IFAC

International Federation of Automatic Control

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1986 No. 1 Feb.

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MUNICH CALLING

The 10th IFAC-World congress will be held in Munich from July 26 to 31, 1987 and is hosted by the NMO of the Federal Republic of Germany, the VDI/VDE Gesellschaft Messund Regelungstechnik in Düsseldorf.

The Congress location will be the GASTEIG Cultural Center of Munich. Accomodation will be available in many easy-to-reach hotels.

Munich is the capital of Bavaria and has 1.3 million inhabitants. This town is many cities in one — a city of lovingly preserved tradition, a city of bold, modern technology, a city of arts and sciences, a commercial center, a fashion capital, a convention center — an ideal city for contacts.

Munich can be reached by air via Munich-Riem International Airport or by train.

Technical Program

The scope of interest of IFAC Congresses is indicated by its 14 technical committees. The technical program will consist of

- plenary sessions
- technical sessions with survey and regular papers
- discussion sessions
- case study sessions.

The aim of the plenary sessions is to give an overview of the state-of-the-art and the future development in some selected fields of IFAC. The other sessions are arranged in subject areas. Each subject area consists of a group of technical sessions, discussion sessions and case study sessions.

In the technical sessions survey/tutorial or review papers (40 min) and regular papers (20 min) are presented.

Special attention will be given to application oriented contributions. Therefore, also industrial companies are asked to present their knowledge and experience.

Social Events, Technical Visits

In addition to the technical program, a number of feature programs are being planned. Examples are:

Technical visits to plants and scientific institutes in or around Munich.

Excursions to scenic and historical sites and other places of interest in Munich and vicinity.

Reception and other social parties in the evenings.



Call for Papers

The call for papers will appear in January 1986. Papers are solicited in all fields of automatic control, including (but not limited to) the theory, applications and implications of automatic control in technical, biological, economic and social/human systems.

The papers will be reviewed by International Program Committees, set up by the Technical Committees separately for each subject area.

Subject Area Titles

(The first number indicates the responsible Technical Committee, except No. 1. In the call for papers keywords are given for each subject area, in order to underline special directions and to ease classification of papers.)

- 1.1 Control of Electric Generating Plants and Power Systems
- 1.2 Control in Mineral, Mining and Metal Processing
- 1.3 Control of Chemical Processes and Processes for Natural Products like Food, Wood, Agriculture
- 1.4 Industrial Applications of Modern Control Methods
- 1.5 Control of Vehicles and Engines
- 2.1 Biomedical Engineering
- 3.1 Intelligent Components and Instruments for Automatic Control
- 3.2 Control of Electrical Drives and Power Electronics
- 4.1 Digital Computer Control Systems
- 5.1 Control System Approach to Development

News from NMOs Celebration of the 30th Anniversary of the Belgian NMO

On December 17th, 1985, our Belgian NMO celebrated its 30th anniversary with an academic meeting and reception at the Royal Library in Brussels. Indeed the Belgian Institute of Automatic Control (BIRA in Dutch, IBRA in French) was founded in 1955. Two years later IFAC was founded in Heidelberg. In the early 70's the Institute was transformed into a Federation IBRA-BIRA of two institutes: the French "Institut Belge de Régulation et d'Automatisme" and the Flemish "Belgisch Instituut voor Regeltechniek en Automatisering".

The celebration was attended by numerous delegates of the main Belgian control and automation industries and of university control laboratories, as well as representations of IMEKO, IFAC and ISA.

and the Dutch NMO "Afdeling Regeltechniek van het Koninklijk Instituut voor Ingenieurs" to its Belgian sister organisation. He then proceeded with some reflections on process automation in the second half of this century. He characterized process control technology as an interdiscipline between several technological and nontechnological sciences, discussed its impact on Western European economic developments, and the role of innovations in instrumentation and measurement technology versus mathematical control theory in determining future trends in process automation.

Dr. J. LE QUEMENT talked about the economic and social aspects of the automation of manufacturing industries in Western Europe, and clarified the importance of several EC-programs in this area.

Ir. J. van CAUWENBERGHE, president of the BIRA-IBRA Federation and son of its first president Prof. R. van CAUWENBERGHE, gave a short historical overview of the activities of the organization during the past 30 years.

In his official address on behalf of IFAC, President Prof. M. THOMA emphasized the importance of an active organization like BIRA-IBRA in the heart of the European Community. He particularly referred to the PRP-conferences (Automation in the Pulp and Paper, Rubber, Plastics & Polymerization Industries) which originated in Belgium and have become one of the main application-oriented conferences of IFAC. He highlighted the primary goals of IFAC for the near future and discussed the means to achieve them. He also presented some thoughts on the impact of microelectronics on future trends in automatic control.

The main speakers of the evening were Prof. O. RADEMAKER from the Technical University of Eindhoven (Netherlands) and Dr. J. LE QUEMENT (France) from the Task Force Technology, Information and Telecommunications of the Commission of the European Communities.

Prof. RADEMAKER expressed greetings and congratulations on behalf of the Dutch Foundation for Measurement and Control

Comparisons were made with recent developments in Japan and the U.S.A., in particular with respect to CAD-CAM techniques and robotics.

The meeting was concluded with the presentation by Prof. A. van CAUWENBERGHE (chairman of the jury and 1986 president of the Federation) and BIRA and IBRA presidents J. L. LAMS and J. DEBELLE of the first BIRA-IBRA prizes for the best student thesis report (M. Sc. thesis) in automatic control. The prize was awarded to ir. P. PICART (University of Brussels, 1983) for his work on biological control systems, and to ir. G. DE WINNE and E. KUYS (University of Gent, 1983) for a thesis on the control of heat exchangers.

After the academic session lively discussions continued at the cocktail party, organized in the lobby of the Royal Library amidst an appropriate exhibition of old machinery of the first Industrial Revolution. Among the attendance one could hear optimistic comments on the future of automatic control and the further the evening proceeded the better intentions were formulated for the future.

Indeed, a very memorable day in a beautiful historical setting, only a few steps away from the Brussels Grand'Place, that unforgettable landmark of eternal grandeur.

(ctd. from p. 1)

- 6.1 Strategic Planning of Energy Systems
- 6.2 Modelling and Control of Socio-Economic Systems
- 7.1 Automatic Control Education
- 8.1 Automatic Control in Manufacturing
- 8.2 Robotics Control
- 9.1 Nonlinear Control
- 9.2 Singular Perturbation and Nonlinear Programming
- 0.1 Social Aspects of Automation
- 11.1 Automatic Control in Space and Aeronautics
- 2.1 Large Scale Systems
- 12.2 Improving International Stability
- 12.3 Industrial Systems Engineering
- 12.4 Computer Aided Control System
 Analysis and Design
- 12.5 Man-Machine Systems
- 12.6 Control of Transportation Systems
- 12.7 Water Resources Systems Planning and Management
- 14.1 Linear System Theory
- 14.2 Stochastic Control and State Estimation
- 14.3 Distributed Parameter Systems
- 14.4 Adaptive Control
- 14.5 Modelling and Identification
- 14.6 Control Systems Design
- 15.1 Application of Artificial Intelligence and Expert Systems for Automatic Control.

Draft Papers

The selection of congress contributions will be based on draft papers (15 pages maximum), to promote the presentation of the latest developments. These draft papers must contain all the substantial concepts and results of the work to be reported. However, they do not have to be in a final, polished form. Also, results of some parts of the work still in progress (like simulation data, operational experience) may be missing but reference must be made to the fact that these will be included in the final version. Please follow the requirements listed in the call for papers.

Time Table

Draft paper (5 copies)
Authors notified
of acceptance/rejection
Final papers

May 24, 1986
November 1, 1986
February 15, 1987

You are cordially invited to actively participate in the 1987 IFAC Congress in Munich.

Further information and the Call for Papers will be provided on request by

VDI/VDE-Gesellschaft Mess- und Regelungstechnik GMR D-4000 Düsseldorf 1

Federal Republic of Germany Phone: 0211/6214-224 Telex: 08586525

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.





FORTHCOMING EVENTS

No. 1 Feb.

Prof. K. J. Natrém Dept: of Automotic Control			Lund.	COOTISHOP July Adaptive Systems in Control 1—3
Title	1986	Place	Deadlines	Further Information
5th IFAC/IFIP/IMACS/IFORS Symposium Information Control Problems in Manufacturing Technology	April 22 — 25	Suzdal, SU	London. UK	Organizing Committee of the 5th Symposium ICPMT 65, Profsojuznaja Str. Moscow, 117342, USSR
IFAC Workshop Reliability of Instrumentation his way Systems for Safeguarding and Control	May 27 80 8	The Hague, NL	Vienne. A Istanbul	Mr. J. P. Jansen Horstlaan 34 NL-3971 LC Driebergen NL Molecular of the company o
Experience with the Management of Software Projects	May 14 — 16	Heidelberg, FRG	Beijing PRO	H. Wiefels VDI/VDR GMR POB 1139 D-4000 Düsseldorf 1, FRG
2nd IFAC Symposium Shivor9 gnir Stochastic Control	May 19 12 23 19 23 19 23 19 23 19 23 19 23 19 24	Vilnjus, SU	Beilling, PRC	USSR National Committee on Automatic Control 65, Profsojuznaja Str. Moscow, 117342, USSR
IFIP/IFAC/IFORS Conference			Frondheim, N	CAPE '86 c/o DIS Congress Service 48, Line Allé DK-2720 Vanlose/Copenhagen, Denmark
Software for Computer Control (SOCOCO)		A	Takya, U	SOCOCO '86 att. Ms. R. Hammer, IIG IIM printing at notismotus Schießstattgasse 4a A-8010 Graz, Austria
14th IFAC/IFIP Workshop Real Time Programming	May 26 — 28	Siófok, Balaton H	Zuntah, — CH	Prof. J. Szlanko Central Institute for Physics POB 49 H-1525 Budapest, Hungary
IFAC Workshop nortos 3 a M Use of Technology incl. Systems Cooperation for	Ma E januly & AFGET 6— E 156 Bd Persire F-75017 Paris F		Aix-en- Provence	SWIIS Foundation Inc. 1226 Waverly Place schenectady, N.Y. 12308, USA
IMACS/IFAC Symposium Modelling and Simulation for Control of Lumped and Distributed Parameter Systems	June June 3 — 6 1	Lille, F	Karlaruhe, FRG	
Vision Control	June 10—12	Espoo, SF	Philadelphi <u>n</u> PA_USA	Mr. Martin Ollus Technical Research Centre of Finland Otakaari 5 I SF-02150 Espoo, Finland
IMEKO/IFAC Symposium Intelligent Measurement	June 10 — 14	Jena, GDR	Vienna, — A	Prof. D. Hofmann Friedrich-Schiller University Section Technology GDR-6900 Jena
	O June 17—20	Budapest, H	Kyolo.	Dr. Margit Ziermann Institute of Economic Planning Roosevelt tér 7—8 H-1051 Budapest V, Hungary
7th INRIA/IFAC Conference Analysis and Optimization of Systems	June 24—27	Antibes, F	Mayachose Rad November FRG	A. Bensoussan President of INRIA INRIA — B. P. 105 78153 Le Chesnay Cedex, France
Parameter Systems	June 30 July 3	Pasadena, USA	Sorint, —	Mr. G. Rodriguez Jet Propulsion Laboratory 3800 Oak Grove Drive 38 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

FORTHCOMING EVENTS (ctd.)

Title	1986	Place	Deadlines	Further Information
IFAC Workshop Adaptive Systems in Control and Signal Processing	July 1—3	Lund, S		Prof. K. J. Åström Dept. of Automatic Control Lund Institute of Technology
				Sweden
Nonlinear Programming	July mo 6 —10 mm 0 mm 6 —10 mm 10 mm	London, UK	Suzdai, SU	Prof. R. W. H. Sargent Imperial College of Science and Technology Prince Consort Road London SW7 2BY
5th IFAC/IFIP/IFORS International Conference Control in Transportation Systems	July	Vienna, A	The Hague.	ÖPWZ, Mr. W. Stejskal POB 131 MM gorlishow DA3 A-1014 Vienna, Austria olfatnemuniani to villidaller
IFAC Symposium Microcomputer Application in Process Control	July 22—25 sielelW H	Istanbul, TR	Heidelberg.	Prof. E. Adali P. K. 175 Levent-Istanbul, Turkey
IFAC Workshop Modelling, Decisions and Games with Applications to Social Phenomena	August 11—15	Beijing, PRC	FRQVilnjus.	Prof. Zhang Si-Ying Dept. of Automatic Control Northeast Inst. of Technology Shenyang, Liaoning Province, PRC
Power Systems and	August 12—15	Beijing, PRC	SU Copenhagen,	Mr. Ma Guobin Chinese Society of Electrical Engg. No. 1, Lane 2, Baiguan Road POB 2905, Beijing, China
IFAC Symposium Automation in Aquaculture	August 18—21		DK	Prof. J. G. Balchen Mandisologa Managemet Norwegian Inst. of Technology 113 by Managemet N-7034 Trondheim NTH, Norway 38 3140 -
and Metal Processing	August 24 — 29	Tokyo, J	Graz.	Prof. Y. Yoshitani Technological University of Nagaoka Dept. of Control Engineering Kamitomioka Nagaoka 949-54, Japan
Theory and Applications	August 26 — 29	Zurich, CH	Slótok, Ba <u>lat</u> on H	Prof. M. Mansour IFAC/IFORS Symposium ETH Zentrum CH-8092 Zurich, Switzerland
Intelligence	September 2 2 - 4		Cleveland — OH, USA	156 Bd. Péreire Adl nollanegood amais/6 F-75017 Paris, France tollflood landifement
IFAC Workshop Skill Based Automated Manufacturing	September 3.5 9 to 9 84 9 8 MGI AG M V respect	Karlsruhe, FRG	Liller	Dr. P. Brödner Kernforschungszentrum Karlsruhe GmbH Projektträger Fertigungstechnik P. O. Box 3640 D-7500 Karlsruhe 1, FRG
2nd IFAC Workshop Modelling and Control of Electric Power Plants	September 16—18	Philadelphia PA, USA	Espeo	Dr. H. G. Kwatny, Prof. of Systems Engineering Drexel University Dept. of Mechan. Engg. & Mechanics Philadelphia, PA 19104, USA
IFAC/IMACS Symposium Simulation of Control Systems	September 22 — 26	Vienna, A	- Annu ROĐ	Dr. P. Kopacek Technical University Karlsplatz 13 A-1040 Vienna, Austria
IFAC Workshop Fault Detection and Safety in Chemical Plants	September 28 — October 1	Kyoto, J	Budapret	Prof. T. Takamatsu Dept. of Chemical Engineering Kyoto University Kyoto 606, Japan
	October 13 — 15	Mayschoss- Bad Neuenahr, FRG	Antibes, •	Mr. H. Wiefels VDI/VDE GMR Postfach 1139 D-4000 Düsseldorf, FRG
Safety of Computer Control Systems — SAFECOMP '86	October 14 — 17	The state of the s	Pasadens, • USA	Mr. J. M. A. Rata Chargé de Mission EDF Service IMA 1, Ave. du Général de Gaulle F-92141 Clamart, France

^{*} deadline not yet known

FORTHCOMING EVENTS (ctd.)

Title	1986	Place	Deadlines	Further Information
6th IFAC/IFIP/IMEKO Conference Instrumentation and Automation in the Paper, Rubber, Plastics and Polymerization Industries	October 27—29	Akron OH, USA	TI to leave to lo notterebe-	Prof. A. Kaya The University of Akron Dept. of Mech. Engg. Akron, OH 44325, USA
IFAC Symposium Automatic Measurement and Control in Woodworking Industry — Lignoautomatica '86	November 17 — 21	Bratislava, CS	A lo rofts and to a A va Suet been to a (troops)	Dr. Branislav Hruz The State Forest Products Res. Institute Lamacská 1 CS-84411 Bratislava, CSSR
IFAC Symposium Components, Instruments and Techniques for Low Cost Automation and Applications	November 27—29	Valencia, E not nellonting 2 a strake 10 (long 6 os	March 15, 1986	Prof. Pedro Albertos Polytechnical University of Valencia P.O. Box 22012 Valencia, Spain
IFAC/IFIP/IMACS Symposium Theory of Robots	December 3-5	Vienna A		Dr. P. Kopacek Technical University of Vienna Karlsplatz 13 A-1040 Vienna, Austria
IFAC Symposium Control of Distillation Columns and Chemical Reactors	December 8-10	Bournemouth UK	ministic Constitution Spiritution Spiritut	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	December 15—17	Bangalore IND	O mwtood , Sepper Sepper Charles of Service of the charles of	Dr. M. Ramamoorty Central Power Research Institute P.O.B. 1242 Bangalore 560 012, India

^{*} deadline not yet known

Planning and Operation of Electric Energy Systems IFAC Symposium

Rio de Janeiro, Brazil, July 22-25, 1985

The Symposium was sponsored by the Brazilian National Member Organization, Sociedade Brasileira de Automática – SBA, and cosponsored by the Brazilian National Committee of CIGRÉ and the Brazil Council of IEEE. The meeting was designed to bring together two important R & D groups, those working in automatic control and the electric power systems specialists.

the end of the post-graduate courses at the traditions of Control Sciences in Moscow

Over 300 participants from 20 different countries attended the Symposium. During the four days of the Event, seventy five papers were presented in the areas of: State Estimation, Short-Term Hydrothermal Scheduling, Generation and Transmission Planning, Distribution Automation, Long-Term Hydrothermal Scheduling, Security Analysis and Control, Static Var Compensation, Power Plant and Generation Control, Power Systems Control Centers, Optimal Power Flow, Digital Relaying, Network Analysis, Reactive Power Control, Stability, Dynamics and Security Analysis, Microcomputer Systems, Power Systems Stabilizers.

The papers were selected by an International Program Committee chaired by Dr. Thomas E. DyLiacco.

Four invited papers were presented: "Optimal Scheduling of Hydrothermal Systems: an

Overview" by M. V. F. Pereira, CEPEL, "Optimal Power Flows: Uses, Methods and Developments" by J. L. Carpentier, EDF, "On-Line Stability and Dynamic Security Assessment of Electric Power Systems" by M. Ribbens-Pavella, Th. Van Cutsem and P. Rousseaux, University of Liège, and "Acquiring a Qualitative Understanding of System Behavior Through Al Inductive Inference" by Yoh-Han Pao, T. E. DyLiacco and I. Bozma, Case Western Reserve University.

A parallel exhibition showed the participants some of the most recent advances in power systems control hardware and software.

Among the participants, there were representatives from China, Japan, the USA, several European countries and, of course, many Brazilians.

The Preprints Volume was printed in Brazil and has been prepared by our Symposium Editor Sergio H. F. da Cunha.

We were greatly honored to be able to host this Symposium in Rio de Janeiro as it proved to be both informative and enjoyable to all national and international participants.

Acher Mossé
Chairman NOC

IFAC Congratulates



Tibor VAMOS named Fellow of the Institute of Electrical and Electronics Engineers

IFAC takes great pleasure in announcing that T. Vamos, the Past President of IFAC has been elected to the distinguished grade of fellow by the Institute of Electrical and Electronics Engineers. Congratulations and best wishes are herewith extended on behalf of the IFAC family.

News from Sister Federations

The IFIP General Assembly (GA) met in Tokyo 4-7 September 1985, preceded by meetings of the Council and several IFIP committees. The major actions taken were the election of vice-president Mr. Ashley Goldsworthy (AUS) as president-elect and the approval of several measures modifying IFIP's structure.

The 10th IFIP Congress 1986 "World Computer Congress" will be held in Dublin, Ireland, from September 1-5, 1986.

This 10th Computer Congress will create a new awareness of informatics in a technologically and socially developing world and will facilitate the exchange of this information between professionals of a wide variety of disciplines. This Congress will be of interest to System Scientists, Designers, Engineers, Managers and Users as well as Policy Makers and Planners alike and will also examine the legal, social, cultural and economic problems related to informatic applications.

> Congress Secretariat: IFIP Congress '86 44 Northumberland Road Dublin 4, Ireland

News from the Secretariat

Ms. Elfriede Schrott has retired from the IFAC Secretariat as of December 1985. Ms. Schrott was with us for five years and has rendered IFAC invaluable services. We thank her on behalf of IFAC, wish her all the best for the future and hope that she will remain an IFAC family member in her heart of hearts. She has been succeeded by Ms. Ernestine Rudas.

PLEASE NOTE:

The new brochure "Presentation of Scientific Papers" is now available at the IFAC Secretariat. This brochure is of particular interest to all those who plan to deliver a paper at a scientific event.

Offenlegung:
Das Medlenwerk "IFAC Newsletter" wird als Organ der "International Federation of Automatic Control (IFAC)" verlegt und ist Eigentum dieser internationalen Föderation, deren Tätigkeit der Förderung von Wissenschaft und Technik automatischer Regelung und Steuerung dient. Die Föderation hat ihren Sitz in Genf und ist nach Schweizer Recht als gemeinnütziger Verein angemelet. Sie verfolgt und verschaftliche noch praktische Ziele.

weder wirtschaftliche noch praktische Ziele.
Das Sekretariat der IFAC befindet sich seit 1978 aufgrund eines Übereinkommens mit der Österreichischen Bundesregierung und der Österreichischen Akademie der Wissenschaften in Laxenburg.

Der "IFAC-Newsletter" erscheint sechsmal jährlich in

englischer Sprache unter der Redaktion des General-sekretärs der IFAC, Dipl.-Ing. Gusztäv Hencsey. Die Zeitschrift dient der Information über die Aktivitäten der IFAC. Sie wird kostenlos an Abonnenten in 48 Ländern versandt, die Kosten werden von der IFAC aus den Beiträgen der derzeit 42 Mitgliedsländer getragen. Präsident der IFAC ist für 1984/87 Prof. Dr. M. Thoma (BRD),

Vizepräsidenten sind Akademiemitglied Prof. Dr. B. Tamm (UdSSR), Prof. B. D. O. Anderson (Australien) und W. E. Miller (USA). Alle Funktionen werden ehrenamtlich ausgeübt.

(To our readers: To comply with the Austrian "Media Act" every publication must contain a declaration once a year concerning ownership and purpose as above.)

The Journal of IFAC the International Federation of Automatic Control

Papers from the 104th Issue - March 1986

Survey Paper

Application of Advanced Control Methods in the Pulp and Paper Industry - A Survey (G. A. Dumont)

Papers

Design of a L.Q.G. Controller for Single-Point Moored Large Tankers (G. Di Masi, L. Finesso, G. Picci) Optimal Performance and Robust Stabilization (S. D. O'Young, B. A. Francis) Convergence Rate Determination for Gradient-Based Adaptive Estimators (R. R. Bitmead, B. Anderson, T. Sang Ng) Deterministic Convergence of a Clarke-Gawthrop Self-Tuning Controller

(C. Tsiligiannis, S. Svoronos) Rapprochement Between Continuous and Discrete Model Reference Control (G. C. Goodwin, D. Q. Mayne, R. L. Leal)

Brief Papers

Adaptive Attitude Control for Large-Angle Slew Manoeuvres

(P. van den Bosch, W. Jongkind, A.van Swieten) An Optimal Secondary Voltage-VAR Control Technique

(J. S. Thorp, M. Ilic-Spong, M. Varghese) Plasma Estimation: A Noise Cancelling Application

(J. V. Candy, T. Casper, R. Kane)

Modified Maximum Likelihood Method for the Robust Estimation of System Parameters from very Noisy Data

(S. Puthenpura, N. K. Sinha)

Asymptotically Optimum Recursive Prediction Error Methods in Adaptive Estimation and

(J. B. Moore, R. K. Boel)

Self-Tuning Servo for Stochastic References (S. Stankovic, M. Radenkovic)

Decoupling in the Design and Synthesis of Singular Systems (M. Christodoulou)

Technical Communiques Book Reviews

Digital Processing of Signals by M. Bellanger (S. M. Bozic)

Modern Control System Theory by M. Gopal (O. L. R. Jacobs)

Models and Sensitivity of Control Systems by A. Wierzbicki (D. H. Owens)

Automatica Subscription

The Journal of IFAC, AUTOMATICA, is available to individuals at the preferential rate of US dollars 30.00 per annum. The journal is published bi-monthly.

Order forms are available directly from Pergamon Press Offices

USA, Central and South America: Fairview Park, Elmsford, New York 10523, USA

UK and all other countries: Headington Hill Hall, Oxford OX3 OBW, England.

WHO IS WHO IN IFAC



Ants Work Chairman of TERMST

Ants Work was born on March 28, 1939, in Tallinn, Estonia. He received his cum laude Diploma Engineer degree in Automatic Control from the Tallinn Technical University in 1962. Having been a designer in the Automation Department of the Radio Factory RET in Tallinn from 1961 to 1965, he joined the Institute of Cybernetics of the Academy of Sciences of the Estonian SSR in 1965. At the end of his post-graduate courses at the Institute of Control Sciences in Moscow from 1967 to 1970 he took his Candidate of Science (Ph. D.) degree in Control Engineering (optimal control of systems with distributed parameters). Between 1971 and 1976 he was Senior Researcher and since 1976 he has been Assistant Director of the Institute of Cybernetics, Estonian Academy of Sciences. In 1978 he received his Diploma of Senior Research Scientist from the Academy of Sciences of the USSR.

Ants Work is Assistant Professor of Computer Science at the Tallinn Technical University on a part time basis.

His early research interest concerned different aspects of process control of industrial processes (slab reheating furnaces, reciprocating compressor pipeline systems). He has published 30 papers and research reports on these subjects. His current areas of interest include different aspects of teleprocessing and computer networks.

He has served IFAC at both IFAC meetings held in Tallinn: as Vice-chairman of the Organizing Committee for the first SOCOCO Symposium in 1976 and for the 4th Workshop on Distributed Computer Control Systems in 1982, and he is already engaged with the preparations of the coming IFAC Congress which will be held in Tallinn in 1990.

At the IFAC Kyoto Congress in 1981 he became Chairman of the IFAC TC on Terminology and Standards for 1981-1984. He was a member of the IPC for the 1984 IFAC Congress in Budapest.

He is at present holding the office of Chairman of the IFAC TC on Terminology and Standards, to which he was re-elected for the second term during the 9th World Congress of IFAC, held in Budapest.