



IFAC

NEWSLETTER

No. 1 March, 1976

**International Federation
of Automatic Control**

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For immediate release

IFAC/IFIP Symposium on Automation in Off-shore Oil Field Operation (Bergen, Norway, June 14 – 17, 1976)

Final call for papers (deadline for paper submission past) and general information available from:

Mr. Kåre Røsandhaug
The Ship Research Institute of Norway
N-7034 Trondheim-NTH, Norway

Telex 55086 sfit n.

IFAC/IFIP/IFORS Third International Symposium on Control in Transportation Systems (Columbus, Ohio, U.S.A., August 9 – 13, 1976)

Second announcement and call for papers (deadlines past) and general information available from:

Mr. David Van Meter
Chairman of the Program Committee
U.S. Department of Transportation
Kendall Square
Cambridge, MA 02142 USA

Second IFAC/IFIP Symposium on Ship Operation Automation (Washington, D.C., August 30 – September 2, 1976)

Second announcement and call for papers (final copy deadline May 1, 1976 available from:

Mr. John Roche
Room 4885
U.S. Maritime Administration
Washington, D.C. 20230 USA

First Announcement and Call for Papers:

IFAC/IFORS Second International Conference on Dynamic Modelling and Control of National Economies (Vienna, Austria, January 24 – 27, 1977)

Sponsored by the IFAC Technical Committee on Economic and Management Systems and the International Federation of Operational Research Societies, organized by Austrian Centre for Efficiency and Productivity.

Call for papers and provisional topics: The meeting will confront you with the latest standard in applied systems engineering and control theory to the dynamic analysis and control of macro-economic models. Papers are welcomed to the following general items:

- Concepts and Methods
- Empirical Macroeconomic Models on Growth and Cycles
- Applied Optimization Models

Special emphasis will be given to:

- Practical Experiences in Forecasting Models
- Problems in Policy-Optimization in Macroeconomic Models
- Input-Output Analysis and Macroeconomic Model-Building

Time schedule:

Abstract submission past
Original papers May 15, 1976 (in English)
Definitive registration April 15, 1976

Conference address:

Dkfm. Wilhelm Stejskal, Conference Secretary
c/o Austrian Centre for Efficiency and Productivity
P.O. Box 131
A-1014 Vienna, Austria

Cables OEPEWEZET WIEN

Second Announcement:

2nd IFAC Symposium on Automation in Mining, Mineral and Metal Processing (Johannesburg, Republic of South Africa, September 13 – 17, 1976)

Second announcement with provisional programme and provisional registration form available from:

The Secretariat IFAC Symposium
CSIR Conference Division (S.100)
P.O. Box 395
Pretoria, Republic of South Africa
0001

Telex SA 3-360

Second Announcement:

IV IFAC Symposium on Identification and System Parameter Estimation (Tbilisi, Georgian SSR, USSR, September 21 – 27, 1976)

Second announcement with preliminary scientific programme and registration form available from:

USSR National Committee of Automatic Control
Profsojuznaja, 81
117806 Moscow, USSR

Final Announcement:

ICCAS 76 Gothenburg 1976 IFIP-IFAC International Conference on Computer Applications in the Automation of Shipyard Operation and Ship Design (Gothenburg, Sweden, June 8 - 11, 1976)

Final announcement with preliminary programme available from:

ICCAS 76 Gothenburg
Gothenburg Convention Bureau
Parkgatan 2
S-411 38 Göteborg, Sweden

First Announcement and Call for Papers:

IFAC Symposium on Trends in Automatic Control Education (Barcelona, Spain, March 30 - April 1, 1977).

Sponsored by the IFAC Technical Committees on Education, on Computers and on Theory, organized by Comité Español de la Federación Internacional de Automática, Universidad Politécnica de Barcelona and Asociación de Técnicos de Informática.

Purpose: The aim of the Symposium is to present the trends in Automatic Control Education both at University and Vocational levels. Development of new curricula and teaching methods as well as the relationship between Automatic Control Education and the needs of modern industry will be specially emphasized.

Topics:

Interactive Education Systems
Programmed Learning Systems
Computer Aided Design Systems

Automatic Control Education for Vocational Purposes

Automatic Control Education in Developing Countries

Specific Topics in Automatic Control Education

Modern Control Theory
Stochastic Control
Systems Approach

Continuing Education in Automatic Control

Abstracts: Authors are invited to present papers within the range of the above topics. Submission in duplicate of a 200-300 word abstract in English (the official symposium language) by April 15, 1976.

Papers: Final papers should be submitted in English according to the instructions for authors which will be sent upon preliminary acceptance of the abstract.

Time Schedule:

Abstract submission April 15, 1976
Preliminary acceptance June 25, 1976
Full paper submission October 15, 1976
Final acceptance December 1, 1976
Registration deadline January 15, 1977

Symposium Address:

Mrs. Roser Lluch
Comité Español de la IFAC
Via Layetana, 39
Barcelona - 3, Spain

First Announcement and Call for Papers:

5th IFAC/IFIP International Conference on Digital Computer Applications to Process Control (The Hague, The Netherlands, June 14 - 17, 1977)

Sponsored by the IFAC Technical Committees on Computers and on Applications, co-sponsored by the International Federation for Information Processing, organized by the Royal Institution of Engineers in the Netherlands (KIVI); Division for Automatic Control.

Purpose: The aim of the Conference is to determine the present status of digital computer applications to process control in different industries. Special attention will be given to papers that apply modern control concepts to practical problems.

Program: Papers will be invited in the following fields of application:

- Chemical and oil
- Metallurgical
- Energy and power
- Instrumentation and laboratory equipment
- Traffic, transportation, vehicles
- Biomedical, clinical, healthcare
- Economic, urban, environment, social
- Offshore, exploration and marine
- Material handling and distribution
- Others (e.g. food, paper, cement, textile)

The program is being organized in such a way that in the above mentioned application fields attention will be given to control methods, hardware and software, and general features, such as: control algorithms, optimisation and adaptation, hierarchical systems, modelling and identification, systems engineering (interfacing, programming, reliability, standardisation, performance, ergonomics), theoretical analysis, simulation on a computer, experimental setup or pilot plant, implementation on a real process.

Special features:

- A tutorial course during the conference on aspects of digital control algorithms and software and hardware aspects
- Surveys of application areas presented by invited experts
- Case studies
- Excursions to various Dutch industries.

Call for Papers: All experts in this field are invited to offer papers on the listed topics.

Abstracts: 200–300 words in English in 5 copies should be received not later than July 1, 1976.

Papers: Full papers (in English only) should be submitted in reproducible form, types on special sheets provided by the Organizing Committee, by January 1, 1977.

Time Schedule:

Abstract submission July 1, 1976
Preliminary selection October 1, 1976
Full paper submission January 1, 1977
Final selection of papers February 15, 1977

Conference Address:

IFAC/IFIP 1977 c/o KlvL
23 Prinsessegracht
The Hague, The Netherlands

First Announcement and Call for Papers:

4th IFAC Symposium on Multivariable Technological Systems (Fredericton, New Brunswick, Canada, July 4–8, 1977)

Sponsored by the IFAC Technical Committees on Theory, on Applications and on Space, organized by The National Research Council, of Canada, Associate Committee on Automatic Control and The University of New Brunswick.

Purpose: The aim of the Symposium is to discuss recent results in the development and application of analysis and design techniques for the control of multivariable systems.

Scope: Topics included within the above theme are such aspects as the modelling and identification of multivariable processes, comparisons of various types of design technique, computer aided design, multilevel and hierarchical control, and adaptive control; work describing applications of the above methods in the design of control for industrial processes, prime movers, nuclear reactors, electrical power plants, electrical drives, surface transportation, aerospace and space vehicles, walking systems, manipulators and biomedical applications.

Call for Papers: Prospective contributors are invited to submit abstracts (3 copies) in English or French (300–500 words) of papers describing new work in any of the above areas. The abstract should clearly indicate the contribution of the proposed paper and its relevance to the symposium theme. A general criterion which will be applied to theoretical papers is that they must be associated with the development of design techniques, or deal with some other specific aspect of multivariable theory with foreseeable application. A general criterion for applications papers (which are especially desired) is that they have some clearly defined multivariable aspect.

Language: Abstracts and papers may be submitted and presented in English or French. No simultaneous translation will be provided at the Symposium. It is expected that English will be the language common to the majority of delegates. Abstracts of the final papers will be required in English and French.

Time Schedule:

Submission of abstracts June 15, 1976
Notification of provisional acceptance July 15, 1976
Submission of papers November 15, 1976
Notification of acceptance February 1, 1977
Registration April 1, 1977

Symposium Address:

The Secretary
IFAC MVTSS Symposium
Electrical Engineering Department
University of New Brunswick
Fredericton, New Brunswick, Canada E3B 5A3

First Announcement and Call for Papers:

IFAC Symposium on Environmental Systems Planning, Design and Control (Kyoto, Japan, August 1–5, 1977)

Sponsored by the IFAC Technical Committees on Systems Engineering and on Applications, organized by the IFAC Environmental Systems Symposium Committee.

Purpose: In view of the growing importance of environmental problems in all parts of the world, it is the aim of the symposium to discuss experiences and exchange information on the problems encountered in different parts of the world, and to contribute to the furtherance of the technology of planning, design and control of environmental systems.

Topics:

1. Measurement and Monitoring of Environment
 - Detection of pollutants
 - Telemetry and telecommunication
 - Remote sensing of pollution
 - Monitoring system, etc.
2. Modeling and Simulation of Environmental Systems
 - Data gathering and processing
 - Methodology for modeling and simulation
 - Simulation of pollution
 - Urban, regional, national and global modeling, etc.
3. Design and Control of Environmental Systems
 - Methodology for design and control
 - Total system design
 - Water and energy supply system
 - Traffic system
 - Waste treatment and management, etc.

IV IFAC Symposium on Identification and System Parameter Estimation (The Hague, The Netherlands, September 21–22, 1976)

Second announcement with preliminary scientific programme and registration form available from:

4. Industrial Systems Control for Environment

- Recycling technique
- New chemical process
- Emission control
- New energy resources, etc.

5. Evaluation of Environmental Systems and Technology Assessment

- General methodology
- Environmental standards
- Environmental assessment for regional and national planning
- Economic and social aspects, etc.

Abstracts: Three copies of an about 500-word abstract in English should reach the Secretariat not later than August 31, 1976.

Obituary

The Hungarian National Committee of IFAC announces hereby with the deepest regret the death of Academician Otto Benedikt at the age of 78.

O. Benedikt, an outstanding scientist, inventor of the rotating amplifier named "autodyn" in the thirties, was one of the pioneers in Hungary of the science of automatic control. At first - professor, Head of automatic control and the control of electrical drives department at the Technical University of Budapest, thereafter as the founder of the Laboratory for Automation of the Hungarian Academy of Sciences, nucleus of the Computer and Automation Institute of the Hungarian Academy of Sciences, furthermore as a dedicated teacher of a new generation of scientists, he was a personality of worldwide reputation. Several books, published in German, English and Russian, bear evidence of his activity.

Papers: Full papers should be submitted in English by January 31, 1977, according to the Instructions for Authors which will be sent upon acceptance of the abstract, which will be notified by the end of November, 1976. The official symposium language is English.

Symposium Address:

The Secretariat of IFAC Environmental Systems Symposium
c/o Prof. Y. Sawaragi
Dept. of Applied Mathematics & Physics
Faculty of Engineering
Kyoto University
Kyoto 606, Japan

Cable address: IFAC KYOTO

He received the highest academic award, the Golden Medal of the Hungarian Academy of Sciences, was given the award of the Kossuth Prize as well as that of an honorary doctorate from both the Budapest and Moscow Universities.

O. Benedikt was elected 2nd Vice-President of IFAC in 1959 and was President of our National Committee until his death.

The Hungarian automatic control community, the Computer and Automation Institute of the Hungarian Academy of Sciences, will always keep alive the memory and spirit of his outstanding personality.

J. SOMLO
Secretary
Hungarian NMO of IFAC

T. VAMOS
2nd Vice-President
IFAC