

# Special Issue 3rd International Scientific Conference - Sustainability Challenges in Agroecosystems June 19 - 21, 2017. Osijek, Croatia

---

Jug, Danijel; Jug, Irena; Đurđević, Boris

Source / Izvornik: **Agriculturae Conspectus Scientificus, 2018, 83, 1 - 2**

Journal article, Published version

Rad u časopisu, Objavljena verzija rada (izdavačev PDF)

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:151:647413>

Rights / Prava: [In copyright](#)/[Zaštićeno autorskim pravom.](#)

Download date / Datum preuzimanja: **2025-01-31**



Sveučilište Josipa Jurja  
Strossmayera u Osijeku

**Fakultet  
agrobiotehničkih  
znanosti Osijek**

Repository / Repozitorij:

[Repository of the Faculty of Agrobiotechnical  
Sciences Osijek - Repository of the Faculty of  
Agrobiotechnical Sciences Osijek](#)



DIGITALNI AKADEMSKI ARHIVI I REPOZITORIJI

ISSN 1331-7768 UDC 63

3<sup>rd</sup> International Scientific Conference  
Sustainability Challenges in  
Agroecosystems

June 19 – 21, 2017  
Osijek, Croatia

Special Issue

*acs*

---

AGRICULTURAE  
CONSPECTUS  
SCIENTIFICUS

CROATIA ■

POLJOPRIVREDNA  
ZNANSTVENA  
SMOTRA

---

VOLUME **83**

March 2018

Number 1



3<sup>rd</sup> International Scientific Conference

## Sustainability Challenges in Agroecosystems

June 19 – 21, 2017 – Osijek, Croatia



### 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

Faculty of Agriculture in Osijek, Croatia

Faculty of Agriculture in Zagreb, Croatia

Meteorological and Hydrological Service of the Republic of Croatia

Nature Park Papuk, Croatia

### Scientific Committee:

#### President

Irena JUG, Croatia

#### Secretary

Boris ĐURĐEVIĆ, Croatia

#### Members

Ferdo BAŠIĆ, Croatia

Dušan KOVAČEVIĆ, Serbia

György VÁRALLYAY, Hungary

Blair MCKENZIE, Great Britain

Rainer HORN, Germany

Franc BAVEC, Slovenia

Lars J. MUNKHOLM, Denmark

Donald D. TYLER, United States of America

Darko ZNAOR, Croatia

Srđan ŠEREMEŠIĆ, Serbia

Jerzy LIPIEC, Poland

Steinberger YOSEF, Israel

Željko DOLIJANOVIĆ, Serbia

Jan KŘEN, Czech Republic

Milan MACÁK, Slovakia

Vera CESAR, Croatia

Josef ROSNER, Austria

Zoran DIMOV, Macedonia

Laura ALAKUKKU, Finland

Ilija KOMLJENOVIĆ, Bosnia and Herzegovina

Marijana TUCAK, Croatia

Ljubica RANOGAJEC, Croatia

Jan TURAN, Serbia

Margarita NANKOVA, Bulgaria

Teodor RUSU, Romania

### Organizing Committee:

#### President

Danijel JUG, Croatia

#### Members

Jean Roger ESTRADE, France

Vladimír SMUTNÝ, Czech Republic

Márta BIRKÁS, Hungary

Vlado GUBERAC, Croatia

Ivica KISIĆ, Croatia

Marko JOSIPOVIĆ, Croatia

Vesna VUKADINOVIĆ, Croatia

Silvio KOŠUTIĆ, Croatia

Karolina VRANDEČIĆ, Croatia

Dubravko FILIPOVIĆ, Croatia

Bojan STIPEŠEVIĆ, Croatia

Ivan PLAŠČAK, Croatia

Andrija ŠPOLJAR, Croatia

Igor BOGUNOVIĆ, Croatia

Bojana BROZOVIĆ, Croatia

Branka KOMESAROVIĆ, Croatia

Roberta SORIĆ, Croatia

### Guest Editors:

Danijel JUG, Croatia

Irena JUG, Croatia

Boris ĐURĐEVIĆ, Croatia

# 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

Danijel JUG

Irena JUG

Boris ĐURĐEVIĆ