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Impressum:

Medieninhaber und Herausgeber:
International Federation of Automatic Control (IFAC), Genf
Schlossplatz 12, A-2361 Laxenburg, Austria

Verlagsort und Redaktion:
Dipl.-Ing. Gusztáv Hencsey
Schlossplatz 12, A-2361 Laxenburg

Hersteller:
Artur Schefczik & Sohn
August-Reuss-Gasse 3, A-1130 Wien

Editor: Gusztáv Hencsey

Layout: Margaret A. Gottfried
published bimonthly

Message from the President

IFAC has now started its eleventh triennial period with forty four National Member Organizations. The two new members that joined and were accepted by the General Assembly at the Munich Congress were the Kuwait Society of Engineers and the Korean Association of Automatic Control. Let me once more congratulate them and wish a fruitful cooperation with other NMOs and TCs.

As I mentioned at the Closing Session of the Munich Congress it is the spirit of international amity and cooperation which has always been prevailing in IFAC and which joins together people of different origins, religions and countries to best serve the promotion of the science and technology of control and systems engineering to achieve better understanding and a more stable world.

IFAC is to provide opportunities for people from many countries with similar technical interests in control engineering to interact in a manner which is in their best interest. We do this through our programs of meetings and publications which offer opportunities for an informal exchange of ideas associated with these activities.

Our technical strategy is planned and prepared by the Council, Technical Board, Executive Board and the Technical Committees with their Working Groups. The main outcome of this strategy is our professional events — conferences, symposia and workshops. These events, in turn, are organized by our National Member Organizations. That is why the link between the TCs and NMOs, i.e. between the corresponding people, is vitally important.

We need more input from our NMOs about topics of interest to people in their countries. IFAC has always been relying on personal contacts between people devoted to their profession and to our community.

At the present moment IFAC is also concerned with several problems which have to be solved to keep our high standards, to improve our professional output and the international reputation of our organization. Not pretending to a complete list I still should specify some, because I am sure that any progress made by the NMOs in this direction will give us a good chance to reach the goals mentioned.

We need:

- more contributions from industry
- academic people to meet people from industry more often

- better marketing of our activities; sometimes our technical events do not receive sufficient publicity in the daily press
- to invite more young talented and active people
- to activate people to contribute to TCs as members, to attend the annual meetings and technical events.

Our Secretariat is ready to contribute to any activity in which an NMO needs information or assistance. So do not hesitate to contact the Secretariat and provide good feedback in return.

Since publications are one of the most important output I advise to improve contributions and communication with our publisher Pergamon Press, with "Automatica", "Newsletter", the Publications Committee and the Publications Managing Board.

Quite in general I believe that we have to pay great attention to social and ethical problems in addition to the traditional technical ones. Engineers today are responsible for the lives, health and future of more people than any other professional, but the role and reputation of engineers does not always match the growing responsibility of our profession. Therefore it seems worth while to develop an international code of engineering ethics to step up efforts towards increasing safety and security of technical systems. I am convinced that IFAC will make progress in this direction during the next triennial period.

The service which our non-profit, non-political and non-governmental organization provides to the control community is carried out by particular people, by engineers and scientists full of faith in and enthusiasm for IFAC. I should like to express my highest appreciation to everyone who has taken the burden to serve our Federation.

(Editor's note: Excerpts from a letter to all National Member Organizations.)

Mayor of Laxenburg Visits Secretariat

Mag. Heinrich Schneider, Mayor of Laxenburg, visited the premises of the IFAC Secretariat. He showed great interest in the operation of the Federation. To acquaint the citizens of Laxenburg better with IFAC, a lecture on the organization and its work was discussed and will be held in the course of 1988.

FIACC Meeting

Budapest, Hungary, August 31, 1987

The annual meeting of the sister federations was held in conjunction with the IFIP General Assembly. G. Hencsey, IFAC Secretary, reported on the latest IFAC activities on behalf of the President of IFAC. This report focussed on the 10th IFAC World Congress and the decisions taken by the IFAC General Assembly and other IFAC bodies. The participants of the meeting discussed the co-operation with other international organizations such as UNESCO, UNIDO, UITA and ICSU.

During the deliberations on cooperation among and between sister federations, IFAC was distinguished for being the most open organization concerning co-sponsorship, and the participants considered its success an example to be followed.

The IMEKO President, G. Toumanoff (USA), will be FIACC President for the next two years and Gy. Striker (H) continues to be the Honorary Secretary.

The next FIACC meeting will be held in July 1988 during the IFORS World Congress in Paris.

Modelling and Simulation of Distributed Parameter Systems IMACS/IFAC Symposium

Hiroshima, Japan, October 6-9, 1987

This symposium was sponsored by the IMACS Technical Committee on Control Systems and Robotics, and co-sponsored by the IFAC TCs on Theory and Mathematics of Control. The opening session was conducted by Prof. Y. Sunahara and there were three opening addresses by Dr. T. Yoshida (Hiroshima Institute of Technology), Prof. S. G. Tzafestas (IMACS) and Prof. H. T. Banks (IFAC). Prof. S. G. Tzafestas delivered the opening lecture "Impact of Distributed Parameter and Large Scale Systems Theory on the Computer Control of Modern Life Systems". The two special lectures were delivered by Prof. Y. Sunahara and Prof. H. T. Banks during the symposium.

The symposium was attended by 140 delegates from 17 countries and due to the large number of contributors it was necessary to arrange three parallel sessions.

It proved to be very successful with respect to participation, the quality of papers and discussions and the warm atmosphere created by those who attended.

T. Futagami
IPC Chairman



1987 — 1990 IFAC TCs and Working Groups

On the occasion of the Technical Board Meeting held in the framework of the annual Council and Related Meetings during the 10th World Congress in Munich, the establishment of some new Working Groups was decided. For the information of our readers find below a complete list of IFAC TCs and their Working Groups. This list may be amended as the need arises for further specialized fields to be covered by Working Groups. Such decisions are usually prepared by the Technical Committees and submitted to the Technical Board at its respective annual meeting in the framework of the Council and Related Meetings. For more detailed information please contact the IFAC Secretariat at Schlossplatz 12, A-2361 Laxenburg, Austria.

List of IFAC TCs and their Working Groups

TC on AEROSPACE

WG on Specifications for an Automatic Data Link between ATC and Planes

TC on APPLICATIONS

WG on Electric Power Systems
WG on Electric Generating Plants
WG on Chemical Process Control
WG on Metallurgical, Mining and Mineral Processing
WG on Modelling and Control in Agriculture
WG on Marine Control
WG on Control and Instrumentation of Biotechnological Processes
WG on Control of Vehicles and Signals

TC on BIOMEDICAL ENGINEERING AND CONTROL

WG on Decision Support Systems for Control of Physiological Variables

TC on COMPONENTS AND INSTRUMENTS

TC on COMPUTERS

WG on Guidelines and Specifications for Software for C.A.C.S.D.
WG on Management of Software Projects
WG on Artificial Intelligence in Control Computing
WG on Distributed Computer Systems

TC on DEVELOPING COUNTRIES

TC on ECONOMIC AND MANAGEMENT SYSTEMS

WG on Modelling and Control of National and Regional Economic Systems
WG on Energy Systems Management and Economics

TC on EDUCATION

WG on Educational Programs in Robotics
WG on Continuing Education

TC on MANUFACTURING TECHNOLOGY

WG on Intelligent Systems in Manufacturing

TC on MATHEMATICS OF CONTROL

WG on Game Theory and Multicriteria Optimization
WG on Asymptotic Analysis and Design
WG on Control Applications of Optimization
WG on Stochastic Analysis and Control

TC on SYSTEMS ENGINEERING

WG on Computer Aided Systems Analysis and Design
WG on Industrial Systems
WG on Large Scale Systems Engineering Methodology and Applications
WG on Man-Machine Systems
WG on Supplemental Ways for Improving International Stability
WG on Water Resource Systems
WG on Large Scale Agricultural, Forest and Environmental Systems
WG on Transportation Systems

TC on SOCIAL EFFECTS OF AUTOMATION

TC on THEORY

WG on Adaptive Systems in Control and Signal Processing
WG on Robust Control Theory
WG on Actuator and Sensor Placements
WG on Control Theory and Signal Processing
WG on Theory of Robots

TC on TERMINOLOGY

Offenlegung:

Das Medienwerk „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 angemeldet. Sie verfolgt 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 Generalsekretärs der IFAC, Dipl.-Ing. Gusztáv 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 44 Mitgliedsländer getragen.

Präsident der IFAC ist für 1987/90 Akademienmitglied Prof. Dr. B. Tamm (UdSSR), Vizepräsidenten sind Prof. B. D. O. Anderson (Australien), Prof. S. Kahne (USA) und Prof. L. Ljung (Schweden). 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.)



FORTHCOMING EVENTS

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Title	1988	Place	Deadlines	Further Information
IFAC/IMEKO/IMACS Symposium Modelling and Control in Biomedical Systems	April 6—8	Venice Italy	—	Prof. C. Cobelli Istituto di Elettrotecnica e di Elettronica Università di 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
IFIP/IFAC Conference Hardware and Software for Real-Time Process Control	May 30— June 1	Warsaw Poland	—	Prof. J. Zalewski Institute of Atomic Energy PL-05-400 Otwock/Swierk, Poland
IUTAM/IFAC Symposium Dynamics of Controlled Mechanical Systems	May 30— June 3	Zurich CH	—	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	—	Ms. Th. Bricheateau INRIA, B.P. 105 Domaine de Voluceau F-78153 Le Chesnay, France
INRIA/IFAC Bellman Continuum	June 13—14	Sophia Antipolis F	—	Prof. A. Blacquiére Université de Paris VII Lab. Automatique Théorique Tour 14-24, 2, place Jussieu F-75251 Paris Cedex 05, 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
IFIP/IFAC Conference Software for Manufacturing PROLAMAT	June 14—17	Dresden GDR	—	Prof. D. Kochan Technische Universität Dresden Sektion Fertigungstechnik und Werkzeugmaschinen — PROLAMAT '88 Mommensstrasse 13, DDR-8027 Dresden, GDR
IFAC Workshop Control Application of Nonlinear Programming	June 21—25	Tbilisi USSR	—	Acad. V. A. Trapeznikov USSR National Committee of Automatic Control, Profsojuznaja ul. 65 Moscow GSP 312, USSR
IFAC/IMEKO/IMACS Symposium Distributed Intelligence Systems: Methodology and Applications	June 27— July 1	Varna BG	—	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
IFAC Symposium Adaptive Control of Chemical Processes	August 17—19	Lyngby DK	—	Prof. M. Kümmel Denmark Technical University Institute for Kemiteknik, Bldg 229 DK-2800 Lyngby, Denmark
IFAC Workshop Robust Adaptive Control	August 22—24	Newcastle NSW, AUS	—	Prof. G. C. Goodwin Dept. of Electrical & Computer Engrg The University of Newcastle, N.S.W. 2308, Australia

FORTHCOMING EVENTS (ctd.)

Title	1988	Place	Deadlines	Further Information
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, PRC
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
IFAC Workshop Advances in Automation for Hard Rock and Underground Mining	Sept. 12—14	Ste Adele CDA	—	Prof. A. Piché Dept. of Mineral Engrg. Ecole Polytechnique de Montreal C.P. 6079, Succ. A Montreal, Quebec H3C 3A7, Canada
3rd Intl. Symposium Systems Analysis and Simulation	Sept. 12—16	Berlin GDR	*	Prof. Dr. A. Sydow ZKI der AdW der DDR Kurzstrasse 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
IFAC Workshop Artificial Intelligence in Real-Time Control	Sept. 21—23	Swansea UK	—	Prof. M. G. Rodd Dept. of Electrical Engrg. University College of Swansea Singleton Park, Swansea SA2 8PP, UK
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	Bruges B	—	Dr. ir. L. Boullart Automatic Control Lab. University of Ghent Grotesteeweg 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
IFAC Workshop Applied Measurements in Mineral and Metal Processing	Oct. 11—14	Johannesburg ZA	Feb. 15, 1988	The Organizers SACAC Workshop c/o MINTEK Private Bag X3015, Randburg South Africa
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
IFAC/IFIP Symposium Safety of Computer Control Systems — SAFECOMP '88	Nov. 9—11	Fulda FRG	—	D. I. H. Wiefels VDI/VDE-GMA, Graf-Recke Str. 84 P.O. Box 1139 D-4000 Düsseldorf 1, FRG

* deadline not yet known

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FORTHCOMING EVENTS (ctd.)

Title	1989	Place	Deadlines	Further Information
SCS/IFIP/IFAC Workshop Artificial Intelligence in Management & Economics	January 11—13	Singapore	July 1, 1988	Mrs. Vicky Toh Institute of Systems Science National University of Singapore Kent Ridge, Singapore 0511
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 WC1E6AA, UK
IFAC/IMACS/IFIP Symposium (5th) Control of Distributed Parameter Systems	June 26—29	Perpignan France	*	A. El Jai Lab. d'Automatique IMP du CNRS Université de Perpignan, 50 Avenue de Villeneuve, F-66000 Perpignan, France
IFAC/IFORS/IMACS/IEEE Intl. Conference Advanced Information Processing in Automatic Control	July 3—7	Nancy France	*	R. Husson, Directeur du CRAN LAUT-ENSEM 2, rue de la Citadelle, BP 850 F-54100 Nancy, Cedex, France
IFAC/IFORS/(IMACS 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 634 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
IFAC/IFIP/IFORS/CIRP Workshop Decisional Structures in Automated Manufacturing	Sept. 18—21	Genova I	*	Prof. A. Villa Dip. Tecnologia e Sistemi di Produzione Politecnico di Torino C. so Duca degli Abruzzi 24 I-10129 Torino, Italy
IFAC/IFIP/IMACS/IFORS Symposium (6th) Information Control Problems in Manufacturing Technology	Sept. 29— Oct. 1	Madrid E	*	Prof. E. A. Puente Head of Systems Engrg. Dept. UPM, Jose Gutierrez Abascal 2 E-28006 Madrid, Spain
IFIP/IFAC Conference Computer Applications in Production Engineering (CAPE '88)	Oct. 2—5	Tokyo J	Sept. 30, 1988	Conference Secretariat CAPE '89 c/o Conference Dept; Business Center for Academic Societies Japan 2-40-14, Hongo Bunkyo-ku, Tokyo 113, Japan
IFAC/(IMACS/IFIP) Symposium Skill Based Automated Manufacturing	Nov. 15—17	Vienna A	*	Prof. P. Kopacek Dept. of System. Techn. & Automation University of Linz A-4040 Linz-Auhof, Austria
Title	1990	Place	Deadlines	Further Information
XI IFAC WORLD CONGRESS	August 13—17	Tallinn USSR	January, 1989	Institute of Cybernetics Akadeemia tee 21 200108 Tallinn, USSR

* deadline not yet known

Papers

- Analytical Design of Intelligent Machines
 (G. N. Saridis, K. P. Valavanis)
- Automated Guidance of Vehicles Using Vision
 and Projective Invariant Marking
 (L. Nielsen)
- A Comparative Study of Self-Adaptive Long-
 Range Predictive Control Methods
 (R. M. C. De Keyser, Ph. G. A. Van de Velde,
 F. A. G. Dumortier)
- On PID Controller Tuning Using Orthonormal
 Series Identification
 (C. Zervos, P. R. Belanger, G. A. Dumont)
- Robust Control of Flexible Structures: A Case
 Study
 (J. Bontsema, R. F. Curtain, J. M. Schumacher)
- Decentralized Tracking for a Class of Inter-
 connected Nonlinear Systems Using Variable
 Structure Control
 (G. P. Matthews, R. A. DeCarlo)
- State-Dependent Optimality of a Singular
 Subarc
 (J. Shinar)
- Linear Estimation of Random Fields with
 Second-Order Increments and Its Application
 (A. Ohsumi)
- Identification of Physical Parameters in
 Structured Systems
 (S. Dasgupta, B. D. O. Anderson, R. J. Kaye)
- On the Design of Man-Machine Systems:
 Principles, Practices, and Prospects
 (W. B. Rouse, W. J. Cody)

Brief Papers

- Simultaneous Generation of Sensitivity
 Functions — Transfer Function Matrix
 Approach
 (S. Bingulac, J. H. Chow, J. R. Winkelman)
- Gaussian Approximation in Recursive Estima-
 tion of Multiple States of Nonlinear Wiener
 Systems
 (O. L. R. Jacobs)
- Optimization of Hydropower System Opera-
 tion with a Quadratic Model
 (S. A. Soliman, G. S. Christensen)
- Sensitivities of the Prescribed Pole Spectrum
 in a Closed-Loop Control System
 (M. R. Stojic, M. M. Fedenia, R. M. Stojic)
- An Explicit Formula and an Optimal Weight
 for the 2-Block Structured Singular Value
 Interaction Measure
 (C. N. Nett, J. A. Uthgenannt)
- The Generalized Hessenberg Representation
 and Near Aggregation
 (D. K. Lindner, W. R. Perkins)

Technical Communiques

Book Reviews

- Robot Analysis and Control by H. Asada and
 J.-J. E. Slotine
 (P. Hills)
- Adaptive and Learning Systems: Theory and
 Applications by K. S. Narendra (Editor)
 (P. Dorato)
- Microcomputer Bus Structures and Bus
 Interface Design by A. L. Dexter
 (B. Sebestyen)
- Real-Time Interfacing: Engineering Aspects
 of Microprocessor Peripheral Systems by
 J. E. Cooling
 (D. Petersen)
- Distributed Control Systems: Their Evaluation
 and Design by M. P. Lukas
 (M. G. Rodd)

**Michel Cuénod
 Trust Fund**

Michel Cuénod was Treasurer of IFAC for 21 years and had, from its inception in 1957, been very much concerned with the dissemination of Control- and Systems Engineering in developing countries. Before his untimely death in 1987 he had himself given his unstinted help to the Department of Electrical Engineering of the Middle East Technical University in Ankara and had assisted members of that Department to attend IFAC Congresses. One of his last wishes was that a fund should be established to assist academic staff and students in developing countries, and particularly those from the Department of Electrical Engineering of the Middle East Technical University in Ankara, to attend IFAC Congresses and other IFAC meetings. When after his death this desire, which was also the wish of his widow Jacqueline, was brought to the attention of the Council of IFAC, the said Council agreed unanimously to establish such a fund. Further, as a token of IFAC's gratitude to Michel Cuénod for the many outstanding and valuable services he had rendered to IFAC and in order to have his name perpetuated in IFAC, this new Educational Trust Fund should be called the Michel Cuénod Trust Fund.

This Trust Fund is initially vested with a sum of sfr 25,000.— which is earmarked for members (academic staff or students) of the Department of Electrical Engineering of the Middle East Technical University of Ankara, Turkey. If and when the assets of the Fund exceed sfr 25,000.— the first sfr 25,000.— shall be kept in a separate division of the Fund to be used solely and exclusively for the group of persons mentioned above. Any additional monies available to the Trustees of the Fund shall be administered by them to be available for the assistance of young engineers and scientists of other developing countries in such ways as the Trustees may determine in order to further objects of the Trust.

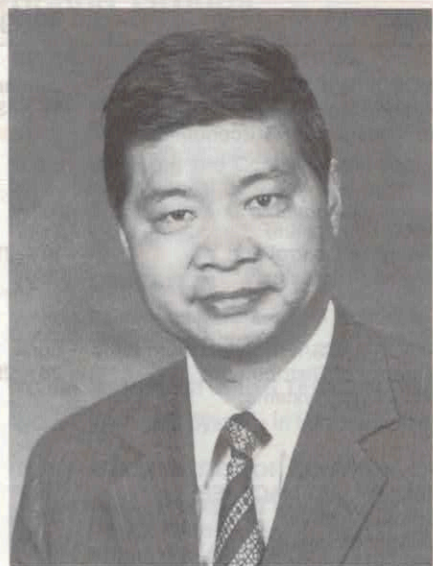
The Fund shall be administered by 3 to 5 trustees, among them, the respective President of IFAC in office, the respective Immediate Past President, the Treasurer of IFAC, Mrs. Jacqueline Cuénod and Prof. John F. Coales (Advisor).

Persons wishing to contribute to this Fund can do so by remitting money to the following account:

Schweizerische Kreditanstalt
 Hauptsitz
 CH-8021 Zurich
 Switzerland
 account number: 681319-30

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.

WHO IS WHO IN IFAC



Prof. Yong-Zai Lu
 IFAC Council Member

Prof. Yong-Zai Lu was born in Hangzhou, China on October 18, 1937. He graduated from the Department of Chemical Engineering, Zhejiang University Hangzhou in 1961, and has been working at Zhejiang University since then. Since 1984, he has been a full Professor and Director of the Laboratory for Industrial Process Modelling and Control, and currently is also Director of the System Engineering and Control Research Center, Zhejiang University, and concurrently Professor at the Department of Automatic Control, Shanghai Jiaotong University. In 1980—1982, he was a visiting Associate Professor at Purdue Laboratory for Applied Industrial Control, Purdue University in the US.

Prof. Lu's research interests are mainly in process modelling and modern control techniques, large scale system theory and intelligent control, and their applications in industry, especially the large scale steel mills, oil refinery and chemicals. He closely cooperates with several large-scale industrial companies to put the academic research results into practice. A number of integrated computer control, optimization and production scheduling systems as developed by Prof. Lu have been implemented in the real production scale steel mills and oil refinery.

He is the author or co-author of five books on control engineering (one of them was published by the Instrument Society of America, 1983) and over 60 papers (half of them were published in English in International Journals and Conference Proceedings). He was invited to give seminars and/or lectures at Universities and Companies in the USA, Europe and Japan.

Currently, he is a Vice President of The Chinese Association of Automation and National Committee Member of the China Association of Science and Technology. He is Editorial Board member of the major Chinese control related journals. At the last meeting of the General Assembly in Munich, July 1987, he was elected ordinary member of the IFAC Council.