

Euro-CASE

Annual Report 2006



Euro-CASE

European Council of Applied
Sciences, Technologies and Engineering

Chairman's Statement **by Ben Veltman**

The strong support and sponsorship from our national academies and the impressive, independent European network counting more than 6,000 experts, the members of the Board and Executive Committee, the members of the European ICT Prize evaluation panels and of our Euro-CASE Platforms are the key factors behind the success of Euro-CASE.

A very satisfactory participation rate at the six-monthly Board meetings, gathering around 25 senior representatives coming from all over Europe, is a healthy sign of the keen interest in Euro-CASE affairs taken by the twenty academies. The meetings are conducted in a true European spirit and provide an excellent opportunity to share experience on issues of importance for Europe.

We had the pleasure of welcoming the Romanian Academy of Technical Sciences as associated member of Euro-CASE which now counts 20 member academies. We strongly wish to include further academies from EU countries in our organisation.

Due to its unique constitution, independence and access to European top expertise, Euro-CASE has been entrusted with the organisation of the European ICT Prize since its inception in 1995. The growing success of the prize scheme is due to the support from the national academies, to the quality of the submissions and to the thorough, independent and highly professional evaluation procedure. A very spectacular awards ceremony was organised at the Hofburg in Vienna on 22 March 2006.

During the past year, we have organised our work in "Euro-CASE Platforms".

The Euro-CASE Platform on Energy/Environment has met twice during the past year to make progress on activities on "Energy Savings in Buildings", "Energy and Greenhouse gas emissions. How to construct Foresights or Scenarios" and the European Energy/Climate Change Technology Prize.

The Euro-CASE Platform on Engineering Education has been working on "Promotion of an innovation spirit in European engineering education" and on the "Bologna declaration". A number of experts from our academies have contributed to meetings and a report on Engineering Education in Portugal.

A conference on Innovation was organised in May and a meeting has been held for the Euro-CASE Platform on Innovation.

Preparations have been made to launch the Euro-CASE Platform on ICT.

Euro-CASE has provided advise for the creation of the European Institute of Technology.

The Euro-CASE reserve fund, initiated in 2005, is steadily growing thanks to the contributions from our academies. I want to thank the academies most sincerely for their contributions, not only to our work but also to the reserve fund which is a key for the further development and financial credibility of Euro-CASE.

Our activities are still managed by our small but efficient secretariat. I want to thank Pierre Fillet, Alain Mongon, Bruno Jarry, Helle Bonnet and Nadia Pipunic for the energy, enthusiasm and hard work they devote to Euro-CASE.

Euro-CASE

The European Council of Applied Sciences, Technologies and Engineering is a European non-profit-making organisation of national academies of Applied Sciences, Technologies and Engineering from 20 European countries. Euro-CASE has access to top level European experience and provides impartial, independent and balanced advice on technological issues with a clear European dimension.

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

The individual members of the Euro-CASE academies are elected for their excellence and knowledge in specific fields and for their contributions to technologic, scientific, economic and social progress. This unique resource of experts, counting some 6,000 individual Fellows of 20 national academies, is the core of Euro-CASE.

For the 12th year Euro-CASE organises the prestigious European ICT Prize with the support and sponsorship of the IST Programme of the European Commission.

The Euro-CASE Board

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Mr Yannis Alavanos (EL), Technical Chamber of Greece, TCG
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Mr Valentin Van den Balck (BE), Royal Belgian Academy Council of Applied Sciences, Royal BACAS
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Prof. Radu Voina (RO), Romanian Academy of Technical Sciences, ASTR
Prof. Petr Zuna (CZ), Engineering Academy of the Czech Republic, EACZ

The Euro-CASE Executive Committee

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Mr Pierre Fillet (FR), *Secretary General*
Prof. Reiner Kopp (DE), *Vice Chairman*
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Dr Ben Veltman (NL), *Chairman*

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Mr Christian Marbach (FR), NATF
Mr Alain Mongon (Euro-CASE), *Executive Adviser*
Mr Knud Sørensen (DK), ATV

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Mr Alain Mongon, *Executive Adviser*
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Euro-CASE activities

2006 has been marked by our efforts to organise Euro-CASE's activities in "Euro-CASE Platforms" and to constitute a reserve fund.

Euro-CASE Platform on Energy/Environment _____

Dr Irene Aegerter (CH)
Prof. Arne Bjørlykke (NO)
Dr Ulf Bossel (CH)
Mr Paul Caseau (FR)
Prof. Antonio Colino (ES)
Prof. Bernd Hillemeier (DE)
Dr Eduard Kiener (CH)
Mr Ruedi Kriesi (CH)
Dr Hans Larsen (DK)
Prof. Michael A. Laughton FREng (UK)
Mr Thomas Malmer (SE)
Mr Alain Mongon (Euro-CASE)
Mr Göran A. Persson (SE), *Chairman*
Prof. Othmar Preining (AT)
Mr Jean-Jacques Van de Berg (BE)

The Platform organised a meeting and workshop in Brussels, on 12 June 2006 in cooperation with the European Commission DG RTD Energy / EFONET on "Points of Departure for European Energy Foresights". Another Platform meeting took place on 26 September in Solleau (CH). The Platform has outlined a first draft proposal for an "European Energy/Climate Change Technology Prize", based on the successful concept of the European ICT Prize, and made progress on a project on "Energy Savings in Buildings".

Euro-CASE thanks the Energy/Environment Platform for its work.

Euro-CASE Platform on Engineering Education _____

Prof. Pere Brunet (ES)
Prof. Janos Ginsztler (HU)
Prof. Reiner Kopp (DE), *Chairman*
Mr Claude Maury (FR)
Mr Alain Mongon (Euro-CASE)
Prof. David Nethercot (UK)
Prof. G. Pritschow (DE)
Prof. Svein Remseth (NO)
Prof. Kurt Richter (AT)
Dr Zsuzsanna Sarközi Zagoni (HU)
Dr Carsten Schröder (DE)
Dr Åsa Valadi (SE)
Prof. Petr Zuna (CZ)

The Euro-CASE Platform on Engineering Education had its first meeting in Munich on 7 February 2006.

A core group was constituted, which met on 8 June and 11 November 2006 to discuss issues for European cooperation, such as “Initiatives to enhance the motivation of young people towards science and technology issues”, “Initiatives to foster an innovative attitude of students and to introduce an innovation culture in educational institutions”, “identification of key factors of excellence in Engineering Education”, “questionnaire on the implementation of the Bologna process in engineering education” and “Promotion of an innovation spirit in the European engineering education”.

Members of the core group have constituted a “European advisory group” which has contributed to a study carried out by the Portuguese Academy at the request of the Minister of Science, Technology and Higher Education. The report “Engineering Education in Portugal” is available at Euro-case.

Euro-CASE thanks the Engineering Education core group for its work.

Euro-CASE Platform on Innovation

Dr Manuel Marquez Balin (ES)
Mr Thomas C. Beck (DK)
Mr Guus Berkhout (NL), *Chairman*
Prof. René Dändliker (CH)
Dr Ivan Dobias (CZ)
Dr Milos Hayer (CZ)
Prof. Wilhelm Kappel (RO)
Prof. Anastasios J. Karabelas (EL)
Prof. Karl Klingsheim (NO)
Prof. Zlatko Kniewald (HR)
Prof. Reiner Kopp (DE)
Dr Urban Meers (BE)
Mr Alberto Pieri (IT)
Dr Kurt Richter (AT)
Dr Carsten Schröder (DE)
Prof. Florin Teodor Tanasescu (RO)
Prof. Stanko Tonkovic (HR)
Dr Ben Veltman (NL)
Dr Wim de Ridder (NL)

The Euro-CASE Platform on Innovation had its first meeting in Paris on 12 September 2006.

A conference on “The Challenge of Innovation – bridging the gap between Science, Business and Society” was organised in Delft on 19 May 2006.

Euro-CASE thanks the Innovation Platform for its work.

Euro-CASE Platform on Information and Communication Technologies, ICT _____

Prof. Einar Aas (NO)
Mr Giampaolo Amadori (IT)
Dr Hellmuth Broda (CH)
Prof. Christer Carlsson (FI)
Dr Bjarne Däcker (SE) Prof. Florin G. Filip (RO)
Mr Georges Grunberg (FR)
Prof. José A. Jaén (ES)
Dr Hannu Martikainen (FI)
Mr Danny Mc Caughan (IE)
Mr Raymond Morel (CH)
Mr Henrik Nielsen (DK)
Prof. Sir John J. O'Reilly (UK)
Mr Lucio Pinto (IT)
Prof. Gustav Pomberger (AT)
Prof. Christian Saguez (FR)
Prof. Heinz Schwärtzel (DE)
Dr Gerard Van Oortmerssen (NL), *Chairman*
Dr Eldert van Schagen (NL)
Prof. Petr Vavrin (CZ)

A meeting was organised on 16 October 2007 to prepare the launch of the Euro-CASE Platform on ICT in early 2007.

European Institute of Technology _____

As stakeholder of the European Institute of Technology, Euro-CASE has been represented in the meetings organised by the European Commission on 25 April, 18 May and 7 September 2006.

Euro-CASE has delivered recommendations to Mr Barosso for the creation of a European Institute of Technology.

The European IST/ICT Prize _____

Due to its unique position and access to European top expertise, Euro-CASE has been entrusted with the organisation of the European IST Prize since its inception in 1995. The prize scheme is organised with the sponsorship and support of the Information Society Technologies Programme of the European Commission.

The European IST Prize is the most distinguished award for innovative products and services in the field of Information Society Technologies. The Prize is open to 33 countries, for companies and organisations that present an innovative IST product/service with a promising market potential. The high standards of applicants and the competitive evaluation procedure make this Prize the standard reference recognising major achievements in the ICT world of today.

Experience from the past years demonstrates that the prize scheme facilitates the start-up phase and access to finance for the Prize Nominees and Winners. The criteria of innovation and market potential reveal solidity and sustainability and guarantee a valuable quality label to the Nominees and Winners.

Over the past 12 years 3,358 companies from 33 countries have applied for the Prize, 257 Nominees from 22 countries (the Nominees were introduced in 2002), 240 Winners from 23 countries and 30 Grand Prize Winners from 12 countries have been awarded.

All the applications are assessed by the evaluation group, consisting of independent experts from 16 European countries, nominated by the Euro-CASE academies and agreed by the European Commission. 50-70 "Prize Nominees" are selected, and, among those, 20 "Grand Prize Nominees".

Hereafter the Executive Jury, composed of European executives from 19 countries, nominated by the Euro-CASE academies and agreed by the European Commission, propose to nominate the 20 "Grand Prize Nominees" as "Winners". Among the 20 Grand Prize Nominees, the Executive Jury proposes 3 Grand Prize Winners to the European Commission.

The 2006 European IST Prize awards ceremony took place on 20 March 2006 at the distinguished Hofburg in Vienna, gathering some 400 participants from all over Europe. Euro-CASE thanks the Austrian Government and the Austrian Academy of Sciences for their support.

In October 2006 the new prize scheme was launched, with a change of name to the European ICT Prize, the European Information and Communication Technologies Prize.

On the closing date, 4 December 2006, Euro-CASE had received 450 applications from 30 countries, the highest number ever since the inception of the prize scheme in 1995.

The awards ceremony will take place on 16 March 2007 at CeBIT, Hanover (DE), the world's largest IT fair.

Euro-CASE thanks the members of the evaluation panels for their contributions.

The European ICT Prize Winners

3Dsolar (UK), Advestigo (FR), Cavendish Kinetics (NL), Centrica (IT), Creist (UK), Czech Technical University in Prague/Dept of Cybernetics (CZ), EADS (FR), fleXilution (DE), FotoNation (IR), Fraunhofer IGD (DE), Guardia (DK), InTrace (DE), Laennext (FR), National Institute for Earth Physics (RO), Nexstim (FI), Next Limit (ES), Next Limit (ES), SimSurgery (NO), SouthWing (ES), ZOOtech (UK).

The 2006 European ICT Grand Prize Winners

Cavendish Kinetics for Nanomech (NL), Guardia, for Guardia Control System (DK), Advestigo for AdvestiSEARCH (FR)

The European ICT Prize evaluation group

Prof. Einar Aas (NO), Norwegian University of Science and Technology, Norwegian Academy of Technological Sciences, NTVA; Prof. John Byrne (IE), Irish Academy of Engineering; Dr. Bjarne Däcker (SE), Ericsson AB, Swedish Academy of Engineering Sciences, IVA; Dr Marc Durvaux (BE),

ALCATEL, Royal Belgian Academy Council of Applied Sciences, BACAS; Prof. Florin-Gheorghe Filip (RO), National Institute for R&D in Informatics (ICI), Romanian Academy of Technical Sciences; Dr Esther Gelle (CH), ABB Schweiz AG Corporate Research, Swiss Academy of Engineering Sciences, SATW; Mr Georges Grunberg (FR), National Academy of Technologies of France, NATF; Prof. José A. Jaén (ES), Escuela Técnica Superior de Ing. Industriales, Real Academia de Ingeniería, RAI; Dr. Ing. Ivo Janousek (CZ), National Technical Museum, Engineering Academy of the Czech Republic, EACZ; Mr Yiannis Loumakis (EL), Decision Systems Integration, Dr. Hannu Martikainen (FI), Emtele, Finnish Academies of Technology, FACTE; Mr Henrik Nielsen (DK), ArbejdsmiljøCentret, Danish Academy of Technical Sciences, ATV; Prof. Bill O'Riordan (UK), The Royal Academy of Engineering, RAEng; Dr Lucio Pinto (IT), Fondazione Tronchetti Provera, Italian Council of Applied Science and Engineering, FAST/Cisai; Prof. Heinz Schwärtzel (DE), Siemens, Council of Technical Sciences of the Union of German Academies of Sciences and Humanities, acatech; Mr Eldert Van Schagen (NL), VIP's, Netherlands' Society of Technological Sciences and Engineering, NFTW.

The 2006 European ICT Prize Executive Jury

Chairman: Mr Guy Demuyck (NL), Member of the Executive Board of KPN and CEO of KPN Mobile, Netherlands Academy of Technology and Innovation, NATI; Prof. Oddvar Aaserud (NO), Venturos Management, Norwegian Academy of Technological Sciences, NTVA; Dr Giampaolo Amadori (IT), Regione Lombardia, Italian Council of Applied Science and Engineering, FAST/Cisai; Prof. Jozsef Bokor (HU), Hungarian Academy of Engineering; Dr Hellmuth Broda (CH), SUN Microsystems, Swiss Academy of Engineering Sciences, SATW; Prof. Christer Carlsson (FI), IAMSRI/Åbo Akademi University, Finnish Academies of Technology, FACTE; Prof. Andreas Dengel (DE), DFKI, Council of Technical Sciences of the Union of German Academies of Sciences and Humanities, acatech; Mr Kaj Juul-Pedersen (DK), Sitella, Danish Academy of Technical Sciences, ATV; Dr Daniel V. McCaughan OBE DSc FREng FIAE (IE), McCaughan Associates, Irish Academy of Engineering; Ms Ann-Marie Nilsson (SE), IT-Företagen, Swedish Academy of Engineering Sciences, IVA; Prof. Eduardo Romano de Arantes e Oliveira (PT), Instituto Superior Técnico, Portuguese Academy of Engineering; Prof. John O'Reilly FREng (UK), Engineering and Physical Sciences Research Council, The Royal Academy of Engineering, RAEng; Prof. Dr Gustav Pomberger (AT), Institut für Wirtschaftsinformatik, University of Linz, Austrian Academy of Sciences; Prof. Andrés Ripoll (ES), Real Academia de Ingeniería, RAI; Prof. Christian Saguez (FR), Ecole Centrale de Paris, National Academy of Technologies of France, NATF; Mr Vassilis Trapezanoglou (EL), Eurobank; Dr. ir. Gerard van Oortmerssen (NL), TNO Telecom, Netherlands' Society of Technological Sciences and Engineering, NFTW; Dr Jacques Van Remortel (BE), Alcatel Telecom, Royal Belgian Academy Council of Applied Sciences, BACAS; Prof. Petr Vavrin (CZ), Brno University of Technology, Engineering Academy of the Czech Republic, EACZ.

In charge of the European ICT Prize

For the European Commission: Ms Linda Jones
For Euro-CASE: Mr Alain Mongon

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