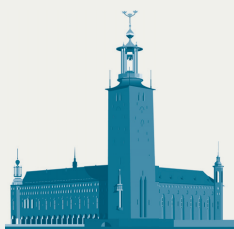
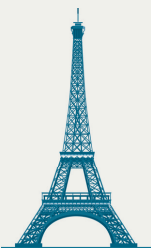


Previous Event Summer School 2011



Stockholm



Paris

SUMMER SCHOOL 2012

SMART ENERGY SYSTEMS

eit Knowledge &
Innovation
Community
EIT ICT Labs



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Imperial College
London

17th - 22nd September



24rd - 28th September

Goals

The primary goal of the Smart Energy Summer School is to foster excellence in SmartGrids, from control systems to computer science and telecommunication, including economic aspects. SmartGrids is a new field that lacks coherent courses at the PhD and the master levels. This is mainly due to its interdisciplinary nature, which makes it necessary to bring together experts from several different fields.

The summer school aims at bringing a very broad training to students from several fields related to smart energy systems. Classes will range from basics of power systems to ICT for large energy systems, communication and security, economical aspects of energy, reliability of power systems, automation, state observers and estimation of systems' parameters, electric vehicles and their impact on the power system among others.

Target audience

The school is open to students from different backgrounds and levels connected to smart energy. The target audience ranges from PhD students working in a field related to smart energy to Master and engineering students in power systems, control systems, signal processing, telecommunications, computer science and economics applied to power systems. Researchers and engineers from companies are welcome, and may greatly benefit from the broad vision provided by this Summer School.

Since there are limited places, preference will be given to PhD students and companies' staff. Master students and engineers will preferably be in their last year to make their participation at the summer school most beneficial.

Costs

For members (students and company staff) of EIT KICs - ICT Labs, InnoEnergy and Climate - the participation, flights and accommodation costs are covered by the EIT ICT Labs.

Preliminary Program 2012

First week – London (17th – 22nd September)

Day	AM		PM	
17	Basics on Power Systems	Innovation Management	Future Scenarios	Project work
18	Basics on Power Systems	Drivers for Smart Grids	Smart Meters and Smart Buildings as Part of Smart Grids	Project work
19	Control of Power Systems	SCADA Systems	Visit and Social Event	
20	Energy Storage		E Vehicles and Transportation as Part of a Smart Grid	Project work
21	Demonstration Projects		Project Presentations	
22	Visit to "the crystal", Siemens			

Second week – Karlsruhe (23rd – 28th September)

Day	AM		PM	
24	Electric Cars and Smart Buildings from ICT viewpoint		Communication Mechanisms	Project work
25	Basics on Power Systems	Agent Based Control	Cloud Computing for Smart Energy Systems	Project work
26	Visit to Siemens Automation	Human Aspects and Interaction	Visit and Social Event	
27	Data Security, Privacy and Regulatory Issues		Economics and European Energy Markets	Project work
28	Virtual Power Plants	New Approaches for Monitoring and Control of LV/MV	Project Presentations	

Registration

All prospective candidates are kindly invited to fill out the registration form online: <http://eit.ictlabs.eu/education/summer-schools>

Deadline: May 31th, 2012. If successfully processed, your registration will be acknowledged by email by June 29th, 2012.

Poster sessions are planned during extended coffee breaks. PhD students and company staff are strongly encouraged to bring a poster for presentation.