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Newsletter

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Informal Meeting of the IFAC Presidents

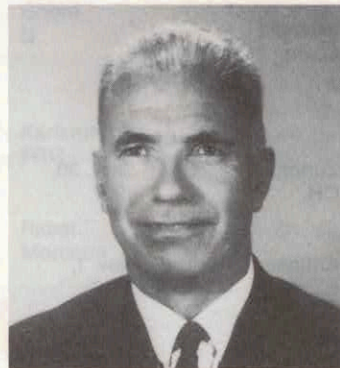
For the last time in this triennium, the present team of IFAC Presidents met in Laxenburg from April 2-4. The President, Prof. M. Thoma, the Vice Presidents, Prof. B. D. O. Anderson and Mr. W. E. Miller, the Past President, Prof. T. Vamos and the President Elect, Prof. B. Tamm participated in this meeting as well as the Treasurer, Prof. M. Mansour and the Secretary, G. Hencsey.

This time it was quite naturally the 10th IFAC World Congress and the preparation of the General Assembly in Munich which were in the centre of interest. The overall impression was that preparations are proceeding very smoothly. Also preparations for the Council and Related Meetings, which will be held in

the framework of the World Congress in Munich are well under way.

Apart from directly IFAC-related matters there was also opportunity for the Presidents to meet representatives of the Austrian authorities and scientists and representatives of IIASA on the occasion of a dinner given by the IFAC President, Prof. M. Thoma. The Austrian National Member Organization, ÖPWZ, invited the Presidents to a typical Viennese Heurigen. All these activities, in addition to the informal discussions, help strengthen the ties within IFAC by giving continuity in spite of the regular change in the gremiums of IFAC, a fact which also contributes to keeping IFAC lively and future-oriented.

A Sad Loss



Michel Cuénod died on April 3rd, 1987, at the age of 68. The news of his death was a shock to his friends in IFAC.

Michel Cuénod served IFAC for 22 years, as Treasurer and member of the Executive Council from 1959 till 1981, then as IFAC Adviser until his death. He was among the IFAC officers with the longest record of IFAC activities and certainly with the longest Council membership. He was also one of the founding members of the Swiss Federation of Automatic Control (SGA/ASSPA), where he was a committee member and scientific secretary till 1985, and honorary member since then. His extraordinary engagement for IFAC and the Swiss national member organization has always been admired by all

people who knew him in both organizations. IFAC has lost one of its most dedicated officers, an outstanding scientist and engineer, and above all a sincere friend. He will live on in our memories.

M. Mansour

Michel Cuénod, the Artist

Some of our readers will perhaps remember that Michel Cuénod was not only an excellent scientist, engineer, organizer and teacher, but that his hobby was graphic art. At the last World Congress he showed us his lovely sketches of Budapest and others he had made of previous IFAC World Congresses.

All of us very much enjoyed these sketches which in a way are an illustration of IFAC history. Last year therefore, a booklet was printed in which the information on the history of IFAC World Congresses was illustrated by Michel's sketches. This booklet will be presented to IFAC Congress Prize winners, IFAC Advisors and other outstanding officers of our Federation at the World Congress in Munich.

Unfortunately the Budapest sketches were the last ones to be added to this extraordinarily interesting series. We will miss Michel Cuénod and his sketches very much in the future.

G. Hencsey



FORTHCOMING EVENTS

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Title	1987	Place	Deadlines	Further Information
X. IFAC WORLD CONGRESS	July 26-31	Munich FRG	—	Eng. H. Wiefels VDI/VDE Gesellschaft Meß- und Regelungstechnik GMR Postfach 1139 D-4000 Düsseldorf 1, FRG
3rd Intl. IFIP/IFAC Conference Advances in Production Management Systems (APMS '87)	August 11-14	Winnipeg Manitoba CDN	—	Prof. A. Kusiak Dept. of Mechanical & Industrial Engrg, University of Manitoba Winnipeg, Manitoba R3T 2N2 Canada
2nd IFIP/IFAC Conference Human Computer Interaction — INTERACT '87	Sept. 1-4	Stuttgart FRG	—	INTERACT '87 Secretary c/o IAO/IPA Nobelstrasse 12, D-7000 Stuttgart, FRG
IMACS/IFAC Int. Symposium Modelling and Simulation of Distributed Parameter Systems	October 6-9	Hiroshima J	—	Dr. T. Futagami Dept. of Civil Engineering Hiroshima Inst. of Technology Miyake, Itsukaichi, Saeki Hiroshima, 731-51, Japan
Title	1988	Place	Deadlines	Further Information
IFAC/IMEKO/IMACS Symposium Modelling and Control in Biomedical Systems	April 6-8	Venice Italy	May 15, 1987	Prof. C. Cobelli Istituto di Elettrotecnica e di Elettronica University of Padova, Via Gradenigo 6/a I-35131 Padova, Italy
IFAC/IFIP Symposium Software for Computer Control — SOCOCO '88	April 26-28	Johannesburg ZA	—	Prof. I. M. Macleod Dept. of Electrical Engineering, University of Witwatersrand 1 Jan Smuts Ave Johannesburg 2001, ZA
IFAC/IFIP Workshop (15th) Real Time Programming	May 25-27	Valencia Spain	*	Prof. J. A. de la Puente Dept. de Sistemas, Informaticos y Comput. Universidad Politecnico POB 22012 E-46071 Valencia, Spain
IUTAM/IFAC Symposium Dynamics of Controlled Mechanical Systems	May 30- June 3	Zurich CH	Sept. 30, 1987	Prof. M. Mansour Institute of Automatics ETH Zurich CH-8092 Zurich, Switzerland
INRIA/IFAC (8th) Conference Analysis and Optimization of Systems	June 8-10	Antibes F	Nov. 1, 1987	Ms. Th. Bricheteau INRIA, B.P. 105 Domaine de Voluceau F-78153 Le Chesnay, France
IFAC Workshop Model Based Process Control	June 13-14	Atlanta, GA USA	*	Prof. Y. Arkun Dept. of Chemical Engrg. Georgia Institute of Techn. Atlanta, GA 30332, USA
IFAC/IFIP/IEA/IFORS Conference Analysis, Design and Evaluation of Man-Machine Systems (MMS '88)	June 14-16	Oulu SF	—	B. Wahlström Technical Research Centre of Finland Electrical Engineering Lab., Otakaari 7B SF-02150 Espoo, Finland
IFAC/IMACS Symposium Systems with Distributed Intelligence: Methodology and Applications	June 27- July 1	Varna BG	Sept. 20, 1987	DIS '88 Symposium Information Centre "INFORMA" POB 26 BG-1592 Sofia, Bulgaria
IFAC Symposium Trends in Control and Measurement Education	July 11-13	Clyne Castle UK	*	Ms. Rosamund da Gama The Institute of Measurement and Control 87 Gower Street, London WC1E6AA, UK

* deadline not yet known

FORTHCOMING EVENTS (ctd.)

Title	1988	Place	Deadlines	Further Information
IFAC Symposium Adaptive Control of Chemical Processes	August 17—19	Lyngby DK	Oct. 1, 1987	Prof. M. Kümme Denmark Technical University Institute for Kemiteknik, Bldg 229 DK-2800 Lyngby, Denmark
IFAC Workshop Robust Adaptive Control	August 22—24	Newcastle NSW, AUS	July 15, 1987	Prof. G. C. Goodwin Dept. of Electrical & Computer Engrg The University of Newcastle, N.S.W. 2308, Australia
4th IFAC Symposium Computer Aided Design in Control and Engineering Systems	August 23—25	Beijing PRC	—	Prof. Chen Zhen-Yu CADCS '88 Secretariat Application Committee of the Chinese Association of Automation P.O. Box 919, Beijing, PRC
IFAC/IFORS Symposium Identification and System Parameter Estimation	August 27—31	Beijing PRC	—	Prof. Chen Han-Fu Institute of Systems Science Academia Sinica Beijing, 10080, P. R. China
IFAC Symposium Power Systems: Modelling and Control Applications	Sept. 5—8	Brussels Belgium	—	J. Debelle, Vice President of IBRA Rue Ravenstein 3 B-1000 Brussels, Belgium
3rd Intl. Symposium Systems Analysis and Simulation	Sept. 12—16	Berlin GDR	*	Prof. Dr. A. Sydow ZKI der AdW der DDR Kurstrasse 33 DDR-1086 Berlin, GDR
IFAC Workshop Spacecraft Autonomy: Present and Future Capabilities	Sept. 13—15	Pasadena CA, USA	*	Mr. G. E. Cunningham Pathfinder Project, Jet Propulsion Lab. Mail Stop 79—21, 4800 Oak Grove Drive Pasadena, CA 91109, USA
IFAC Workshop (8th) Distributed Computer Control Systems — DCCS '88	Sept. 13—15	Vitznau CH	*	Prof. Bühler, SGA 16 Chemin de Bellerive CH-1007 Lausanne, Switzerland
SCI/IFAC Symposium Modelling and Control of Biotechnological Processes	Sept. 25—28	Cambridge UK	*	UKACC The Institute of Measurement and Control 87 Gower Street, London WC1E 6AA, UK
IFAC Workshop (2nd) Reliability, Availability and Maintainability of Industrial Instrumentation Systems	Sept. 28—30	Ghent B	*	Dr. ir. L. Boullart Automatic Control Lab. University of Ghent Grotesteenweg Noord 2 B-9710 Ghent, Belgium
IFAC/IMACS/IFIP Symposium Robot Control SYROCO '88	October 5—7	Karlsruhe FRG	*	Dr. G. Hirzinger DFVLR Oberpfaffenhofen D-8031 Wessling/Oberbayern, FRG
4th IFAC Symposium Systems Analysis Applied to Management of Water Resources	Oct. 11—13	Rabat Morocco	*	Prof. M. Najim, AMADEIA c/o Laboratoire Electronique Faculté des Sciences BP 1014, Rabat, Morocco
Title	1989	Place	Deadlines	Further Information
IFAC Symposium Adaptive Control and Signal Processing	April 19—21	Glasgow UK	*	Ms. Rosamund da Gama The Institute of Measurement and Control 87 Gower Street, London WC1E 6AA, UK
IFAC Symposium Large Scale Systems: Theory and Applications	August 28—31	Berlin GDR	*	Prof. H. Fuchs Academy of Sciences of the GDR Kurstrasse 33, DDR-1086 Berlin, GDR
IFAC Symposium Automation in Mining, Mineral and Metal Processing	Sept. 4—8	Buenos Aires Argentina	*	Prof. J. Paiuk c/o AADECA, Venezuela 639 9° P.Off 39 1095 Buenos Aires, Argentina
IFAC/IFIP/IEA/IFORS Conference Analysis, Design and Evaluation of Man-Machine Systems (MMS '89)	Sept. 12—14	Xian PRC	*	Prof. Wang Ying Luo Xian Jiaotong University Xian, Shaanxi, PRC

* deadline not yet known

New IFAC Prizes

Issue 5/1986 of the Newsletter gave information on the IFAC Council and Related Meetings in Zurich. Reference was made to three new prizes which were established on the occasion of these meetings. The February 1987 issue of the Newsletter gave detailed information on the Control Engineering Text-book Prize.

IFAC Congress Young Author Prize

The criterion for the Young Author Prize is high technical quality and good presentation of the paper by an author or authors 35 years or under.

Three to eight finalists for the Young Author Prize will be identified for the Congress IPC. The finalists will be notified and their papers identified in the Congress Final Program. The IFAC Council has appointed a Young Author Prize Selection Committee. The names of the members of the Selection Committee will also be stated for the Congress participants to encourage outside comments to the Selection Committee during the Congress.

Young Author Prize Selection Committee for the IFAC World Congress in Munich:

- S. Kahne (USA) — Chairman
- H. Akashi (J)
- K. J. Aström (S)
- G. S. Axelby (USA)
- V. I. Utkin (USSR)

IFAC Congress Applications Paper Prize

The criterion for this prize are outstanding technical contributions in the area of control applications. The term applications includes, but is not limited to, case study, design and implementation of control systems, optimization of operation of a process, but excludes work of a simulation or laboratory scale nature that does not embrace work on an actual full-scale process.

The procedure of the Applications Paper Prize is identical to the one of the Young Authors Prize.

Applications Paper Prize Selection Committee for the IFAC World Congress in Munich

- L. Keviczky (H) — Chairman
- D. Ernst (FRG)
- U. Luoto (SF)
- J. L. Nevins (USA)

The winners of both prizes and the finalists will be announced and presented with certificates at the Closing Session of the Congress.

The value of the monetary award of each prize will be sfr 1.500.

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Papers from the Next Issue — July 1987

Papers

- Robustness of Nonlinear State Feedback — A Survey (T. Glad)
- Time Optimal Control of Overhead Cranes with Hoisting of the Load (J. W. Auernig, H. Troger)
- A Parameter-Adaptive PID-Controller with Stepwise Parameter Optimization (F. Radke, R. Isermann)
- Adaptive Control of Linear Time-Varying Plants (K. Tsakalis, P. Ioannou)
- Physically Based Parameterizations for Designing Adaptive Algorithms (S. Dasgupta, B. D. O. Anderson)
- Detection and Diagnosis of Changes in the Eigenstructure of Nonstationary Multivariable Systems (M. Basseville, A. Benveniste, G. Moustakides, A. Rougée)
- A Prediction-Error-Method for Recursive Identification of Nonlinear-Systems (W. Jakoby, M. Pandit)
- Identification and Application of Bounded-Parameter Models (J. P. Norton)
- Identification and Model Reduction of Time-Varying Discrete-Time Systems (S. Shokoochi, L. M. Silverman)
- Distributed Algorithms for the Computation of Noncooperative Equilibria (S. Li, T. Basar)

Brief Papers

- Some Results on Simultaneous Stabilization with Multiple Domains of Stability (M. Vidyasagar)
- On the Uniqueness of Prediction Error Models for Systems with Noisy Input-Output Data (P. Stoica, A. Nehorai)

Technical Communiques

Book Reviews

- Lineare Kontrolltheorie by H. W. Knobloch and H. Kwakernaak (J. L. Willems)
- Nonlinear System Theory by J. L. Casti (T. Glad)

Fred Margulies Memorial Workshop

A Memorial Workshop will be held in Laxenburg near Vienna on October 2, 1987, to commemorate the 70th birthday of the late IFAC Secretary, one of the outstanding specialists on the interdependence between society and new technologies.

The workshop will be sponsored by several Austrian authorities and organised by the IFAC Secretariat. Well known scientists from Austria and abroad were invited to give lectures on social effects of automation.

For further information please contact the IFAC Secretariat.

WHO IS WHO IN IFAC



Professor Marc J. Pélegrin
Chairman of the IFAC

Technical Committee on Aerospace

Professor Marc J. Pélegrin was born in Paris on November 28, 1923. He graduated from the Polytechnic School in 1946 and subsequently studied at the Ecole Nationale Supérieure de l'Aéronautique, both in Paris, until 1949. After his graduation from this institute he spent one year at the Massachusetts Institute of Technology in the USA. Back in France he took his Doctor ès Sciences (PhD) degree in 1952. In 1960 he received a honorary doctor's degree from Gand University in Belgium.

In his professional capacity Professor Pélegrin worked as an engineer in the Technical Services of the French Air Force from 1950 to 1960. His activities in this function were concerned with guidance of missiles and aircraft, study on simulators for missiles and training simulators for aircraft. From 1960 to 1964 Professor Pélegrin was Scientific Advisor at SHAPE. From 1964 he was in charge of the transfer of the Ecole Nationale Supérieure de l'Aéronautique et de l'Espace from Paris to Toulouse and was responsible for the creation of the Research Center attached to the school. He became head of the Automatism Research Centre attached to the School in Paris and transformed it into a department of the Research Centre in Toulouse. In 1964 he also became Professor at the Automatic Control and Electronic Computer department of the school and in 1969 he was appointed director of the School (Ecole nationale Supérieure de l'Aéronautique et de l'Espace) and Research Centre in Toulouse. From 1978 on he has been Director of the Research Centre in Toulouse (Centre d'Etudes et de Recherches de Toulouse) and in 1983 he became Secretary General of the Académie Nationale de l'Air et de l'Espace.

Professor Pélegrin is holder of the Aeronautics Medal (1971); officier de l'Ordre National du Mérite (1973); officier de la Légion d'Honneur (1979). He received the Prix Michel Monpetit (French Academy of Sciences - 1981) and is a corresponding member of the French Academy of Sciences (since 1987) and a Foreign Member of the National Academy of Engineering in the USA (since 1978).

Among his functions in IFAC have been the Chairman of the Education Committee, Vice-chairman of the Space Committee. At present Prof. Pélegrin is Chairman of the Space Committee, which was renamed "Aerospace" Committee in 1986. Under his chairmanship also, this committee has organized a number of symposia, workshops and conferences which have attracted great interest in the scientific community.