

SCIENTIFIC EVENT: ISREIE 2019

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Abstract:

“Aurel Vlaicu” University of Arad organized on May 23rd -25th The 8th Edition of the International Symposium “Research and Education in Innovation Era” (ISREIE). Within the general program, 10 parallel sessions were carried out. In the present article, we have been focused on 3 sessions that were organized by the Faculty of Food Engineering, Tourism and Environmental Protection and the Institute for Research-Development-Innovation in Technical and Natural Sciences: Environmental Engineering, Plants, Environment and Human Health and Food Science, Applied Biotechnologies and Sustainability. In those three sessions were held three plenary, 13 oral scientific presentations and 16 posters.

Keywords: ISREIE 2019, international symposium, scientific presentations, posters.

Introduction

“Aurel Vlaicu” University of Arad organized in 1992-2004 the scientific communication session entitled “Scientific Communication Meeting”. Since 2006, the International Symposium “Research and Education in Innovation Era” has been organized every two years. Starting with 2019, when this symposium has reached its eighth edition, this symposium is organized annually.

Within the general program, the diverse results from different fields (engineering, mathematics, technologies, design, sports, social sciences, etc) in 10 parallel sections were presented. This edition of the symposium was organized during May 23-25th 2019, at the “Aurel Vlaicu” University of Arad, in Arad, Romania (46°10’36”N 21°18’4”E).

The main objectives of this symposium are:

- Presentation, dissemination and promotion of scientific, artistic, sports and technological development research results obtained by researchers from “Aurel Vlaicu” University of Arad, from other national and international research institutes and universities;
- Knowledge of achievements and stage of development in the field of exact sciences, engineering, socio-economic sciences and humanities;

- The integration of the Romanian scientific community in the international scientific communities, as well as the increase of the visibility of its contribution to the international scientific patrimony and of the international recognition of the Romanian research;
- Stimulating innovation and raising awareness of the importance of applying the results of scientific research and technological development;
- Facilitating the meeting/networking of Romanian specialists with “top” foreign specialists from the research fields targeted by the symposium and with the representatives of the economic environment in order to establish medium and long-term research partnerships;
- Raising public awareness of the importance and role in life and society of scientific research, inventions, innovations and technological development by promoting in the media and the Internet the latest and most important scientific achievements presented at the symposium;

- Marking the Centenary of the Romanian Union and promoting cultural heritage and identity

As usual there have been 3 sessions dedicated to research in natural and technical sciences which have been coordinated by Faculty of Food Engineering, Tourism and Environmental Protection (FIATPM) and the Institute for Research-Development-Innovation in Technical and Natural Sciences (ICDISTN).

GENERAL SESSION AND PARTICIPANTS

The symposium began with the opening ceremony of the works in which the Rector of "Aurel Vlaicu" University, Prof. Dr. Ramona Lile, and personalities from the local political and administrative personalities of Arad city addressed a welcome speech to the participants. Also, various greetings were addressed from the national and international universities through the representatives participating in the conference.



Fig. 1. Welcome speech from Prof. Dr. Mauro Centritto, Sustainable Plant Protection Institute, National Research Council of Italy.

The number of participants was over 200 from 15 countries. FIATPM and ICDISTN had three prestigious guests from other countries at this symposium, namely: Acad. Prof. Dr. Ülo Niinemets, Estonian University of Life Sciences, Republic of Estonia, *Doctor honoris causa* of "Aurel Vlaicu" University; Prof. Dr. Mauro Centritto, Sustainable Plant Protection Institute, National Research Council of Italy (Fig. 1) and Prof. Dr. Artur Cavaco-Paulo, University of Minho, Portugal. Our guests also visited the new equipped laboratories for students from FIATPM.



Fig. 2 .Visits of FIATPM laboratories

PARALLEL SESSIONS

The symposium had 11 sessions, and the Faculty of Food Engineering, Tourism and Environmental Protection (FIATPM) and the Institute for Research-Development-Innovation in Technical and Natural Sciences (ICDISTN) organized three sessions, namely: (1) Environmental Engineering, (2) Plants, Environment and Human Health and (3) Food Science, Applied Biotechnologies and Sustainability. The first two took place on the first day and the third one on the second day.

The session *Environmental Engineering* was opened by the plenary presentation of Prof. Dr. Artur Cavaco-Paulo entitled "Molecular Dynamics for Fiber and Cosmetic Applications" (Fig. 3a) and continued with three more oral presentations held by: Dr. Elisabeta Szerb ("Coriolan Dragulescu" Institute of Chemistry, Timisoara, Fig. 3b), Lect. Dr. Madalina Tudorache (University of Bucharest, Fig. 3 c) and Prof. Dr. Habil. Dana Copolovici ("Aurel Vlaicu" University, Fig. 3d).





Fig. 3. Parallel session presentations.

During the *Plants, Environment and Human Health* session, two plenary presentations on *Agriculture Under Global Change* were presented by Prof. Dr. Ülo Niinemets (Fig. 4a) and *Evolutionary Development of Stomatal Control of Photosynthesis and Climate Change* by Prof. Dr. Mauro Centritto (Fig. 4c). There were also oral presentations by Prof. Dr. Habil. Alina Zamfir (Fig. 4b), Prof. Dr. Habil. Florentina Munteanu and Prof. Dr. Habil. Lucian Copolovici (the latest from “Aurel Vlaicu” University) on various topics of current interest.



Fig. 4. Parallel session presentations

During the *Food Science, Applied Biotechnologies and Sustainability* session, various oral presentations were presented on topics of interest to the audience regarding *Developing Teaching and Learning Resources, Food industry, Implementation of European*

Structural Funds Projects by Assoc. Prof. Dana Radu, Lect. Dr. Claudia Muresan, Lect. Dr. Sergiu Palcu and Lect. Dr. Sabin Chis. Two papers on the determination of fatty acids from wastes and the antibiotic resistance were presented by students Ioana Moldovan (“Aurel Vlaicu” University) and Silvana-Adriana Ardelean (“Lucian Blaga” University of Sibiu), respectively. Also, various products obtained in FIATPM laboratories were tasted (Fig. 5).



Fig. 5. Parallel session presentations and coffee breaks.

The poster session included a number of 16 posters from different fields including the food industry, waste recovery, monitoring of environmental parameters.

CONCLUSIONS

Through the complex fields approached, inter- and trans-disciplinary of maximum importance for ERA (European Research Area), through the parallel sessions addressed to both humanities and exact sciences and engineering and through the involvement of the economic environment, ISREIE 2019 is one of the scientific manifestation with the widest thematic spectrum, which makes it unique from a national point of view and among the few of its kind at the international level. Moreover, we believe that this symposium is the only one that through its objectives and the approached themes, education and research are equally represented. This is in line with modern trends at European and international level, and supports the current concept promoted by the European Union, according to which, in the age of innovation, in a knowledge-based society, education and research must be considered complementary, inseparable branches.

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