

**5th International Energy and Sustainability
Conference 2016**

Sustainable Future by combining Electricity, Heating/Cooling and Transport Infrastructure

June 30th and July 1st 2016

at TH Köln (Germany) in cooperation with
Farmingdale State College (USA)

**Farmingdale
State College**
State University of New York

CIRE
Cologne Institute
for Renewable Energy



**Technology
Arts Sciences
TH Köln**

Chairpersons Message

The Cologne Institute for Renewable Energy CIRE at TH Köln (Germany) in cooperation with the Renewable Energy and Sustainability Center at Farmingdale State College (USA) will invite you to the Fifth International Energy and Sustainability Conference on Thursday June 30th and Friday July 1st to the campus of TH Köln in Cologne/Deutz.

In December 2015 the United Nations decided at the climate conference in Paris, France, to limit global warming and to decarbonize the energy system. Our conference discusses pathways and technologies required.

The conference theme will focus on the transition of our today's energy systems towards completely renewable based systems. Due to the nature of intermittent renewable energy resources it is essential to integrate formerly non-integrated systems in order to end up with reliable and economically feasible energy systems. Therefore, the conference will focus on the integration of different energy sectors: electricity sector, heating and cooling sector, transport sector, and also water supply and sewage sector. Moreover, to fulfill future energy system demands also energy storage in all sectors and grid infrastructures as well as energy efficiency topics will be addressed.

We aim to publish the conference proceedings in IEEE Explore. This conference will act as a bridge between original manufacturers and service providers with regard to all relevant technologies. Exhibitors will have an opportunity to display their products and services in an open forum and attendees are encouraged to view a wide range of exhibits. A network of professionals will be in attendance and the potential for job opportunities in the field will be prominent.

Academic scholars will be in attendance from all over the world to share their latest research and achievements in renewable energy and sustainability. Domestic and International University representatives will be exposed to the latest technologies to expand current curriculums with sustainable products.

We hope you can join us on Thursday June 30th and Friday July 1st and participate in TH Köln's and Farmingdale State College's ongoing commitment to Renewable Energy and Sustainability.

Ingo Stadler (TH Köln)

Marjaneh Issapour (Farmingdale State College)

Call for Papers

Topics of interest include, but are not limited to, the following:

Renewable Energy Technologies for Electricity production Photovoltaics Wind Power Hydro Power Use of Bioenergy Geothermal Power Tidal Power Solar Thermal Power	Renewable Energy for Thermal Production Solar Thermal Systems Heat Pump Systems Combined Heat and Power Systems Use of Waste Heat Sewage Heat Recovery	Grid Infrastructure Electricity Transmission Grids Electricity Distribution Grids District Heating Grids Natural Gas Grids Water Supplies Sewage Systems
Energy Storage Technologies Electricity Storage in Batteries, Pumped Hydro, Potential Energy Storage, Supercaps, Coils, etc. Thermal Energy Storage (sensible heat storage, latent heat storage, thermochemical heat storage, cold storage) Chemical Energy Storage	Cross-Sectoral Applications Power-to-Heat Power-to-Gas Power-to-Liquid Power-to-Chemicals Electro-Mobility Fuel Cell Cars Gas Driven Mobility	Energy Management Energy Supply Side Management Energy Demand Side Management Energy Audit Management Feed-in Tariffs Financing Schemes for Renewables
Smart Grids Smart Metering Smart Grid Control SCADA Cyber Security Building Management Systems	Energy Efficiency in... Buildings Green Buildings Mobility Recycling Aspects Industry	Other Water Management Waste Management Environmental Management Environmental impacts of renewable energy Policy Education

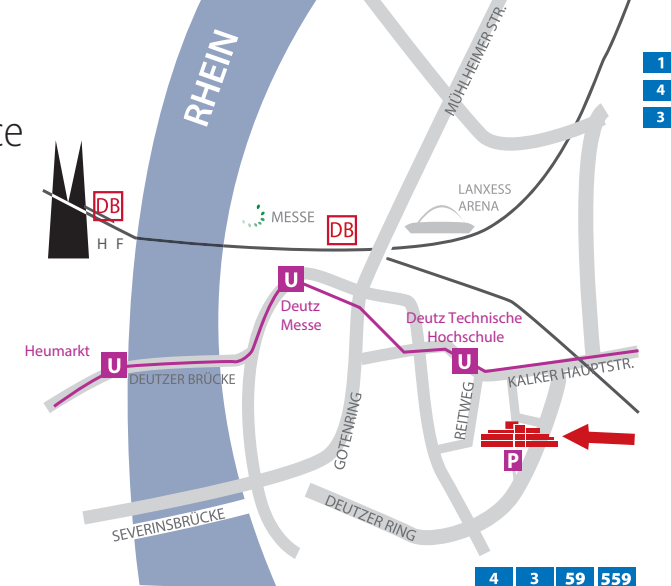
Call for Papers / Registration

Prospective authors are invited to submit original technical papers for oral and poster presentation at the conference. Currently we are in negotiations with IEEE in order to publish papers in IEEE Xplore.

Please register through the website:
www.farmingdale.edu/iesc
and submit your abstracts to rescgreen@farmingdale.edu
and include in the subject line »IESC 2016 abstract paper«

Conference Venue

TH Köln
University of Applied Sciences
Betzdorfer Str. 2
50679 Köln



Conference Fee

If registered until April 17th 2016:	€ 95,00
If registered until May 15th 2016:	€ 120,00
If registered later:	€ 170,00
Students (present their student ID):	€ 50,00

Fees cover admission to all sessions, invitation to all coffee breaks, lunches

Poster Presentation Competition

Join Cologne Institute for Renewable Energy at TH Köln for its Fifth Annual International Energy and Sustainability Conference (IESC). Undergraduate, Graduate, and High School students are invited to participate in the poster presentation competition.

Abstract Submission Deadline: June 15th 2016

Important Dates:

Abstract Submission Deadline	April 17th 2016
Notification of Abstract Acceptance	May 9th 2016
Final Paper Submission	May 30th 2016
Notification of Final Paper Acceptance	June 15th 2016
Deadline for Author Registration	June 16th 2016
Poster Presentation Submission Deadline	June 15th 2016
Conference	June 30th and July 1st