San Francisco – Here We Come

13th IFAC World Congress
San Francisco, USA, 30 June – 5 July, 1996

The final preparations for the IFAC World Congress are at full swing now. The National Organizing Committee held a meeting on May 3 and 4 at the Congress hotel, inspected the facilities and consulted with hotel personnel. The hotel is located in the heart of San Francisco, perhaps the most exciting city in the United States. The hotel facilities are excellent and it is very good to have everything literally under one roof. The hotel will house not only the technical sessions (including the plenaries and the poster sessions) but also the opening and closing ceremonies and receptions, the Congress dinner (American barbecue) and the technical exhibition. The only potential problem foreseen at this time is that, because of the way the session rooms are set up, some rooms may be a bit tight at some times. So our advice is that if you plan to attend a popular session, be there early to secure a (good) place.

The number of advance registrations is about 1300; a part of them is still being processed. Of these, about 850 are from outside the US and Canada. With more registrations being expected on the spot, we are looking forward to a well attended Congress.

The Final Program is ready and will be available to all participants as part of their registration package. Those needing an advance copy may obtain one by mail, by sending an e-mail request to tarn@wurobot.wustl.edu. The Final Program contains the detailed listing of the 1414 papers by session, together with an author’s index. There have been very few changes relative to the Advance Program; these are listed below:

The title of the Plenary Paper by Brian D.O. Anderson has been changed to: From Youla-Kucera to Identification, Adaptive and Nonlinear Control
A new special session has been added (Wednesday morning, Track N) Fiscal Means by Reducing Unemployment in a Developed Economy, by John F. Coales, Cambridge University A new panel discussion has been added (Monday afternoon, Track E) Artificial Hearts - A Challenge to Control Engineers
The panel discussion on Standards in the Control Industry has been cancelled.

More information about the technical program and other details can be obtained electronically from the IFAC Congress homepage: http://web.eecs.nwu.edu/~ahaddad/ifac96.html or via anonymous ftp from: ftp.eecs.nwu.edu, directory/pub/ifac96

The publications are in good shape. The full material has been collected; 34 of the 1414 papers were not received. The material has been compiled into 17 subject volumes and is ready for printing. The Plenary Volume will contain a cumulative contents list and indexes (by author and subject) for all volumes. The preparation of the CD-ROM is also in progress.

The committees selecting the winners of the Congress Prizes (Applications Paper Prize, Young Author Prize, Poster Prize) are working diligently and have made good progress in the selection process. Similarly, the Financial Aid Committee has, in a great effort, selected those authors from developing and financially strained countries who will receive stipends or reduced registration.

Janos Gertler
Editor of Congress Proceedings
The Technical Board Chairman Reports
Excerpts from the Triennial Report 1993 – 1996

Since the last triennial World Congress of IFAC, the Federation has undergone a substantial reorganization of its technical structure. Without prejudice to a thorough evaluation of the new structure by the General Assembly and other IFAC bodies, a few general remarks seem to be in place.

The major task to be undertaken in the first year after the changes were made in the IFAC Constitution, was the administrative implementation of the new structure. Thus, in January 1994, 46 Technical Committees were created and grouped into 9 Coordinating Committees. The Technical Committees by and large correspond to the former Working Groups, which were elevated to Technical Committee level, thus giving them more visibility. The Coordinating Committees are a vital link between the Technical Board and its Technical Committees in the new structure. The structure of the committees is not considered to be fixed forever. An amount of overlap in the scopes of the existing committees or the need for new committees in emerging fields should call for changes. A list of the Coordinating Committees and of the Technical Committees is regularly published in the IFAC Journals and in other IFAC publications.

During the second year, the emphasis was on developing a thorough understanding of the new structure. The third year was dominated by the preparation of the technical program for the Congress in San Francisco. Careful consideration has been given to tuning up the structure of the Coordinating- and Technical Committees.

The field of automatic control is a discipline with a relatively short history and a rapid development. The creation of adaptive systems, controllers, design guidelines, computers in control, and system identification continued to enjoy highest popularity. The most dynamically developing areas are those of nonlinear systems, automotive control, chemical process control and biomedical engineering. On the other hand, large scale systems, manufacturing technology, economic and management systems as well as the social aspects of automation suffered a slight loss of popularity in terms of IFAC activities. IFAC puts due emphasis on control education. This vital field is promoted through technical meetings, awards and publications. New fields of interest for IFAC are fuzzy and neural systems.

One of the main responsibilities of the Technical Board is to identify the need for technical exchanges in the fields and to solicit, sponsor and promote the resulting technical meetings hosted by NMOs. In total, the following number of meetings has been held during the triennium:

- 23 Symposia (as identified in the Master Plan)
- 8 Conferences
- 4 Regional Conferences (American-, Asian- and European Control Conferences) which are organized in cooperation with IFAC
- 26 co-sponsored events

2 meetings have been approved to be held in 1996 and 15 for 1997. Currently, 11 applications are pending. The most active NMOs in hosting technical meetings (time-span 1980 – 1995) include the USA, France, the UK, Germany, Austria, Japan and China, P.R.

The quality of technical meetings is monitored and evaluated by the Chairman and the members of the Technical Board. The quality of technical papers is good. In an attempt to further improve this quality, the Technical Board in 1995 and subsequently also the Council agreed that paper submission for Symposia and Conferences will be in the future be on full draft paper basis. For Workshops this is at the discretion of the organizers.

IFAC is concerned with the registration fees of its technical meetings. A new application form for IFAC sponsored meetings was prepared by the Technical Board and by the Secretariat in 1995. The new forms ask for a whole range of registration fees as well as other cost details regarding the meals and accommodation. The organizers of technical meetings are encouraged to offer a limited number of low registration fees to students. Any changes of fees are subject to advance approval to be sought through the IFAC Secretariat. The IFAC bodies very strongly consider adherence to these regulations. In one case, an organizer failed to obtain approval for the considerable increase of the registration fee and subsequently ignored the request to reduce the fee. As a consequence no events will obtain IFAC approval in this country for three years following the event in question.

The Technical Board has been directly involved in the preparation of the technical program for the 13th IFAC World Congress in San Francisco. These activities included the call for papers, call for workshops, list of keywords, program structure and paper reviews by the Technical Committees.

The efficiency of the new structure of the Technical Board will depend to a large extent on the Coordinating Committees. A training session for the new chairpersons of the Coordinating and Technical Committees is organized during the World Congress, prepared by the Technical Board.

More than one thousand control scientists and engineers have been involved in the Technical Board activities through its various committees. I wish to thank them all for being an essential part of IFAC.

Vladimir Kucera, Vice-President Chairman, Technical Board

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This Newsletter may be reproduced in whole or in part. We encourage reprinting in national and local automatic control periodicals. Acknowledgement to IFAC would be appreciated.

IFAC Meeting Papers – Keyword Listing

Human-Oriented Design of Advanced Robotics Systems, September 1995, Vienna, Austria
Artificial Intelligence in Real-Time Control November 1995, Bled, Slovenia
Control Education and Technology Transfers September 1995, Parana, Brazil

Index of IFAC Meeting Papers
Book Reviews
Conference Calendar

Control Engineering Practice
Volume 4, Number 6, June 1996

Preview:
An Industrial Dead-Time Compensating PI Controller
(T. Högland)
A Kinetic Model for the Penicillin Biosynthetic Pathway in Penicillium Chrysogenum (B. Nielsen and H.S. Jørgensen)
Intelligent Control for a Plant Production System (T. Morimoto, K. Hatou and Y. Hashimoto)
Self-Tuning of a PI Controller Using Fuzzy Logic, for a Construction Unit Testing Apparatus (M. Berger)
Nonlinear Controllers for Vibration Suppression in a Large Flexible Structure (F. Casella, A. Locatelli and N. Schiavoni)
Frequency Domain Approach to Self-Tuning PID Control (M.K. Ho, C.C. Hang, W. Wojsznis and Q.H. Tao)
Adaptive Control of Bilinear Systems with Bounded Disturbances, and its Application (Yihui Jin, Xi Sun and Changzi Fang)

Papers from the 13th Workshop on Distributed Computer Control Systems (DCCS'95)
(Guest Editor: A.E.K. Sahrroui)

Preface to the Papers from the 13th Workshop on Distributed Computer Control Systems (DCCS'95) (A.E.K. Sahrroui)
Integration of Wireless Mobile Nodes in MAP/MMS (P. Morel and J.-D. Decatoire)
Dynamic Task Mapping in a Real-Time Controller for Distributed Cooperating Robot Systems (T. Laute, T. Laengle and J. Heinzman)
Multiagent-Based Control Systems: A Hybrid Approach to Distributed Process Control (J.R. Veldos, J.C. Gonzalez, L. Magdalena and C.A. Igalas)
On the Complementary Nature of Event-Driven and Time-Driven Models (P. De Paoli and F. Tisato)
Asynchronous and Synchronous Approaches for Programming Distributed Control Systems Based on Standards(R. Schoop and A. Strelzoff)
### FORTHCOMING EVENTS

**Title** | **Place** | **Deadline** | **Further Information**  
--- | --- | --- | ---  
**IFAC WORLD CONGRESS** | SAN FRANCISCO, USA |  
**JUNE 30 - JULY 5** |  
**14th Triennial IFORS Conference** | Vancouver, B.C., Canada |  
**July 11 - 12** |  
**1996 Latin American Control Conference** | Buenos Aires, Argentina |  
**(in cooperation with IFAC)** |  
**IFAC/IFIP Workshop (21st)** | Canela, Brazil |  
**Real Time Programming** |  
**Nov. 4 - 6** |  
**IEEE/IFAC Workshop** | Kobe, Japan |  
**Variable Structure Systems** |  
**Dec. 5 - 6** | **15 August 1996** |  
**IFAC/IFIP/IFORS Workshop** | Vienna, Austria |  
**Manufacturing Systems Modelling and Control** |  
**Feb. 3 - 5** | **31 Aug. 1996** |  
**IMACS/IFAC Symposium (2nd)** | Vienna, Austria |  
**Mathematical Modelling** |  
**Feb. 5 - 7** | **1 May 1996** |  
**MATHMOD '92** |  
**IFAC Symposium (3rd)** | Warwick, UK |  
**Modelling and Control of Biomedical Systems including** |  
**March 23 - 26** | **May 1996** |  
**IFAC Workshop** | Vilamoura, Portugal |  
**Algorithms and Architectures for Real-Time Control** |  
**April 9 - 11** | **15 Sept. 1996** |  
**IFAC/IEEE Symposium** | Ghent, Belgium |  
**Computer-Aided Control Systems Design – CACSD '97** |  
**April 28-30** | **1 Oct. 1996** |  
**IFAC Conference** | Belfort, France |  
**Control of Industrial Systems** |  
**May 20 - 22** | **20 May 1996** |  
**IMEKO/IFAC Congress** | Tampere, Finland |  
**New Measurement - Challenges and Visions** |  
**June 6** | **15 May 1996** |  
**IFAC '96** | POB 111, Mabelton GA 30059 USA  
**Phone** | +1/770/491-3641 |  
**FAX** | +1/770/491-4455 |  
**e-mail:** ifac96@nwu.edu  
**IFORS Conference** |  
**West Conference Services Ltd.** |  
**645-375 Water Street** |  
**Vancouver, BC, Canada V6C 3C4** |  
**FAX** | +1/604 681-2503 |  
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**WWW : http://ifs.iis.u-tokyo.ac.jp/VS96** |  
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**FAX +32/9/564 5839** |  
**e-mail : boullart@autocontrol.rug.ac.be** |  
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**F-90016 Belfort, France** |  
**FAX +33/94352342** |  
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**Finnish Society of Automation** |  
**Asennusvälineikkökatu 12 C** |  
**SF-00520 Helsinki, Finland** |  
**FAX +358 9 1461 650** |  
**e-mail : atufin@ibm.net** |
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<th>Event</th>
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<td>1997 American Control Conference</td>
<td>June 4-6</td>
<td>Albuquerque, NM, USA</td>
<td>15 Sept. 1996</td>
<td>Prof. A. Haddad, AACC Secretariat, Dept. of EECS Northwestern University, 2145 Sheridan Road, Evanston, IL 60208-3118, USA. FAX +1/708/491-4455. E-mail: <a href="mailto:ahaddad@eecs.nwu.edu">ahaddad@eecs.nwu.edu</a></td>
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<tr>
<td>IFAC Symposium (3rd)</td>
<td>June 9-11</td>
<td>Annecy, France</td>
<td>1 Sept. 1996</td>
<td>Prof. Laurent Fouloy, LAMII/CESA/PLP, BP 806 F-74016 Annecy, France FAX +33/50 66 60 63 E-mail: <a href="mailto:fouloy@univ-savoie.fr">fouloy@univ-savoie.fr</a></td>
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<td>Intelligent Components and Applications – SICICA 97</td>
<td>June 9-11</td>
<td>Banff, Canada</td>
<td>2 Sept. 1996</td>
<td>Prof. Sirish L. Shah, Dept. of Chemical Engineering University of Alberta, Edmonton, Alberta, T6G 2G6 Canada FAX +1/403/492-2881 E-mail: <a href="mailto:Sirish.Shah@ualberta.ca">Sirish.Shah@ualberta.ca</a></td>
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<tr>
<td>IFAC/IFIP/IFORS Symposium (8th)</td>
<td>June 16-18</td>
<td>Chania, Crete, Greece</td>
<td>31 July 1996</td>
<td>Prof. Markos Papageorgiou Dynamic Systems and Sim. Lab. Technical University of Crete GR-73100 Chania, Greece FAX +30/821 69410 E-mail: <a href="mailto:tis97@dsdl.tuc.gr">tis97@dsdl.tuc.gr</a></td>
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<td>Transportation Systems</td>
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<td>Intl. Conference</td>
<td>June 18-21</td>
<td>Warsaw, Poland</td>
<td>15 June 1996</td>
<td>Prof. Roman Kulikowski Systems Research Institute Polska Akademia Nauk ul. Nowelska 6 PL-01-447 Warsaw, Poland FAX: +48/22/372772 E-mail: <a href="mailto:ibs@ibspan.waw.pl">ibs@ibspan.waw.pl</a></td>
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<td>Transition to Advanced Market Institutions and Economies: Systems and Operations Research Challenges</td>
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<td>IFAC Symposium</td>
<td>June 25-27</td>
<td>Budapest, Hungary</td>
<td>30 Sept. 1996</td>
<td>Ms. Csilla Banyasz Computer and Automation Res. Inst. POB 63, H-1518 Budapest, Hungary FAX +361/1667 503 E-mail: <a href="mailto:hi10kev@huella.bitnet">hi10kev@huella.bitnet</a></td>
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<td>Robust Control Design</td>
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<td>1997 European Control Conference</td>
<td>July 1-4</td>
<td>Brussels, Belgium</td>
<td>1 Sept. 1996</td>
<td>M. Gevers/G. Bastin CESAME, Batiment Euler B-1348 Louvain-la-Neuve, Belgium FAX +32/10/472 180 E-mail: <a href="mailto:gevers@auto.ucl.ac.be">gevers@auto.ucl.ac.be</a></td>
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<td>in cooperation with IFAC</td>
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<td>IFAC Workshop</td>
<td>July 7-11</td>
<td>Pereslavl-Zalessky, Russia</td>
<td>1 April 1996</td>
<td>Prof. Michael G. Dmitrev Program Systems Inst. of RAS m Botik 152140 Pereslavl-Zalessky, Russia FAX 08535/20983 E-mail: <a href="mailto:dmitrev@spac.botik.yaroslavl.su">dmitrev@spac.botik.yaroslavl.su</a></td>
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<td>Singular Solutions and Perturbations in Control Systems</td>
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<td>IFAC/IFORS Symposium (11th)</td>
<td>July 8-11</td>
<td>Fukuoka, Japan</td>
<td>1 Sept. 1996</td>
<td>SYSID’97 Secretariat: Mrs. Y. Hayashi Fukuoka Institute of Technology 3-30-1 Higashi-Higashi, Fukuoka 811-02, Japan FAX +81/92-606 1542 <a href="mailto:y-hayashi@edc.eft.fic.ac.jp">y-hayashi@edc.eft.fic.ac.jp</a></td>
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<td>System Identification – SYSID ’97</td>
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<td>IFAC Symposium (4th)</td>
<td>July 14-16</td>
<td>Istanbul, Turkey</td>
<td>15 Oct. 1996</td>
<td>Prof. A. Talha Dinibütün Istanbul Technical University Mech. Engg. Faculty 34460 Istanbul, Turkey FAX +90/212-245 0795 E-mail: <a href="mailto:mdknh@itu.trri.bitnet">mdknh@itu.trri.bitnet</a></td>
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<td>Advances in Control Education ACE 97</td>
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<tr>
<td>IFAC Workshop</td>
<td>July 21-23</td>
<td>Seoul, Korea</td>
<td>30 Nov. 1996</td>
<td>Prof. Hyung Suck Cho Dept. of Mechanical Engineering Korea Advanced Inst. of Science &amp; Technology 373-1, Kusong-dong, Yusung-gu Taejon 305-701, Korea FAX +82/2/869 3210 E-mail: <a href="mailto:hscho@lca.kaist.ac.kr">hscho@lca.kaist.ac.kr</a></td>
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<td>Intelligent Manufacturing Systems</td>
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<td>1997 Asian Control Conference</td>
<td>July 22-25</td>
<td>Seoul, Korea</td>
<td>1 Sept. 1996</td>
<td>Prof. Dong-il Cho, 1997 ASCC Secretariat Automation and Systems Res. Institute Seoul National University, Bldg. 133 Kwanak-ku, Shinrim-dong, San 56 – Seoul 151-742, Korea, Rep. FAX +82/2/889-4239 E-mail: <a href="mailto:asc@asri.snu.ac.kr">asc@asri.snu.ac.kr</a></td>
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### FORTHCOMING EVENTS (ctd.)

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<td>IFAC Workshop</td>
<td>July</td>
<td>Seoul, Korea</td>
<td>28 - 30</td>
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<td>Distributed Computer Control Systems</td>
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<td>IFAC/CIGRE Symposium</td>
<td>August</td>
<td>Beijing, China, P.R.</td>
<td>18 - 21</td>
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<td>Control of Power Plants and Power Systems</td>
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<td>IFAC Symposium</td>
<td>August</td>
<td>Hull, UK</td>
<td>26 - 28</td>
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<td>Sept.</td>
<td>Nantes, France</td>
<td>3 - 5</td>
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<td>Robot Control</td>
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<td>IFAC Workshop</td>
<td>Sept.</td>
<td>Smolenice, Slovakia</td>
<td>7 - 10</td>
<td>1997</td>
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<td>Sept.</td>
<td>Brijuni, Croatia</td>
<td>10 - 12</td>
<td>1997</td>
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<td>Maneuvering and Control of Marine Craft – MCMC’97</td>
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<td>AI in Real-Time Control – AIRTC’97</td>
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<td>IFAC/ISHS Workshop (3rd)</td>
<td>Sept.</td>
<td>Hannover, Germany</td>
<td>28 - 30</td>
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<td>Mathematical and Control Applications in Agriculture and Horticulture</td>
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<td>System Structure and Control</td>
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<td>EPS/IFAC Intl. Conference</td>
<td>Nov.</td>
<td>Beijing, China, P.R.</td>
<td>4 - 7</td>
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<td>Accelerator and Large Experimental Physics Control Systems</td>
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<td>ICALEPCS 97</td>
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<tr>
<td>IFAC Symposium</td>
<td>March</td>
<td>Madrid, Spain</td>
<td>25 - 27</td>
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<td>Intelligent Autonomous Vehicles – I A V</td>
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<td>IFAC Symposium</td>
<td>June</td>
<td>Nancy, France</td>
<td>24 - 26</td>
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<td>Information Control Problems in Manufacturing – INCOM ’98</td>
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<td>IFAC Symposium</td>
<td>Sept.</td>
<td>Shenyang, China, P.R.</td>
<td>8 - 10</td>
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<td>Low Cost Automation LCA 98</td>
<td></td>
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<td>1 Oct.</td>
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</tbody>
</table>

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**Experience with the Management of Software Projects – MSP '95**

5th International Workshop
Karlsruhe, Germany
27 – 29 September, 1995

The Workshop took place at the University of Karlsruhe, with Professor Dr. P. Elzer, speaker of the GI-working group "Management of Software Projects" (in technical committee 2.1.1 "Software Engineering") as scientific chairperson. Dr. R. Richter, speaker of the technical committee 5.1.2 "Project-Management", was chairman of the national organizing committee. The aim of this series of workshops has been to exchange ideas and experience between all people involved in software projects. Since 1986 a workshop took place almost every two years on the average. This year's Workshop was attended by 53 participants from 12 countries. The high number of participants with practical experience was particularly satisfying.

The program of the Workshop consisted of four invited and eighteen submitted papers. The main topics were: models of the software development process; productivity in software development; measures to increase quality as well as a stronger orientation of software towards business processes. Before the Workshop proper, two half-day tutorials took place.

Many participants expressed the opinion that software development projects were often regarded from the too narrow point of view of software technology and therefore crucial management aspects were often neglected. Therefore one should concentrate on:

- How are projects to be planned and carried out?
- What organizational know-how is important?
- How can interdisciplinary groups be led and motivated?
- How can software technology and management cooperate better?

The Postprints of the Workshop will be published by Elsevier Science.

R. Richter, Chairman NOC.
P. Elzer, Chairman IPC.

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**Meeting Schedule**

**General Assembly Council- and Related Meetings**

San Francisco, USA
27 June – 6, July, 1996

In the framework of this year's World Congress, the General Assembly, the IFAC Council and all other bodies of IFAC will hold their administrative Meetings. Below find a survey over the most important meetings scheduled within that period.

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 June</td>
<td>Technical Board</td>
<td>09.00</td>
</tr>
<tr>
<td></td>
<td>(outgoing)</td>
<td>14.00</td>
</tr>
<tr>
<td>29 June</td>
<td>Executive Board</td>
<td>09.00</td>
</tr>
<tr>
<td></td>
<td>(outgoing)</td>
<td>14.00</td>
</tr>
<tr>
<td>30 June</td>
<td>Council</td>
<td>09.00</td>
</tr>
<tr>
<td></td>
<td>(outgoing ctd.)</td>
<td>13.00</td>
</tr>
<tr>
<td>Sunday</td>
<td>Congress Opening</td>
<td></td>
</tr>
<tr>
<td>1 July</td>
<td>General Assembly</td>
<td>13.00</td>
</tr>
<tr>
<td>Monday</td>
<td>Inaugural mtgs</td>
<td>18.00</td>
</tr>
<tr>
<td>6 July</td>
<td>Technical Board</td>
<td>09.00</td>
</tr>
<tr>
<td></td>
<td>(incoming)</td>
<td>11.00</td>
</tr>
<tr>
<td></td>
<td>Executive Board</td>
<td>11.00</td>
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<tr>
<td></td>
<td>(incoming)</td>
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<tr>
<td></td>
<td>Council</td>
<td>13.00</td>
</tr>
<tr>
<td></td>
<td>(incoming)</td>
<td>16.00</td>
</tr>
</tbody>
</table>

In this period also all Executive Committees and the Coordinating Committees will meet. As a special feature, there will be a training session for all incoming CC and TC Chairpersons, following the inaugural meetings after the General Assembly on Monday, 1 July, starting at 19.00. If you wish to receive a more detailed schedule of the IFAC Committee meetings, please write, fax or e-mail your request to the IFAC Secretariat. You can also obtain a list of the IFAC meetings from the IFAC96 Congress homepage.