



1995  
No. 3  
June

# Newsletter

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Council- and Related Meetings  
in conjunction with the Symposium on  
Automation in Mining, Mineral and  
Metal Processing  
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Austria, May 1995

Control Engineering Practice  
Volume 3, Nos 5, 6 & 7 Previews

Forthcoming Events

Papers from the Next Issues of  
Automatica – Issues 6 & 7 1995

No-Show Authors – An Update

IFAC Goes Electronic

## Council- and Related Meetings

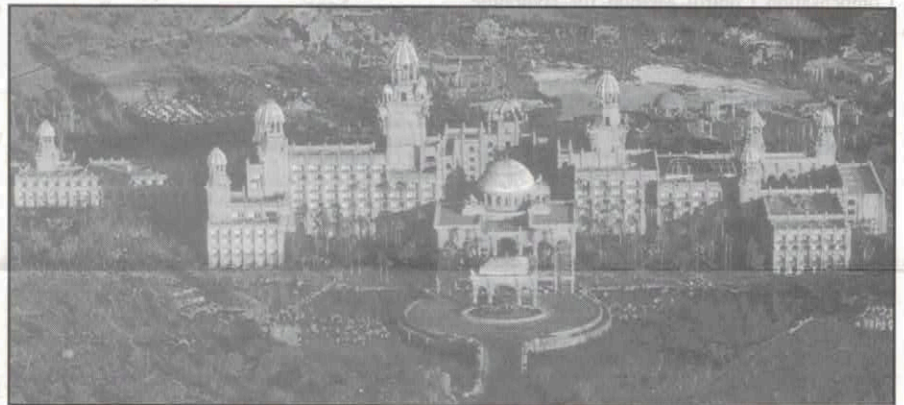
### Sun City, South Africa

25 – 28 August 1995

in conjunction with the

### IFAC International Symposium on Automation in Mining, Mineral and Metal Processing

29 – 31 August 1995



Welcome to Sun City

As already briefly indicated in the last issue of the IFAC Newsletter, the IFAC Council will hold its annual meeting on August 28.

The meeting schedule provides for meetings of Technical Committees and of Coordinating Committees as well as of the Publications Managing Board, the Publications Committee and the Automatica Editorial Board on August 25, to be followed by the meetings of the Policy Committee and of the Administrative and Finance Committee on August 26. This day will also be the time for the San Francisco Congress IPC to meet, as well as for the Technical Board. The meeting of the Technical Board will be continued the subsequent day, followed by the meeting of the Executive Board. It is important to note that a large part of the meeting time is dedicated to the discussion of technical issues and of publications-related matters. It can already be stated at this point that the new structure of the Technical Board has proven itself well.

The IFAC Officials are all looking forward to going to Sun City, South Africa, to enjoy the hospitality, to exchange opinions and to decide, among others, on the Congress venue for the year 2005.

## Informal Meeting of the IFAC Officers

Laxenburg, Austria

May 18 – 19, 1995

On the occasion of this annual informal meeting, the IFAC Officers had the opportunity to meet the Austrian hosts of the IFAC Secretariat, i.e. representatives from the Ministry of Science and Research, from the Academy of Sciences, the Austrian NMO and the IFAC Beirat. In addition, the IFAC Officers were invited to visit the newly established premises of the IFIP Secretariat.

The fact that an increasing number of international organizations of a similar nature as IFAC are moving to Austria shows that IFAC has made a wise choice many years ago which is also illustrated by the flexibility, continuity and stability IFAC enjoys in the way the administrative workload is handled. We should like to ask our subscribers to make use of all the services provided by the Secretariat.

This Newsletter may be reproduced in whole or in part. We encourage reprinting in national and local journals. Acknowledgment to IFAC would be appreciated.



**Control Engineering  
Practice**  
Volume 3 Number 5  
May 1995

**Preview:**

Keynote Paper: Fault Diagnosis and Neural Networks: A Power Plant Applications (G. Guglielmi, T. Parisini and G. Rossi)  
Specification Framework for Robust Control of a Run-of-Mine Ore Milling Circuit (I.K. Craig and I.M. MacLeod)  
Nonlinear Vortex Flow Control for High-Angle-of-Attack Manoeuvring (J.M. Buffington and R.J. Adams)  
Improvement of Pyrometric Sensing in Rapid Thermal Processing via Adaptive Cancellation of Lamplight Interference (Young Man Cho and T. Kailath)  
Response Time Prediction for Distributed Processes Specified in CaRT-Spec (L.R. Welch, A.D. Stoyenko and T.J. Marlow)  
Electronic Control of a Wheelchair Guided by Voice Commands (M. Mazo, F.J. Rodriguez, J.L. Lázaro, J. Ureña, J.C. García, E. Santiso and P.A. Revenga)  
Experimental Evaluations of a Kinematic Compensation Control Method for Hydraulic Robot Manipulators (Jianjun Zhou)

Papers from the IFAC Conference on Manoeuvring and Control of Marine Craft (Guest Editor: G.N. Roberts)

Preface to the Papers from the IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC '94) (G.N. Roberts)

Wave Feedforward Control of Floating Production Systems (B.T. Linfoot and V.J.C. Wright)

The Development of a Ride Control System for Fast Ferries (A.J. Haywood, A.J. Duncan, K.P. Klaka and J. Bennett)

Sea-Trial Experimental Results of Fin/Rudder Roll Stabilisation (M.T. Sharif, G.N. Roberts and R. Sutton)

Special Section on Advances in Control Education (Guest Editor: K. Furuta)

Preface to the Special Section on Advances in Control Education (K. Furuta)

Controls, Risk and Educational Responsibility: The Ethical/Professional Links (M.J. Rabins and C.E. Harris, Jr.)

A Strategy for Industry's Continuing Education Needs (M.K. Masten)

Continuing Education for Applying Control Theory to Automobiles at Toyota (H. Kousaka, M. Yamashita, Y. Hirano, A. Ohata and S. Ijichi)

The National Technological University (K.N. Reid)

IFAC Meeting Papers - Keyword Listing  
Fault Development, Supervision and Safety for Technical Processes, June 1994, Espoo, Finland  
Computer Software Structures Integrating AI/KBS Systems in Process Control, August 1994, Lund, Sweden

**Index of IFAC Meeting Papers**  
**Book Reviews**  
**Conference Calendar**

**Control Engineering  
Practice**  
Volume 3 Number 6  
June 1995

**Preview:**

Sensor Signal Validation Using Analytical Redundancy for an Aluminum Rolling Mill (N.D. Walker, Jr. and G.F. Wyatt-Mair)  
Synthesis of an Overall Boiler-Turbine Control System by a Single-Loop Auto-Tuning Technique (V. Bolis, C. Maffezzoni and L. Ferrarini)  
Robust Disturbance Cancellation in an Active Dynamic Vibration Absorber System (T. Mizuno, M. Moriya and K. Araki)  
A Knowledge Base for an Expert Identification Package (K. Szafranski and S. Gentil)  
State and Parameter Estimation for Wastewater Treatment Processes Using a Stochastic Model (R. Tenno and P. Uronen)  
Intelligent Sensor: Object Approach (D. Luttenbacher, S. Roth, M. Robert and C. Humbert)  
A Nonlinear Flight Controller Design for Aircraft (Jianling Wang and N. Sundararajan)

Papers from the IFAC/IFIP Workshop on Real-Time Programming (Guest Editor: W.A. Halang)

Preface to the Papers from WTRP'94: The IFAC/IFIP Workshop on Real-Time Programming (W.A. Halang)

Hierarchical Correctness Verification in Multiphase Real-Time Software Design (T. Szmuć, P. Szwed, J.-J. Schwarz and J. Skubich)

Visual Methods in Real-Time Software Design (M.G. Hinchey)

Task-Configuration of a Pearl-Based Programmable Controller for Process Automation (G. Thiele, H.J. Beestermöller, L. Renner, M. Domo and D. Popovic)

Mapping PEARL'S High-Level Real-Time Constructs to a C Run-Time Library Under Real-Time UNIX (R. Belschner and C.E. Pereira)

Mechanism Requirements for a Real-Time Image-Processing Language (P. Laplante, T. Marlowe and A. Stoyenko)

An Architecture Supporting Hard Real-Time Computing (S. Mostert, H.-P. Meske and W. Halang)

An Environment for Distributed Prototyping of Real-Time Systems (A. Alonso, J.C. Dueñas, G. León and J.A. de la Puente)

Synchronized Universal Time Coordinated for Distributed Real-Time Systems (U. Schmid)

IFAC Meeting Papers - Keyword Listing  
New Trends in Design of Control Systems, September 1994, Smolenice, Slovak Republic

Robot Control (SYROCO '94), September 1994, Capri, Italy

**Index of IFAC Meeting Papers**  
**Book Reviews**  
**Conference Calendar**

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**Control Engineering  
Practice**  
Volume 3 Number 7  
July 1995

**Preview:**

Keynote Paper: Hardware Compilation - A New Technique for Rapid Prototyping of Digital Systems - Applied to Sensor Validation (M.P. Henry)

Self-Sensing Magnetic Bearing Control System Design using the Geometric Approach (T. Mizuno and H. Bleuler)

Design of a Gyroscope with Minimum Error Covariance (I. Kim, T. Kang and J.G. Lee)

Optimal Adaptive Control of Fed-Batch Fermentation Processes (J.F. Van Impe and G. Bastin)

Towards an All-Terrain Identification Method for Models of Industrial Processes (L. Boillereaux and J.M. Flaus)

Knowledge-Based Systems and Neural Networks for Clinical Decision-Making (N.B. Bones, J.T. Wang, A.S. Sehmi and D.P. de Bono)

Advisor-Enhanced Real-Time System Control (D.W. Russell)

Application of Algebraic Methods to the Calculation of Steady States in Continuous Culture (C. Posten and B. Tibken)

Fault Seeding for Software Reliability Model Validation (A. Pasquini and E. De Agostino)

Papers from the IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS'94) (Guest Editor: T. Ruokonen)

Preface to the Papers from the IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS'94) (T. Ruokonen)

Real-Time Supervision for Diesel Engine Injection (S. Leonhardt, C. Ludwig and R. Schwarz)

Long-Term Wear Monitoring and Wear Prediction by Means of Wear Models (P. Neuenschwander, D.E. Maurer and L. Rychlicki)

Condition Monitoring and Diagnosis in a Solid Fuel Gasification Process (Y. Majanne, P. Lautala and R. Lappalainen)

An Expert-System-Based Machine Monitoring and Maintenance Management System (M. Streichfuss and P. Burgwinkel)

Application of Reliability Centred Maintenance in the Foundry Sector (D. Richet, N. Cotaina, M. Gabriel and K. O'Reilly)

IFAC Meeting Papers - Keyword Listing  
System Identification (SYSID'94), Espoo, Finland

**Index of IFAC Meeting Papers**  
**Book Reviews**  
**Conference Calendar**

**This Newsletter may be re-produced in whole or in part. We encourage reprinting in national and local automatic control periodicals. Acknowledgement to IFAC would be appreciated.**





# FORTHCOMING EVENTS

1995  
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| Title                                                                                                           | 1995              | Place                      | Deadline | Further Information                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IFAC/IFIP/IFORS/SEDC Symposium<br>Modelling and Control of National<br>and Regional Economies                   | July<br>2 - 5     | Brisbane<br>Australia      | -        | Convention Manager (IFAC 95)<br>POB E181<br>Queen Victoria Terrace, ACT 2600, Australia<br>FAX +61/6/273 2918                                                                                      |
| IFAC Conference<br>System Structure and Control                                                                 | July<br>5 - 7     | Nantes<br>France           | -        | Mr. J.J. Loiseau, IFAC CSSC,<br>LAN-ECN, URA CNRS 823, 1, Rue de la Noe<br>F-44072 Nantes Cedex 03, France<br>FAX +33/40 372522<br>e-mail: loiseau@lan.ec-nantes.fr                                |
| IFIP/IFAC/IFORS Conference (17th)<br>System Modelling and<br>Optimization                                       | July<br>10 - 14   | Prague<br>Czech Rep.       | -        | Dr. J. Dolezal<br>Institute of Information Theory and<br>Automation, UTIA, POB 18<br>CZ-18208 Prague, Czech Rep.<br>FAX +42/2/824755<br>e-mail: ifip@utia.cas.cz                                   |
| IFAC/IFORS/IMACS Symp. (7th)<br>Large Scale Systems; Theory<br>and Applications                                 | July<br>11-13     | London<br>UK               | -        | LSS'95 Secretariat<br>Control Engineering Centre, City University<br>Northampton Square, London EC1V 0HB, UK<br>FAX +44/71/477 8568<br>e-mail: lss95@city.ac.uk                                    |
| IFAC Conference<br>Youth Automation YAC '95                                                                     | August<br>8 - 10  | Beijing<br>China, P.R.     | -        | YAC'95 Secretariat, Mr. Bin Zhang<br>Chinese Assoc. of Automation, CAST Co<br>22 Baiwanzhuang Street<br>Beijing 100037, China, P.R.<br>FAX +86/1/832 6042                                          |
| IFAC Conference<br>Intelligent Autonomous Control<br>in Aerospace IACA '95                                      | August<br>14 - 16 | Beijing<br>China, P.R.     | -        | IFAC IACA Conference Secretariat<br>Ms. Li Jing, Beijing Inst. of Control Eng.<br>Chinese Academy of Space Technology<br>POB 2729, Beijing 100080, China, P.R.<br>FAX +86/1/254 3110               |
| ASME/IEEE/IFAC Intl. Conf.<br>Recent Advances in Mechatronics                                                   | August<br>14 - 16 | Istanbul<br>Turkey         | -        | Prof. Okyay Kaynak<br>Bogazici University, Dept. of EE<br>UNESCO Chair on Mechatronics<br>80815 Bebek - Istanbul, Turkey<br>FAX +90/212/257 50 30<br>e-mail: kaynak@vs6410.cc.boun.edu.tr          |
| IFAC Symposium (8th)<br>Automation in Mining, Mineral<br>and Metal Processing                                   | August<br>29-31   | Sun City<br>South Africa   | -        | MMM 95 Conference Secretariat<br>MINTEK, Private Bag X3015,<br>Randburg 2125, RSA<br>FAX +27/11 793 2413                                                                                           |
| 1995 European Control Conference<br>(in cooperation with IFAC)                                                  | Sept.<br>5 - 8    | Rome<br>Italy              | -        | ECC 95 Secr., D I S. Univ. degli Studi di Roma<br>"La Sapienza", Via Eudossiana 18<br>I-00184 Rome, Italy<br>FAX 39/6/44585367<br>e-mail: ecc95@itcaspur.caspur.it                                 |
| IMEKO/IFAC Conference<br>Model Based Biomeasurements                                                            | Sept.<br>6 - 9    | Stará Lesná<br>Slovak Rep. | -        | IMEKO MBB'95 Secretariat<br>Institute of Measurement Science<br>Slovak Academy of Sciences<br>Dubravska cesta 9<br>SK-842 19 Bratislava, Slovak Rep.<br>FAX +42 7 375 943, e-mail: imeko@savba.sk  |
| IFAC Workshop<br>Control Education and Technology<br>Transfer Issues                                            | Sept.<br>11-12    | Curitiba<br>Brazil         | -        | CETTI '95 Secretariat<br>Centro Federal de Educacao Tecnologica<br>do Paraná, Av. 7 de Setembro 3165<br>80230-901 Curitiba, Paraná, Brazil<br>FAX +55/41/224-5170<br>e-mail: CETTI95@cefet.anpr.br |
| IFAC Symposium<br>Low Cost Automation                                                                           | Sept.<br>13-15    | Buenos Aires<br>Argentina  | -        | IFAC LCA 95, Eng. A. T. Casucci<br>AADECA, Av. Callao 220 1oB<br>1022 Buenos Aires, Argentina<br>FAX +54/1/374 3780                                                                                |
| IFAC Workshop<br>Human-Oriented Design of<br>Advanced Robotics Systems                                          | Sept.<br>19 - 20  | Vienna<br>Austria          | -        | Prof. P. Kopacek, Technical University /E 318<br>Floragasse 7 a, A-1040 Vienna, Austria<br>FAX +43/1/504 18 359<br>e-mail: kopacek@ihrtl.ihr.tuwien.ac.at                                          |
| IFAC Symposium<br>Automated Systems Based on<br>Human Skills - „Joint Design of<br>Technology and Organization“ | Sept.<br>25 - 28  | Berlin<br>Germany          | -        | VDI/VDE GMA, Graf Recke Strasse 84<br>D-40239 Düsseldorf, Germany<br>FAX +49/211/6214-161                                                                                                          |
| IFAC Workshop (13th)<br>Distributed Computer Control<br>Systems - DCCS 95                                       | Sept.<br>27 - 29  | Toulouse<br>France         | -        | Prof. A.E.K. Sahrroui<br>LAAS-CNRS, 7, Avenue Colonel Roche<br>F-31077 Toulouse, France<br>FAX +33/61553577<br>e-mail: dccs95@laas.fr                                                              |



# FORTHCOMING EVENTS (ctd.)

| Title                                                                                      | 1995                 | Place                              | Deadlines       | Further Information                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------|----------------------|------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GI/GMA/IFIP/IFAC Workshop<br>Experience with the Management<br>of Software Projects        | Sept.<br>27-29       | Karlsruhe<br>Germany               | -               | MSP '95, Att. Dr. R. Richter<br>Landesamt f. Strassenwesen<br>Kraillenshalden-Strasse 44<br>D-70469 Stuttgart, Germany<br>FAX +49/711/8910-502                                                                             |
| IFAC Conference<br>Supplemental Ways for Improving<br>International Stability - SWISS      | Sept. 29 -<br>Oct. 1 | Vienna<br>Austria                  | -               | Dr. Alois Frotschnig<br>Technical University, IHRT<br>Floragasse 7 a, A-1040 Vienna, Austria<br>FAX +43/1/504 18 359<br>e-mail: alois@ihrt.tuwien.ac.at                                                                    |
| IFAC Workshop<br>Motion Control                                                            | Oct.<br>9 - 11       | Munich<br>Germany                  | -               | Prof. Dr. Ing. F. Pfeiffer<br>Lehrstuhl B f. Mechanik, TU Munich<br>D-80290 Munich, Germany<br>FAX +49/89/2105 3209<br>e-mail: ifacmoco@lbm.mw.tu-muenchen.de                                                              |
| IFAC/IFORS/IMACS/ISPE Symp.<br>Information Control Problems in<br>Manufacturing - INCOM 95 | Oct.<br>11-13        | Beijing<br>China, P.R.             | -               | INCOM '95 Secretariat<br>Institute of Manufacturing Systems (I720)<br>Beijing University of Aero-Astro, POB 85<br>Beijing 100083, China, P.R.<br>FAX 86/1/201 5347                                                         |
| IFAC Workshop<br>Intelligent Manufacturing Systems<br>- IMS'95                             | Oct.<br>24 - 26      | Bucharest<br>Romania               | -               | University Politehnica Bucharest<br>Faculty of Control & Computers<br>IMS'95, corp. ED Automatica<br>Spl. Independentei 313, sector 6<br>R-77206 Bucharest, Romania<br>FAX +40/1/3126 335<br>e-mail: ims95@ulise.cs.pub.ro |
| IFAC Workshop<br>Intelligent Components for Autonomous<br>and Semi-Autonomous Vehicles     | Oct.<br>25-26        | Toulouse<br>France                 | -               | M. Marie Thérèse Ippolito<br>Secretariat IFAC-ICSAV'95, LAAS-CNRS<br>7, Ave. du Colonel Roche<br>F-31077 Toulouse, France<br>FAX +33/61 553577<br>e-mail: icasav@laas.laas.fr                                              |
| IFAC Workshop<br>Safety and Reliability in Emerging<br>Control Technologies                | Nov.<br>1 - 3        | Daytona Beach, FL<br>USA           | 15 June<br>1995 | Dr. Janusz Zalewski, Dept. of Computer Science<br>Embry-Riddle Aeronautical Univ.<br>Daytona Beach, FL 32114-3900, USA<br>FAX +1/904/226 6678<br>e-mail: zalewski@db-erau.edu                                              |
| IFAC Workshop<br>Real Time Programming                                                     | Nov.<br>6-10         | Ft. Lauderdale, FL<br>USA          | 1 July<br>1995  | Dr. Phil Laplante<br>Dept. of Math and Computer Science<br>Fairleigh Dickinson University<br>285 Madison Avenue, Madison, NJ 07940, USA<br>FAX+1/201 593 8886<br>e-mail: laplante@fdu.edu                                  |
| IFIP/IFAC Working Conference<br>Models and Methodologies for<br>Enterprise Integration     | Nov.<br>8 - 11       | Heron Islands<br>QLD, Australia    | -               | Angela Laffey, Conference Secretary<br>Australian Computer Society<br>POB 135 Aspley (Brisbane)<br>Queensland 4034, Australia<br>FAX +61/7/263 7020<br>e-mail: e95@cit.gu.edu.au                                           |
| IFAC Workshop<br>Artificial Intelligence in Real-Time<br>Control                           | Nov. 29<br>Dec. 1    | Bled<br>Slovenia                   | -               | Dr. Jus Kocijan<br>Faculty of El. & Computer Engg.<br>Univ. of Ljubljana, Trzaska 25<br>SL-61000 Ljubljana, Slovenia<br>FAX +386/61/264 991<br>e-mail: Jus.Kocijan@fer.uni-lj.si                                           |
| IFAC Symposium<br>Control of Power Plants and Power<br>Systems                             | Dec.<br>6 - 8        | Cancun<br>Mexico                   | -               | Dr. Roberto Canales/SIPOWER'95<br>Instituto de Investigaciones Electricas<br>AP 475, Cuernavaca, Mor. 62000, Mexico<br>FAX +52/73/189 535<br>e-mail: Sifac@iievms1.iiecuer.unam.mx                                         |
| IFAC Workshop<br>Control Applications of<br>Optimization                                   | Dec.<br>19 - 21      | Haifa<br>Israel                    | -               | Prof. Yosef Shinar<br>Faculty of Aerospace Engineering<br>Technion, Technion City, Haifa 32000, Israel<br>FAX +972/4 231848<br>e-mail: aer4301@technion.technion.ac.il                                                     |
| Title                                                                                      | 1996                 | Place                              | Deadline        | Further Information                                                                                                                                                                                                        |
| IFAC Workshop (4th)<br>Artificial Intelligence in<br>Economics and Management              | January<br>8 - 10    | Tel-Aviv<br>Israel                 | -               | Prof. Phillip Ein-Dor<br>Faculty of Management<br>Tel-Aviv University, Tel-Aviv 69978, Israel<br>FAX +972/3/6409560<br>e-mail: eindor@taunim.bitnet                                                                        |
| IFAC WORLD CONGRESS                                                                        | JULY<br>1 - 5        | SAN FRANCISCO<br>California<br>USA | 30 June<br>1995 | IFAC '96<br>POB 111, Mabelton GA 30059<br>USA<br>Phone +1/708/491-3641<br>FAX +1/708/491-4455<br>e-mail: ifac96@nwu.edu                                                                                                    |



## FORTHCOMING EVENTS (ctd.)

| Title                                                                                                      | 1997              | Place                  | Deadline         | Further Information                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------|-------------------|------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IFAC Symposium (3rd)<br>Modelling and Control of<br>Biomedical Systems                                     | March<br>23 - 26  | Warwick<br>UK          | Sept.<br>1996    | Prof. K. Godfrey, Dept. of Engineering<br>University of Warwick<br>Coventry CV4 7AL, UK<br>FAX +44/1203/418922                                                                                                                                      |
| IFAC/IEEE Symposium<br>Computer-Aided Control Systems<br>Design - CACSD '97                                | April<br>28-30    | Ghent<br>Belgium       | 1 Oct.<br>1996   | Prof. Luc Boullart<br>University of Ghent, Campus Ardoyen<br>Technologiepark - Zwijnaarde, 9<br>B-9052 Zwijnaarde, Belgium<br>FAX +32/9/264 5839<br>e-mail: boullart@autoctrl.rug.ac.be                                                             |
| IMEKO/IFAC Congress<br>New Measurements - Challenges<br>and Visions                                        | June<br>2 - 6     | Tampere<br>Finland     | *                | Prof. O. Aumala, TTKK/MIT<br>POB 692, SF-33101 Tampere, Finland<br>FAX +358/31 316 2171                                                                                                                                                             |
| 1997 American Control Conference<br>(in cooperation with IFAC)                                             | June<br>4 - 6     | Albuquerque, NM<br>USA | 15 Sept.<br>1996 | Prof. A. Haddad<br>AACC Secretariat, Dept. of EECS<br>Northwestern University<br>2145 Sheridan Road<br>Evanston, IL 60208-3118, USA<br>FAX +1/708/491-4455<br>e-mail: ahaddad@chair.eecs.nwu.edu                                                    |
| IFAC Symposium (3rd)<br>Intelligent Components and<br>Instruments for Control<br>Applications - SICICA '97 | June<br>9 - 11    | Anancy<br>France       | 1 Sept.<br>1996  | Prof. Laurent Foulloy<br>LAMII/CESALP, BP 806<br>F-74016 Anancy, France<br>FAX +33/50 66 60 20<br>e-mail: foulloy@univ-savoie.fr                                                                                                                    |
| IFAC Symposium<br>Robust Control Design                                                                    | June<br>25-27     | Budapest<br>Hungary    | 30 Sept.<br>1996 | Ms. Csilla Banyasz<br>Computer and Automation Res. Inst.<br>POB 63, H-1518 Budapest, Hungary<br>FAX +36/1/667 503<br>e-mail: h10key@huella.bitnet                                                                                                   |
| 1997 European Control Conference<br>(in cooperation with IFAC)                                             | July<br>1 - 4     | Brussels<br>Belgium    | 1 Sept.<br>1996  | M. Gevers/G. Bastin<br>CESAME, Batiment Euler<br>B-1348 Louvain la Neuve, Belgium<br>FAX +32/10/472 180<br>e-mail: gevers@auto.ucl.ac.be                                                                                                            |
| IFAC/(IFORS) Symposium (11th)<br>System Identification - SYSID '97                                         | July<br>8 - 11    | Fukuoka<br>Japan       | 1 Sept.<br>1996  | Prof. N. Suda<br>Dept. of Systems Engineering<br>Osaka University<br>1-3 Machikaneyama-cho, Toyonaka 560<br>Japan<br>FAX +81/6/857 7664                                                                                                             |
| IFAC Symposium (4th)<br>Advances in Control Education<br>ACE 97                                            | July<br>14-16     | Istanbul<br>Turkey     | 15 Oct.<br>1996  | Prof. A. Talha Dinibütin<br>Istanbul Technical University<br>Mech. Engg. Faculty<br>Gümüşsuyu 80191, Istanbul<br>Turkey<br>FAX +90/212-245 0795<br>e-mail: mkd nib@tritu.bitnet                                                                     |
| 1997 Asian Control Conference<br>(in cooperation with IFAC)                                                | July<br>22-25     | Seoul<br>Korea, Rep.   | 1 Sept.<br>1996  | Prof. Dong-il Cho<br>1997 ASCC Secretariat<br>Automation and Systems Res. Institute<br>Seoul National University, Bldg. 133<br>Kwanak-ku, Shinrim-dong, San 56-1<br>Seoul 151-742, Korea, Rep.<br>FAX +82/2/889-4239<br>e-mail: ascc@asri.snu.ac.kr |
| IFAC/(CIGRE) Symposium<br>Control of Power Plants and Power<br>Systems                                     | August<br>18 - 21 | Beijing<br>China, P.R. | 31 May<br>1996   | Chinese Association of Automation<br>POB 2728, Beijing 100080, China<br>FAX +86/1/25 45 229                                                                                                                                                         |
| IFAC Symposium<br>Fault Detection, Supervision and<br>Safety for Technical Processes -<br>SAFEPROCESS '97  | August<br>25 - 28 | Hull<br>UK             | 30 Sept.<br>1996 | Prof. Ron Patton<br>Dept. of Electronic Engg.<br>Hull University<br>Hull HU6 7RX, UK<br>FAX +44/482/466664<br>e-mail: r.j.patton@e-eng.hull.ac.uk                                                                                                   |

\* deadline not yet known

- deadline past



## Papers

- Output Feedback Variable Structure Control Design (R. El-Khazali, R. Decarlo)  
Comparison of Linear, Nonlinear and Neural-network-based Adaptive Controllers for a Class of Fed-batch Fermentation Process (J.D. Boskovic, K.S. Narendra)  
Nonlinear Controller for an Inverted Pendulum Having Restricted Travel (Q.F. Wie, W.P. Dayawansa, W.S. Levine)  
Nonlinear Control of a Swinging Pendulum (C.C. Chung, J. Hauser)  
Feasibility and Stability Results for Constrained Stable Generalized Predictive Control (J.A. Rossiter, B. Kouvaritakis, J.R. Gossner)  
A Formula for Computation of the Real Stability Radius (Li Qiu, B. Bernhardsson, A. Rantzer, E.J. Davison, P.M. Young, J.C. Doyle)

## Brief Papers

- Quantitative Robust Performance Design with Minimal Cost of Feedback (Chih-Yuan Chen, Ming-Hwei Perng)  
Geometric Minimization under External Equivalence for Implicit Descriptions (M.E. Bonilla, M. Malabre)  
Fast Subspace-based System Identification: An Instrumental Variable Approach (Young Man Cho, T. Kailath)  
Pole-Zero Representation of Descriptor Systems (P. Misra, P. van Doren, V. Syrmos)  
On the Use of an SPSA-based Model-free Controller in Quality Improvement (F. Rezaayat)

## Technical Communiques

- Memoryless  $H_{\infty}$  Controller Design for Linear Systems with Delayed State and Control (Han Ho Choi, Myung Jin Chung)  
Comments on 'On the Stability of Discrete-time Linear Interval Systems' (T. Mori, H. Kokame)

## Book Reviews

- Computations Optimal Control, by R. Bulirsch and D. Kraft (J. Fidler)  
Solving Control Engineering Problems with MATLAB, by K. Ogata (P. Nedoma)

## Papers

- Gap Metric Problem for MIMO Delay Systems: Parametrization of All Suboptimal Controllers (O. Toker, H. Özbay)  
Global Tracking Controllers for Flexible-joint Manipulators: A Comparative Study (B. Brogliato, R. Ortega, R. Lozano)  
Consistent Parameter Bounding Identification for Linearly Parametrized Model Sets (R.G. Hakvoort, P.M.J. van den Hof)  
Stability of Polymerization Reactors Using I/O Linearization and a High-gain Observer (F. Viel, E. Busvelle, J.P. Gauthier)

## Brief Papers

- Parallel Algorithms for Optimal Control of Weakly Coupled and Singularly Perturbed Jump Linear Systems (I. Borno, Z. Gajic)  
Position Tracking Control of an Induction Motor via Partial State Feedback (J. Hu, D.M. Dawson, Y. Qian)  
Automatic Tuning of Decentralized PID Controllers for TITO Processes (Z.J. Palmor, Y. Halevi, N. Krasney)  
Structural Properties of Large-scale Systems Possessing Similar Structures (Guang-Hong Yang, S-Ying Zhang)  
A Bias-correction Method of Indirect Identification of Closed-loop Systems (W.X. Zheng, C.B. Feng)  
Multiple-criterion Control: A Convex Programming Approach (J.R.H. Carvalho, P.A.V. Ferreira)  
Variable Structure Control of Time-delay Systems with a Simulation Study on Stabilizing Combustion in Liquid Propellant Rocket Motors (Feng Zheng, Mian Cheng, Wei-Bing Gao)  
Fault Detection and Isolation by a Continuous Parity Space Method (A. Medvedev)  
A Unified Loop Transfer Recovery Approach to Robust Control Using  $H_{\infty}$ -Optimization Methods (L. Turan, D. Lewis Mingori)  
Nonlinear Adaptive Control of Feedback Passive Systems (M.M. Seron, D.J. Hill, A.L. Fradkov)

## Technical Communiques

- A Popov Criterion for Uncertain Linear Multivariable Systems (D.S. Bernstein, W.M. Haddad, A.G. Sparks)

## Book Reviews

- Digital Simulation of Dynamic Systems: A Control Theory Approach, by T.T. Hartely, G.O. Beale, S. Chicatelli (J. Böhm)

## No-Show Authors An Update

In our Newsletter issue No. 6/1994 (December 1994) we published a message from the President dealing with problems organizers have with no-show authors. The article has been cause of numerous comments and letters to the editor which were published in the AACC Newsletter.

Below find a summary of the comments and responses that have been received and the reaction to them by Professor Stephen Kahne.

The original article set out from the following premise: No-show authors are unethical and their unacceptable behaviour should be stopped. There was a number of thoughtful suggestions to improve on this basic proposal. It was suggested that explicit correspondence with the offender be initiated before any 'blackball list' or other drastic action is taken. The assertion was that what may appear to be a no-show situation may in fact have been something else.

One writer described his attempts to act responsibly when he found himself in the conference city after a long trip but having fallen seriously ill. He tried from his sickbed to call the organizers at the conference site but in his state of health in a foreign city he was unable to inform the organizers of his problem. Surely he should not be classified as a no-show.

Another writer described his attempts to contact the organizers about one week before the conference in

a distant land. Email attempts failed even though email addresses were published by the organizers. In this case it was the organizers who failed to follow through with useable communications means.

Still another writer explained that he is physically disabled and unable to get to conferences even though, with substantial local help, he can continue to contribute to the field. He thought that conference papers submitted but not presented represented one means of getting his work exposed. This is a particularly interesting case and one which deserves attention. According to Professor Kahne, special arrangements should indeed be made for such individuals. These arrangements could consist of having others present his work at the conference, or, in deference to the person's complicated situation, he should request special treatment by the organizers and ask that his paper be included in the Postprint volume with a note that the paper would not be presented because of special circumstances. Clearly, this is not the source of most of the occurring no-show problems.

One author complained that he was forced into a no-show situation because the conference organizers insisted that the actual authors must make the presentation. This is a harsh rule but one which, if stated at the outset of the paper solicitation process, is certainly ethical. No-show responses are still not appropriate in such cases. But the burden is on the organizers to state the rules up front. Of course there was also a number of commentators who proposed solutions such as up-front deposits at the time of submission. The President of IFAC, after having given this much thought states that in his opinion this would be unfair to authors from certain countries and organizations in which such practice is either illegal or otherwise prohibited. It would be unfair to do this for all authors just to ferret out the few potential offenders.

Finally, the President urges caution when contemplating black lists or other measures. The situation must be understood completely in all cases. The rules for the meeting must be stated explicitly in the Call for Papers and other announcements and organizers must insist on feedback from apparent offenders before taking draconian measures. To the authors, the President states that ethical standards are of supreme importance in any professional field, not the least in automatic control.

In conclusion, the President states: 'Our professional integrity is the most important attribute we have and the potential impact of unethical behaviour may destroy a career'.

## IFAC Goes Electronic

In IFAC, discussions are under way to extend electronic services. Currently already, most of the information provided in this still paper-based Newsletter is available on our Information Server in Spain which is accessible with the following user commands:

```
gopher gopher.eunet.es  
or, if you are using mosaic  
mosaic gopher://gopher.eunet.es
```

In the not too distant future it is planned to alternatively offer the Newsletter in electronic form, where it can then be obtained by the user directly from a server, or, if no other possibility exists, to continue with the paper-based version.

It would be assured, however, that all services to IFAC Affiliates would remain untouched by going electronic.

We should be pleased to have your input, suggestions and comments on these plans.