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Newsletter

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Editor's Note

With the IFAC World Congress just being over, this issue of the IFAC Newsletter will present part of the information on the 18th IFAC World Congress in Milan. More details on the Congress as such, the preceding Workshops and Tutorials, the Awards and the Awardees, the IFAC General Assembly and the new IFAC leading team will be presented in future issues of the IFAC Newsletter.

This issue is mainly dedicated to the Speech, given by Ian Craig, the new IFAC President, on the occasion of the Closing Ceremony of the IFAC World Congress in Milan. It also provides some factual information on the Congress as such and calls the persons responsible for the success of such a venture before the curtains.

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18th IFAC World Congress Milan, Italy, August 29 – September 3, 2011

Speech by the IFAC President
Ian Craig
given at the Closing Ceremony on September 3, 2011



It is a great honour and privilege for me to address this assembly as the 20th President of IFAC. I would like to take this opportunity to sincerely thank the past and current IFAC officers and officials for their tremendous dedication to our Federation. IFAC's greatest strength is in its people, from the permanent Secretariat in Laxenburg to all the volunteers who devote so much of their time, often for decades, to make IFAC function as well as it does. It is indeed a privilege for me to be part of the IFAC family.

Our Federation is in good health. From our Technical Board and committees that rely on the highly competent efforts of about 2000 volunteers; to our Executive Board and committees that administer our award programs, finances, publications, and Secretariat. Our Federation's good health is in no small measure due to the outstanding leadership that Alberto Isidori exhibited during the past triennium. Alberto has applied his considerable talents to the advancement of IFAC over many years and for this we owe him our deepest gratitude. His term as President will be remembered favourably for many reasons, including the introduction of the new publication scheme for Proceedings, IFAC PapersOnLine, from a stage of infancy to a stage of maturity; and also for enhancing the

programs directed at the recognition of excellence in our profession – these efforts include the establishment of a new major publication award. At the closing ceremony of the 2008 Seoul Congress, the then newly elected IFAC President Alberto Isidori stated that “An impeccable and memorable event will take place in 2011”. Professors Isidori and Bittanti, and the whole Italian team, have indeed made this statement come true - I ask you to join me in thanking our Italian friends for an impeccable and memorable Milano IFAC Congress.

My duties will be to ensure that IFAC builds on the strong foundation laid by my predecessors to deliver an even better service to its stakeholders – the National Member Organizations of IFAC, and the automatic control community at large. Our duties as IFAC officers and officials are summarized in Section 1 of our Constitution that states, “The purpose of the Federation is to promote the Science and Technology of Control in the broadest sense in all systems whether, for example, engineering, physical, biological, social or economic, in both theory and application. IFAC is also concerned with the impact of control technology on society.”

During my term of office I intend to initiate a review of the activities of IFAC, the aim of which will be to ensure that what we do is optimally aligned with the current and anticipated future requirements of our stakeholders. We live in a world that is very different from what the founders of our Federation experienced in 1956, and our Federation has done an admirable job of staying relevant. Recent initiatives include IFAC's extensive web presence, the establishment of the IFAC Foundation, and of course IFAC-PapersOnLine. The question that we have to ask ourselves now is whether our Federation is optimally placed to face the demographic, economic, environmental, technological and other imperatives of the 21st century.

I want to challenge our Federation to look beyond the status quo to how we are, and can positively impact the challenges facing human kind. We are tasked to promote the science and technology of

automatic control – what higher purpose are we serving by doing so? I believe that automatic control is playing, and can in the future play a significant role in addressing some of the imperatives of the 21st century. We should clearly articulate what that role is and how it can best be achieved.

Such a review of IFAC activities should be guided by principles that we consider to be non-negotiable. Allow me to highlight those that I consider to be important namely excellence, relevance, sustainability and diversity.

Excellence is of overriding concern in everything that we do – the technical excellence of our events and publications, and excellence in terms of the efficiency and effectiveness of our administrative systems and processes.

The second principle is relevance. What we do must be relevant to our stakeholders. Our meetings should address topics that are relevant to our community, and our publications should produce articles that our community finds useful and want to cite. We should also be forward-looking and anticipate areas of future relevance.

Sustainability is determined in part by the financial health of our Federation, and the smooth functioning of the Secretariat without which we cannot operate. Both our finances and Secretariat are extremely well managed and we have to ensure that this continues to be so in the years to come.

Our Federation was established in the 1950s when the world was highly polarized. Our founders nevertheless managed to form a truly international organization in which no one country plays a dominant role, irrespective of size. Diversity in this sense is an extremely valuable part of the IFAC brand and should be treasured.

This Milano Congress will long be remembered by the South African delegation for its historical significance. Not only is it the first time that the IFAC Presidency passes on to an African country, it is also the 50th anniversary of the South African IFAC NMO which was formed on the 29th of August 1961!

The 2014 IFAC World Congress will be held in Cape Town, South Africa. South Africa's process of bidding for the IFAC World Congress started in 1997 and we were finally awarded the bid to host the 2014 Congress in 2007. The bidding process was a team effort and I would like to express my sincere appreciation to our team consisting of Ed Boje, Fernando Camisani, Simphiwe Duma, Les Lange, Tshilidzi Marwala, Richard Roberts, and Xiaohua Xia.

The 2014 Cape Town Congress comes to the African continent at an opportune time. As reported by the The Economist, over the ten years to 2010, six of the world's ten fastest-growing economies were in sub-Saharan Africa. Indications are that over the next 5 years the growth rate for this region will continue to be amongst the highest in the world. It is my wish that an African IFAC World Congress will help speed our continent on its way from developing to developed status.

The 2014 Congress team, with Fernando Camisani as General Chair, and Ed Boje and Xiaohua Xia as IPC co-chairs, are already hard at work. Knowing these gentlemen and the team working with them, I can assure you that the Cape Town Congress will be a highly rewarding, memorable and enjoyable event.

The IFAC World Congress in Milan Facts and Figures

An IFAC World Congress, is always the ideal opportunity to present the cutting edge developments of automatic control in a setting, in which a large part of the IFAC community is present. This was again the case in Milan, where the Congress brought together control engineers from 73 countries. It is maybe worthwhile having a look at what such a Congress needs to become as successful as IFAC Congresses are – with this 18th IFAC World Congress being no exception:

Some statistics on the 18th IFAC World Congress

Papers and their authors:

Submitted Papers:	3629
Accepted Papers	2478 (2030 oral, 448 interactive)
Acceptance Rate	68 %
Total number of authors of accepted papers:	5413
Contributing countries	73
Sessions:	
Oral Sessions (contributed)	244
Oral Sessions (invited)	97
Interactive Sessions	9
Plenary and Parallel Sessions	9
Panel Sessions	3
Historical Panel Plenary Sessions	1

The distribution of submitted papers according to Technical Committee showed the following distribution:

CC 1 Design Methods	28 %
CC 2 Systems and Signals	22 %
CC 4 Mechatronics, Robotics and Components	13 %
CC 6 Industrial Systems	12 %
CC 7 Transportation and Vehicle Systems	10 %
CC 8 Bio- and Ecological Systems	6 %
CC 5 Manufacturing Systems	5 %
CC 3 Computers and Communication	3 %
CC 9 Social Systems	3 %

Distribution of authors of accepted papers per country (altogether 73 countries), listing only those with more than 100 papers at the Congress.

France	653
USA	412
Italy	401
China, P.R.	331
Germany	311
Japan	290
United Kingdom	204
Spain	190
Australia	151
Sweden	146
Russia	144
Brazil	142
Canada	136
Netherlands	119

The persons behind the curtains of a successful Congress

A Congress of this size needs a lot of persons to make it a success. This was no different at the 18th IFAC World Congress in Milan. 22 persons saw to it that all arrangements were well in place and supervised. They were the following:

The National Organizing Committee

Edoardo Mosca (IT), Chair, Claudio Bonivento (IT), Co-chair, Thomas Parisini (IT), Electronic submission site supervisor, Claudio Melchiorri (IT), Exhibitions, GianAntonio Maggani (IT), Industry, Sergio Matteo Savaresi (IT), Industry, Bruno Siciliano (IT), Industry, Alessandro Astolfi (IT, UK), Invited sessions supervisor, Paolo Bolzern (IT), Local arran-

ctd. from p. 2

gements, Marco Campi (IT), Pre-congress tutorials & workshops supervisor, Sandro Zampieri (IT), Publications chair, Angelo Cenedese (IT), Publications co-chair, Fabio Previdi (IT), Publicity chair, Simone Garatti (IT), Publicity, Maria Elena Valcher (IT), Registrations chair, Francesco Casella (IT), Registrations, Pradeep Misra (US), Registrations, Marilena Vendittelli (IT), Registrations, Paolo Rocco (IT), Volunteers team supervisor, Vladimir Kucera (CZ), YAS Committee chair, Luigi Piroddi (IT), YAS Committee, Maria Prandini (IT), YAS Committee

The International Program Committee

It consisted of the 39 Chairs of the IFAC Technical Committees who, in turn, distributed the submitted papers to reviewers from among the Committee members. Altogether the following number of persons was involved in reviewing and selecting papers for the Congress

CONGRESS EDITORS

>> the IFAC CC Chairpersons

CONGRESS ASSOCIATE EDITORS

Congress technical editors (39)

>> the IFAC TC Chairpersons

Congress technical adjoint editors (49)

>> nominated by Chairpersons IFAC CONGRESS EDITORIAL BOARD 97 EXPERTS

These persons usually stay behind the curtains, but they are indispensable for every event. Without them, there would be no Congress. So, for a change, we shall ask them to step out from behind the curtain so that our readers may know who is behind all that work:

Congress technical editors

Steen Andreassen (DK), Kazuya Asano (JP), Alessandro Astolfi (IT, UK), Antonio Barros Ruano (PT), Mietek A. Brdys (UK), Andrea Castelletti (IT), José A. Ceroni (CL), Charalambos D. Charalambous (CY), Michel Devy (FR), Francis Joseph Doyle III (US), Luc Dugard (FR), Ibrahim Eksin (TR), Istvan Erlich (DE), Alexander L. Fradkov (RU), Alessandro Giua (IT), Hideki Hashimoto (JP), Håkan Hjalmarsson (SE), Faryar Jabbari (US), Karl Henrik Johansson (SE), Peter Kopacek (AT), Frederique Mayer (FR), Marco Münchhof (DE), Noboru Noguchi (JP), Hervé Panetto (FR), Antonio M. Pascoal (PT), Bozenna Pasik-Duncan (US), Carlos Eduardo Pereira (BR), Jaime A. Moreno Perez (MX), Gianfranco Rizzo (IT), Klaus Schilling (DE), Houria Siguerdidjane (FR), Todor Stoilov (BG), Jakob Stoustrup (DK), Alexander Tarasyev (RU), Masayoshi

Tomizuka (US), Fei-Yue Wang (CN), Marek Wegrzyn (PL), Xiaohua Xia (ZA), Wan Chul Yoon (KR)

Congress technical adjoint editors

Er-Wei Bai (US), Michèle Basseville (FR), Luis Bergh (CL), Martin Buss (DE), Marco Campi (IT), Che Wai Chan (HK), Graziano Chesi (HK), Giuseppe Conte (IT), Fabrizio Dabbene (IT), André Desbiens (CA), Subhrakanti Dey (AU), Michel Devy (FR), Alexandre Dolgui (FR), Ioan Dumitrache (RO), Denis Efimov (RU), Magnus Egerstedt (US), Lars Eriksson (SE), Yili Fu (CN), Thierry Marie Guerra (FR), Christoforos Hadjicostis (CY), Juergen Hahn (US), Didier Henrion (FR), Joao Hespanha (US), Klaus Janschek (DE), Zhong-Ping Jiang (US), Wei Kang (US), Manabu Kano (JP), Nicos Karcaniyas (UK), Haruhisa Kawasaki (JP), Michel Kinnaert (BE), Péter Korondi (HU), Beom Hee Lee (KR), Lorenzo Marconi (IT), Laura Menini (IT), Reza Moheimani (AU), Silviu Niculescu (FR), Hitay Ozbay (TR), Hwei Peng (US), Stefan Pickl (DE), Alexander Y. Pogromsky (NL), Claudio Scali (IT), Riccardo Scattolini (IT), Zhen-dong Sun (CN), Michel Verhaegen (NL), Harald Weber (DE), Takashi Yamaguchi (JP), MingQing Xiao (US), Fan-Lun Xiong (CN), Sandro Zampieri (IT), Xiao-Ping Zhang (CN), Detlef Zuehlke (DE)



The organizing team of the IFAC World Congress in Milan

IFAC will have 52 National Member Organizations

At the General Assembly Meeting of IFAC in Milan, the members of the General Assembly voted unanimously to accept the **Automatic Control and Dynamic Optimization Society (ACODS) in India** as the 52nd National Member Organization of IFAC.

With the Indian organization among its members, IFAC will again gain in strength.

This will be the case on the one hand, by adding this huge reservoir of control engineering know-how to its Technical Committees and to its administrative bodies, by being able to organize IFAC events more easily in India, and, last but not least, by being allowed by the IFAC Constitution to add a further Council member in the next triennium.

Yet, there are still many other countries

IFAC would be happy to welcome among its members. Also the activities of the IFAC Foundation (described in detail in issue 4/2011 of the IFAC Newsletter) may contribute to attracting more countries to join.

IFAC will be pleased to welcome them into the family!

The Steve Kahne Collection at the Istituto Lombardo, Milan

Among IFAC's biggest treasures is the large number of proceedings of IFAC events. Starting with day one, such proceedings have not only been produced of every Congress, but organizers have the commitment to produce proceedings of all Symposia, of many Conferences and Workshops. Now that the time of paper-based publications is a thing of the past, and papers from IFAC events can be downloaded from IFAC PapersOnLine, the many printed pages of proceedings are a treasure, which must, sooner or later, be put in electronic format as well.

Meanwhile, the question is very often asked, where the „old“ proceedings volumes can be found. In this context, IFAC Advisor Steve Kahne, President of IFAC from 1993-1996, who has been active in the publications of IFAC event papers over a very long period, has decided to make his collection of Proceedings volumes available to the control engineering community.

After some searching, a more than suitable location to house the collection was found:

The Istituto Lombardo Accademia di Scienze e Lettere in Milan declared that it was

willing to give the collection a new home.

Thus, the books were collected from Steve Kahne's home in Arizona, USA and shipped to Milan, Italy, where they are now available for study at the renowned Istituto Lombardo, where Alessandro Volta was one of the founding members.

On the occasion of the IFAC World Congress in Milan, Steve Kahne, together with the IFAC President and other members of the IFAC community were invited to the Istituto Lombardo to see, where the Kahne collection has now found its new home.

The visitors from IFAC also had the opportunity to walk around the Istituto and look at the many treasures which are displayed there. Among them is a room, dedicated to Alessandro Volta, showing the Works and the Collection of letters of Alessandro Volta, copies of Volta's batteries, which were made immediately after the originals had been burned in 1899.

Thus, the Kahne collection of IFAC Proceedings in Milan and the complete collection of IFAC proceedings at the IFAC Secretariat



S. Kahne, Pedro Albertos

in Laxenburg, Austria, are the places where it is possible to find material from the area of control engineering going back to the founding time of the Federation.

Automatic Control in Aerospace 18th IFAC Symposium September 6-11, 2010 Nara, Japan

The 18th IFAC Symposium on Automatic Control in Aerospace (ACA) was held in Nara, an attractive historical town of Kansai which was the first permanent capital of Japan. The Symposium venue was the New Public Hall located in the center of Nara National Park, which is very famous for its beauty.

It was a great pleasure for me to declare open the Symposium and to welcome the participants together with the honoured guests. The event has gathered 145 participants coming from 19 different countries. The technical program is composed of one track sessions and contains one half day parallel sessions, so each author had the opportunity to present his work to all the event attendees and could find an excellent way to promote his work. This has made discussions more interesting and very fruitful. The participants have appreciated the technical program as well as the social one and were very happy with the quality of the presentations, the technical visits and the friendly atmosphere.

The technical program of ACA 2010 consisted of 95 contributed papers, of which 33 were from industry. They all were selected from a total of 136 submissions, covering a broad range of topics including every aspect of dynamics, control and mission control of aeronautical and space-related systems: spacecrafts, missiles, unmanned aerial vehicles, aircrafts, helicopters, nano-aerospace vehicles. The performance and limitation of existing technique applications have been outlined together with the new developments, the progress made in technologies and the vision of the future considering the growth of air and space vehicles as well. According to the results of the reviewing process, the papers were distributed over eight-

regular oral sessions, six invited ones, which put interesting new applications into focus and one afternoon of poster session where food and drinks were served, thus allowing plenty of time to go into detail by discussing the posters.

Five distinguished experts were invited to deliver plenary talks. On Monday, September 6, the first fascinating plenary lecture was delivered by K. Yamanaka (Japan Aerospace Exploration Agency, JAXA) on HTV's new rendezvous and capture technology and chaired by K. Schilling. Prof. H. A. Fujii (Kanagawa Institute of Technology, Japan) and Mr. S. Elangovan (Defence Research and Development Organization, DRDO, India) presented very interesting plenary lectures on Control of Large Space Structures and Perspectives and Trends of Development of the India Aerospace Industry, which were chaired by S. Nakasuka and A. Nebylov, respectively. On Tuesday, September 7, the highly interesting and more theory-oriented plenary lecture on PDE Backstepping for Boundary Control of Flexible Structures and Fluids Flows was delivered by M. Krstic (University of California, San Diego), and chaired by H. Siguerdidjane (Supelec). Thursday started with the attractive plenary talk by Dr. Sang-Ryool Lee (Korea Aerospace Research Institute) on Overview of the Space Development Plan in Korea. The Session was chaired by J. Gyu Lee.

In addition to plenary lectures, first, a special talk on Hayabusa: Asteroid Sample and Return Mission and its GNC Challenges was presented by T. Hashimoto (Japan Aerospace Exploration Agency, JAXA) during an exceptional banquet arranged in the large garden of the New Public Hall. Second, K. Schilling presented some slides, showing the venue and the facilities that might be

used for the next ACA Symposium which will be held in Würzburg, Germany, in September 2013.

The Organizing Committee has also arranged student session prizes. The winners are as follows: first prize: T. Ohmura (Yokohama National University, Japan), for the paper entitled: Convergence and Optimality of Control Law for Periodic Maneuvering Satellites with CMG, second prize: E. D. B. Medagoda (University of Sydney, Australia) for the paper: Closed Loop Stability of Synthetic Waypoint Guidance Algorithm, and the third prize: T. Suehiro (University of Tokyo, Japan) for the paper: Satellite Design Methodology to Suppress Time-varying Residual Magnet Effects on Attitude for Nano-Satellites.

Besides, the annual meeting of the Technical Committee on Aerospace took place after the technical sessions on September 7 at the garden restaurant located on the Silk Road where ten points of the agenda were discussed. On the basis of the presentations, about 11 papers have been recommended by the session chairs for potential publication in the IFAC Journals: Control Engineering Practice and Automatica and the Affiliated Journals and Space Technology Journal.

To conclude, I would like to warmly thank the authors, the reviewers, the participants, the session chairs and co-chairs, the event sponsors and co-sponsors for their efforts and finally, my special thanks go to S. Nakasuka and Y. Ochi and the local organizing team.

Houria Siguerdidjane
IPC Chair, Chair of IFAC Technical Committee on Aerospace, Houria.Siguerdidjane@supelec.fr



FORTHCOMING EVENTS

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Title	2012	Place	Further Information
IFAC Workshop Embedded Guidance, Navigation and Control in Aerospace	February 13 – 15	Bangalore India	http://www.ifac-egnca.org/ e-mail: EGNCA2012@aero.iisc.ernet.in
7th Conference on Mathematical Modelling MATHMOD 2012	February 15 – 17	Vienna Austria	http://www.mathmod.at/
6th Intl. Conference Interoperability for Enterprise Systems and Applications – I-ESA'12	March 22 – 23	Valencia Spain	http://www.aidima.es/iesa2012/ e-mail: info@i-esa.org
IFAC Conference Advances in PID Control	March 28 – 30	Brescia Italy	http://pid12.ing.unibs.it e-mail: pid12@ing.unibs.it
IFAC Conference Embedded Systems, Computational Intelligence and Telematics in Control – CESCIT	April 03 – 05	Wuerzburg Germany	http://www7.informatik.uni-wuerzburg.de/cescit e-mail: not yet available
IFAC Workshop Navigation, Guidance and Control of Underwater Vehicles (NGCUV'2012)	April 10 – 12	Porto Portugal	http://paginas.fe.up.pt/~ngcuv2012/ e-mail: ngcuv2012@fe.up.pt
IFAC Symposium Information Control Problems in Manufacturing – INCOM 2012	May 23 – 25	Bucharest Romania	http://www.incom12.ro e-mail: incom12@cimr.pub.ro
IFAC Conference Programmable Devices and Embedded Systems – PdeS 2012	May 23 – 26	Brno Czech Rep.	http://www.pdes2012.feec.vutbr.cz/ e-mail: pdes2012@feec.vutbr.cz
IFAC Workshop Automatic Control in Offshore Oil and Gas Production	May 31 – June 1	Trondheim Norway	http://www.ifac-oilfield.no/
IFAC Conference Analysis and Design of Hybrid Systems – ADHS 2012	June 06 – 08	Eindhoven Netherlands	http://adhs12.org/ e-mail: info@adhs12.org
IFAC Conference International Stability and Systems Engineering: - SWIIS 2012	June 11– 13	Waterford Ireland	http:// not yet available e-mail: not yet available
IFAC Workshop Dynamics and Control in Agriculture and Food Processing – DYCAF	June 13 – 16	Plovdiv Bulgaria	http://dycaf-2012.tu-plovdiv.bg e-mail: altaneva@tu-plovdiv.bg
IFAC Symposium Advances in Control Education - ACE 2012	June 19 – 21	Nizhny Novgorod Russia	http://ace2012.ru/ e-mail: ifac.ace2012@gmail.com
IFAC Symposium Robust Control Design – ROCOND	June 20 – 22	Aalborg Denmark	http://www.rocond12.org/
IFAC Conference Analysis and Control of Chaotic Systems – CHAOS 12	June 20 – 22	Cancun Mexico	http://www.ipicyt.edu.mx/Chaos12/chaos12.html e-mail: not yet available
IFAC S Workshop Time Delay Systems (IFAC-TDS-2012)	June 22 – 24	Boston MA, USA	http://www.coe.neu.edu/IFACTDS2012/main.htm e-mail: not yet available
American Control Conference – in co-operation with IFAC –	June 27 – 29	Montreal Canada	http://a2c2.org/conferences/acc2012/index.php
IFAC Symposium Advanced Control of Chemical Processes – ADCHEM-2012	July 10 – 13	Singapore Singapore	http://www.adchem2012.org/ e-mail: ivan@adchem2012.org
IFAC Symposium System Identification – SYSID 2012	July 11 – 13	Brussels Belgium	http://www.sysid2012.org/ e-mail: secretariat@sysid2012.org

FORTHCOMING EVENTS ctd.

17th Intl. Conference (cosponsored by IFAC) Methods and Models in Automation and Robotics – MMAR 2012	August 27 – 30	Miedzzydroje Poland	http:// not yet available e-mail: not yet available
IFAC Symposium Fault Detection, Supervision and Safety for Technical Processes – SAFEPROCESS	August 29 – 31	Mexico City Mexico	http://safeprocess2012.unam.mx/ e-mail: SafeProcess12@iingen.unam.mx
IFAC Workshop Biological and Medical Systems BMS 2012	August 29 – 31	Budapest Hungary	http://bms.iit.bme.hu/ e-mail: not yet available
IFAC Symposium Power Plants and Power Systems Control	September 02 – 05	Toulouse France	http://www.pppswe2012.org e-mail: not yet available
IFAC Symposium Robot Control – SYROCO 2012	September 05 – 09	Dubrovnik Croatia	http://www.syroco2012.org/ e-mail: syroco2012@syroco2012.org
KSAE/IFAC Symposium Advanced Vehicle Control - AVEC 12	September 09 – 12	Seoul Korea	http://avec12.ksae.org/ e-mail: avec12@ksae.org
IFAC Workshop Automation in Mining, Mineral and Metal Industries	September 10 – 12	Gifu Japan	http:// not yet available e-mail: not yet available
IFAC Symposium Control in Transportation Systems – CTS'12	September 12 – 14	Sofia Bulgaria	http://hs27.iccs.bas.bg/
IFAC Symposium Manoeuvring and Control of Marine Craft – MCMC'2012	September 19 – 21	Arenzano Italy	http://www.mcmc2012.issia.cnr.it
IFAC Workshop Discrete Event Systems – WODES	October 01 – 03	Guadalajara Mexico	http://www.gdl.cinvestav.mx/wodes-12 e-mail: wodes2012@gdl.cinvestav.mx
IFAC Workshop Discrete Event System Design – DeSD	October 01 – 04	Campos do Jordao Brazil	http://www.desdes.uz.zgora.pl e-mail: DESDes@iie.uz.zgora.pl
IFAC Workshop on Engine and Powertrain Control Simulation and Modelling	October 23 – 25	Paris France	http://www.ecosm12.org
Title	2013	Place	Further Information
IFAC/(IFIP/IFROS/IEA) Symposium Analysis, Design, and Evaluation of Human-Machine Systems – HMS 2013	August 11 – 15	Las Vegas USA	http:// not yet available e-mail: not yet available
IFAC Symposium Advances in Control Education – ACE 2013	August 28 – 30	Sheffield UK	http://ace2013.group.shef.ac.uk/ e-mail: not yet available
IFAC Symposium Automatic Control in Aerospace – ACA 2013	September 02 – 06	Wuerzburg Germany	http://www7.informatik.uni-wuerzburg.de/aca2013 e-mail: aca2013@informatik.uni-wuerzburg.de
IFAC Symposium Nonlinear Control Systems - NOLCOS	September 04 – 06	Toulouse France	http:// not yet available e-mail: not yet available
IFAC Conference Management and Control of Production and Logistics – MCPL 2013	September 12 – 14	Fortaleza Brazil	http:// not yet available e-mail: not yet availalbe
Title	2014	Place	Further Information
19th IFAC World Congress	August 25 – 29	Cape Town South Africa	http://www.ifac2014.org/ email: not yet available