

# Can we control climate change?



## SAICA 2009 will focus on:

### Efficient Energy, Emission Reduction and Harnessing Renewables

This year, the Seminar for Advanced Industrial Control Applications (SAICA) will take place in Madrid on the 16th and 17th of November. This seminar, the latest in a bi-annual series initiated in 2005, has developed into one of the most important, within this technical area, in Europe. It will bring together professionals from industry, research organisations and various public administrations.

This year's theme, "Efficient Energy, Emission Reduction and Sustainability", focuses on the potential contribution of advanced process control to the technologies required to minimise the impact of human society on the climate, now and in the future.

Examples of technologies where advanced control is meeting the challenge.

- ✓ Clean Coal technology
- ✓ Nuclear Waste treatment
- ✓ Aircraft emissions
- ✓ Wind Turbines
- ✓ Waste water treatment
- ✓ Desalination plant
- ✓ Power Plant efficiency
- ✓ Intelligent Buildings
- ✓ Petrochemical emissions
- ✓ Cement plant efficiency

## The Program

First day: Morning session with presentations from a panel of distinguished speakers and afternoon session with more detailed technical presentations. Each session will be followed by roundtable discussions covering the following themes: "Efficient, clean and sustainable processes to combat climate change" and "Advanced Control as a Key Enabling Technology". Can these key objectives be delivered through technology and be sufficient to impact climate change?

Seminar for Advanced Industrial Control Applications  
**SAICA**  
**MADRID** November 16/17

# 2009

Event for...

- ✓ **Anyone** interested in technological solutions to Climate Change
- ✓ **Professionals** interested in Process Control and Automation
- ✓ **Researchers** in the Area of Automation and Advanced Industrial Control
- ✓ **Students** of Process Control and Automation

## Confirmed Contributors

**Rt. Hon. Malcolm Wicks (UK)**  
Former UK Minister of Energy  
Currently special representative to UK Prime Minister on International energy issues

**KC Tran (Iceland)**  
CEO Carbon Recycling International

**Diego Martinez (Spain)**  
Director, Plataforma Solar de Almería PSA  
European Centre for Solar Energy Development

**Manuel Bravo (Spain)**  
Sec. Gen. of World Energy Council, Spain

**Don Lloyd (UK)**  
Chairman, Climate Change Committee of BG Group

**James Faroppa (UK)**  
Chief Technology Officer BG Group



Second day: Many international organisations will present advanced control applications in areas as diverse as petrochemical, environmental, energy and cement. There will be a special emphasis on "Teaching of Advanced Control" and the day will end with a special closing session.

During this event, Professor Juan Martin Sanchez will be formally awarded Fellowship of the IEEE for his extensive contribution to the development of Predictive, Adaptive Predictive and Adaptive Predictive Expert Control which have been documented in numerous publications, patents, books and industrial applications.

## IEEE

SAICA 2009 is organized by the joint Spanish Chapter of Control Systems Society (CSS) and Industrial Applications Society (IAS) of which Pedro Balsa is President. IEEE is the acronym of the Institute of Electrical and Electronic Engineers; the largest engineering association in the world with a total membership of 380,000 in over 150 countries. The society was founded 125 years ago and among the founder members was Alexander Graham Bell.

## VENUE, TRAVEL PLANNING

The event will be held in Madrid at the Gomez Pardo Foundation over a Monday and Tuesday, so participants can fly to Madrid early to take in all the Spanish capital has to offer.



Gomez Pardo Foundation  
c/ Alenza 1 (close to Rios Rosas  
Metro Station)  
Madrid



## REGISTRATION

The full registration fee is 290€, however should you only wish to participate in the Monday morning session. The price is 80€  
Student rate for full access to SAICA 2009 is 80€

**Final Day for Enrolment:** November 13, 2009

Register for the Event, online at:

[www.ieee-ias-css.es/modules.php?name=Inscripcion\\_SAICA09](http://www.ieee-ias-css.es/modules.php?name=Inscripcion_SAICA09)

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Industrial Control Applications

SAICA

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## SECTORS OF INTEREST

**Applying** Advanced  
Control to...

1. Chemical and Petrochemical Processes
2. Steel Production
3. Energy Generation
4. Electrical Machinery
5. Aeronautics
6. Robotics
7. Water and Environment
8. Cement Production Processes
9. Other Industrial Applications

*SAICA 2009 is grateful for the support of the British Embassy who are working closely with Spain to promote technological solutions for the control of climate change.*



## SAICA 2009 – Agenda DAY 01

### Monday, 16 November

08:30 - 09:00	Reception and Documentation
09:00 - 09:30	<b>Opening Ceremony:</b> Ken Slaven, SAICA Chairman, Address by Pedro Balsa, President of the IAS-CSS IEEE Chapter of Spain. Belinda Coombes, Director of Trade and Investment, Madrid
09:30 – 10:30	<b>Special Session: Efficient, Clean and Sustainable Processes</b> Ken Slaven, Chairman SAICA 2009. Rt. Hon. Malcolm Wicks, Former Minister of Energy (UK), Currently Special Representative to UK Prime Minister on International Energy.
10:30 - 10:45	Break
10:45 – 11:45	<b>Special Session: Efficient, Clean and Sustainable Processes</b> Diego Martínez, Director Plataforma Solar de Almería (PSA) (Spain) Don Lloyd, BG Group (UK) Chairman of Climate Change Committee
11:45 - 12:00	Break
12:00 – 12:15	Presentation of IEEE Fellowship to Professor Juan M. Martín Sánchez Introduction by Don Jesús Sainz, President of PromoMadrid.
12:15 – 13:00	<b>Special Session: Efficient, Clean and Sustainable Processes</b> K C Tran, President of Carbon Recycling International (Iceland) Manuel Bravo, Sec. Gen. of the World Energy Council in Spain
13:00 - 13:10	Break
13:10 – 14:00	<b>Round Table: Efficient, Clean and Sustainable Processes to Address Climate Change. Chairman Ken Slaven.</b>
14:00 - 15:15	Lunch
15:15	<b>Focus Session 01: Environmental Applications</b>
15:15 - 15:30	Jose Vicente Aguilar, Confederación Hidrográfica del Ebro (Spain)
15:30 - 15:45	Sanja Veleva, Ss.Cyril & Methodius University (R. Macedonia)
15:45 - 16:00	Pedro Polo, Acciona Agua, S.L. (Spain)
16:00 - 16:10	Break
16:10	<b>Focus Session 02: Energy Efficiency</b>
16:10 - 16:25	Ricardo Requena, ADEX,S.L. (Spain)
16:25 - 16:40	Asim Bensadek, Leicester University (UK)
16:40 - 16:55	Yolanda Vidal, Universidad Politécnica de Cataluña, UPC (Spain)
16:55 - 17:10	Jesús Fraile, Universidad Politécnica de Madrid, UPM (Spain)
17:10 - 17:20	Break
17:20 - 18:00	<b>Round Table: Advanced Control as Key Enabling Technology for Efficient, Clean and Sustainable Processes. Chairman Pedro Balsa</b>
20:45 - 22:45	<b>Celebratory Dinner</b> at the “Fundación Gómez-Pardo”+ Malt whisky ‘nosing and tasting session’:
22:45 – 24:00	<b>Flamenco Show:</b> Raul Mannola Group

## SAICA 2009 – Agenda DAY 02

### Tuesday, 17 November

9:30	<b>Focus Session 03: Industrial Applications</b>
9:30 – 9:45	Edgar Gracia, PEMEX Refinación (Mexico)
9:45 - 10:00	Carlos Lameda, Universidad Nacional Antonio José de Sucre(Venezuela)
10:00 - 10:15	Emilio Plano, Holcim (Spain)
10:15 - 10:30	Ramón Ferreiro, Universidad de La Coruña (Spain)
10:30 - 10:45	Break
10:45	<b>Focus Session 04: Neural and Petri Nets, Robotics and Vibration</b>
10:45 – 11:00	Adriana Vargas, Instituto Tecnológico de Monterrey (Mexico)
11:00 – 11:15	Andrés Escobar, Universidad Francisco José de Caldas (Colombia)
11:15 – 11:30	Martino Ajangnay, Strathclyde University (UK)
11:30 – 11:45	Ningsu Luo, University of Girona (Spain)
11:45 – 12:00	Mario Esmeral, Universidad del Norte (Colombia)
12:00 – 12:15	Calin Ciufudean, University of Suceava (Romania)
12:15 - 12:30	Break
12:30	<b>Focus Session 05: Quality, Instrumentation and PID Control</b>
12:30 – 12:45	Juan J. Gude, Universidad de Deusto (Spain)
12:45 – 13:00	Evaristo Kahorano, Universidad de Deusto (Spain)
13:00 – 13:15	José L. Calvo, Universidad de La Coruña (Spain)
13:15 – 13:30	Aluska Barry, CANTV (Venezuela)
13:30 – 13:45	Xavier Berjaga, University of Girona (Spain)
14:00 - 15:00	<b>Working Lunch</b>
15:00	<b>Focus Session 06: Educational Issues</b>
15:00 - 15:15	Antonio Nevado, Universidad Nacional de Educación a Distancia (Spain)
15:15 - 15:30	Andrés Escobar, Universidad Francisco José de Caldas (Colombia)
15:30 - 15:45	Juan C. Reyes, Universidad Francisco José de Caldas (Colombia)
15:45 - 16:15	<b>Closing Ceremony:</b> Farewell by Pedro Balsa and Ken Slaven
16:15	<b>Post-Seminar Parting Cocktail and Networking</b>