

A Brief History of the ECOS Conferences

ECOS is the name of a series of international conferences that focus on modern aspects of Thermal Sciences with particular emphasis on Thermodynamics and its applications in energy conversion systems and processes.

The idea for the ECOS series of conferences originated at the meeting of the Systems Analysis Technical Committee (SATC) of the Advanced Energy Systems Division (AESD) of the American Society of Mechanical Engineers (ASME) during the 1985 ASME Winter Annual Meeting (WAM), in Miami Beach, Florida, under the leadership of Prof. Richard Gaggioli. At the meeting it was decided to:

- (a) organize an annual Symposium on the Analysis and Design of Thermal Systems at each ASME WAM, and
- (b) try to involve more scientists and engineers from outside the United States by organizing conferences in other countries, except the United States.

Indeed, a Symposium of 8-15 sessions has been organized by the SATC every year since 1985 at the ASME Winter Annual Meeting and its successor, the International Mechanical Engineering Congress and Exposition. The first overseas conference took place in Rome, in 1987, with the support of the U.S. National Science Foundation.

The name ECOS was used for the first time in Zaragoza, in 1992. It is the acronym for

Efficiency, Cost, Optimization and Simulation

of energy conversion systems and processes, keywords that best describe the contents of the presentations and discussions taking place in these conferences. It is worth noting that “ecos” means “home” in the Greek language and it is used here with two meanings:

- (i) the earth as our home we need to protect, and
- (ii) the conference as a home for a fruitful exchange of our ideas.

The complete list of this series of international conferences including the names of the chairpersons and co-chairpersons is as follows.

The Series of the ECOS Conferences

1. 1987, May 25-29, Rome, Italy: *4th International Symposium on 2nd Law Analysis of Thermal Systems*:
Organizing Committee: R. Melli, E. Sciubba
Executive Committee: R.A. Gaggioli, M.J. Moran, E. Sciubba
2. 1989, June 5-8, Beijing, China: *Thermodynamic Analysis and Improvement of Energy Systems (TAIES '89)*, International Symposium.
Organizing Committee: C.H. Wu, R.A. Gaggioli
Executive Committee: Ruixian Cai, M.J. Moran
3. 1990, May 28 – June 1, Florence, Italy: *Florence World Energy Research Symposium (FLOWERS '90)*. S.S. Stecco, M.J. Moran.

4. 1991, June 3-6, Athens, Greece: *Analysis of Thermal and Energy Systems (ATHENS '91)*, International Conference.
Executive Committee: D.A. Kouremenos, R.A. Gaggioli, M.J. Moran
Organizing Committee: G. Tsatsaronis, C.D. Rakopoulos
5. 1992, June 15-18, Zaragoza, Spain: International Symposium on *Efficiency, Costs, Optimization and Simulation of Energy Systems (ECOS '92)*. A. Valero, G. Tsatsaronis.
6. 1993, July 5-9, Cracow, Poland: *Energy Systems and Ecology (ENSEC '93)*, International Conference. J. Szargut, G. Tsatsaronis, Z. Kolenda, A. Ziebig.
7. 1994, July 6-8 Florence, Italy: *Florence World Energy Research Symposium (FLOWERS '94)*. E. Carnevale, G. Manfrida, F. Martelli.
8. 1995, July 11-14, Istanbul, Turkey: International Conference on *Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS '95)*.
Y.A. Göğüş, A. Öztürk, G. Tsatsaronis
9. 1996, June 25-27, Stockholm, Sweden: International Symposium on *Efficiency, Costs, Optimization, Simulation and Environmental Aspects of Energy Systems (ECOS '96)*.
G. Svedberg, G. Manfrida, M.J. Moran, G. Tsatsaronis
10. 1997, June 10-13, Beijing, China: Thermodynamic Analysis and Improvement of Energy Systems (TAIES '97), International Conference.
Scientific Committee: Ruixian Cai, M.J. Moran, G. Tsatsaronis
Organizing Committee: Jingyi Chen, E. Sciubba
11. 1998, July 8-10, Nancy, France: *Efficiency, Costs, Optimization, Simulation and Environmental Aspects of Energy Systems and Processes (ECOS '98)*.
Honorary Chairmen: E.P. Gyftopoulos, P. Le Goff
M. Feidt, A. Bejan, M.J. Moran, G. Tsatsaronis
12. 1999, June 8-10, Tokyo, Japan: *Efficiency, Costs, Optimization, Simulation and Environmental Aspects of Energy Systems (ECOS '99)*.
M. Ishida, G. Tsatsaronis, M.J. Moran, H. Kataoka
13. 2000, July 5-7, Enschede, The Netherlands: *International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Aspects of Energy and Process Systems (ECOS 2000)*.
Honorary Chairman: J. Szargut
G.G. Hirs, G. Tsatsaronis, M.J. Moran
14. 2001, July 4-6, Istanbul, Turkey: *Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS '01)*.
Honorary Chairman: E.P. Gyftopoulos
A. Öztürk, A. Bejan, M. Feidt, Y.A. Göğüş
15. 2002, July 3-5, Berlin, Germany: *15th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2002)*.
Honorary Chairman: K.F. Knoche
G. Tsatsaronis, M.J. Moran
16. 2003, June 30 – July 2, Copenhagen, Denmark: *The 16th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2003)*.
Organizing Committee: B. Qvale (Chairman)
Scientific Committee: N. Houbak, M.J. Moran
17. 2004, July 7-9, Guanajuato, Mexico: *17th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy and Process Systems (ECOS 2004)*.

18. 2005, June 20-22, Trondheim, Norway: *The 18th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2005)*. Organizing Committee: S. Kjelstrup (Chairman)
Scientific Council: J.E. Hustad (Chairman)
19. 2006, July 12-14, Aghia Pelagia, Crete, Greece: *The 19th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2006)*.
Honorary Chairmen: E.P. Gyftopoulos, G. Hatsopoulos
C.A. Frangopoulos, C. Rakopoulos, G. Tsatsaronis
20. 2007, June 25-28, Padova, Italy: *The 20th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 2006)*.
A. Mirandola, Ö. Arnas