



Institute for Fuels and Renewable Energy



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*Warsaw Summer School*

## **SUSTAINABLE URBAN ENERGY CONCEPTS**

*31 August - 4 September 2009*

### **Contact persons:**

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### **Background and Aim:**

The seminary is organised in the framework of **Polycity** project. The goal of the project is the reduction of fossil fuel consumption through energy efficient buildings and an increased use of renewable energy. The project handled different aspects of urban conversion in three European locations: Barcelona/Spain, Torino/Italia, Stuttgart/Germany.

The purpose of the seminary is to transfer the project results/knowledge to young scientists from Central and Eastern European countries as well as to general public.

Presentations of technologies, logistic, sources, policy and legislation aspects will be provided as well as the training in modelling of energy systems. Additionally there will be work in groups organized to identify and investigate research and technological problems of energy management in urban areas and the discussion about future of research. Presentations and training will be provided by experts from EU research organizations.



## Experts providing the training:

Expert	Institution	Acronym
<b>Magdalena Rogulska</b>	Institute for Fuels and Renewable Energy	IPiEO
<b>Ewa Kochańska</b>	The Association of Economic Consultants Pro-Akademia	AEC PA
	Universitat Rovira i Virgili	CREVER
<b>Christian Strauss</b>	Fraunhofer Center for Central and Eastern Europe	Fraunhofer MOEZ
<b>Aneta Strzałka</b>	Centre for Applied Research – Sustainable Energy Technology	zaft.net
<b>Krystian Kurowski</b>	Institute for Fuels and Renewable Energy	IPiEO
<b>Stanisław Gołębiowski</b>	Institute for Fuels and Renewable Energy	IPiEO
<b>Stanisław Pietruszko</b>	Warsaw Technical University	IPiEO
<b>Michele Tartaglia</b>	Politecnico di Torino	PoliTO
<b>Luca Giaccone/Paolo Lazzeroni</b>	Politecnico di Torino	PoliTO

## Programme:

### *Monday, 31 August 2009*

<b>16.00-17.00</b>	<b>Registration</b>
19.00	Dinner and Old Town sight-seeing

### *Tuesday, 1 September 2009: Supply Side*

<b>9.00</b>	<b>Welcome and opening of the seminar.</b> Magdalena Rogulska, IPiEO, Poland
<b>9.30</b>	<b>Polygeneration Technologies and Experiences</b> Crever, Spain, tbc
10.30	Coffee break
<b>10.45</b>	<b>Legislation in Europe and in Poland concerning RES and energy efficiency.</b> Magdalena Rogulska, IPiEO, Poland
<b>11.45</b>	<b>Integration of renewable energy issues In local planning process</b> Ewa Kochańska, AEC PA, Poland
12.45	Lunch break
<b>13.45</b>	<b>Bioenergy – sources, supply chains, technologies and balances of the energetic use of biomass</b> Gdańsk Technical University (tbc) and IPiEO
14.45	Coffee break
<b>15.00</b>	<b>Sustainable Urban Energy Concepts</b> IPiEO, Poland
	<b>Sustainable Urban Energy Concepts – example</b> Christian Strauss, Fraunhofer MOEZ, Germany

***Wednesday, 2 September 2009: Demand Side***

9.30	<b>Electrical impact of photovoltaic plants in distributed networks</b> PoliTO, Italy (tbc)
10.30	Coffee break
10.45	<b>Energy efficient buildings</b> zaft.net
11.45	<b>Solar thermal systems</b> S. Gołębiowski, K. Kurowski IPiEO, Poland
12.45	Lunch break
13.45	<b>Sustainable cooling</b> Crever, zaft.net
14.45	Coffee break
15.00	<b>The GIS based consumption monitoring of buildings in Scharnhauser Park</b> Aneta Strzalka, zaft.net

***Thursday, 3 September 2009: Management of energy systems***

9.30	<b>Building Integrated Photovoltaics</b> Stanisław Pietruszko, PW
10.30	Coffee break
10.45	<b>Performance optimization of innovative energy systems</b> PoliTO, Italy (tbc)
12.45	Lunch break
12.45	<b>training in modeling of energy systems</b>
13.45	Coffee break
14.00	<b>Work in groups - identification and investigation of research and technological problems of energy management in urban areas</b>
15.00	<b>Summary of groups work/ Discussion about future of research</b>

***Friday, 4 September 2009***

11.30	<b>Summary of the summer school</b> IPiEO, Poland
12.00	Lunch Departure of participants  <b>Alternative:</b> study tour to visit some examples of RES implementation in urban area