



## Forthcoming Symposia for Control Engineers

A varied program of symposia has been planned by the International Federation of Automatic Control in conjunction with various national and international organisations. Each of these symposia covers a portion of control fields in

depth, such as theoretical advances, new components, fluidics, and systems design. Responsibility for overseeing the program content and assessing the timeliness of the symposia lies with one of IFAC's Technical Committees. The future program of ten symposia involves the IFAC Components, Theory, Applications and Systems Engineering Committee.

## List of IFAC Symposia 1968

Subject	Date	Place	Address of Organising Committee
Pulse-Rate and Pulse-Number Signals in Automatic Control	8-11 April	Budapest Hungary	Organising Committee, Budapest 112, POB 63, Hungary
Digital Control of Large Industrial Systems (IFAC/IFIP)	17-19 June	Toronto Canada	IFAC/IFIP Symposium Toronto, Division of University Extension, University of Toronto, Toronto 5, Ontario /Canada
Optimal Systems Planning	20-22 June	Cleveland USA	Prof. T.J. Williams, Purdue Lab. of Appl. Ind. Control, Michael Golden Engrg. Lab., Purdue University, Lafayette, Indiana 47907
System Dynamics and Automatic Control in Basic Industries	26-30 Aug.	Sydney Australia	The Institution of Engineers, Austr. Science House, Gloucester & Essex Streets, Sydney, N.S.W./Australia
System Sensitivity and Adaptivity	26-31 Aug.	Dubrovnik Yugoslavia	Mr. S. Bingulac, Yugoslav Committee for ETAN, POB 356, Belgrade/Yugosl.
Automatic Control in Lime, Cement and Connected Industries	9-13 Sept.	Brussels Belgium	Secretariat de l.'I.B.R.A., 3 Rue Ravenstein, Brussels 1, Belgium
Technical and Biological Problems of Control	24-28 Sept.	Yerevan USSR	Dr. M.A. Boyarchenkov, USSR National Committee of Aut. Contr., Kalanchevskaja ul. 15-a, Moscow, B-53/USSR
Hazard and Race Phenomena in Switching Circuits	6-11 Oct.	Bucharest Rumania	Gr. C. Moisil, Institutul de Matematica, 47 Str. Mihail Eminescu, Bucharest 3, Rumania
Multivariable Control Systems	7-8 Oct.	Düsseldorf Germany	VDI/VDE-Fachgruppe Regelungstechnik, POB 1139, D-4000 Düsseldorf, Germany
Fluidics	4-7 Nov.	London England	IFAC London Fluidics Symposium, Royal Aeronautical Society, 4 Hamilton Place, London W 1/England



## Automatic Control Conference in the Cement and allied industries

### Call for Papers

The Belgian Institute of Control and Automation (IBRA) is organising a conference with the sponsorship of the Application Committee of IFAC on Automatic Control in the Cement, Lime and allied industries. Planned to be held in Brussels between September 9 - 13, the conference theme will be the success of automatic control systems in:

- improving process safety
- reducing production costs
- optimizing production techniques.

Papers are invited which discuss solutions to two difficult problems in applying process control in the lime and cement industries

- Analysis of the basic phenomena occurring in the kiln, cooler, crusher and other parts of the plant from which control systems can be defined
- Measurement of non-homogeneous, variable viscosity materials of high temperatures.

Specific contributions are sought on the construction and definition of mathematical models of the plant and such operations of humidifying, drying, wet and dry grinding and kilning. In the

measurement area, the theme will be on-line measurement of material analysis, flow, viscosity, density and water content.

### Computer control a main subject

Another area on which papers are being invited is computer control of the processes. Here subjects of such papers would cover any of the following:

- Supervisory control by computer
- Output optimization
- Control room design
- Economics of computer control.

### Deadline dates

Preliminary two-page abstracts should be submitted immediately with the final text required by March 15th 1968.

Registration forms and the provisional programme will be available in April 1968.

For further details contact:

Secretariat de l'IBRA  
3, Rue Ravenstein,  
Bruxelles 1, Belgium.

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## System Sensitivity and Adaptivity

### Call for Papers

As announced in the IFAC Information Bulletins Nos. 31 and 34, the second IFAC Symposium on System Sensitivity and Adaptivity will be held at Dubrovnik, Yugoslavia, August 26 to 31, 1968

Papers are solicited in the following areas: analytical and computational methods of sensitivity analysis, performance bounds for large parameter variations, invariance, sensitivity and optimality, design of low-sensitivity systems, stochastic approach to parameter variation problems, relation of sensitivity to adaptive control, applications of sensitivity in iterative optimization, simulation and control system synthesis.

The deadline for submission of papers is February 1, 1968. Papers are restricted to 12 single-spaced typewritten pages, including figures.

Prospective authors should submit five copies of their paper to one of the organizing committee members as follows:

U.S.A.:

J.B. Cruz, Jr.  
Coordinated Science Laboratory  
University of Illinois  
U r b a n a , Illinois 61801

U.S.S.R.:

Ya. Z. Tsypkin  
Institute for Automation  
and Telemechanics  
Kalantchevskaja 15-a  
M o s c o w B-53

All other countries:

S. Bingulac  
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P.O. Box 356  
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