

ISSN 1331-7768 UDC 63

3rd International Scientific Conference
Sustainability Challenges in
Agroecosystems

June 19 – 21, 2017
Osijek, Croatia

Special Issue

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AGRICULTURAE
CONSPECTUS
SCIENTIFICUS

CROATIA ■

POLJOPRIVREDNA
ZNANSTVENA
SMOTRA

VOLUME **83**

March 2018

Number 1



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Sustainability Challenges in Agroecosystems

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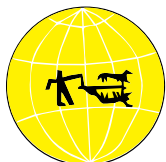


Organizers:

CROSTRO – Croatian Soil Tillage Research Organization (branch of ISTRO), Osijek, Croatia

Czech branch of ISTRO, Brno, Czech Republic

HUISTRO – Hungarian branch of ISTRO, Gödöllő, Hungary



Under the auspice of:

ISTRO – International Soil Tillage Research Organization

Supportive Institutions:

Ministry of Agriculture of the Republic of Croatia

Ministry of Environment and Energy of the Republic of Croatia

Ministry of Science and Education of the Republic of Croatia

Croatian Academy of Sciences and Arts

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Editorial Note

3rd International Scientific Conference “Sustainability challenges in agroecosystems” was held under joint organization of CROSTRO (Croatian Soil Tillage Research Organization), Czech branch of ISTRO and HUISTRO (Hungarian branch of ISTRO) under the auspice of ISTRO (International Soil Tillage Research Organization), and many others supportive institutions, from 19th-21st June, 2017, Osijek, Croatia.

Since the establishment of our national branches, Croatia, Czech Republic and Hungary are going to organize for the first time a joint Scientific Conference as a Central Europe Division of ISTRO initiative (CEDSTRO). Place of the first joint Conference was Osijek, Croatia, whereas following joint Conferences will be held in other two countries (Czech Republic and Hungary) in the rotation after every three years.

At conference has attended over 100 scientists-participants from 25 countries (Austria, Belgium, Bosnia and Herzegovina, Bulgaria, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Israel, Luxemburg, Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, United Kingdom, Uruguay, USA), with 58 papers divide on 5 main topics / session, as follows: 1. Sustainable land management, 2. Coping with climate changes in plant production, 3. Good agriculture practice and food safety, 4. Precision agriculture, mechanization and renewable bioenergy, 5. Facilitation of integrated crop protection.

Since climatic changes do not follow national borders and since agriculture is extremely vulnerable to them, a common action to find adequate and effective measures to face climatic changes is an imperative. Conservation agriculture is one of the possible ways to combat many negative challenges primarily influence of climatic changes. This technology is not novelty in Europe, but it's application is usual because of economic reasons (cheaper production) or as an alternative system. Conservation agriculture includes three main bases for sustainable and successful agriculture production in relation to agro-ecological conditions, namely: minimal set of soil tillage treatments (minimal soil disturbance), permanent soil cover (with crop or crop residue) and diversification in crop production, predominantly crop rotation. At this moment, the application of conservation agriculture in the Central-South-East Europe (as in whole Europe) is still very heterogeneous and persists on different levels and with different success in each country of the region. As soil tillage is closer to conservation agriculture principles, we are step-closer to sustainability and we can expect less damages less potential problems and less risks in crop production.

Guest Editors

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