A Structure of Future IFAC Symposia

IFAC organizes some forty more or less specialized technical meetings each year. It is a strength of IFAC to be able to offer such a wide selection of conferences to the control community around the world. It is, however, also a source of some problems. One important problem is that the list of symposia and workshops may lack some structure: The individual events may not be sufficiently visible and the connection between two events with the same or similar topic may not be clear.

To deal with this problem, IFAC's Technical Board decided in Tallinn to reserve the name symposium for technical meetings that are part of a series of regular events, typically one every three years. Symposia will be devoted to sub-areas of the control engineering field where the interest is expected to remain for some time. While the focus of the individual events may shift according to current trends, the continuity between the events is secured by a steering committee appointed by the sponsoring technical committee.

This means that IFAC symposia represent a long-term commitment on IFAC's part to regularly sponsor - as long as sufficient interest in the topic remains - high-quality international technical meetings on specific control topics. The continuity and "predictability" of the events should be helpful to promote the topic and to establish international contacts in the corresponding community of engineers and researchers. As is the case for the IFAC Congress, the participants of symposia, too, should know where to meet "next time".

Of course, IFAC will also continue to sponsor workshops as smaller and more flexible meetings. Larger meetings that are not necessarily part of a series of events will be called IFAC conferences.

The list of symposia that was agreed upon in Tallinn is as follows. The sponsoring technical committee is given in parenthesis and already decided future locations are also indicated.

Automatic Control in Aerospace (AEROSPACE); Munich, 92
Advanced Control in Chemical Processes (APCOM); Toulouse, 91, College Park, 92
Fault Detection, Supervision and Safety for Technical Processes (APCOM); Baden-Baden, 91
Mining, Mineral and Metal Processing (APCOM); Beijing, 92
Power Systems and Power Plants (APCOM); Munich, 92
Modelling and Control of Biomedical Systems (BIMED); Monterey, 92
Intelligent Components and Instruments for Control (COMP&INSTR.); Malaga, 92
Low Cost Automation (COMP&INSTR.); Vienna, 92
Real Time AI (COMPUT); Napa, 91, Nordwijkhout, 92
Modelling and Control of National Economies (EMSCOM); Beijing, 92
Information and Control in Manufacturing (MAN.TECH.); Tokyo, 92
Robot Control (MAN.TECH.); Vienna, 91
Non-Linear Control Systems (MOC); Bordeaux, 92
Automated Systems Based on Human Skill (SOC.EFF.); Boston, 92
Computer Aided Design (SECOM); Swansea, 91
Distributed Intelligence Systems (SECOM); Washington DC; 91, Wuppertal, 94
Large Scale Systems (SECOM); Beijing, 92
Man-Machine Systems (SECOM); The Hague, 92
Transportation Systems (SECOM)
Adaptive Control (THEORY); Grenoble, 92
Control Design (THEORY); Zürich, 91
Distributed Parameter Systems (THEORY)
System Identification (THEORY); Budapest, 91, Copenhagen, 94

More information about the symposia will be found in this and future issues of the IFAC Newsletter. The IFAC Secretariat will also be happy to supply further information.
<table>
<thead>
<tr>
<th>Title</th>
<th>1992</th>
<th>Place</th>
<th>Deadlines</th>
<th>Further Information</th>
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<tbody>
<tr>
<td>IFAC Symposium Control of Power Plants and Power Systems</td>
<td>March 9-11</td>
<td>Munich, FRG</td>
<td>15 May 1991</td>
<td>VDI/VDE-GMA Secretariat Symposium, Power Plants and Systems, POB 1139 D-4-W-4000 Düsseldorf 1, FRG</td>
</tr>
<tr>
<td>IFAC Conference Modelling and Control of Biotechnical Processes</td>
<td>April 5-8</td>
<td>Monterey, CA, USA</td>
<td></td>
<td>Prof. M. Karim, Dept. of Agriculture, Chem. Engg., Colorado State Univ., Fort Collins, CO 80523, USA</td>
</tr>
<tr>
<td>IFAC Workshop AI, Control and Advanced Technology in Marine Automation</td>
<td>April 8-10</td>
<td>Genoa, Italy</td>
<td></td>
<td>Prof. E. Volta, Ist. Automazione Navale C.N.R., Viale Cavour 18R, l-16145 Genoa, Italy</td>
</tr>
<tr>
<td>IFAC Symposium On-Line Fault Identification and Control in the Chemical Process Industries</td>
<td>April 22-24</td>
<td>Newark, Delaware, USA</td>
<td>1 June 1991</td>
<td>Dr. P. Dhurjati, Dept. of Chem. Engg., Univ. of Delaware Newark, DE 07111, USA</td>
</tr>
<tr>
<td>IFAC Symposium Advanced Control in Chemical Processes</td>
<td>April 27-29</td>
<td>College Park, MD, USA</td>
<td>1 June 1991</td>
<td>Dr. T. McAvoy, Dept. of Chem. &amp; Nuclear Engg., University of MD, College Park MD 20742-2111, USA</td>
</tr>
<tr>
<td>IFAC Symposium Intelligent Components and Instruments for Control Applications</td>
<td>May 20-22</td>
<td>Malaga, Spain</td>
<td>30 June 1991</td>
<td>Prof. A. Olivero, Automatic Control Dept., Faculty of Information, Plaza El Ejido s/n E-29013 Malaga, Spain</td>
</tr>
<tr>
<td>IFAC Symposium Information Control Problems in Manufacturing Technology</td>
<td>May 25-28</td>
<td>Toronto, Canada</td>
<td>30 Aug. 1991</td>
<td>Dr. J. Scrimgeour, Advanced Manufacturing Technologies &amp; Ind. Automation, Div. EE, National Research Council, Ottawa, Ont. K1A 0R6, Canada</td>
</tr>
<tr>
<td>IFAC Workshop Automatic Control for Quality and Productivity</td>
<td>June 3-5</td>
<td>Istanbul, Turkey</td>
<td></td>
<td>Prof. A. Talha Dinibudun, Istanbul Techn. Univ. Inst. of Science and Technology Ayazaga 80626, Istanbul, Turkey</td>
</tr>
<tr>
<td>IFAC Symposium Artificial Intelligence in Real-Time Control</td>
<td>June 16-18</td>
<td>Delft, Netherlands</td>
<td></td>
<td>Prof. H.B. Verbruggen, Delft Univ. of Technology Dept. of EE, POB 5031 NL-2600 GA Delft, Netherlands</td>
</tr>
<tr>
<td>IFAC Workshop Real-Time Programming</td>
<td>June 23-25</td>
<td>Bruges, Belgium</td>
<td></td>
<td>Mr. L. Pauwelis, Coordinator, BIRA Desguinlei 214, B-2018 Antwerp, Belgium</td>
</tr>
<tr>
<td>IFAC Symposium Nonlinear Control Systems Design NO LCS</td>
<td>June 24-26</td>
<td>Bordeaux, France</td>
<td>1 Oct. 1991</td>
<td>Dr. M. Flies, CNRS, Lab. des Signaux &amp; Systèmes, Plateau de Moulon, P-91192 Gif s/Yvette, France</td>
</tr>
<tr>
<td>IFAC/IFORS Workshop Support Systems for Decision and Negotiation Processes</td>
<td>June 24-26</td>
<td>Warsaw, Poland</td>
<td>Sept. 1991</td>
<td>Prof. Dr. Dr. Nahorski, DNS '92, System Res.Inst. Newelska 6, PL-01 447 Warsaw Poland</td>
</tr>
<tr>
<td>IFAC Symposium Adaptive Control and Signal Processing</td>
<td>July 1-3</td>
<td>Grenoble, France</td>
<td></td>
<td>L. Dugard, Lab d'Automatique de Grenoble-ENSIEG, F-38402 St. Martin d'Hères, France</td>
</tr>
<tr>
<td>IFAC/IFIP/IIASA Symposium Modelling and Control of National Economies (7th)</td>
<td>August 18-20</td>
<td>Beijing, China, P.R.</td>
<td>15 Dec. 1991</td>
<td>Ms. Wang Hong, MCNE '92 c/o Chinese Association of Automation, POB 2728, Beijing 100008, China, P.R.</td>
</tr>
<tr>
<td>IFAC/IFOS Symposium Large Scale Systems: Theory and Applications</td>
<td>August 22-25</td>
<td>Beijing, China, P.R.</td>
<td>15 Aug. 1991</td>
<td>Prof. Y.P. Zhang, IFAC LS92 Chinese Association of Automation POB 2728, Beijing 100008, China, P.R.</td>
</tr>
<tr>
<td>IFAC Workshop Distributed Computer Control Systems - DCSCS '92</td>
<td>August 23-25</td>
<td>Beijing, China, P.R.</td>
<td>15 Jan. 1992</td>
<td>Prof. Bing Zhong Gong, POB 927, Beijing 100080 China, P.R.</td>
</tr>
<tr>
<td>IFAC Symposium Automation in Mining, Mineral and Metal Processing (7th)</td>
<td>August 28-29</td>
<td>Beijing, China, P.R.</td>
<td>20 Aug. 1991</td>
<td>Prof. Huang Tai-Yi, Chinese Association of Automation Institute of Automation, Academia Sinica, POB 2728 Beijing, China, P.R.</td>
</tr>
<tr>
<td>IFAC Workshop (2nd) System Structure and Control</td>
<td>Sept. 3-5</td>
<td>Prague, CSFR</td>
<td>10 Jan. 1992</td>
<td>2nd IFAC Workshop, Inst. of Inf. Theory and Automation, POB 18 CS 182 08 Prague, CSFR</td>
</tr>
<tr>
<td>IFAC/AFA Symposium Automatic Control in Aerospace</td>
<td>Sept. 8-11</td>
<td>Munich, FRG</td>
<td></td>
<td>Dr. Ing. E. Gotzzeit, c/o MBB P.O.B 801169, D-8000 Munich 80, FRG</td>
</tr>
<tr>
<td>IFAC Symposium Automated Systems Based on Human Skills</td>
<td>Sept. 23-25</td>
<td>Boston, USA</td>
<td></td>
<td>Dr. Frank Ennapak, Center for Applied Techn. 9 Park Street, Boston, MA 02108, USA</td>
</tr>
<tr>
<td>IFAC/IFIP Symposium SAFECOMP '92</td>
<td>Nov. 1992</td>
<td>Baden, Switzerland</td>
<td></td>
<td>Dr. H. Kirmann, ABB Corporate Research Segelhof, CH-545405 Dattwil, Switzerland</td>
</tr>
</tbody>
</table>

* not yet known
- deadline past
IFAC Congratulates

On 11 January, 1991, Professor Thomas B. Sheridan, Professor of Machine Systems at the M.I.T and Vice-Chairman of the IFAC TC on Social Effects of Automation, was awarded an Honorary Doctorate Degree of the Delft University of Technology on the occasion of its traditional Dies Natalis celebration. The fact that this doctorate was awarded in the field of Man-Machine Systems, a field in which IFAC has been very active for a long time, can be considered an indication of the growing interest and importance of this field.

Introducing IFAC Technical Committees and Working Groups

Working Group of the IFAC Applications Committee on Mining, Mineral and Metal Processing

This Working Group is currently chaired by Dr. Gunter Sommer and has the following aims and scope:

"The aim of this Working Group is to provide a forum for discussion on measurement, automation and optimization based on control theory, to enhance the understanding of IFAC measurements for process control in the fields of mining and of mineral and metal processing. The area of activity of this Working Group also includes the exploration and exploitation of organic material such as coal, gas and oil, but excludes the refining of these materials since this specialized field is covered by the Group on Chemical Process Control."

Special Offer on Selected IFAC Titles

Below follows a list of IFAC titles published between 1986 and 1988 which are available at a reduced rate until September 1991.

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Oxford OX3 0BZ. UK

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<th>EDITOR</th>
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<th>SPECIAL PRICE IN £</th>
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<tr>
<td>Adali</td>
<td>Microcomputer Application in Process Control</td>
<td>27.50</td>
</tr>
<tr>
<td></td>
<td>(278pp) (1987)</td>
<td></td>
</tr>
<tr>
<td>Atherton</td>
<td>Multivariable Technological Systems (668pp) (1978)</td>
<td>50.00</td>
</tr>
<tr>
<td>Balchen</td>
<td>Automation &amp; Data Processing in Aquaculture (292pp) (1987)</td>
<td>25.00</td>
</tr>
<tr>
<td>Barker</td>
<td>Identification &amp; System Parameter Estimation 1985 2 volumes (2066pp) (1985)</td>
<td>217.50</td>
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<td>Basanez</td>
<td>Robot Control (SYROCO 85) (576pp) (1987)</td>
<td>55.00</td>
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<td>Chestnut</td>
<td>Contributions to Technology to International Conflict Resolution (160pp) (1987)</td>
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<td>Automatic Control in Space (328pp) (1986)</td>
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<td>Systems Analysis Applications to Complex Programs (328pp) (1978)</td>
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<td>Da Cunha</td>
<td>Planning &amp; Operation of Electric Energy Systems (504pp) (1986)</td>
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<td>Etzer</td>
<td>Experience with the Management of Software Projects (187pp) (1987)</td>
<td>14.00</td>
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<td>Geering</td>
<td>Large Scale Systems: Theory &amp; Applications 1986 2 volume set (920pp) (1987)</td>
<td>75.00</td>
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<td>Genser</td>
<td>Control in Transportation Systems 1986 (368pp) (1987)</td>
<td>36.00</td>
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<td>Hruz</td>
<td>Automatic Measurement &amp; Control in the Woodworking Industry (298pp) (1986)</td>
<td>25.00</td>
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<td>Isermann</td>
<td>Automatic Control 1987-10th World Congress (4391pp) (1986)</td>
<td>305.00</td>
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<td>Jansen</td>
<td>Reliability of Instrumentation Systems for Safeguarding and Control (190pp) (1987)</td>
<td>18.00</td>
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<td>Kopacek</td>
<td>Theory of Robots (366pp) (1986)</td>
<td>36.00</td>
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<td>Kotob</td>
<td>Automatic Control in Petroleum, Petrochemical &amp; Desalination Industries (129pp) (1986)</td>
<td>18.00</td>
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<td>Nalecz</td>
<td>Control Aspects of Biomedical Engineering (321pp) (1987)</td>
<td>27.50</td>
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WHO IS WHO IN IFAC

Prof. Atsunobu Ichikawa

Atsunobu Ichikawa received his PhD in Chemical Engineering from the Tokyo Institute of Technology in 1958. Before that he had completed his MS in Chemical Engineering in 1955 and a BS in Chemical Engineering in 1953 at the same institute.

His professional career, among others, includes the position of Deputy Director of the National Institute of Environmental Studies, a position to which he was appointed on April 1, 1960. Prior to that, he was Dean of the Graduate School at Nagasaki and he still holds the position of Professor at the Department of Systems Science at Nagasaki Graduate School. The course of his career, Prof. Ichikawa also worked in the USA as research associate at the Department of Chemistry at Princeton University and at the Systems Research Center of the Case Institute of Technology. Prof. Ichikawa is member of the Science Council of Japan and Member of the Science Council at the Ministry of Education, Science and Culture. Furthermore, he is a member of IEEE.

In 1987 and 1990 he was awarded the "Best Paper Award" of the Society of Control and Instrument Engineers, Japan. His publications include more than 150 original and survey papers as well as several books in the field of systems science and control. He was editor of several books, including "The Handbook of Automatic Control Theory" (in Japanese), 1985. Professor Ichikawa's major fields of interest include systems science, representation and control of discrete event systems, information science and scientific information systems.

In IFAC, Prof. Ichikawa was elected member of the IFAC Council for the 1990-1993 Triennium.

Message from the President

Meeting the Market Demand

The vast majority of engineers, including control engineers, work in organizations producing goods and services. Those of us from western countries at least, and maybe all of us soon, are imbued with the knowledge that success in such an endeavor requires us to understand the needs of the market. Can this be a metaphor to shape our thinking about IFAC? Certainly in IFAC, we need to reflect on our goods and services, and the extent to which they meet market demand. What are our "goods and services", exactly? Broadly, they are of two types: meetings and publications. And what does the market demand from us? In the case of meetings it means coverage in a certain range of topics (i.e. such as robotics, adaptive control or whatever), it wants the coverage to be timely (i.e. IFAC's first meeting on adaptive systems should not occur five years after everybody else's), and it wants quality control in the product (so that the next time someone goes to a meeting, he or she knows it will be good, and not overly expensive). Vary much the same applies to our publications.

Those of us concerned with the organization of IFAC itself then have a responsibility: though we are not in the business of putting money into shareholders' pockets or generating an efficiency dividend for the national Treasury, we do have to meet our customers' needs in a timely and excellent manner.