



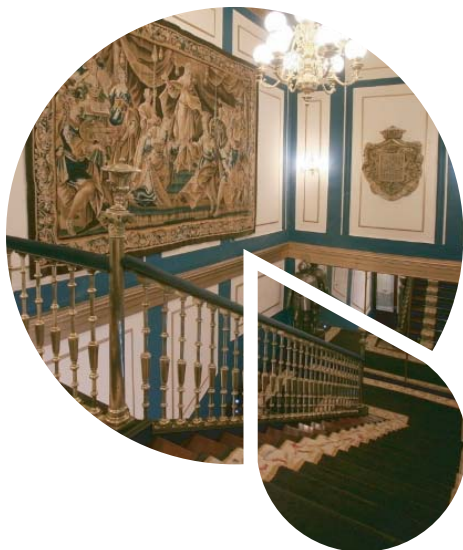
REAL ACADEMIA DE INGENIERÍA



Euro-CASE
Annual Conference 2011
Water & Food Security in Europe

CONFERENCE PROGRAMME – Thursday 10 NOVEMBER 2011 (MADRID - SPAIN)
REAL ACADEMIA DE INGENIERÍA





INDEX

- 1 Message from the President Page 3
- 2 Advisory Board Page 4
- 3 Introduction Page 5
- 4 At a Glance Page 6
- 5 Programme Page 7
- 6 About Euro-CASE Page 8
- 7 About the Real Academia de Ingeniería Page 10
- 8 Practical Information & Contact Page 12
- 9 List of Sponsors Page 13



I would like to extend a warm invitation to attend the Euro-CASE 2011 Conference focused on how to develop sustainable food systems for Europe in a future of water scarcity.

Elías Fereres, President of Real Academia de Ingeniería



REAL ACADEMIA DE INGENIERÍA





2) Advisory Board

The committee is chaired by Prof. Elías Fereres, President of Real Academia de Ingeniería.

- Prof. Dr. Elías Fereres. President of Real Academia de Ingeniería
- Prof. Dr. Pilar Carbonero. Real Academia de Ingeniería Académico
- Dr. Manuel Márquez. Real Academia de Ingeniería Académico
- Prof. Dr. Pere Brunet. Real Academia de Ingeniería Académico
- Prof. Kimon Hadjibiros. National Technical University of Athens, Greece
- Dr. Christian Stamm. Eawag, Switzerland
- Dr. Lars-Erik Liljelund. Mistra Foundation, Stockholm, Sweden



3) Introduction

Forecasts on population growth and economic development indicate that there will be substantial increases in food demand in the forthcoming decades. Sustainable food systems for Europe and the other continents require a commitment of state of the art engineering technologies to provide our citizens with sufficient and safe food now and in the future.

The Royal Academy of Engineering of Spain is responsible this year for the organization of the Euro-CASE Conference.

Until now, Europe has been able to produce sufficient food, but uncertainties associated with supplies and climate change pose a challenge for the future.

The Conference will deal with food security and climate change issues and will address the water requirements to produce sufficient food in the future for Europe and beyond.



At a Glance

10 NOVEMBER 2011, 9:00 TO 18:00

WELCOME PRESENTATIONS

The Presidents of Euro-CASE and the Real Academia de Ingeniería of Spain will welcome participants.

SESSION 1 – *Sustainability and food security in Europe*

Moderated by Academician Prof. Enrique Cerdá-Olmedo

SESSION 2 – *The water and food connection*

Moderated by Academician Prof. Enrique Cerdá-Olmedo

SESSION 3 – *Food security and climate change in Europe*

Moderated by Prof. Ana Iglesias, Madrid Polytechnic University, Spain

SESSION 4 – *Technological options for sustaining food security under water scarcity*

Moderated by Prof. Ana Iglesias, Madrid Polytechnic University, Spain

PROGRAMME

WELCOME PRESENTATIONS

- 09:00 Registration
- 09:30 Welcome from Prof. Lena Treschow Torell, President of Euro-CASE
- 09:40 Welcome Address from Prof. Elías Fereres Castiel, President of the Royal Academy of Engineering of Spain
- 09:50 Welcome from Mr. Josep Puxeu, Secretary of State for rural and water affairs
- 10:00 The European Commission vision on water and food security: presentation from EU representative

10:30 SESSION 1

Chair: Prof. Enrique Cerdá-Olmedo
Sustainability and food security in Europe
Prof. Louise O. Fresco, Univ. of Amsterdam, The Netherlands
Prof. José M. Sumpsi, Madrid Polytechnic Univ., Spain
Prof. Kimon Hadjibiros, National Technical Univ. Athens, Greece

11:45 Coffee Break

12:00 SESSION 2

Chair: Prof. Enrique Cerdá-Olmedo
The water and food connection
Prof. W. Davies, Lancaster Univ., UK
Prof. Alberto Garrido, Madrid Polytechnic Univ., Spain
Dr. Christian Stamm, Eawag, Switzerland
Mentometer opinion polls (part 1, Enrique Cerdá-Olmedo)

13:15 Lunch

14:15 SESSION 3

Chair: Prof. Ana Iglesias
Food security and climate change in Europe
Dr. Lars-Erik Liljelund, Mistra Foundation, Sweden
Philippe Tanguy, Vice-President, R&D, Total, France
Dr. Heidi Fagerholm, Kemira Co., Helsinki

15:30 SESSION 4

Chair: Prof. Ana Iglesias
Technological options for sustaining food security under water scarcity
Prof. E. Fereres, Univ. of Córdoba, Spain
Prof. Manuela Chavez, Univ. Nova de Lisboa, Portugal
Prof. Bernd Hillemeier, TU Berlin, Germany
Mentometer opinion polls (part 2, Ana Iglesias)

16 :45 Coffee Break

17 :00 Panel discussion and policy conclusions

17:30 Mentometer conclusions and rapporteur's summary (Prof. Elías Fereres)

17:45 Closing address by Euro-CASE President, Professor Lena Treschow

20:00 Conference reception/Dinner - Hotel NH Paseo del Prado



About Euro-CASE

Organisation

The European Council of Academies of Applied Sciences, Technologies and Engineering is an independent non-profit organisation of national academies of applied sciences, technologies and engineering from 21 European countries.

Euro-CASE acts as a permanent forum for exchange and consultation between European Institutions, Industry and Research.

Through its Member academies, Euro-CASE has access to top expertise (around 6,000 experts) and provides impartial, independent and balanced advice on technological issues with a clear European dimension to European Institutions, national governments, companies and organisations.

Mission statement

The mission of Euro-CASE is to pursue, encourage and maintain excellence in the fields of Applied Sciences, Technologies and Engineering, and promote their knowledge, art and practice for the benefit of the citizens of Europe.



In pursuit of this mission, the objectives of Euro-CASE are:

- Maintain a leadership role in promoting attention to excellence in Applied Sciences, Technologies and Engineering and to related issues of key importance to Europe;
- Ensure that the societal impact of technological change is given proper attention with full consideration of environmental and sustainability aspects;
- Provide impartial, independent and balanced advice on Applied Sciences, Technologies and Engineering issues that affect Europe and its people to the European Commission and Parliament, and other European institutions;
- Promote the importance of Applied Sciences, Technologies and Engineering throughout Europe and to develop greater public understanding and interest to attract young Europeans into careers in the above domains, in order to ensure future technological and societal progress in Europe;
- Draw on the experience and best practices of the members' academies in Europe, developing appropriate information and exchange networks.



7) About the Real Academia de Ingeniería

The Royal Academy of Engineering of Spain (RAI), the most recently created of our national Academies, is the first national Academy created under the Kingdom of H.M. Juan Carlos I. As all national Academies, the RAI is a public entity sponsored by the Ministry of Education and Science.

The RAI was created in 1994 with an original body of 36 Constituent Members. Among RAI' s objectives are:

- To promote quality and competency in Spanish engineering, fostering study, research and progress in those sciences on which it is based, in the techniques required by its applications and in the methods that encompass its creative activity.
- To collaborate with other Academies and similarly-oriented institutions, whether located in Spain or other countries, as well as with those of an international nature, on matters and programs of common interest.

Presently, the RAI has a total of 60 full members and 42 corresponding members from 16 countries.

The Royal Academy is keen in developing international relations and is a member of CAETS, the International Council of Academies of Engineering and Technological Sciences, and of Euro-CASE, the European Council of Applied Sciences, Technologies and Engineering.

Of special relevance were the commemorative events held on the 10th Anniversary of the Academy's creation, which took place in different cities around the country and focused on issues such as energy, the environment, infrastructure, transport, computer technology and telecommunications.



On May 9, 2005, stemming from an initiative by the Royal Academy of Engineering of Spain, the "Pro Rebus Academiae" Foundation was founded, for the essential purpose of supporting many of the activities of the Academy. Its Board is composed by eleven high level entrepreneurs and administrators from the engineering and science fields.

On June 7, 2005 the Government of Spain, granted the Royal Academy of Engineering of Spain the Palace of Marqués de Villafranca (which forms part of Spain's Historic Patrimony) as its Headquarters, where the corporation initiated its services and the performance of its activities. The building needed rehabilitation in terms of the necessary recovery and renovation of the premises which, due to their precarious state, posed safety issues and called for structural reductions and the refurbishment of the Arab wall, dating from the 12th century, upon which the rear part of the building rests, in order to leave as much as possible of the wall exposed.



8)

Practical information & contact

The participation fee is 200 euros and includes: Conference – Conference Documentation – Coffee breaks – Lunch – Cocktail Party.

Procedure to register at <http://euro-case2011-rai.org/category/registration>. Payment shall be made by bank transfer. Registration shall be confirmed once the Form properly filled and the bank voucher are received at the email address: euro-case2011@real-academia-de-ingenieria.org

Please register not later than Monday 31 October 2011.

Accommodation: we recommend three NH Hotels listed in the event website, with special rates for the attendees.

Working language is English.

Additional information at <http://euro-case2011-rai.org>

Contact

Should you have any question or need personal assistance, do not hesitate to contact us at Ph: +34915282001 and euro-case2011@real-academia-de-ingenieria.org

Real Academia de Ingeniería
C/ Don Pedro, 10
28005 Madrid

9) List of Sponsors

