

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 of the American Society of Mechanical Engineers (ASME) during the 1985 ASME Winter Annual Meeting, in Florida. At the meeting it was decided to:

- organize an annual Symposium on the Analysis and Design of Thermal Systems at each ASME WAM and
- 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, coined by George Tsatsaronis, was used for the first time in Zaragoza, in 1992. This is the third time that the ECOS conference is taking place in Greece after Athens in 1991 and Crete in 2006.



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### Organizing Committee:



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**ECOS** 2024  
RHODES, GREECE

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37th International  
Conference on Efficiency,  
Cost, Optimization,  
Simulation, and  
Environmental Impact  
of Energy Systems

30 June - 4 July 2024  
Rhodes, Greece

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**ECOS:** Efficiency, Cost, Optimization, Simulation.

“Ecos”, «Οίκος», “home” in Greek, the origin of the words “ecosystem”, “ecology” and “economy”, is the most fitting name for a conference which aspires to become a home of scientists coming from all over the world to exchange fruitful ideas, present new technologies and set future goals for protecting our universal “Ecos”, planet Earth.

Understanding the intersectional, complex challenges that need to be overcome in this endeavor, the ECOS 2024 conference will encompass a broad range of theoretical and practical engineering topics, including:

- Basic and applied thermodynamics, heat and mass transfer, exergy-based methods
- Energy conversion technologies for power production, cogeneration, polygeneration, refrigeration and heat upgrading
- Fuel and chemical conversion processes (incl. combustion, gasification, hydrogen and biofuels production and use)
- Renewable energy utilization, integration and energy storage
- Sustainable energy policy and planning
- Environmental impact of energy systems & energy-water nexus
- Digitalization, AI, smart grids, distributed generation
- Socioeconomic analysis of Energy systems

The ECOS 2024 Conference will be held on the island of Rhodes, the place where one of the Seven Wonders of the Ancient World: the “Colossus of Rhodes” once stood, a statue honoring the Greek Sun-God «Ἥλιος», “Helios”: the giver of life and source of energy.

The goal of the conference will be to help expert researchers to exchange knowledge in their fields of specialization while also enabling them to get a clearer view of the “big picture” of the ongoing global effort to combat climate change.

### Conference Chair

- Sotirios Karellas (NTUA, Greece)
- Soteris Kalogirou (CUT, Cyprus)
- Emmanuel Kakaras (NTUA, Greece)
- George Tsatsaronis (TUB, Germany)
- Ana Maria Blanco Marigorta (ULPGC, Spain)
- Assaad Zoughaib (PSL, France)

## About Rhodes



Rhodes, the “Island of the Sun”, the “Island of the Knights” or “The Pearl Island” is the largest of the Dodecanese islands of Greece. One of the best-preserved medieval settlements in the world, the Old Town of Rhodes has been declared a Unesco World Heritage Site. Protected inside its imposing walls -a boundary between past and present- is the islands’ coat of arms. Every stone tells a story. Ancient statues, marble crests, fountains, mosques and hammams, the Clock Tower with its breathtaking view of the Aegean... a rich heritage left behind by past civilizations.

## Venue of the Conference

There are plenty of reasons why someone should visit Rhodes, one of the most popular tourist destinations in Europe. Besides the beautiful beaches and resorts, there is plenty to explore:

- Rich history
- Nature and excursions
- Culinary pleasures
- Tradition and Villages
- Active nightlife
- Direct Access from most Airports Worldwide
- Outstanding Hotel Accommodation
- Friendly & Efficient Service
- Fabulous Weather

One of the best Hotels in Rhodes! Set in a prestigious location on the island of Rhodes, “Rhodos Palace” is an ideal place to host the Conference. The perfect place to combine “business with pleasure” and create memories of a lifetime.



Website: <https://www.rodos-palace.gr>