/85) in Norfolk, Virginia, this July. This is the fourth WCCE sponsored by IFIP's Technical Committee for Education (TC3); this year, it is co-sponsored by the American Federation of Information Processing Societies, Inc. (AFIPS). The five day conference, to be held July 29 through August 2, will offer 130 sessions: paper presentations, tutorials, surveys, and panels. Pre-conference workshops, an exhibition, and informal round-table discussions will further enhance the program offering.

Prof. Gerald Engel (USA) is Conference chairman, and Prof. John Hamblen (USA) is Program Committee chairman. Dr. Karen Duncan (USA) and Ms. Diana Harris (USA) are co-editors of the Conference proceedings, which will be published by North-Holland.

One hundred fifty papers have been selected for presentation. The topics represent a variety of research and application areas ranging in level from Early Childhood to University and Continuing Adult Education. Nine special sessions will focus on the current status of the educational use of computers internationally, and they will also make projections for the future of computers in education. Noted authorities from both academic and non-academic institutions will discuss topics of current interest in panel discussions. Half-day tutorials are scheduled to allow deeper treatment of some subjects.

Seventeen pre-conference workshops of one or two day duration will take place 26-28 July. These will provide in-depth, hands-on experiences in the broad spectrum of educational computing: microcomputers in the science laboratory, planning a national policy, programming languages, color graphics, curriculum planning, leadership training, and others. Workshop size will be limited to assure active participation. An additional registration fee and separate, advance registration will be required.

Over 100 exhibitors will present the latest technology and programs available for all educational levels.

For further information and early registration write-

WCCE/85 c/o AFIPS
1899 Preston White Drive
Reston, VA 22091 USA
phone (800) 622-1985
or TWX 710-833-9037. ■

NETWORKS 84

Communications Symposium in India

The Computer Society of India (CSI), in collaboration with the IFIP Technical Committee on Data Communication (TC6), organized NETWORKS 84. This international symposium on data communications and computer networks was held in Madras 19-21 October 1984, attracting 558 delegates from 12 countries. Other events connected with the symposium were a workshop on fundamentals of data communication, a tutorial on local area networks (LANs), a seminar on social implications of networks, and a panel discussion on the benefits of computer networks, held in Bombay and Delhi.

The symposium was inaugurated by Mr. S.R. Vijayakar, Secretary of the Department of Electronics of India. Major General A. Balasubrahmanian, IFIP representative from India, Prof. André Danthine (B), TC6 Chairman, and Dr. O.P. Mehra, President of CSI, participated in the opening ceremonies. Prof. H.N. Mahabala (India's TC6 member) and Mr. S. Sathyanarayana (IND) were chairmen of the Program and Organizing Committees, respectively.

Twenty-eight papers from ten countries provided the main content of the symposium; 17 of these will be printed in the Conference Record, to be published by North-Holland. Also, an exhibition was organized, including a LAN connecting micros used in the program for Computer Literacy and Studies in Schools, launched by the Government of India; networking hardware and software from the Indian computer industry; and a telegraph office at the symposium venue, using a store and forward system.

The IFIP Development Fund and a grant from the United Nations Economic, Scientific and Cultural Organization (Unesco) to the IFIP Committee: Informatics for Development (ICID) helped sponsor two experts who also delivered tutorials at Bombay and Delhi. Twelve professionals attended a TC6 meeting that coincided with NETWORKS 84, and many of them assisted with the workshops and delivered invited talks.

Recognizing the value of IFIP/CSI programs, the participants looked forward to NETWORKS 88 and also specialized conferences in related areas. ■

*by Mr. Basil Trapezanoglou (GR) **

The Greek Society of Computer and Information Scientists (GCS) is a learned society that represents scientists working in the computer field in Greece. It was established in 1977 and currently has about 360 full members and approximately 80 members in other categories.

The GCS has as its aims promoting public awareness of matters involving information technology, contributing to the development of and promoting research and education in information technology, representing computer scientists in Greece, and introducing a professional code of practice for information technology professionals.

The GCS publishes a monthly news bulletin and a quarterly scientific publication *Informatics*. In addition, it organizes lectures, conferences, and seminars covering various professional and scientific topics and offers its consultant service to government agencies on matters related to computers. For its members, the Society maintains a technical library and a job finding service. It also participates in many computer fairs with lectures, special publications, and other assistance.

* IFIP GA representative of Greece, and president of the Greek Computer Society

It has working groups preparing an English-French-Greek computer glossary (according to the International Standards Organization's standards), organizing educational programs and presentations of technological innovations, and preparing job descriptions and standards for computer-related activities. A committee has also organized an International Conference concerning *Technology Transfer and Computer Industry*, which will be held in Athens in September.

National Conference

The first GCS National Conference, organized in cooperation with the Technical Chamber of Greece (an institution representing all engineers), took place 3-6 April 1984 in Athens. Opened by Prime Minister Papandreou, it was attended by about 700 people. About one hundred technical and policy papers were presented. Representatives of the European Economic Community and the Intergovernmental Bureau for Informatics attended, as well as representatives of learned societies from Algeria, Bulgaria, Ireland, Hungary, Cyprus, and the USSR.

Admission of the GCS to IFIP was approved by the IFIP General Assembly in Paris in September 1983. Its participation in IFIP is funded by the Greek Ministry for Research and Technology. It is represented in six of IFIP's technical committees and in the IFIP Committee: Informatics for Development (ICID). The GCS is trying to take advantage of IFIP's expertise in technical matters. It is constantly concerned with matters relating to policy-making and therefore anticipates a close cooperation with ICID. ■

EUROMICRO 1984

EUROMICRO 84 was the tenth in a series of annual symposia organized by the European Association for Microprocessing and Microprogramming, an affiliate member of IFIP. It was held in Copenhagen 27-30 August 1984 and attracted 200 delegates. Mr. John Molgaard (DK) organized the symposium, which included 35 full papers, 24 short notes, and three tutorials.

The EUROMOUSE contest was held in conjunction with EUROMICRO. It is an international competition in which robot "mice" must race against the clock to find the center of a 3-meter maze. Fifteen mice were entered. In the finals, five mice managed to solve the tricky maze and find the center.

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INFORMATION TECHNOLOGY AND BENEVOLENT BUREAUCRACIES

WG9.2 Conference Held in Belgium

*by Mr. Richard Sizer **

IFIP's Working Group on Social Accountability (WG9.2) held a conference in Namur, Belgium from 3-6 January. The conference attempted to answer the question: "Can information technology result in benevolent bureaucracies?" This was, in fact, the title of the conference.

The theme had been arrived at after numerous working group revisions spread over four years. Members varying from social, political, and computer scientists to legal experts, industry-based psychologists, and communications engineers had found common ground in a belief that information technology would result in increasingly bureaucratic structures in society and that the problem was therefore to see if benevolent—as opposed to malevolent—bureaucracies could be made to result.

The three and one-half working days were modelled on the style of classic Greek debate in an open forum with keynote speakers and group development of ideas, but with the added task of each group being observed in the development of its ideas by other groups. A competitive spirit was deliberately engendered and delegates were aware that a prize would be awarded to the group with the best answer to the question posed by the conference title.

Each group had a leader, selected by the organizing committee, who had to perform as an orator at the final session—the Greek *agora—in* persuading the conference as a whole to adopt his group's answer. The winning orator was Prof. Vincent Brannigan (USA), whose impassioned address is to appear in the conference proceedings.

A most successful start was made to the conference with an opening paper read by Dr. Riccardo Petrella (I). Some twenty papers followed, all of which are to be published in the proceedings, together with the ideas developed by the groups during the course of the conference.

Forty-two people participated, drawn primarily from western Europe. The local organiser was Prof. Jacques Berleur (B), and the conference was chaired by Mr. Richard Sizer (GB). The conference proceedings are being prepared and edited by Prof. Louise Yngström (S) and Mr. Sizer, assisted by Prof. Berleur and Prof. Romain Laufer (F). They are due to appear later this year, published by North-Holland. ■

* chairman of WG9.2 and of the Conference: *Can Information Technology Result in Benevolent Bureaucracies?*

EUROMICRO continued from page 9

The winner was *Enterprise* from GB, with an amazing time of 27 seconds. A packed audience cheered as it streaked along the stretches at up to 3 meters per second. *Manu,* from Finland placed second with a time of 41 seconds. Third place was won by *T5,* from GB.

The youngest competitors were a group of 17-year-old schoolboys from GB. Their mouse, *Fullyautomatix,* was defeated by the labyrinth, but they received consolation prizes. One other mouse was not a competitor: *Mappy,* in the shape of a policeman, found and burst a balloon in the center of the maze and then made off with siren blaring.

The mice were of a standard better than ever before, said Dr. John Billingsley (GB), who organized the EUROMOUSE contest. The next one will be held in conjunction with EUROMICRO 85. In addition, a new contest will be introduced: robots playing ping-pong.

For information on EUROMICRO 85, to be held 3-6 September in Brussels, contact-

EUROMICRO
c/o TH Twente
P.O. Box 217
Dept. INF, Room A306
7500 AE Enschede, The Netherlands ■

HCC 3 TO BE HELD IN SEPTEMBER

Third Conference on Human Choice and Computers

The Third Conference on Human Choice and Computers (HCC 3) will take place 2-5 September in Stockholm, sponsored by the IFIP Technical Committee on the Relationship between Computers and Society (TC9). (HCC 3 was discussed in the February 1984 issue of the *IFIP Newsletter* (p.5).) The conference will center on comparative reports on national policies, problems, and social progress in the human use of computers from the viewpoint of approximately 20 participating countries and regional groups. No one has systematically done this before, and the proceedings of HCC 3 are expected to help guide governments and international agencies, and to be a unique contribution to the world literature on social consequences of computers.

Working groups will play a major role in HCC 3. Among the topics with which they will deal are "Computers, Democracy and Political Process," "National and International Strategies for Advancing Computer Literacy," "Home Information Systems and Social Networks," and "Women, Work and Computerization." Each conference participant will indicate his preferences, and the HCC 3 program coordinators will set up intimate, , small groups able to have full and free personal exchange of ideas. Each group will present a short summary of its agreements, disagreements, and recommendations at the last HCC 3 plenary session. The edited summaries will be included in the proceedings.

For the conference brochure, registration form, and further information, contact the HCC 3 Secretariat:

HCC 3
c/o RESO Congress Service
S-105 24 Stockholm, Sweden
tel. +46 8 22 60 20
telex 103 23
cable folkreso, Stockholm ■

CHANGES IN IFIP

NEW APPOINTMENTS

Members of Technical Committees

TC 2
Prof. J.M. Bishop, Rep. of South Africa
(succeeding S.W. Postma)

TC 3
Dr. Lydia Chan, SEARCC

TC 5
Mr. R. van Olst, Rep. of South Africa
(succeeding M.G. Rodd)

TC 6
Dr. P.R. Radford, United Kingdom
(succeeding D.W. Davies)

Members of Working Groups

WG 5.7
Mr. J. Vlietstra, The Netherlands

WG 8.3
Prof. A. Bosman, The Netherlands
Prof. H. Coelho, Portugal
Prof. G.P. Huber, U.S.A.
Prof. 0. Larichew, U.S.S.R.
Prof. A. McCosh, United Kingdom
Dr. J. Vecsenyi, Hungary

WG 10.5
Prof. P. Antognetti, Italy
Dr. D. Colton, Canada
Mr. D.J. Gale, Canada
Dr. E. Read, United Kingdom
Prof. G. Saucier, France
Dr. Elena Valderrama, Spain

CHANGES OF ADDRESS

GA Honorary Member
Mr. I.L. Auerbach
900 Centennial Road
Narbeth, P.A. 19082
U.S.A.

(Tel. and Telex Nos. unchanged)

WG 7.1 Chairman
Prof. Dr. A.V. Balakrishnan
Electrical Engineering Dept.
School of Engineering
6731K Boelter Hall
University of California
Los Angeles, CA. 90024
U.S.A.

CHANGE OF TELEPHONE NUMBER

WG 7.2 Chairman
Prof. I. Lasiecka

Tel. 1 (914) 392-0281

IFIP MEETINGS

IFIP TECHNICAL COMMITTEE AND WORKING GROUP MEETINGS*

WG 2.1	Dec 85	Menlo Park CA
WG 2.4	7-11 Oct 85	Dear Isle, Maine
WG 2.4	9-13 Jun 86	Trondheim
WG 2.5	22-24 Jun 85	Sophia-Antipolis, Nice
WG 2.7	23-27 Sep 85	Rome
WG 2.7	7-11 Apr 86	Princeton
WG 2.7	Sep 86	Ireland
TC 3	26-27 Jul 85	Norfolk, VA
WG 3.1	1 Aug 85	Norfolk, VA
TC 5	10 Jun 85	Paris
WG 5.3	10+13 Jun 85	Paris
WG 5.7	30 Aug 85	Budapest
TC 6	29-30 Sep 85 or 5-6 Oct 85	Budapest
TC 7	27-28 Mar 86	Cape Town
WG 7.2	3 Sep 85	Budapest
WG 8.1	2-6 Sep 85	Budapest
WG 8.2	2-3 Sep 85	Boston
WG 8.3	18 Aug 85	Athens
TC 9	early Oct 85	Dubrovnik
WG 9.2	6-7 Sep 85	Stockholm
WG 10.2	31 Aug-1 Sep 85	Stockholm
TC 11	29-31 Aug 85	Tokyo
	12 Aug 85	Dublin

* Please note: some of above are scheduled in conjunction with Working Conferences, for which the conference dates are listed.

IFIP GENERAL ASSEMBLY AND COUNCIL (AND RELATED MEETINGS)

GA	2-7 Sep 85	Tokyo
COUNCIL	10-14 Mar 86	Lisbon

IMIA

IMIA/AGM	22-23 Oct 85	Lisbon

CALLS FOR PAPERS

CHRIS 86, Improving the Practice,
(Comparitive Review of Information Systems Design Methodologies)
Sponsor: IFIP WG 8.1
May 5-7 1986, Noordwijkerhout, Netherlands
papers due: 30 Jun 1985
contact: Prof. Dr. H.G. Sol
Dept. of Computer Science
Information Systems Group,
Delft University of Technology,
Julianalaan 132, 2628 BL DELFT, Netherlands

2nd Intl. Conference on Computer Applications in Production and Engineering, CAPE '86
sponsors: IFIP TC 5/DIF-DATA/IFAC/ Scan. CAD:CAM Soc./ DDPA/IFORS/ FACE
May 20-23,1986 Copenhagen, Denmark
ext. abstracts or papers due: 1 Jul 1985
notification of acceptance: 1 Oct 1985
full papers due: 15 Dec 1985
contact: CAPE '86, c/o DIS CONGRESS SERVICE, 48 Linde Alle, DK 2720 VAN LOSE/COPENHAGEN, Denmark

Working Conference on DECISION SUPPORT SYSTEMS:
A Decade in Perspective
sponsor: IFIP WG 8.3
Jun 16-18 1986,Noordwijkerhout, Netherlands
description due: 1 Jun 1985
full papers due: 1 Oct 1985
notification of acceptance: 1 Dec 1985
contact: Prof. Dr. H,G. Sol
Dept. of Computer Science, Center for Information Systems,
Delft University of Technology,
Iulianalaan 132, 2628 BL Delft, Netherlands

10th IFIP World Computer Congress, Informatics - A New Awareness
sponsor: IFIP
Sep 1-5, 1986, Dublin, Ireland
papers due: 1 Nov 1985
for full details regarding paper submission,
contact: Congress Secretariat,
IFIP Congress '86
44 Northumberland Road,
Dublin 4, Ireland

NEW IFIP PUBLICATIONS*

CONFERENCE PROCEEDINGS

System Description Methodologies
Proceedings of the IFIP TC2 Working Conference,
Kecskemet, Hungary, May 1983
(D. Teichroew, G. David, Eds.)

Knowledge Representation for Decision Support Systems,
Proceedings of the IFIP WG 8.3 Working Conference,
Durham, U.K. Jul 1984
(L.B. Methlie, R.H. Sprague, Jr., Eds.)

Computer Security: A Gobal Challenge,
Proceedings of the IFIP TC 11 Conference on IFIP/Sec '84
Toronto, Ontario Canada, Sep 1984
(J.H. Finch, E.G. Dougall, Eds.)

Networks in Office Automation
Proceedings of the IFIP TC 6 International In-Depth Symposium
Sofia, Bulgaria, Sep 1984
(K.L. Boyanov, Ed.)

Data Communications in the ISDN Era
Proceedings of the IFIP TC 6 1st International Conference,
Tel-Aviv, Israel, Mar 1985
(Y. Perry, Ed.)

Computerization and Work - A Reader on Social Aspects of Computerization
A Collection of Articles by Members of IFIP WG 9.1,
(U. Briefs, J. Kjaer, J.-L. Rigal, Eds.)
Published by Springer-Verlag

JOURNALS

Computers in Industry. The International Journal of IFIP TC5
six issues per year

Information & Management, The International Journal of Information Systems Applications
ten issues per year

Microprocessing and Microprogramming, The Euromicro Journal
ten issues per year

Computer Networks, The official Journal of the International Council for Computer Communications
ten issues per year

Computers & Security, The International Journal of IFIP TC 11
four issues per year

Pattern Recognition Letters, The Journal of the International Association for Pattern Recognition
six issues per year

* published by Elsevier/North-Holland in 1985, unless otherwise noted

CALENDAR OF EVENTS

Event	Date	Location	Organized by
Work. Conf. on *Protocol Specification, Testing and Verification*	10-13 Jun 85	Toulouse, France	WG 6.1
Work Conf. on *Human-Computer Communications in Health Care*	10-14 Jun 85	Stockholm, Sweden	IMIA
6th Intl. Conf. on *Software for Discrete Manufacturing - PROLAMAT 1985*	11-13 Jun 85	Paris, France	WG 5.3/IFAC
First Intl. Conf. on *Image Science 85*	11-14 Jun 85	Otaniemi, Finland	HUTECH
Workshop on *CAD/CAM/CIM*	14-16 Jun 85	Sprockhovel, FRG	TC 9/WG 9.1
Work. Conf. on *Problem Solving Environments for Scientific Computing*	17-21 Jun 85	Sophia-Antipolis, France	WG 2.5
4th Scandinavian Conference on *IMAGE Analysis*	18-20 Jun 85	Trondheim, Norway	IAPR
Work. Conf. on *Pattern Recognition in Practice, II*	19-21 Jun 85	Amsterdam, NL	IMIA
Symposium on *Automation for Safety in Shipping and Offshore Petroleum Operations - ASSOPO '85*	25-27 Jun 85	Trondheim, Norway	WG 5.6/IFAC
Seminar on *CAD/CAM/CAE for Industrial Progress*	29-30 Jun 85	Bangalore, India	WG 5.2 & 5.3
15th Intl. Conf. on *Fault Tolerant Computing*	Jun 85	Ann Arbor, MI, USA	TC10/IEEE
11th Latinamerican Informatics Conf. - *PANEL '85*	20-27 Jul 85	Porte Alegre, Brazil	CLEI
4th World Conf. on *Computers in Education - WCCE'85*	29 Jul-2 Aug 85	Norfolk, VA, USA	TC3
3rd Symposium on *CAD in Control and Engineering Systems*	31 Jul-2 Aug 85	Lyngby, Denmark	IFAC/IFIP TC5 co sp.
Workshop on *Theoretical Computer Science & VLSI Design*	Jul 85	Edinburgh, UK	WG 10.5
11th IMACS World Congress - *System Simulation & Scientific Computation*	5-9 Aug 85	Oslo, Norway	IMACS
3rd Intl. Conf. - *IFIPISEC'85*	12-15 Aug 85	Dublin, Ireland	TC 11
11th Intl. Conf. on *Very Large Data Bases - VLDB 85*	21-23 Aug 85	Stockholm, Sweden	VLDB/TC2
Sixth Int. Congress of the *European Federation for Medical Informatics*	25-29 Aug 85	Helsinki, Finland	MIE
Intl. Conf. - *VLSI 85*	26-28 Aug 85	Tokyo, Japan	WG 10.5
Work. Conf. on *The Use of Computers in Teaching Mathematics in Developing Countries*	26-30 Aug 85	Yamoussoukro, Ivory Coast	TC3/ICMI
Joint 2nd Conf. on *Advances in Production Management Systems* and 7th Conf. of the Intl. Compcontrol Committee *Conputer Applications in Production Management and Engineering - APMS-COMPCONTROL 85*	27-30 Aug 85	Budapest, Hungary	WG 5 .7/CAEB
7th Intl. Symp. on *Computer Hardware Description Languages & their Applications - CHDL 85*	29-31 Aug 85	Tokyo, Japan	TC10/WG10.2
3rd Conf. on *Human Choice & Computers - HCC3*	2-5 Sep 85	Stockholm, Sweden	TC 9
12th General Conf. on *Systems Modelling & Optimization*	2-6 Sep 85	Budapest,Hungary	TC7/IFORS/ Hung.Acad.Sci.
11th Symposium on *Microprocessing & Microprogramming EUROMICRO 85*	3-6 Sep 85	Brussels, Belgium	EUROMICRO
Work. Conf. on *Environments to Support Information Systems Design Methodologies*	4-6 Sep 85	Bretton Woods, USA	WG 8.1
Conf. on *Computer Message Systems*	4-6 Sep 85	Washington, USA	WG6.5/EMA
2nd. Conf. on *Analysis, Design and Evaluation of Man-Machine Systems*	10-12 Sep 85	Varese, Italy	IFAC/IFIP/ IFORS/IEA
First *Pan Pacific Computer Conference*	10-13 Sep 85	Melbourne, Australia	ACS/IFIP
5th Intl. Conf. On *Computer Applications in the Automa-don of Shipyard Operation and Ship Design - ICCAS '85*	16-20 Sep 85	Trieste, Italy	WG 5.6/IFAC
7th Intl. Conf. on *Digital Computer Applications to Process Control*	17-20 Sep 85	Vienna, Austria	IFAC/TC5
Int. Seminar on *Computer Networking and Performance Evaluation*	18-20 Sep 85	Tokyo, Japan	WG 7.3
Work. Conf. on *The Future of Command Languages*	23-27 Sep 85	Rome, Italy	WG 2.7
Conf. on *OR Models on Microcomputers*	25-27 Sep 85	Lisbon, Portugal	APDIO/API/ IFORS
Work. Conf. on *Office Systems*	30 Sep-4 Oct 85	Finland	TC 8/FIPS
Work. Conf. on *Computer Aided Decision Making*	30 Sep-4 Oct 85	Prague, CSSR	IMIA
Work. Conf. on *Design Theory for CAD*	*1-3* Oct 85	Tokyo, Japan	TC 5
Conf. on *Services Conveyed by Computer Networks - COMNET 85*	1-4 Oct 85	Budapest, Hungary	TC 6
13th Workshop on *Real Time Programming*	7-8 Oct 85	West Lafayette, USA	IFAC/WG 5.4
Malaysian National Computer Conference: *Computers and Development*	16-18 Oct 85	KualaLumpur, Malaysia	MCS/UPM
Workshop on *Automatic Control in Petroleum, Petrochemical and Desalination Industries*	18-20 Nov 85	Kuwait	IFAC
Working Conference on *Logical Structure of Distributed Information Processing*	18-22 Nov 85	Venice, Italy	TC 2
Symposium on *Modelling and Control of Biotechnical Processes*	11-13 Dec 85	Noordwijkerhout, NL	IFAC
IFIP 86 - 10th World Computer Congress	1-5 Sep 86	Dublin, Ireland	IFIP
IFIP 89 - 11th World Computer Congress	28 Aug-1 Sep 89	San Francisco, U.S.A.	IFIP

Please see page 11 for IFIP Meetings Schedule.