

Focal themes for ECOS 2011

Central theme:

International and regional cooperation for sustainable development of energy systems: Needs, methodologies, technologies, accomplishments, plans, and potential. An important area of emphasis would be the rapidly developing region of South-Eastern Europe. *Every effort would be made to encourage scientific, business, and personal connections between the South-East European energy community and its overall international complement.*

Energy resource foci:

Biomass within broad coverage of renewable energies.

"Clean Coal" within broad coverage of fossil and nuclear power generation.

Detailed Conference Topics

Development and Application of Methods in:

Basic and applied thermodynamics; **Simulation, Improvement and Optimization of Energy Systems**; Sustainability of Energy Systems; **Energy conservation**; Energy efficiency and climate changes; **Process design, analysis and integration of thermal and chemical systems**; Energy planning; **Renewable Energy Conversion, Use and integration**; Nuclear power; **Diagnostics and control of thermal systems**; Zero-emission Technologies and Strategies; **Life Cycle Assessment and Environmental Impact of Energy Systems**; Energy and water interactions; **Electricity generation and transmission; the smart grid**; Recycling; **Manufacturing**; Mining and drilling; **Transport energy and emissions**; Social impacts of energy systems; **Energy economics**

Relevant Physical Systems:

Clean Coal Technologies; **Conventional and Advanced Power Plants**; Hydropower plants; **Biomass conversion systems**; Internal Combustion Engines; **Turbines**; Cogeneration and District Heating; **New technologies in heat pumps, refrigeration and air conditioning**; Fuel Cells and Integrated Systems; **Renewable Energy Systems**; Industrial Process Plants; **Hydrogen and natural gas technologies**; Energy and buildings; **Energy Storage**; Carbon Capture and Storage; **Solar integrated system**; Agriculture; **Water Desalination and Treatment**; Decentralized energy systems; **Integrated smart energy networks**

Deadlines

December 3, 2010	Submission of abstracts
December 24, 2010	Acceptance of abstracts
February 25, 2011	Submission of full-length papers for review
April 15, 2011	Reviews returned to authors
May 16, 2011	Submission of final papers
May 16, 2011	Early registration fee

Novi Sad, Serbia

July 4-7, 2011

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