



**CROSTRO – Croatia Soil Tillage Research  
Organization**

**ISTRO Branch – Republic of Croatia**

**Under the auspice**



**ISTRO – International Soil Tillage Research  
Organization**

**are cordially inviting you at the  
International Scientific Conference**

# **Soil Tillage - Open Approach**

**Osijek  
(Republic of Croatia)**

**09-11 September, 2010**

**Final announcement**

On behalf of the Organizing Committee of Croatia Soil Tillage Research Organization – CROSTRO and International Soil Tillage Research Organization – ISTRO, we are pleased to invite you to the International Scientific Conference that will take place in Osijek, Republic of Croatia, 09-11 September, 2010.

Since the soil tillage is multidisciplinary area, and agricultural sciences in generally are bases on comprehensive knowledge from other fields of nature sciences, our goal is to gather scientists and professionals from different areas and scientific fields of agriculture.

The conference scientific presentations would promote correct application of agrotechnical measures, the newest state-of-the-art information and techniques, and alternative approaches in agricultural production – all in scope of soil tillage.

### **Official language**

Official language of the Conference will be English.

### **Organizing committee**

Dr. Bojan Stipešević – president – (CRO)  
Dr. Irena Jug – (CRO)  
Dr. Silvio Košutić – (CRO)  
Dr. Vesna Vukadinović – (CRO)  
Dr. Ivica Kisić – (CRO)  
Bojana Teodorović, dipl. ing. (CRO)  
Miro Stošić, dipl. ing. (CRO)  
Boris Đurđević, dipl. ing. (CRO)

### **Scientific committee**

Dr. Danijel Jug – president – (CRO)  
Dr. Márta Birkás – (HU)  
Dr. Ivan Žugec – (CRO)  
Dr. John E. Morrison – (USA)  
Dr. Ferdo Bašić – (CRO)  
Dr. Miloslav Javurek – (CH)  
Dr. Vladimir Vukadinović – (CRO)  
Dr. Ilija Komljenović – (RS, BIH)  
Dr. Milan Mesić – (CRO)  
Dr. Dragiša Milošev – (SR)

### **Conference topics/section**

General conference topics will be discussed, in papers or posters form, in the next four sections:

1. Soil tillage in function of environmental protection
2. Conservation tillage – direct seeding – no-tillage
3. Soil biotic and abiotic degradations – causes and consequences
4. Soil tillage – new approach – technologies – perspectives

## Conference Program

### 08 September (Wednesday) - arrival

18<sup>00</sup> - 21<sup>00</sup> - Registration of participants in Hotel "Osijek" at Osijek

### 09 September (Thursday)

10<sup>30</sup> – 12<sup>00</sup> - Official Opening of the Conference

**Introductory words:**

**Prof. dr. sc. Bojan Stipešević**, CROSTRO (ISTRO-Croatia Branch) president

**Dr. sc. Jean Roger-Estrade [FR]**, ISTRO support to Croatian branch

**Prof. dr. sc. Franjo Tomić [CRO]**, Member of Croatian Academy of Sciences and Arts, Department of Natural Sciences

13<sup>00</sup> – 15<sup>00</sup> – Welcome cocktail

**Plenary session**

**Chairmen: Jug D., Birkás M., Žugec I.**

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15 <sup>00</sup> – 15 <sup>30</sup>	<b>György Várallyay, Csilla Farkas [HU]</b> Agrotechnical measures for reducing the risk of extreme soil moisture events
15 <sup>30</sup> – 16 <sup>00</sup>	<b>Márta Birkás, Danijel Jug, Ivica Kisic, Jan Kren, Márton Jolánkai [HU-CRO-CH-]</b> Environmentally-sound soil tillage in Central Europe - step by step
16 <sup>00</sup> – 16 <sup>30</sup>	<b>Ferdo Bašić, Ivica Kisić, Milan Mesić [CRO]</b> Framework of climate-change and soil type oriented soil tillage in agricultural regions in Croatia
16 <sup>30</sup> – 17 <sup>00</sup>	<b>Danijel Jug, Márta Birkás, Srđan Šeremešić, Bojan Stipešević, Irena Jug, Ivan Žugec, Ivica Djalovic [CRO-HU-SR]</b> Status and perspectives of soil tillage in South-East Europe

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**10 September (Friday)**

**Section:**

- **Soil tillage in function of environmental protection**
- **Soil biotic and abiotic degradations – causes and consequences**

**Chairmen: Macák M., Jug I., Seremesic S.**

<b>10<sup>00</sup> – 10<sup>15</sup></b>	<b>Macák M., Smatana J., Šimanský V., Đalović I., Demjanová E., Jug D. [SK-SR-CRO]</b> Soil tillage and crop management and their impact on sustainability and soil physical characteristics
<b>10<sup>15</sup> – 10<sup>30</sup></b>	<b>Jug I., Jug D., Đurđević B., Horvat T., Habada V., Brozović B. [CRO]</b> Effect of nitrogen fertilization under reduced soil tillage on chloroplast pigments concentration in leaves of winter wheat
<b>10<sup>30</sup> – 10<sup>45</sup></b>	<b>Kisic I., Basic F., Birkas M., Aleksandra J. [CRO]</b> Soil conservation the key role of soil tillage under actual and altered climatic conditions
<b>10<sup>45</sup> – 11<sup>00</sup></b>	<b>Seremesic S., Milosev D., Manojlovic M., Djalovic I., Zeremski T., Ninkov J. [SR]</b> Soil organic carbon accrual in aggregates of arable soil in wheat based cropping systems
<b>11<sup>00</sup> – 11<sup>15</sup></b>	<b>Cvijanović G., Dozet G., Milošević N. [SR]</b> Measures for increase of degraded soil biogenity
<b>11<sup>15</sup> – 11<sup>30</sup></b>	<b>Tóth B., Stipešević B., Jug D., Lévai L. [HU-CRO]</b> Can we increase available nutrients using bacteria?

**11<sup>30</sup> – 12<sup>00</sup> – Coffee break**

**Section:**

- **Conservation tillage – direct seeding – no-tillage**
- **Soil tillage – new approach – technologies – perspectives**

**Chairmen: Smutný V., Dumanović Z., Javůrek M.**

<b>12<sup>00</sup> – 12<sup>15</sup></b>	<b>Jug I., Jug D., Stipešević B., Vukadinović V., Sabo M., Grabić A., Stanić M. [CRO]</b> The impact of reduced tillage on the morphological and physiological parameters of soybean
<b>12<sup>15</sup> – 12<sup>30</sup></b>	<b>Kornél T., Jóri J. I. [HU]</b> Numerical Approaches in Tillage and Soil Modeling
<b>12<sup>30</sup> – 12<sup>45</sup></b>	<b>Vukadinović V., Jug D. [CRO]</b> Geostatistical model evaluation for soil tillage suitability on Osijek-Baranya County example
<b>12<sup>45</sup> – 13<sup>00</sup></b>	<b>Smutný V., Neudert L., Dryšlová T., Birkás M. [CZ-HU]</b> The yield and quality of bread wheat under different agronomic factors

13 <sup>00</sup> – 13 <sup>15</sup>	<b>Stipešević B., Brozović B., Jug D., Stošić M., Jug I., Vukadinović V., Simić M., Mladenović-Drinić S., Brigita T., Laszlo L. [CRO-SR-HU]</b> The influence of soil tillage system at germination of buckwheat, millet and sudan grass sown as post-harvest summer crops
13 <sup>15</sup> – 13 <sup>30</sup>	<b>Cvetanovska L., Kratovalieva S., Stipesevic B., Jug D., Jug I., Klincarovska I. [MK-CRO]</b> Primary production at seed rice

**Lunch 13<sup>30</sup> – 15<sup>00</sup>**

**15<sup>00</sup> – 17<sup>00</sup> - Poster presentation**

**Chairmen: Kisić I., Kornél T.**

<b>1</b>	<b>Shamsi K. [IR]</b> Effect of Reduction of Drought Stress Using Supplementary Irrigation of Dryfarming Chickpea( <i>Cicer arietinum</i> L.) Varieties
<b>2</b>	<b>Javůrek M., Mikanová O., Vach M. [CZ]</b> Assessment of conservation tillage effect on Luvisol, loam soil, consequently on cereal production in the Central Bohemia
<b>3</b>	<b>Vach M., Javůrek M., Hýšek J. [CZ]</b> The role of non-chemical plant protection in conservation methods of winter wheat growing
<b>4</b>	<b>Dumanović Z., Dragičević V., Kolčar D., Ercegović Đ., Pajić M., Jug D. [SR-CRO]</b> Environmental aspect of nitrogen availability under subsoiling and mole drainage
<b>5</b>	<b>Winkler J., Smutný V. [CZ]</b> The impact of different soil tillage on weed infestation in cereals and winter oilseed rape
<b>6</b>	<b>Rátonyi T., Megyes A., Sulyok D., Harsányi E. [HU]</b> Evaluation of soil tillage impacts on soil physical condition in different production sites in Hungary
<b>7</b>	<b>Jug D., Jug I., Stipešević B., Stošić M., Brozović B., Đurđević B. [CRO]</b> Influence of different soil tillage treatments on soil compaction and nodulation of soybean root

**17<sup>00</sup> – 18<sup>30</sup> - Round table: Innovation in soil tillage systems**  
**Moderator: prof. dr. sc. Bojan Stipešević**

**19<sup>00</sup> - Gala dinner and closing ceremony**

**11 September (Saturday)**

**8<sup>00</sup> – 20<sup>00</sup> Field trip** - Conference tour to field experimental station (2 locations), National lipizzan farm and St. Peter's Cathedral in Đakovo (a guided conducted tour), visit of wine cellar with degustation of wines.

## **Information:**

**Registration / information desk** in Hotel Osijek will be opened on:

- Wednesday 08 September from 18<sup>00</sup> – 21<sup>00</sup>
- Thursday 09 September from 08<sup>00</sup> – 15<sup>00</sup>
- Friday 10 September from 08<sup>00</sup> – 15<sup>00</sup>

**The oral presentation** – plenary paper will be allocated for 30 min., the others cca 15 min. + discussion. All audio-visual equipment will be at disposal.

### **The poster presentation**

The poster boards will be in width 90 cm and 100 cm in height.

The posters will stay on the board from Thursday 10 September during the whole conference. Poster must be removed on Friday 10 September at 19<sup>00</sup> h.

### **Special needs**

Delegates with special needs such as diet, access, etc. are asked to complete relevant section of Registration Form. No arrangements can be made if needs are not notified via registration form.

**Taxi** station is near the railway and bus station and you will pay cca. 20 Kn.

**Exchange rate: cca 7.2 - Kn / 1 Euro**

**Exchange office** – an office for changing money at the railway station, at the hotels and bank in downtown on Monday – Friday from 8<sup>00</sup> – 16<sup>00</sup>.

### **Contacts**

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