



Programme funded by the  
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# INTERNATIONAL SUMMER SCHOOL

## Advanced Concepts and Perspectives on the Management of Renewable Energy Sources

15 - 25 August 2012  
Constanta, Romania



## ORGANISATION AND SCOPE

The International Summer School on "Advanced Concepts and Perspectives on the Management of Renewable Energy Sources" is organized by the ARGOS Project Consortium that includes the following partners: "Ovidius" University of Constanta, Taurida National University, Istanbul Technical University, Technical University of Moldova, Technical University of Varna, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) and Black Sea Universities Network.

The main objective of the ARGOS project: "BSUN Joint MASTER Degree Study Program on the Management of Renewable Energy Sources (RES)" is to achieve stronger regional partnership and cooperation between the universities from the Black Sea Basin by the implementation of a joint Master Degree Program on the Management of RES and sustainable development of the region.

The International Summer School on "Advanced Concepts and Perspectives on the Management of Renewable Energy Sources" is intending the development of cross border exchange activities facilitating direct contacts between students and professors involving them in teaching, learning and joint studies together with companies that are acting in the RES.

The ARGOS Project is financed under the Joint Operational Programme BLACK SEA BASIN 2007-2013, Contract 1.3.1.66334.127, MIS-ETC 277 no. 44553/8.06.2011.

## **OBJECTIVES**

The objectives of the International Summer School are as following:

- ❖ To provide knowledge beyond the state of the art on the advanced concepts in the field of management of RES;
- ❖ To facilitate the information exchange regarding the potential of RES, regulations, environmental issues and best practices through joint courses, seminars and case studies;
- ❖ The promotion of research and innovation in the field of RES by joint teams of students;
- ❖ To facilitate the sharing of the e-learning resources and IT&C facilities dedicated to the educational process;
- ❖ To improve the quality in education by the exchange of best practices and external peer reviewed process;

## **TARGETED AUDIENCE**

The International Summer School is aimed at:

- ❖ Master students (with a BSc in the Management of RES, Systems Engineering with RES)
- ❖ Young professionals and junior researchers including PhD students from academia and industry

## TOPICS

- ❖ Evaluation methods of RES;
- ❖ Advanced technologies, processes and materials applied to systems with RES;
- ❖ New experimental investigation methods;
- ❖ Multiscale, multiphysics modeling and simulations on systems with RES;
- ❖ Risk assessment, vulnerabilities and the environmental impact of RES;
- ❖ Ecosystem services, eco-innovation, environmental restoration based on systems with RES;
- ❖ Cost analysis, advanced methods of economic analysis, exergo-economics and other similar approaches for systems with RES;
- ❖ Project management, quality assurance and other concept for the management of projects dedicated to RES.

## **SCIENTIFIC AND ORGANISING COMMITTEE**

Prof. Larisa Bugaian- Technical University of Moldova, Republic of Moldova

Prof. Eden Mamut - "Ovidius" University of Constanta, Romania

Prof. Alim Mazinov- Taurida National University Ukraine, Ukraine

Dr. Anna Moreno - Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy

Prof. Vencislav Valchev- Technical University of Varna, Bulgaria

Prof. Nilgun Yavuz- Istanbul Technical University, Turkey

## **REGISTRATION**

Applicants should register with "Ovidius" University of Constanta

Prof. Eden Mamut- [emamut@univ-ovidius.ro](mailto:emamut@univ-ovidius.ro)

Dr. Elena Rita Avram- [ravram@univ-ovidius.ro](mailto:ravram@univ-ovidius.ro)

Ana-Maria Paizan - [apaizan@univ-ovidius.ro](mailto:apaizan@univ-ovidius.ro)

## **VENUE, LOGISTICS AND ACCOMODATION**

Venue: "Ovidius" University of Constanta, 124 Mamaia Av., Constanta, Romania

Information on logistics and accommodation will be supplied by "Ovidius" University of Constanta.

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## Preliminary program

Hour	Type	Wednesday- August 15 <sup>th</sup> , 2012	Thursday – August 16 <sup>th</sup> , 2012	Friday – August 17 <sup>th</sup> , 2012	Saturday- August 18 <sup>th</sup> , 2012	Sunday-August 19 <sup>th</sup> , 2012		
9.00-9.50	Lecture	<b>Guest arrival</b>	<b>George TSOTRIDIS,</b> <i>Joint Research Center, Institute of Energy and Transport, The Netherlands</i>	<b>Advanced Concepts of Low Energy Consumption Buildings, “passive house” and “energy +” Buildings</b> <i>Prof. Dr. Adrian BADEA- Polytechnic Univ., Romania</i>	Technical visit at the Constanta South Waste Water Treatment Plant			
9.50-10.00	Break		Break	Break				
10.00-10.50	Lecture		<b>The role of RES on Sustainable Development</b> <i>Prof. Dr. Adrian BADEA- Polytechnic Univ., Romania</i>	<b>Prospects on Renewable Alternative Sources in Azerbaijan</b> <i>Prof. Dr. Shahverdiyev ASTAN- Azerbaijan Technical Univ., Azerbaijan</i>				
10.50-11.00	Break		Break	Break				
11.00- 11.50	Lecture		<b>The Potential of Renewable Energy Sources</b> <i>Prof. Dr. Eden MAMUT-Ovidius University of Constanta, Romania</i>	<b>Wind Resource Assessment</b> <i>Assist. Prof. Plamen Valentinov Yankov, Technical Univ. of Varna, Bulgaria</i>			Technical visit at the Waste Co-incineration Platform of the Cement Factory Lafarge SRL Medgidia	
11.50-12.00	Break		Break	Break				
12.00-12.50	Lecture		<b>Development of Competencies for RES</b> <i>Cristian NANU-Business Development Group, Romania</i>	<b>Wind Energy Technologies</b> <i>Assist. Prof. Plamen Valentinov Yankov, Technical Univ. of Varna, Bulgaria</i>				
13.00-15.00	Lunch		Lunch	Lunch				
15.00-16.00			Students’ Activities	Students’ Activities				Technical visit at the Monsoon Wind Park
16.00-17.00			Students’ Activities	Students’ Activities				
17.00-17.10	Wrap	<b>Welcome cocktail</b>	Wrap-up Thursday	Wrap-up Friday		Free day (Trip to Danube Delta)		

Hour	Type	Monday – August 20 <sup>th</sup> , 2012	Tuesday – August 21 <sup>st</sup> , 2012	Wednesday– August 22 <sup>nd</sup> , 2012	Thursday – August 23 <sup>rd</sup> , 2012	Friday- August 24 <sup>th</sup> , 2012
9.00-9.50	Lecture	<b>Advanced Materials for Energy Systems</b> <i>Prof. Dr. Ioan STAMATIN-University of Bucharest, Romania</i>	<b>Evaluation of the Experimental Measurements on Wind Energy Potential</b> <i>Prof. Dr. Adrian TULBURE-Univ. Alba Iulia, Romania</i>	<b>Energy Positive Waste Water Treatment Plants,</b> <i>Prof. Dr. Otto NOWAK- FH Joanneum, Austria</i>	<b>Fuel Cells Technologies</b> <i>Prof. Dr. Nilgun YAVUZ-Istanbul Technical University, Turkey</i>	<b>New Experimental Investigations Methods</b> <i>Asst. Prof. Misirkhan Talibov-Azerbaijan Technical Univ., Azerbaijan</i>
9.50-10.00	Break	Break	Break	Break	Break	Break
10.00-10.50	Lecture	<b>Bio-fuel Cells</b> <i>Prof. Dr. Ioan STAMATIN-University of Bucharest, Romania</i>	<b>Solar Thermal Conversion</b> <i>Assist. Prof. Venelin Gergiev PAVLOV</i>	<b>Current Concerns on Energy and Water</b> <i>Prof. Dr. Otto NOWAK- FH Joanneum, Austria</i>	<b>Hydrogen Energy Technologies</b> <i>Dr. Suha YAZICI-UNIDO-ICHET, Turkey</i>	<b>TBC</b> <i>Prof. Dr. Alim MAZINOV-Ukraine</i>
10.50-11.00	Break	Break	Break	Break	Break	Break
11.00- 11.50	Lecture	<b>Modern Technologies for Energy Production from Biomass,</b> <i>Prof. Dr. Valentin ARION, Technical Univ. of Moldova, Republic of Moldova</i>	<b>Photovoltaic Systems</b> <i>Assist. Prof. Venelin Gergiev PAVLOV</i>	<b>Molten Carbonate Fuel Cell Technologies</b> <i>Dr. Angelo Moreno- ENEA, Italy</i>	<b>Applications with Fuel Cells</b> <i>Dr. Osman Malik ATANUR-UNIDO-ICHET, Turkey</i>	<b>TBC</b> <i>Prof. Dr. Alim MAZINOV-Ukraine</i>
11.50-12.00	Break	Break	Break	Break	Break	Break
12.00-12.50	Lecture	<b>Economics of Renewable Energies</b> <i>Prof. Dr. Valentin ARION, Technical Univ. of Moldova, Republic of Moldova</i>	<b>Modelling and simulations methods</b> <i>Prof. Dr. Eden MAMUT-Ovidius University of Constanta, Romania</i>	<b>Carbon Capture and Sequestration</b> <i>Dr. Angelo Moreno- ENEA, Italy</i>	<b>Alternative Fuels for Road Vehicles</b> <i>Prof. Dr. Nafiz KAHRAMAN- Mustafa Cikrikcioglu Kayseri, Turkey</i>	<b>Perspectives on the Conversion of the Wave Energy</b> <i>Prof. Dr. Eden MAMUT-Ovidius University of Constanta, Romania</i>
13.00-15.00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
15.00-16.00		Students' Activities	Match making of cross-border students and planning of mobility activities	Practical presentations	Practical presentations	Students' Activities
16.00-17.00		Students' Activities		Practical presentations	Practical presentations	Practical presentations
17.00-17.10	Wrap	Wrap-up Monday	Wrap-up	Wrap-up	Wrap-up	Wrap-up