



EUROPEAN UNION



"BSUN Joint Master Degree Study Program on the Management of Renewable Energy Sources - ARGOS"

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Beneficiary: "Ovidius" University of Constanta

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Joint Operational Programme "BLACK SEA BASIN 2007-2013"

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, which 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 a 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 the sustainable development of the region.

The International Summer School on "Advanced Concepts and Perspectives on the Management of Renewable Energy Sources" aims 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 acting in the field of Management of 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 the 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;
- ❖ To promote 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 reviewing processes;

TARGETED AUDIENCE

The International Summer School is designed for:

- ❖ Students involved in Master Degree Programs
- ❖ 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 and 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 concepts 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

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

Dr. Elena Rita Avram - ravram@univ-ovidius.ro

Ana-Maria Paizan - apaizan@univ-ovidius.ro

VENUE, LOGISTICS AND ACCOMMODATION

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 th , 2012	Thursday – August 16 th , 2012	Friday – August 17 th , 2012	Saturday- August 18 th , 2012	Sunday-August 19 th , 2012
9.00-9.50	Lecture	Arrival of participants & Administrative Activities	Opening Ceremony Prof. Dr. Larisa BUGAIAN Prof. Dr. Eden MAMUT Assist. Prof. Plamen YANKOV Prof. Dr. Nilgün Yavuz	Advanced Concepts of Low Energy Consumption Buildings, “passive house” and “energy +” Buildings Prof. Dr. Adrian BADEA - Univ. Politehnica of Bucharest, Romania	Technical visit at the RAJA Constanta South Waste Water Treatment Plant	Free day (Trip to Danube Delta)
9.50-10.00	Break		Break	Break		
10.00-10.50	Lecture		The role of RES on Sustainable Development Prof. Dr. Adrian BADEA - Univ. Politehnica of Bucharest, Romania	Prospects on Renewable Alternative Sources in Azerbaijan Prof. Dr. Shahverdiyev ASTAN - Azerbaijan Technical Univ., Azerbaijan		
10.50-11.00	Break		Break	Break		
11.00- 11.50	Lecture		Methods for Assessing the Potential of Renewable Energy Sources Prof. Dr. Eden MAMUT - Ovidius University of Constanta, Romania	Wind Resource Assessment Assist. Prof. Plamen Valentinov YANKOV, Technical Univ. of Varna, Bulgaria	Technical visit at the Waste Co-incineration Platform of the Cement Factory Lafarge SA, Medgidia	
11.50-12.00	Break		Break	Break		
12.00-12.50	Lecture		Development of Human Resources and Competencies for RES Ciprian NANU - Business Development Group, Romania	Wind Energy Technologies Assist. Prof. Plamen Valentinov YANKOV, Technical Univ. of Varna, Bulgaria		
13.00-15.00	Lunch		Lunch	Lunch	Technical visit at the Monsson Wind Park	
15.00-16.00			Students’ Activities	Students’ Activities		
16.00-17.00			Students’ Activities	Students’ Activities		
17.00-17.10	Wrap-up	Welcome cocktail	Wrap-up Thursday	Wrap-up Friday		

Hour	Type	Monday – August 20 th , 2012	Tuesday – August 21 st , 2012	Wednesday– August 22 nd , 2012	Thursday – August 23 rd , 2012	Friday- August 24 th , 2012
9.00-9.50	Lecture	Advanced Materials for Energy Systems <i>Prof. Dr. Ioan STAMATIN - University of Bucharest, Romania</i>	Certified Measurements for Wind Energy Potential <i>Assoc. Prof. Dr. Adrian TULBURE - Univ. Alba Iulia, Romania</i>	Energy Positive Waste Water Treatment Plants, <i>Prof. Dr. Otto NOWAK - FH Joanneum, Austria</i>	Fuel Cells Technologies <i>Prof. Dr. Nilgün YAVUZ - Istanbul Technical University, Turkey</i>	New Experimental Investigations Methods <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	Bio-fuel Cells <i>Prof. Dr. Ioan STAMATIN - University of Bucharest, Romania</i>	Solar Thermal Conversion <i>Assist. Prof. Venelin Georgiev PAVLOV, Technical Univ. of Varna, Bulgaria</i>	Current Concerns on Energy and Water <i>Prof. Dr. Otto NOWAK - FH Joanneum, Austria</i>	Hydrogen Energy Technologies <i>Dr. Suha YAZICI - UNIDO-ICHET, Turkey</i>	Cartographic & Experimental Analysis of Spatial and Time Distribution of Solar Energy in Crimea <i>Prof. Dr. Alim MAZINOV – Taurida National University, Ukraine</i>
10.50-11.00	Break	Break	Break	Break	Break	Break
11.00- 11.50	Lecture	Modern Technologies for Energy Production from Biomass, <i>Prof. Dr. Valentin ARION, Technical Univ. of Moldova, Moldova</i>	Photovoltaic Systems <i>Assist. Prof. Venelin Georgiev PAVLOV, Technical Univ. of Varna, Bulgaria</i>	Molten Carbonate Fuel Cell Technologies <i>Dr. Angelo MORENO - ENEA, Italy</i>	Applications with Fuel Cells <i>Dr. Osman Malik ATANUR - UNIDO-ICHET, Turkey</i>	Landscapes Energetics of the Crimea Region <i>Prof. Dr. Alim MAZINOV – Taurida National University, Ukraine</i>
11.50-12.00	Break	Break	Break	Break	Break	Break
12.00-12.50	Lecture	Economics of Renewable Energies <i>Prof. Dr. Valentin ARION, Technical Univ. of Moldova, Republic of Moldova</i>	Modelling and Simulations Methods <i>Dr. Elena Rita AVRAM - Ovidius University of Constanta, Romania</i>	Carbon Capture and Sequestration <i>Dr. Angelo MORENO- ENEA, Italy</i>	Alternative Fuels for Road Vehicles <i>Prof. Dr. Nafiz KAHRAMAN - Mustafa Cikrikcioglu University, Kayseri, Turkey</i>	Perspectives on the Conversion of the Wave Energy <i>Laurentiu OANCEA - Ovidius University of Constanta, Romania</i>
13.00-15.00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
15.00-16.00		Students' Activities	Matchmaking of cross-border students and planning of mobility activities	Presentation of New Generation of Biomass Incinerators and Boilers <i>Eng. Iuliean HORNET, ECOHORNET</i>	Demonstration activities with ECO-KARAVAN <i>Dr. Suha YAZICI</i>	Evaluation of the Summer School Activities
16.00-17.00		Students' Activities		Specific Aspects in the implementation of Wind Farm Projects in Dobrogea <i>Eng. Sebastian ENACHE, Wind Power Energy, Romania</i>	<i>Dr. Osman Malik ATANUR</i> <i>Mr. Fatih Kavlu</i> <i>UNIDO-ICHET, Turkey</i>	ARGOS Consortium Meeting
17.00-17.10	Wrap--up	Wrap-up Monday	Wrap-up Tuesday	Wrap-up Wednesday	Wrap-up Thursday	Wrap-up Friday