



STIINTA
& TEHNICĂ



INSPECTORATUL ȘCOLAR JUDEȚEAN
CONSTANȚA

ENERGY
INNOVATION
CHALLENGE



2019

BSUN Energy Innovation Challenge 2019

*Competition of Projects, Business Plans & Innovative Start-up Ideas
in the Field of Sustainable Energy Solutions*

November 29th, 2019

Motto:

„Before learning to learn, start learning to fly!”

On the occasion of the Global Entrepreneurship Week, the Black Sea Universities Network shall organize in collaboration with different BSUN member universities, several dedicated events. In this context, the event that shall be organized in Constanta, Romania is to put in forefront the problem of developing the entrepreneurial dimension of the students to emphasize the need for development of skills and the abilities in this field.

The event from Constanta shall be organized in cooperation with Constanta County School Inspectorate (ISJ Constanta) and “Ovidius” University of Constanta, with the support of the Editorial Board of the “Science and Technique” Journal and shall be hosted by the “Ovidius” High School of Constanta.

Official sponsor – Monsson Group



The event shall be addressed to the students from BSUN member universities, but also to the students from other universities, to students from different high schools and young graduates.

The topic of the event is dedicated to the field of sustainable energy, the promotion of value chains based on decarbonized technologies, the use of advanced materials for increasing the efficiency for the systems of conversion and conservation of energy, the promotion of IT technologies and the use of smart grid through ecoinnovative solutions.

Concept

The event consists on the following components: a plenary session which will introduce the current status of entrepreneurship in the energy sector, a session of posters with innovative business proposals and ideas of start-ups in promoting the solutions for power supply and use, a contest of business ideas in the front of a panel of evaluators and a Workshop on *"Advanced Materials and IT&C Technologies for Intelligent Energy Systems"*.

Aim

The event is aiming to enhance the entrepreneurial and innovative potential of the young generation based on education and scientific research in the field of sustainable energy production and use. The attendance of such a competition has the benefit for the young potential entrepreneurs to get acquainted on future challenges and activities in order to facilitate the initiation of successful start-ups.

Partners

This competition is organized by Black Sea Universities Network together with "Ovidius" University of Constanta – The Faculty of Mechanical, Industrial, and Maritime Engineering, and the Institute for Nanotechnologies and Alternative Energy Sources, Cluster Danubius- Black Sea (3D-BS) and Medgreen Cluster.

In order to support competitors, PTC Europe offers access to the following suite of programs: CREO, THINGWORX and VUFORIA Studio. More informations are available at <https://oviobot.eu/transformaredigitala.html>.

The Members of the Jury

Emanuel MUNTMARK, Monsson Grup, President of the Jury

Dr. Eng. Alexandru STĂNILĂ, Romanian Inventors Forum

Iuliean HORNEȚ, Inventor and Entrepreneur

Alexandru CAZACU, Global Academic Program, PTC

Mironel NIȚU, Director, IMSAR Groupe SNEF

Valentin Cosmin POPESCU, CNE Cernavodă

Cristian ROMÂN, senior editor, "Science and Technique" Journal

Adrian BĂNUȚĂ, SRTV producer/President of Science & Technology Association

Prof. dr. Sorin RUGINĂ, rector, „Ovidius” University of Constanța

Prof. Cristina ANGHEL, director, „Ovidius” High School of Constanța

Prof. Loredana Elena TĂNASE, deputy director, „Mircea cel Bătrân” National College, Constanta

Prof. Claudia NIȚU, director, Industrial Energy High School of Constanța

Prof. Mădălina IVĂNESCU - school inspector for Physics, ISJ Constanța

Program

Venue: “Ovidius” High School of Constanta, Stradela Basarabi no. 2

Date: November 29th, 2019

9:00 – Registration of the participants

9:30 – Opening ceremony

- Prof. Sorin MIHAI, General Inspector, ISJ Constanța
- Prof. dr. Sorin RUGINĂ, rector, „Ovidius” University of Constanța
- Prof. Cristina ANGHEL, director, „Ovidius” High School of Constanța
- Iuliean HORNEȚ, President, MEDGreen Cluster
- Cătălin MREJERU, director, MONSSON Group

10:00 – Keynote Speeches

- Prof. Alexandru MIRONOV, Senior Editor, ”Science and Technique” Journal
2019 – George (Gogu) Constantinescu Year
- Iuliean HORNEȚ, General Director, EcoHorneț SRL
Competitiveness through creativity, perseverance and entrepreneurial spirit
- Prof.dr.eng. Eden MAMUT
Digital Transformation in Energy Engineering

10:30 – Coffee Break

Attending of the Posters Panel

11:00 – Presentation of the Projects in front of the Evaluation Panel

13:00 – The award ceremony

13:30 – Workshop on ”Advanced Materials and IT&C Technologies for Intelligent Energy Systems”

Moderators: Prof. Anca - Iuliana DRAGOMIR, Deputy General School Inspector

Mironel NIȚU, Director, IMSAR Groupe SNEF

- Prof. univ. dr. Anca LEPĂDATU, *Biostimulation of cell cultures for innovative biotechnologies*
- Conf. Dr. eng. Gabriel PRODAN, *Current state of micro and nanostructured smart materials*
- Dr. eng. Laurentiu OANCEA, *Nanostructured materials used in the production of thermoelectric generators*
- Lecturer dr. eng. Cosmin BUCUR, *Trends in the use of IoT systems in Energetics*
- Prof. univ. dr. ing. Eden MAMUT, *Integration of nanostructured materials, Multiscale & Multiphysics optimization in advanced energy systems – MULTISCALE Project*

Moderated discussion on promoting the interest of students for knowledge and innovation

15:00 – Conclusions and closure