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Industrial Problem Sessions at the 10th IFAC World Congress in Munich, 1987

One often hears the complaint that IFAC is too "academic", and has little scope for the problems of industry. Therefore, during the 9th World Congress (Budapest, 1984) a "stream" of industrial problem sessions was organized, with opportunities for informal exchange of experiences and opinions.

Based on the experience obtained, five discussion sessions are being planned for the next Congress (Munich, FRG, July 27—31, 1987). Tentatively, the following topics are envisaged:

- Vendor/customer/user relationships
- Economics of industrial automation
- Applicability of advanced control in industry
- Interactions between automation, organization, and human resources
- Integration of business and production plant automation

Potential participants will be asked to submit brief written contributions (max. 1000 words).

We would very much like to receive comments, suggestions, and proposals, in order to tune the sessions to the needs and requirements of industry. Please write to:

Uolevi Lutto, Consultant, Runeberg 15A, SF-00100 Helsinki 10, Finland,

and/or to:

John Rijndorp, Twente University of Technology, P.O. Box 217, 7500 AE Enschede, The Netherlands.

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FIACC Meeting in Oslo, Norway

In conjunction with the 11th IMACS World Congress — Oslo, August 5—9, 1985 which attracted about 500 delegates from all over the world — the 16th Meeting of the Five International Associations Coordinating Committee (FIACC) took place on August 10, 1985.

IMACS, the International Association for Mathematics and Computers in Simulation was represented by its President, who also chaired the meeting.

IFAC was represented by its Secretary.

IFIP (International Federation for Information Processing) was represented by its Treasurer.

IMEKO (International Measurement Confederation) was represented by its President.

IFORS (International Federation of Operational Research Societies) was represented by its Secretary.

The participants of the meeting stated the pleasing fact that the development of closer contacts among the sister federations is reflected in a growing number of co-sponsorships. Furthermore an exchange of ideas as to the organisation of World Congresses took place.

G. Hencsey, IFAC Secretary, reported on the activities of our Federation in the past year, mainly on the outcome of the last Council Meeting in Boston, Mass.

For the next two years, FIACC will be chaired by IFORS with IMEKO to take over after that time. Gy. Striker was elected Honorary Secretary for another year.

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PLEASE NOTE:

IFAC Workshop in Kuwait on "Automatic Control in Petroleum, Petrochemical and Desalination Industries" now postponed to


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Editor: Gusztáv Hencsey
Layout: Margaret A. Gottfried
published bimonthly
Seventh IFAC/IFORS Symposium on Identification and System Parameter Estimation

3rd — 7th July 1985, York, U.K.

The seventh Symposium on Identification and System Parameter Estimation, held in the United Kingdom at the University of York from 3rd to 7th July 1985, was attended by 364 participants from 37 countries. In common with its predecessors in this long-running series, the Symposium was sponsored by IFAC; but this was the first occasion on which it was co-sponsored by IFORS. The Symposium was organised by the Institution of Electrical Engineers on behalf of the United Kingdom Automatic Control Council, the IFAC National Member Organisation for the United Kingdom. In the tradition of the previous Symposia, the aim was to present the state-of-the-art in the field and to provide an opportunity for theorists and practitioners from a broad spectrum of applications to exchange both ideas and experience.

The International Programme Committee, chaired by Professor P. Young of the University of Lancaster, United Kingdom, was composed of 50 members, drawn from 18 countries, and representing the sponsoring IFAC Technical Committees on Applications, Theory, Education, Mathematics of Control and Economic and Management Systems, together with the co-sponsoring IFORS. The call for papers attracted 438 abstracts, from which 322 papers were provisionally accepted and 237 papers appeared in the programme. The International Programme Committee solicited a further 112 invited papers for plenary, tutorial and other special sessions.

The programme consisted of 6 plenary sessions, 3 tutorial workshops, 30 technical sessions, 17 special sessions and 5 poster sessions. The plenary addresses were:

- “The proper study of mankind” by P. Rivett.
- “Some representation, measurement, estimation and validation problems in reflection seismology” by J. M. Mendel.
- “Some observations on robust estimation and control” by G. C. Goodwin.
- “New directions of research in noisy identification” by R. E. Kalman.
- “Optimal identification algorithms and their application to process control and inventory systems” by Ya. Z. Tsypkin and V. A. Lgotsky.

The tutorial workshops, all held on the first day of the Symposium, were:

- Instrumental variable methods
- Biomedical applications of identification
- Identifiability of model parameters

The 30 technical and 17 special sessions, which throughout most of the programme were organised as 6 sessions in parallel, provided excellent coverage of both the theory and applications of identification and system parameter estimation. The spectrum of applications broadens with each successive Symposium, with whole sessions devoted to topics previously covered by individual papers only. Typical among the new sessions were those on failure and fault detection. 5 sessions were directly relevant to the IFORS interest in the Symposium, of which 2 were special sessions organised by Dr. W. G. Gilchrist, one of the IFORS representatives on the International Programme Committee.

The 5 poster sessions, an innovative feature for Symposia in this series, were:

- Self-tuning and adaptive systems
- Distributed parameter and nonlinear systems
- Applications
- Recursive and adaptive methods
- Model order reduction and uncertainty

The papers for these sessions were selected by the International Programme Committee as particularly suitable for presentation in the highly individual and personal way available to the authors of poster session papers, and most authors responded well to this.

Feedback from participants indicated that the Symposium had achieved its aims and that this reflected a continuing interest in the theory of the subject and a growing interest in its applications. The eighth Symposium of the series will be held in Beijing, China, in 1988.

The proceedings of the Symposium will be published by Pergamon Press.

H. A. Barker (U.K.)

New Publications:

Proceedings of the 7th IFAC/IFORS Symposium York, UK, 3—7 July 1985

Identification & System Parameter Estimation

Editors:
S. A. Billings, University of Sheffield, UK and P. Young, University of Lancaster, UK

Covers all major aspects of modelling, identification and parameter or state estimation ranging from theoretical and methodological developments to applications in education and in self adaptive or self tuning systems. The applications papers are concerned not only with engineering and control systems, but also with signal processing, biological and biomedical systems, ecology, hydrology, environmental systems, business systems and socio-economic modelling. The use of microcomputers in estimation is also discussed.

Some of the topics discussed were as follows:

- Automation and the Future of Mining
- Monitoring and Control of Metallurgical Processes
- Automating Mining Processes
- Modelling and Control of Coal Preparation
- Mining Transportation Systems
- Monitoring Mining Processes
- Automation and the Future of Metallurgical Processing
- Modelling and Control of Mineral Processing
- Control Theory and its Applications.

The Symposium was wound up by a Round Table on The Effect of Automation on People in the Mineral Industry. Panel members represented employers and employees. Discussion was vigorous, frank, and indicated a good understanding by all of the inevitability of change and the need to help workers adapt to the changes.

Closure of the Symposium was by Professor M. Thoma and by D. C. Tennent, President of the Australasian Institute of Mining and Metallurgy.

An impression of the Symposium is that, in spite of and perhaps because of the harsh environment in which the mining industry has to work, interest and activity in the application of automation in the industry is great. A major problem is the development of reliable sensing devices. Automation is likely to develop rapidly, but the widespread use of robots may be a long way off.

C. N. Bailey
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<tr>
<th>Title</th>
<th>Place</th>
<th>Deadlines</th>
<th>Further Information</th>
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<tbody>
<tr>
<td>IFAC Symposium Robot Control</td>
<td>Barcelona, E</td>
<td>6-8 Nov</td>
<td>Secretariat of SYRoco '85 Institute de Cibernética Diagonal, 847. E-08052 Barcelona, Spain</td>
</tr>
<tr>
<td>IFAC Symposium Modelling and Control of Biotechnological Processes</td>
<td>Noordwijk-</td>
<td>11-13 Dec</td>
<td>Prof. Dr. A. Johnson Lab. voor Fysichche Technologie Prins Bernhardlaan G 2628 BW Delft, The Netherlands</td>
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<tr>
<td>Title</td>
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<tr>
<td>IFAC Workshop Automatic Control in Petroleum, Petrochemical and Desalination Industries</td>
<td>Kuwait</td>
<td>5-6 Jan</td>
<td>Dr. Jaafar Assiri c/o Dr. Samir Kotob TED/ASD Kuwait Institute for Scientific Research P.O. Box 24865, Safat, Kuwait</td>
</tr>
<tr>
<td>ICID/IFAC Workshop System Analysis in Irrigation, Drainage and Flood Control</td>
<td>Rabat, Morocco</td>
<td>10-28 Feb</td>
<td>Prof. M. Najim AMADEA, Faculte des Sciences B.P. 1014, Rabat, Morocco</td>
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<td>5th IFAC/IFIP/IMACS/IFORS Symposium Information Control Problems in Manufacturing Technology</td>
<td>Yerevan, SU</td>
<td>22-25 April</td>
<td>Organizing Committee of the 5th Symposium ICPMT 65, Profsojuznaja Str. Moscow, 117342, USSR</td>
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<td>2nd IFAC Symposium Stochastic Control</td>
<td>Vilnius, SU</td>
<td>5-6 May</td>
<td>USSR National Committee on Automatic Control 65, Profsojuznaja Str. Moscow, 117342, USSR</td>
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<td>IFAC Workshop Experience with the Management of Software Projects</td>
<td>Heidelberg, FRG</td>
<td>14-16 May</td>
<td>H. Wiefels VDI/VDR GMR POB 1139 D-4000 Düsseldorf 1, FRG</td>
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<td>IFIP/IFAC/IFORS Conference Computer Applications in Production and Engineering CAPE '86</td>
<td>Copenhagen, DK</td>
<td>20-23 May</td>
<td>CAPE '86 c/o DIS Congress Service 48, Line Allé DK-2720 Vanlose/Copenhagen, Denmark</td>
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<td>4th IFAC/IFIP Symposium Software for Computer Control (SOCOCO)</td>
<td>Graz, A</td>
<td>20-23 May</td>
<td>SOCCO '86 att. Ms. R. Hammer, IIG Schießstattgasse 4a A-8010 Graz, Austria</td>
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<tr>
<td>14th IFAC/IFIP Workshop Real Time Programming</td>
<td>Balaton, H</td>
<td>26-28 May</td>
<td>Prof. J. Szlanko Central Institute for Physics POB 49 H-1525 Budapest, Hungary</td>
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<td>IFAC Workshop Use of Technology incl. Systems Cooperation for International Conflict Resolution</td>
<td>Cleveland, OH, USA</td>
<td>3-5 June</td>
<td>Dr. Harold Chestnut SWIS Foundation Inc. 1226 Waverly Place Schenectady, N.Y. 12308, USA</td>
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<tr>
<td>IFAC Workshop Digital Image Processing in Industrial Applications</td>
<td>Helsinki, SF</td>
<td>10-12 June</td>
<td>Mr. Martin Olus Technical Research Centre of Finland Otakaari 5 I SF-02150 Espoo, Finland</td>
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<td>IMEKO/IFAC Symposium Intelligent Measurement</td>
<td>Jena, GDR</td>
<td>10-14 June</td>
<td>Prof. D. Hofmann Friedrich-Schiller University Section Technology GDR-6900 Jena</td>
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<tr>
<td>Event</td>
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<td>5th IFAC/IFORS Conference</td>
<td>June 17 - 20</td>
<td>Budapest, H</td>
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<td>Modelling and Control of National Economies</td>
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<td>4th IFAC Symposium Control of Distributed Parameter Systems</td>
<td>June 30 - July 3</td>
<td>Pasadena, USA</td>
<td>Oct 15, 1985</td>
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<td>IFAC Workshop Adaptive Systems in Control and Signal Processing</td>
<td>July 1 - 3</td>
<td>Lund, S</td>
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<tr>
<td>5th IFAC/IFIP/IFORS International Conference Control in Transportation Systems</td>
<td>July 8 - 11</td>
<td>Vienna, A</td>
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<td>IFAC Symposium Microcomputer Application in Control</td>
<td>July 22 - 25</td>
<td>Istanbul, TR</td>
<td>Oct 25, 1985</td>
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<tr>
<td>IFAC Workshop Modelling, Decisions and Games with Applications to Social Phenomena</td>
<td>August 11 - 15</td>
<td>Beijing, PRC</td>
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<td>IFAC Symposium Power Systems and Power Plant Control</td>
<td>August 12 - 15</td>
<td>Beijing, PRC</td>
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<tr>
<td>IFAC Symposium Automation in Aquaculture</td>
<td>August 18 - 20</td>
<td>Trondheim, N</td>
<td>Nov 1, 1985</td>
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<td>5th IFAC Symposium Automation in Mining, Mineral and Metal Processing</td>
<td>August 24 - 28</td>
<td>Tokyo, J</td>
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<td>4th IFAC/IFORS Symposium Large Scale Systems: Theory and Applications</td>
<td>August 26 - 29</td>
<td>Zurich, CH</td>
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<td>IFAC/IFIP/IFORS Symposium Economics and Artificial Intelligence</td>
<td>September 2 - 4</td>
<td>Aix-en-Provence</td>
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<td>2nd IFAC Workshop Modelling and Control of Electric Power Plants</td>
<td>September 16 - 18</td>
<td>Philadelphia, PA, USA</td>
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<td>IFAC/IMACS Symposium Simulation of Control Systems</td>
<td>September 22 - 26</td>
<td>Vienna, A</td>
<td>Dec 1, 1985</td>
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<tr>
<td>IFAC Workshop Fault Detection and Safety in Chemical Plants</td>
<td>September 28 - October 1</td>
<td>Kyoto, J</td>
<td>Oct 31, 1985</td>
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<tr>
<td>IFAC Workshop Distributed Computer Control Systems — DCCS 86</td>
<td>October 13 - 15</td>
<td>Mayschoss-Bad Neuenahr, FRG</td>
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<td>IFAC/EWICS Workshop Safety of Computer Control Systems — SAFECOMP 86</td>
<td>October 15 - 17</td>
<td>Sarlat, F</td>
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*not yet officially approved

* deadline not yet known
FORTHCOMING EVENTS (ctd.)

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<th>Title</th>
<th>Place</th>
<th>Deadlines</th>
<th>Further Information</th>
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| IFAC/IFIP/IMEKO Conference  
Instrumentation and Automation in the Paper, Rubber, Plastics and 
| IFAC Symposium +  
Robot Manipulators:  
Modeling, Control and Education | Albuquerque, NM, USA    | January 15, 1986 | Prof. M. Jamshidi, CAD Laboratory for Systems/Robotics  
University of New Mexico  
Albuquerque, NM 87131, USA |
| IFAC Symposium  
Automatic Measurement and Control in Woodworking Industry  
— Lignomatica '86 | Bratislava, CS          | November 21, 1986 | Dr. Bratislav Hruz, The State Forest Products Res. Institute  
Lamacká 1  
CS-844 41 Bratislava, CSSR |
| IFAC Symposium  
Components, Instruments and Techniques for Low Cost  
Automation and Applications | Valencia, Spain         | November 29, 1986 | Prof. Pedro Albertos, Polytechnical University of Valencia  
P.O. Box 22012  
Valencia, Spain |
| IFAC/IFIP/IMACS Symposium  
Theory of Robots | Vienna, Austria         | December 3, 5 1986 | Dr. P. Kopacek, Technical University of Vienna  
Karlsplatz 13  
A-1040 Vienna, Austria |
| IFAC Symposium  
Control of Distillation  
Columns and Chemical Reactors | Bournemouth, UK         | December 8, 10 1986 | Ms. Rosamund da Gama, UK Automatic Control Council  
c/o The Institute of Measurement and Control  
87 Gower Street, London WC1E 6AA, UK |
| IFAC Symposium  
Automation and Instrumentation for Power Plants | Bangalore, IND          | December 15, 17 1986 | Dr. M. Rambamoorry, Central Power Research Institute  
P.O.B. 1242  
Bangalore 560 012, India |

* not yet officially approved  
* deadline not yet known

News from NMOs: SPAIN

As a result of growing Spanish interest in the field of automatic control, the "Comité Español de Automática (CEA)" was founded in 1965 under the chairmanship of Prof. Aragón, within the National Association of Engineers, to promote the development in Spain of all kinds of activities in this field.

Shortly afterwards, talks took place between Prof. J. F. Cañas, then President of IFAC and the CEA to establish the Committee as the National Member Organisation of the Federation for Spain. In 1966, during the 3rd IFAC World Congress in London, the application of CEA was approved by the General Assembly. The name of the Spanish NMO then became "Comité Español de Automática de la IFAC (CEA-IFAC)".

The supreme body of CEA-IFAC is the General Assembly formed by all the individual and institutional members. The management of the Committee is vested in the Executive Board, which consists of the President, Vice-President, Secretary, Treasurer and four Ordinary Members, all elected by the General Assembly. Since 1980, a representative of each of the delegations of CEA-IFAC also belongs to the Executive Board.

In 1990 the By-Laws were amended by the General Assembly held in Sevilla and the possibility of establishing delegations of CEA-IFAC in the most active areas of the country was introduced. At present, apart from the headquarters in Barcelona, there are delegations in Madrid, Sevilla and Valencia. A delegation in Valladolid is presently being constituted. The aim of the delegations is to promote local activities in the field of automatic control.

Working Groups with specific topics have been established to address the need for specialized activity. At present, working groups on Power Systems Control, Pattern Recognition (which represents IAIP in Spain), Robotics, Simulation, and Education, are active. Since its foundation CEA has organised 3 IFAC Symposia (1977, 1982, 1985) and several national meetings as well. The Working Group on Education organizes a two day meeting of Automatic Control Professors every year at different universities of Spain.

Among the events planned for the near future are an IFAC Symposium on Low-Cost Automation in Valencia, and an International Symposium on Simulation (in cooperation with IMACS) in Barcelona.

At present, the members of the Executive Board are the following:

President: G. Ferralé, Barcelona  
Vice-President: E. A. Puente, Madrid  
Secretary: L. Bañados, Barcelona  
Treasurer: J. A. de la Puente, Valencia

Ordinary Members: J. Aracil, Sevilla  
M. Silva, Zaragoza  
J. Ayza, Barcelona  
E. F. Llorente, Madrid

Representatives of Delegations: R. Aracil, Madrid  
P. Camacho, Sevilla  
P. Albertos, Valencia

CEA-IFAC’s address is:  
Comité Español de la IFAC  
Via Layetana 38  
Barcelona 3  
Spain.

The seminar on the Development and Use of Powder Metallurgy in Engineering Industries was held in Minsk from March 25—29, 1985, on the invitation of the Government of the Byelorussian SSR and under the auspices of the Working Party on Engineering Industries and Automation of the Economic Commission for Europe (ECE). The more than 50 papers presented at the Seminar repeatedly emphasised the growing role of powder metallurgy in the development of materials with special properties and in solving the problems of engineering industries. The developments in powder metallurgy demonstrate the advantage of a technique which makes it possible to obtain materials with better or completely new characteristics, to manufacture components using more economical processes and to save raw materials and energy. A wide industrial assimilation of powder metallurgy methods leads to the production of a constantly increasing number of component parts of metals, alloys and composite materials by this technique. Participants expressed the opinion that the large scale introduction of automated flexible manufacturing systems for the fabrication of powders, for presssing, sintering and gauging, as well as actively controlling all the stages of the production process will further improve the quality, lower the costs and expand the range of powder products in engineering industries.

Attention should be paid to the accelerated development of new materials like high-tech ceramics, rapidly solidified amorphous and microcrystalline alloys, super-alloys and enhanced performance tool materials. The importance of new technological processes like coating, hot forging of stainless preforms to pression parts, hot isostatic pressing of complex preforms, high capacity, cold isostatic pressing and cold plastic forming was stressed by the speakers.

Dr. Wolfgang Glätte
Metallwerke Plansee GmbH, Austria

IFAC Symposium on Automatic Control in Space
June 25—28, 1985, Toulouse, France

This Symposium, the 10th in this series, was held for the second time in Toulouse, France, at the Ecole Nationale Supérieure de l'Aéronautique et de l'Espace.

Sponsored by IFAC's Technical Committee on Space, co-sponsored by AFCEC, the French National Member Organization of IFAC, it was organized by CERT with M. Pelegrin Chairman of the Space Committee and of the IPC, A. J. Fossard Chairman of the NOC, and J. P. Chrétien Symposium Editor).

127 participants from 12 countries involved in space research and technology up to various degrees exchanged and demonstrated their experiences along 7 technical sessions during which 39 accepted technical papers out of 77 submitted ones were presented and discussed. The topics covered included: Geostationary Satellites (S1), Scientific Satellites (S2), Low Earth Orbit Satellites (S3), Flexible Systems (S4), Orbit and Trajectory Control (S5), Component Technology (S6), Platforms, RVD and Manipulators (S7). In addition, J. W. Moore commented on the space shuttle (Invited Paper) and D. Debra lead a Round Table on Passive vs. Active Damping which raised a lively discussion. The closing session was conducted by J. L. Lions, President of the French Administration for Spatial Research (CNES).

The Symposium proved to be very successful with respect to participation, the quality of papers and discussions, and the very good atmosphere prevailing among participants. Proceedings of the Symposium will be published by Pergamon Press.

At the occasion of the Symposium two meetings of the Technical Committee on Space were held: one on June 24 with 14 members present, mainly dedicated to the Symposium, and another one on June 25, with 21 members present, to draw the conclusions of the Symposium and prepare future activities of the Committee.

M. Pelegrin

WHO IS WHO IN IFAC

Prof. André J. Fossard
IFAC Council Member

Prof. A. J. Fossard was born in Paris in 1935. He received his engineering diploma in Aeronautics in 1958 from ENSAE and the MSc in Electrical Engineering from the California Institute of Technology in 1959.

After serving two years in the French Air Force as a pilot he joined the Control Department of Nord Aviation (now Aérospatiale) before, in 1962, being called on by J. C. Gille and M. Pelegrin to initiate CERA, a research group in automatic control forming the origin of CERT, now a division of the French National Office for Aerospace Research. In 1966, he joined the Faculty of ENSAE as full professor where he is now Head of the Control Department while continuing his research activities at CERT.

Prof. Fossard has worked in several fields including nonlinear systems, multivariable control systems, hierarchical systems, modelling and control of converters and is now involved in the applications of singularity perturbed methodology to nonlinear trajectory optimization. He is the author of three books and over 120 papers and technical reports covering these various fields.

From the beginning he participated in the activities of the French Control Society (AFRA), then AFCEC, the French NMO of IFAC in various positions, e.g. as initiator of working groups, member of the editorial board of RAIRO, and Chairman of the Theory of Control Division. He also served in various committees of the French National Council for Scientific Research.

Within IFAC Prof. Fossard has been actively engaged for many years, serving as Vice Chairman and Chairman of the Theory Committee, as member of IFAC in number of IFAC events and as a liaison officer between AFCEC and IFAC. At the last meeting of the General Assembly in Budapest in July 1984 he was elected ordinary member of the IFAC Council.

Impressum:
Medieninhaber und Herausgeber:
International Federation of Automatic Control (IFAC), Genf Schloßplatz 12, A-2361 Laxenburg
Verlagsort und Redaktion:
Dipl.-Ing. Guzziaki Heinzel
Schloßplatz 12, A-2361 Laxenburg
Hersteller:
Artur Schüttz & Sohn
Kollegergasse 7, A-1080 Wien