

Report on the 46th International Symposium
Actual Tasks on Agricultural Engineering
27th February - 1st March 2018, Opatija, Croatia

The 46th International Symposium “**Actual Tasks on Agricultural Engineering**” was held on 27th February - 1st March 2018 in Grand Hotel “Adriatic” Opatija, Republic of Croatia.

The principle Organiser, Department of Agricultural Engineering, Faculty of Agriculture, University of Zagreb was supported by the following frameworks: Department of Agricultural Engineering, Faculty of Agriculture, University J.J. Strossmayer, Osijek; Institute of Agricultural Engineering, BOKU, Vienna; Department of Bio-systems Engineering, Faculty of Agriculture and Life-sciences, University of Maribor (Slovenia); Agricultural Institute of Slovenia; Institute of Agricultural Engineering Bucharest and Croatian Agricultural Engineering Society. In addition, EurAgEng, AAEE and CIGR bestowed their support and endorsement on the Event. For the first time, one of this year co-organizer is also Regional Network for Central and South Eastern Europe (CASEE network).

This year 62 participants from 10 countries attended the Symposium. It consisted of an Opening Session and six Topic Sessions covering all the broad subject-areas that fall under the scope of Agricultural and Bio-systems Engineering.

At the Opening Session Asst. prof. Nikola Bilandzija, president of the Organising Committee, in his speech highlighted briefly the main historical steps of the symposium and introduced the participants with the main facts considering the this year’s Symposium and Proceedings.

Prof. dr. Istvan Szabo, CASEE representative, made a brief explanation of mentioned conference and ATAEE executives intention of founding ATAEE section within CASEE conference. He also expressed wish of future successful future cooperation between CASEE and ATAEE. Prof. Silvio Kosutic, president of the International Scientific Committee ended the Opening Session with the greetings.

A number of lectures followed, among some of them are: “Highlights of 27th Club of Bologna meeting” presented by prof. A. Gronauer from Austria, “A scale-up procedure for processing high-solid content food waste and dairy manure in a low temperature anaerobic digester” delivered by B. Goyette from Canada, “Aspects of digitization in agricultural logistics in Germany” presented by prof. H. Bernhardt from Germany, “The effect of drip irrigation on potato yield and quality” given by J. Cepl, PhD from Czech Republic, “Solutions to automate operational monitoring activities of agro-forestry tasks” presented by assist. prof. R. Gallo from Italy, “Collection and disposal of waste lubricant oils in the Republic of Croatia with a view to state in agriculture” featured by assist. prof. K. Copec from Croatia, “Comparison of standard and twin row seeding on sunflower yield” presented by A. Banaj, PhD student, from Croatia, “Spinach production conditions in the different types of greenhouse constructions” delivered by prof. A. Dimitrijević from Serbia, “Flotation system for agricultural wastewater treatment” delivered by prof. dr. M. G. Matache,

from Romania, "Harvesting and processing of french marigold to obtain products with new uses" delivered by A. Muscalu, PhD from Romania, "Changes in physical and chemical characteristics of coffee beans after thermal processing by roasting" presented by assist. prof. A. Matin from Croatia, "Application of ultrasound in winemaking process" presented by A. Mărgean, PhD student from Romania, "Study on adapting the parameters of vibratory tillage to the resonance frequency of the agricultural soil" presented by N.E. Gheorghită, PhD from Romania, "Analysis of traffic accidents with tractors in Slovenia" delivered by T. Poje, mag. from Slovenia, "Assessing the quality and energy indices of precision planters" delivered by assist. prof. D. Cujbescu from Romania, "Carbon footprint of final wheat products from family farms" presented by V. Jecic, PhD from Slovenia, "Researches of mass and heat transfer of an innovative vertical dryer" presented by P. M. Cârlescu, PhD student from Romania, "Foreign trade of the Republic of Croatia with economic groups in selected agricultural and food products from 2010 to 2017" delivered by prof. Ivo Grgic from Croatia, "Impact of technical spraying factors on ground and air drift in cherry orchard" presented by prof. D. Petrovic from Croatia, "Phosphorus fertilization as a component of growing technology of barley" presented by T. Losák Czech Republic.

Participants were given electronic copies of the Proceedings consisting in volume of 644 pages, containing all over 65 papers. Access to the web edition of the Proceedings is free of charge at the website <http://atae.agr.hr/proceedings.htm>. Since 1997, papers published in the Symposium Proceedings are included in the Clarivate Analytics: Web of Science Core Collection – Conference Proceedings Citation Index and CAB International - Agricultural Engineering Abstracts.

Maziva Zagreb d.d. - INA group (national petrol company) presented its results of field testing in presentation "Formulating tractor's transmission oil aiming prolonge changing interval" delivered by BSc Eng. Tonca Caleta Prolic.

Downloadable electronic version of proceedings of the 46th Symposium will be available at symposium's web site <http://atae.agr.hr/proceedings.htm> starting on 30th of March 2018. Information regarding the 47th Symposium in the year 2019 will soon be available at the web site <http://atae.agr.hr>.

Assist. prof. Nikola Bilandzija,
Editor-in-chief and president of the Organising Committee

Prof. Silvio Kosutic,
president of the International Scientific Committee

