



International Federation of Automatic Control

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# Newsletter

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Das Sekretariat der IFAC befindet sich seit 1978 aufgrund eines Übereinkommens mit der Österreichischen Bundesregierung und mit der Österreichischen Akademie der Wissenschaften in Laxenburg und wird derzeit aus Mitteln des Bundesministeriums für Verkehr, Innovation und Technologie „BMVIT“ gefördert.



Bundesministerium  
für Verkehr,  
Innovation und Technologie

## Preview of the 19th IFAC World Congress 25 – 29 August 2014, Cape Town, South Africa

Cape Town was formally established in 1652 as a supply depot for ships plying the trade routes from Europe to the Far East in search of silks and spices. The city today is still a major port, with a significant trade in fish and agricultural products, and the home of the Parliament of the Republic of South Africa. It has grown tremendously in recent years and now has a population of around 3,75 million, the second-largest city in the country. The city is dominated by the landmark of Table Mountain, so named because of its flat top, and this feature is shown in stylised form on the IFAC 2014 logo.

This will be the first IFAC World Congress to be held in Africa, and an outline of the continent forms the backdrop to the logo. Development of the waterfront complex around the former docks has transformed the city into one of the world's premier tourist destinations; it retains its trade links to both East and West as well as North to Europe, and even South to Antarctica, by sea and, increasingly, by air.

The Cape Town International Convention Centre (CTICC) was opened in 2003 and can accommodate conferences of 12,000 delegates and more. We have booked out the whole of the centre to accommodate the many parallel streams representing the diverse interests of IFAC members. Part of the space will be used for a Process Exhibition, with stands showing the talents and products of many local and international vendors.

The South African IFAC NMO is the South African Council for Automation and Control ([www.sacac.org.za](http://www.sacac.org.za)), which has been active since 1961. Our 2007 bid to host the 2014 IFAC World Congress was supported by the South African Government, and we are pleased to confirm that we have now received substantial sponsorship from the Technology Innovation Agency, an initiative of the



Department of Science and Technology, that aims to stimulate and develop technological innovation to improve economic growth and the quality of life of all South Africans.

The National Organising Committee has been very busy for many months, under the able leadership of Dr. Fernando Camisani, and most of the ingredients for a successful IFAC World Congress are now in place. Accommodation has been reserved in many hotels around the CTICC, negotiations are taking place for industrial and cultural visits and excursions, and the provision of catering services is being finalised.

The International Programme Committee has been convened under the joint chairmanship of Professors Xiaohua Xia and Ed Boje, from the universities of Pretoria and Cape Town respectively, and they have issued the First Call for Papers. Registration is now open and you are invited to join us for a memorable IFAC World Congress in Cape Town in 2014.

More information can be found on the IFAC 2014 website, which can be found at:

[www.ifac2014.org](http://www.ifac2014.org).

Written by Richard Roberts  
South African Council for Automation and Control (SACAC)

Submitted by Ian Craig, President of IFAC

## Treasurer Transition: From Lino Guzzella to John Lygeros

IFAC has a new treasurer. Longtime IFAC treasurer (2002-2013) Lino Guzzella resigned from his position as treasurer due to his increased responsibilities in his role of rector at ETHZ (Zurich, Switzerland.) He was officially replaced by the IFAC Council at their 2013 IFAC Council meeting in Zurich by John Lygeros, also of ETHZ.

Article 27a of the IFAC Constitution states that "Should any member of the Council other than the President or President-Elect, due to resignation, death or other cause, be prevented from fulfilling his/her duties, the Council may appoint someone to serve in his/her place until the next election."

John Lygeros and his assistant Alain Bolle have been working with Lino Guzzella and his assistant, Claudia Wittwer, to ensure a smooth transition of the handling of IFAC's finances.

Both Guzzella and Wittwer were honored for their years of hard work and dedication to keeping IFAC's finances in good standing. Ian Craig, IFAC President, presented Guzzella with a certificate at the Council meeting. A dinner was held in honor of Wittwer's years of service to IFAC and her subsequent retirement from ETHZ, at the restaurant Haus zum Rden in Zurich.

John Lygeros, the new treasurer of IFAC, grew up in Athens, Greece where he graduated from Athens College in 1987. He completed a B.Eng. degree in Electrical Engineering in 1990 and a M.Sc. degree in Systems Control in 1991, both at Imperial College of Science Technology and Medicine, London, U.K. In 1996 he obtained a Ph.D. degree from the Electrical Engineering and Computer Sciences Department, University of California, Berkeley, California, USA.

During the period 1996-2000 Lygeros held a series of research appointments at the National Automated Highway Systems Consortium, Berkeley, the Laboratory for Computer Science, M.I.T., and the Electrical Engineering and Computer Sciences Department at U.C. Berkeley. In parallel, he also worked as a part-time research engineer at SRI International, Menlo Park, California, and as a visiting professor at the Department Mathematics of the Universite de Bretagne Occidentale, Brest, France. Between 2000 and 2003 he was a University Lecturer at the Department of Engineering, University of Cambridge, U.K., and a Fellow of Churchill College. Between 2003 and 2006 he was an assistant professor at the Department of Electrical and Computer Engineering, University of Patras, Greece.

In July 2006 Lygeros joined the Automatic Control Laboratory of ETH Zurich, first as an



John Lygeros, Treasurer of IFAC



IFAC President Ian Craig acknowledges Lino Guzzella's years of service as IFAC treasurer. Photo provided by IFAC Council member Tamer Basar, USA.

associate professor, and since January 2010 as a full professor of Computation and Control. Since January 2009 he is also serving as the head of the Automatic Control Laboratory. His research interests include modeling, analysis, and control of hierarchical, hybrid, and stochastic systems, with applications to biochemical networks, automated highway systems, air traffic management, power grids and camera networks. He is a Fellow of the IEEE, and a member of the IET and the Technical Chamber of Greece.

Biographical information submitted by John Lygeros, IFAC Treasurer

## 2011-2014 IFAC Fellows Selected

The IFAC Council has selected 32 fellows (including three women) for the 2011-2014 triennium. The Call for Nominations was published in the October 2012 issue of this newsletter, as well as on the IFAC website. Prof. Sebastian Engell of Germany chaired the Fellow Selection Committee for this triennium. The Fellows are now awarded for an entire triennium instead of yearly nominations as in the past.

The committee studied the nominations and submitted their list of recommended Fellows to the IFAC Council, who approved the list at their meeting in Zurich, Switzerland on 19 July 2013.

In future Newsletters you will have a chance to learn more about the backgrounds of the IFAC Fellows.

Below is the list of IFAC Fellows for 2011-2014

**BENVENISTE, Albert**  
**BOKOR, Jozsef**  
**BONVIN, Dominique**  
**CHEN, Tongwen**  
**De SOUZA, Carlos Emanuel**  
**DOYLE, John C.**  
**GHOSH, Bijor Kumar**  
**HUANG, Lin**  
**JIANG, Zhong-Ping**  
**KHARGONEKAR, Pramod P.**  
**LEONARD, Naomi E.**  
**MACIEJOWSKI, Jan**  
**MIDDLETON, Richard Hume**  
**MITTER, Sanjoy**  
**MORSE, A. Stephen**  
**PAO, Lucy**  
**PAPAGEORGIOU, Markos**  
**PASIK-DUNCAN, Bozenna**  
**PETERSEN, Ian R.**  
**PRALY, Laurent**  
**QIN, Sizhao Joe**  
**SABERI, Ali**  
**SKOGESTAD, Sigurd**  
**SONTAG, Eduardo**  
**SPONG, Mark**  
**SUN, Youxian**  
**TERWIESCH, Peter**  
**VERHAEGEN, Michel**  
**WILLEMS, Jan C.**  
**YAMAMOTO, Yutaka**  
**ZHOU, Kemin**  
**ZHOU, Mengchu**

The IFAC Fellow Award consists of a certificate and a pin, which will be presented in person to the Fellows who are able to travel to the President's Dinner in conjunction with the 19th IFAC World Congress in Cape Town, South Africa. Should a Fellow be unable to be in attendance the award will be presented to them at another suitable opportunity.



## FORTHCOMING EVENTS

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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	<a href="http://www.cs.wright.edu/ifac/">http://www.cs.wright.edu/ifac/</a> e-mail: not yet available
IFAC Symposium Mining, Mineral and Metal Processing (MMM 2013)	August 25 – 27	San Diego, California USA	<a href="http://www.flogen.org/MMM2013/">http://www.flogen.org/MMM2013/</a> e-mail: <a href="mailto:symposiums@flogen.org">symposiums@flogen.org</a>
IFAC Symposium Advances in Control Education ACE 2013	August 28 – 30	Sheffield UK	<a href="http://ace2013.group.shef.ac.uk/">http://ace2013.group.shef.ac.uk/</a> e-mail: <a href="mailto:ace2013@shef.ac.uk">ace2013@shef.ac.uk</a>
IFAC Conference Modelling and Control in Agriculture, - Horticulture and Post Harvest Industry (AGRICONTROL 2013)	August 28 – 30	Espoo Finland	<a href="http://agricontrol2013.automaatioseura.com/">http://agricontrol2013.automaatioseura.com/</a> e-mail: <a href="mailto:office@atu.fi">office@atu.fi</a>
IFAC Symposium Automatic Control in Aerospace ACA 2013	September 02 – 06	Wuerzburg Germany	<a href="http://www7.informatik.uni-wuerzburg.de/aca2013">http://www7.informatik.uni-wuerzburg.de/aca2013</a> e-mail: <a href="mailto:aca2013@informatik.uni-wuerzburg.de">aca2013@informatik.uni-wuerzburg.de</a>
IFAC Conference Intelligent Control and Automation Science ICONS 2013	September 02 – 04	Chengdu China	<a href="http://risit.org/icons2013">http://risit.org/icons2013</a> e-mail: <a href="mailto:sec.icons@gmail.com">sec.icons@gmail.com</a>
IFAC Symposium Nonlinear Control Systems - NOLCOS	September 04 – 06	Toulouse France	<a href="http://www.laas.fr/NOLCOS2013">http://www.laas.fr/NOLCOS2013</a> e-mail: <a href="mailto:nolcos2013@laas.fr">nolcos2013@laas.fr</a>
IFAC Workshop Dependable Control of Discrete Systems (DCDS 4th)	September 04 – 06	York United Kingdom	<a href="http://dcds13.net.dcs.hull.ac.uk/">http://dcds13.net.dcs.hull.ac.uk/</a> e-mail: not yet available
IFAC Symposium Advances in Automotive Control AAC 2013	September 04 – 07	Tokyo Japan	<a href="http://www.sice.or.jp/IFAC-AAC2013">http://www.sice.or.jp/IFAC-AAC2013</a> e-mail: <a href="mailto:ifac-aac2013@c-linkage.co.jp">ifac-aac2013@c-linkage.co.jp</a>
IFAC Workshop Enterprise Integration, Interoperability and Networking (co-sponsored)	September 11 – 12	Graz Austria	<a href="http://www.onthemove-conferences.org/index.php/ei2n2013">http://www.onthemove-conferences.org/index.php/ei2n2013</a>
IFAC (ACM) Conference Management and Control of Production and Logistics – MCPL 2013	September 12 – 14	Fortaleza Brazil	<a href="http://www.cti.gov.br/mcpl2013/">http://www.cti.gov.br/mcpl2013/</a> e-mail: <a href="mailto:mcpl2013@cti.gov.br">mcpl2013@cti.gov.br</a>
IFAC Workshop Advances in Control and Automation Theory for Transportation Applications (ACATTA)	September 16 – 17	Istanbul Turkey	<a href="http://www.acatta13.itu.edu.tr/">http://www.acatta13.itu.edu.tr/</a> e-mail: <a href="mailto:acatta13@itu.edu.tr">acatta13@itu.edu.tr</a>
IFAC Conference Control Applications in Marine Systems CAMS 9th 2013	September 18 – 20	Osaka Japan	<a href="http://cams2013.naoe.eng.osaka-u.ac.jp/">http://cams2013.naoe.eng.osaka-u.ac.jp/</a> e-mail: not yet available
IFAC Workshop Distributed Estimation and Control in Networked Systems (NecSys 4th)	September 25 – 26	Koblenz Germany	<a href="http://www.necsys2013.rub.de">http://www.necsys2013.rub.de</a> e-mail: <a href="mailto:necsys2013@atp.rub.de">necsys2013@atp.rub.de</a>

## FORTHCOMING EVENTS (ctd.)

IFAC Conference Programmable Devices and Embedded Systems PDeS 2013	September 25 – 27	Velké Karlovice Czech Republic	<a href="http://pdes-conference.eu">http://pdes-conference.eu</a> e-mail: <a href="mailto:noc@pdes-conference.eu">noc@pdes-conference.eu</a>
IFAC/IEEE CSS Workshop Control of Systems Modeled by Partial Differential Equations (CPDE)	September 25 – 27	Paris France	<a href="http://www.cpde2013.fr/">http://www.cpde2013.fr/</a> e-mail: <a href="mailto:contact@cpde2013.fr">contact@cpde2013.fr</a>
IFAC Symposium Telematics Application TA 3rd 2013	November 11 – 13	Seoul Republic of Korea	<a href="http://ta2013.yonsei.ac.kr/">http://ta2013.yonsei.ac.kr/</a> e-mail: not yet available
IFAC Workshop 2nd RED-UAS 2013 (Research, Education and Development of Unmanned Aerial Systems)	November 20 – 22	Compiègne France	<a href="https://www.hds.utc.fr/reduas2013/doku.php">https://www.hds.utc.fr/reduas2013/doku.php</a> e-mail: <a href="mailto:rlozano@hds.utc.fr">rlozano@hds.utc.fr</a>
ESF, SIAM IFAC Workshop Mathematical Control	December 03 – 06	Trieste Italy	<a href="http://mct.lsis.org">http://mct.lsis.org</a> e-mail: <a href="mailto:mct@lsis.org">mct@lsis.org</a>
IFAC Symposium Computer Applications in Biotechnology (CAB 2013)	December 16 – 18	Mumbai India	<a href="http://www.cab2013.org/">http://www.cab2013.org/</a> e-mail: <a href="mailto:cab2013@che.iitb.ac.in">cab2013@che.iitb.ac.in</a>
IFAC Symposium Dynamics and Control of Process Systems (DYCOPS 2013)	December 18 – 20	Mumbai India	<a href="http://www.dycops2013.org/">http://www.dycops2013.org/</a> e-mail: not yet available
<b>Title</b>	<b>2014</b>	<b>Place</b>	<b>Further Information</b>
IFAC Workshop Discrete Event Systems (WODES 2014)	May 14 – 16	Paris France	<a href="http://wodes2014.lurpa.ens-cachan.fr/">http://wodes2014.lurpa.ens-cachan.fr/</a> e-mail: <a href="mailto:jean-marc.faure@lurpa.ens-cachan.fr">jean-marc.faure@lurpa.ens-cachan.fr</a>
19th IFAC World Congress	August 25 – 29	Cape Town South Africa	<a href="http://www.ifac2014.org/">http://www.ifac2014.org/</a> email: <a href="mailto:info@ifac2014.org">info@ifac2014.org</a>
<b>Title</b>	<b>2015</b>	<b>Place</b>	<b>Further Information</b>
IFAC IEEE/IFIP/IFORS Symposium Information Control Problems in Manufacturing – INCOM 2015	May 11 – 13	Ottawa Canada	<a href="http://incom2015.org/">http://incom2015.org/</a> e-mail: not yet available
IFAC Workshop Automatic Control in Offshore Oil and Gas Production	May 27 – 29	Florianopolis Brazil	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available
IFAC Symposium Advanced Control of Chemical Processes (ADCHEM 2015)	June 07 – 10	Whistler Canada	<a href="http://www.adchem2015.ca/">http://www.adchem2015.ca/</a> e-mail: not yet available
IFAC Symposium Robust Control Design (ROCOND 2015)	July 08 – 11	Bratislava Slovakia	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available
IFAC Symposium System Identification – SYSID 2015	October 19 – 21	Beijing China	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available