

PROGRAM



THE NATIONAL CONFERENCE OF NEW AND RENEWABLE ENERGY SOURCES 18th Edition

TARGOVISTE, 28—29 NOVEMBER 2019

<http://cnsnre2019.valahia.ro>

Thursday, 28th November 2019

Institute of Multidisciplinary Research for Science and Technology (ICSTM) from VALAHIA University of Targoviste, Aleea Sinaia, 13, Targoviste

09:30	Registration of participants , ICSTM, Amphitheater, ground floor
10:00	OPENING OF THE CONFERENCE Prof. Gabriela TEODORESCU , Valahia University of Targoviste, Vice-rector in charge with University Research and Creation Prof. Nicolae OLARIU , Valahia University of Targoviste, Director of the Energy Environment Research Department Prof. Ion VIȘA , Transilvania University of Brasov, Coordinator of the Renewable Energy Systems Group Senior researcher Ph.D. Gimi Aurelian RÎMBU , National Institute for R&D in Electrical Engineering ICPE-CA, Head of Research Group for Efficiency in Electrochemical Energy Conversion and Consume Eng. Manuela DRĂGHICESCU , Manager of the Employers Association New Energy Sources - SUNE
10:30	PLENARY PRESENTATIONS
10:30	<i>Research and Technological Development at IFIN-HH and ELI-NP</i> Senior Researcher Ph.D. Dan Gabriel GHIȚĂ , Coordinator of the Technical Division ELI-NP
11:00	<i>Multiscale & Multiphysics Modeling and Optimization of Fuel Cell Energy Systems</i> Prof. Eden MAMUT , Ovidius University of Constanta, Faculty of Mechanical, Industrial and Naval Engineering
11:30	<i>The Influence of the Solar Thermal Collectors Integrated in the Building Façade, on the Building Thermal Energy Demand across Europe</i> Assoc. Prof. Macedon MOLDOVAN , Transilvania University of Brașov, Department of Product Design, Mechatronics and Environment
12:00	<i>Microbial Fuel Cells – A Renewable Energy Related Technology</i> Senior researcher Ph.D. Gimi Aurelian RÎMBU , National Institute for R&D in Electrical Engineering ICPE-CA
12:30	<i>Assessment of a Data Center Microgrid with Storage and Photovoltaic Generation</i> Scientific Researcher Ph.D. Dorin LETȚ , Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology
13:00	BUFFET
SCIENTIFIC SECTION: RENEWABLE ENERGY DEVELOPMENT AND INNOVATIVE APLICATIONS ICSTM, Amphitheater, ground floor Chairman: Prof. Nicolae OLARIU	
14:00	<i>Antistatic Films Integrating Nanostructured Particles for Improving the Efficient Operation of Solar Thermal Panels,</i> Assoc. Prof. Gabriel PRODAN, P. IVAN, C. TACCIU, Prof. Eden MAMUT Ovidius University of Constanta, Faculty of Mechanical, Industrial and Naval Engineering
14:20	<i>Heat and Power Generation using Hybrid Solar Panel Solutions</i> Lecturer Ph.D. Cosmin BUCUR, Drd. Ing. Laurențiu OANCEA, Prof. Eden MAMUT Ovidius University of Constanta, Faculty of Mechanical, Industrial and Naval Engineering
14:40	<i>Aeration System of Water Passing through Hydraulic Turbines</i> Senior researcher Ph.D. Florentina BUNEA , National Institute for R&D in Electrical Engineering ICPE-CA
15:00	<i>“Zero Emission & Zero Waste” the integrated BIO - Energy Concept for Romania</i> Axel Weber , Executive chairman & owner ZEE GMBH Germany, Loredana Paoulos STUPINEAN , CEO ZEE România
15:20	COFFEE BREAK

15:40	Hydrogen - as an energy storage medium in the industry Senior Researcher Ph.D. Victor PETCU, Millenia Advisor Bucharest Dipl. Eng. Hans Marius SCHUSTER, CEO ARENA INNOVATION Germany GMBH
16:00	The use of water towers for hydroelectric power generation Researcher Ph.D. Viorel MIRON ALEXE, Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology
16:20	Environmental Sustainability – Premise for the Implementation of Wireless Power Transfer in Energy Autonomy Assoc. Prof. Adela Gabriela HUSU, Prof. Florin Mihail STAN, Drd. Ing. Nicolae FIDEL Valahia University of Targoviste, Faculty of Electrical Engineering, Electronics and Information Technology
16:40	CONCLUSIONS AND DISCUSSIONS

WORKSHOP

"IoT in Education. Smart Objects for Smart Communities"

Campus UVT, Building A, 1st floor, Room A107

14:00	Moderator: Assoc. Prof. Ana-Maria Suduc, Prof. Gabriel GORGHIU , Valahia University of Targoviste The aim of the Workshop is to improve school activities from different points of view by introducing and developing a number of elements / applications / methods: 1. <i>Security (smart security) - for monitoring the activity of the students and by offering help, if appropriate;</i> 2. <i>Educational applications, powerful and creative tools that increase students' motivation and help in teaching abstract and complex topics;</i> 3. <i>Interactive Learning - Interaction specific to smart devices can help to better understand the concepts taught.</i>
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Friday, 29th November 2019

Institute of Multidisciplinary Research of Science and Technology (ICSTM) from VALAHIA University of Targoviste, Aleea Sinaia, 13, Targoviste,

09:00	POSTERS SECTION I: RENEWABLE ENERGY – INNOVATION, MANAGEMENT AND CONTROL ICSTM, ground floor
	1.1. BIPV - Characteristics of Innovative Applications from Targoviste Gabriela MĂNTEȘCU, Dorin LEȚ, Alin BUCURICĂ Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology
	1.2. Waste Management based on Maximizing the Use of Renewable Resources in the Production Processes Mihaela Leasa LIXANDRU Valahia University of Targoviste, IOSUD
	1.3. Control over Administrative Decisions Abd Al Kareem Al QAISY Valahia University of Targoviste, IOSUD
	1.4. Experimental and Numerical Study of a Biomass-fuelled CHP System using Stirling Engine Cătălina Georgiana DOBRE, Mihaela CONSTANTIN University Politehnica of Bucharest, Department of Thermotechnics, Engines, Thermal and Refrigerating Equipment's
	1.5. Thermal Analysis, Design and Economical Considerations of PV Modules Gabriela MĂNTEȘCU, Paul Ciprian PATIC, Denisa Mihaela COMAN Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology
	1.6. Prototype of Dye-sensitized Solar Cell – Design and Photovoltaic Characterization Radu Lucian OLTEANU, Iulian BĂNCUȚĂ, Gabriela MĂNTEȘCU, Dorin LEȚ Valahia University of Targoviste, Institute of Multidisciplinary Research for Science and Technology
	1.7. Experimental Study of the Performance and Prediction of Cavitation Phenomenon for a Variable Speed Centrifugal Pump Ammar ALMASLAMANI, Mihaela CONSTANTIN, Nicolae BĂRAN University Politehnica of Bucharest, Department of Thermotechnics, Engines, Thermal and Refrigerating Equipment's

I.8. Analysis and Optimization of a Solar Stirling Engine

Cătălina Georgiana DOBRE, Mihaela CONSTANTIN

University Politehnica of Bucharest, Department of Thermotechnics, Engines, Thermal and Refrigerating Equipment's

I.9. Wood Lathe Machine Analyzing by using Taguchi robust method

Ammar ALMASLAMANI, Mihaela CONSTANTIN, Nicolae BĂRAN

Politehnica of Bucharest, Department of Thermotechnics, Engines, Thermal and Refrigerating Equipment's

I.10. Application of the Direct Method from Finite Speed Thermodynamics, in the Evaluation of the Isentropic Efficiency of the Reversed Quasi-Carnot Irreversible Cycle

Cătălina Georgiana DOBRE, Mihaela CONSTANTIN, Stoian PETRESCU

University Politehnica of Bucharest, Department of Thermotechnics, Engines, Thermal and Refrigerating Equipment's

SCIENTIFIC SECTION II, ICSTM, Amphitheater, ground floor

10:00	<i>Simulated vs. Produced Electrical Energy of a 9.6 kWp PV System Installed in a Mountain Temperate Climate</i> Assoc. Prof. Bogdan BURDUHOS, Prof. Ion VIȘA, Prof. Mircea NEAGOE, Lecturer Nadia CREȚESCU Transilvania University of Brașov, Renewable Energy Systems and Recycling (RESREC) R&D Centre
10:30	WORKSHOP: " SUSTAINABLE DEVELOPMENT OF LOCALITIES " ICSTM, Amphitheater, ground floor <i>"Elaborarea unei politici publice alternative la politicile publice inițiate de Guvern în domeniul locuirii durabile, prin promovarea de soluții care să conducă la creșterea accesibilității clădirilor de locuit de tip NZEB" - Developing an alternative public policy to the public policies initiated by the Government in the field of sustainable housing, by promoting solutions that lead to increasing the accessibility of type NZEB residential buildings</i> Moderators: Eng. Claudiu Eugen GEORGESCU , President of the Association of Manufacturers of Construction Materials from Romania Eng. Manuela DRĂGHICESCU , Manager of the Employers Association New Energy Sources - SUNE <i>"Inovare si transfer tehnologic - instrumente de finantare europene - EU FINANCIAL INSTRUMENTS - DEBT AND EQUITY INSTRUMENTS FOR INNOVATION "</i> Moderator: Prof. univ. dr. Alexandru MARIN , EU IPR Helpdesk Ambassador, Director of the Technology Transfer Office, University Politehnica of Bucharest
12:30	BUFFET
13:30	DISCUSSIONS AND CONCLUSIONS
14:00	VISIT TO THE LABORATORIES OF THE INSTITUTE OF MULTIDISCIPLINARY RESEARCH FOR SCIENCE AND TECHNOLOGY FROM VALAHIA UNIVERSITY OF TARGOVISTE



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