

**“MIRCEA CEL BATRAN” NAVAL ACADEMY**

**SEA - CONF 2018**  
**4<sup>th</sup> INTERNATIONAL CONFERENCE**



**May 17<sup>th</sup> – 19<sup>th</sup>, 2018**  
**Constanta**

**ISSN 2457-144X**  
**ISSN-L 2457-144X**

# **PROGRAMME**

## **17th of May**

12.00-20.00 Participants arrival. Accommodation.  
Preliminary information.

## **18th of May**

09.00-10.00 Reception and Registration  
10.00-13.00 Opening Ceremony/ Plenary Session  
13.00-14.00 Tour of Naval Academy  
14.00-15.00 Lunch  
15.00-18.00 Section Works  
18.30-21.30 Cocktail

## **19th of May**

09.00-13.00 Cruise/Cocktail on board the "Mircea" Training  
Ship  
13.00-20.00 Departure of participants

## INVITED SPEAKER

### ION VISA

Transilvania University of Brasov, R&D Centre Renewable Energy Systems and Recycling, RESREC

**Author Bio.** Prof. Dr. Eng. Ion Visa is full professor in the Transilvania University of Brasov, Romania and Manager of the R&D center: Renewable Energy Systems and Recycling, RESREC. Starting with 1992 he was elected as Head of Department (Machine Elements, Mechanisms and Robotics), Vice-Dean and Dean (Technological Engineering Faculty), Rector (Transilvania University of Brasov) and General Manager of the R&D Institute of the Transilvania University. He has a broad experience in the design, modeling and development of mechanical systems and in their applications in renewable energy systems, with a focus on solar energy conversion systems implemented in sustainable communities. Since 1998, he is Ph.D. supervisor in Mechanical Engineering. He published over 250 papers and over 25 books, and was involved in more than 50 grants financed at European and national levels, among which he coordinated over 30. Among these, it is the 20 million EUR grant financed through structural funds, that supported the development of the R&D Institute of the Transilvania University of Brasov (2009-2012), built up as a *Nearly Zero Energy Community*.

He is the promoter, at national level, of the study programs of Engineering of Renewable Energy Systems (B.Sc. level) and Product Design for Sustainable Development and Environment (M.Sc. level). He is Chair of the Technical Committee “Sustainable Energy Systems” in the International Federation for the Science of Machines and Mechanisms (IFTToMM) and Vice-president for the European Sustainable Energy Innovation Alliance (ESEIA). Prof. Visa is DHC of the Bloomfield College, United States. Since 2013 he is member of the Romanian Academy for Technical Sciences and since 2011 of the Romanian-American Academy.

#### **Plenary paper: Comparative analysis of solar-thermal systems implemented in the built environment and on ships**

The presentation focuses on two specific applications of the solar-thermal collectors (in the built environment and on the ships) and develops a comparative discussion on the solutions to be found for the key issues that are currently limiting the implementation of solar-thermal systems. One common issue to be solved in both applications is related to the available implementation area that is quite limited, due to the architectural and/or functional constraints. This asks in both applications for novel solar-thermal collectors with non-traditional, non-rectangular shapes that can well cover various suitably oriented surfaces, as buildings’ facades or components of the ships. Thus, two novel types of collectors, with trapeze and triangle shapes, are presented and discussed in terms of solar-thermal conversion efficiency and coverage degree of various implementation areas. Details on the architectural integration of variously coloured collectors are additionally discussed. There is one main difference between the two applications, related to the specific parameters of the implementation location that are constant and unchanged for buildings and are highly variable for ships. To solve these issues, there are introduced novel, specific tracking systems and tracking algorithms applied to the solar-thermal arrays, to collect the maximum amount of solar radiation when this is available, also considering the seasonal and diurnal variability in the solar to thermal energy production.

## PLENARY PAPERS

Nr. crt.	Paper title	Author	University
1.	Load Profile of Typical Residential Buildings in Bulgaria	Nicola Mihaylov	University of Ruse Angel Kanchev, Bg
2.	Establishment the optimal apparent power of electric transformer using the economical criteria	Leon Pana	University of Petrosani, Ro
3.	Study the parameters of a petrol engine using analysis of variance	Constantin Ovidiu Ilie	Military Technical Academy, Ro
4.	Reinforcement Learning: The Application to Autonomous Biomimetic Underwater Vehicles Control	José Magalhães	Escola Naval, Portugal
5.	Three-layer informatics solution data model design for demand response in the smart grid context	Simona-Vasilica Oprea	Bucharest University of Economic Studies, Ro
6.	Modelling simulation of the thermal field for the heat transfer in environments with discontinuities	Bogdan Dumitru	University "Politehnica" of Bucharest, Ro

# SCIENTIFIC COMMITTEE

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Developments in Electrical Engineering, Automation and Advances in Computer Science

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## **Mechanical Engineering Section**

Developments in Mechanical Engineering. Advances in Naval Engineering

### **Room EP 26**

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### **Developments in Mechanical Engineering. Advances in Naval Engineering**

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