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i

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**43. hrvatski i 3. međunarodni simpozij agronoma**

18. – 21. veljače 2008, Opatija, Hrvatska



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and

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**43<sup>rd</sup> Croatian & 3<sup>rd</sup> International Symposium on Agriculture**

February 18-21, 2008 :: Opatija, Croatia



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Poštovane kolegice i kolege,

pred Vama su još jedan Zbornik radova i Zbornik sažetaka simpozija agronoma, koji će nadam se koristiti Vašem radu.

Za 43. hrvatski i 3. međunarodni simpozij agronoma prihvaćena su 404 priloga koji će biti prezentirani usmeno ili kao poster, od toga 178 iz Hrvatske i 226 iz inozemstva. Zastupljeni su prilozima iz 25 država: Rumunjska (85), Srbija (31), Mađarska (20), Češka (13), Iran (13), Slovenija (12), Makedonija (9), Bosna i Hercegovina (8), Slovačka (8), Portugal (4), Grčka (4), Turska (3), Španjolska (2), Austrija (2), Albanija (2), Njemačka (1), Italija (1), Danska (1), SAD (1), Belgija (1), Nizozemska (1), Litva (1), Poljska (1), Irak (1) i Indija (1).

Teme simpozija vezane su uz sve grane poljoprivrede, a izlaganja će se održati u okviru devet sekcija: 1) Agroekologija i ekološka poljoprivreda, 2) Agroekonomika i agrosociologija, 3) Genetika, oplemenjivanje bilja i sjemenarstvo, 4) Povrčarstvo, 5) Ratarstvo, 6) Ribarstvo, lovstvo i pčelarstvo, 7) Stočarstvo, 8) Krajobrazna arhitektura i 9) Voćarstvo, vinogradarstvo i vinarstvo. Radovi iz područja: zaštite bilja, poljoprivredne tehnike i tehnologije, ukrasnog bilja, ljekovitog, aromatičnog i medonosnog bilja i hrane uvršteni su u jednu od postojećih sekcija sukladno temi prispjelog rada. U plenarnim izlaganjima posebna pozornost pridana je položaju poljoprivrede u EU, ruralnom razvoju i proizvodnji biogoriva. U okviru okruglog stola bit će predloženi radovi o okrupnjavanju poljoprivrednog zemljišta u središnjoj i istočnoj Europi i Hrvatskoj.

Predloženi radovi u cjelovitom obliku (209 radova) ili samo sažeci (195 sažetaka) nalaze se u tiskanom (knjiga) i elektronskom obliku (CD). Svaki rad tiskan u Zborniku radova je recenziran od dva recenzenta. Sažeci su pregledani od voditelja sekcije i neznatno korigirani, pri čemu nije mijenjan smisao rečenice. Na žalost, zbog kratkog roka za pregled nije bilo vremena za autorizaciju teksta pa su moguće određene pogreške za koje se unaprijed ispričavam.

Nadam se da će ovi radovi biti korisni mnogima iz područja poljoprivrede i srodnih djelatnosti, radi bolje suradnje među znanstvenicima i stručnjacima iz Hrvatske i inozemstva, odnosno proizvođačima iz Hrvatske, Europe i Svijeta, i to na zajedničkom interesnom području – prijenosu znanstvenih i stručnih postignuća u poljoprivrednu proizvodnju i praksu. Zahvaljujem svim autorima, recenzentima, voditeljima sekcija i kolegicama i kolegama na pomoći u uređivanju Zbornika.

Osobito zahvaljujem pokrovitelju simpozija - Vladi Republike Hrvatske i suorganizatorima na nesebičnoj suradnji i svekolikoj potpori.

Zagreb, 25. siječnja 2008.

Prof.dr.sc. Milan Pospišil  
Glavni urednik

## A Word from the Editor

Dear Colleagues,

In your hands are another Book of Abstracts and the Proceedings of the Symposium on Agriculture, which I hope you will find useful in your work.

As many as 404 contributions have been accepted for oral or poster presentations at the 43<sup>rd</sup> Croatian and 3<sup>rd</sup> International Symposium on Agriculture, of which 178 from Croatia and 226 from other countries. Papers come from 25 countries: Romania (85), Serbia (31), Hungary (20), Czech Republic (13), Iran (13), Slovenia (12), Macedonia (9), Bosnia and Herzegovina (8), Slovak Republic (8), Portugal (4), Greece (4), Turkey (3), Spain (2), Austria (2), Albania (2), Germany (1), Italy (1), Denmark (1), USA (1), Belgium (1), The Netherlands (1), Lithuania (1), Poland (1), Irak (1) and India (1).

Symposium themes cover all branches of agriculture and are divided into nine sections: 1) Agroecology and Ecological Agriculture, 2) Agricultural Economics and Rural Sociology, 3) Genetics, Plant Breeding and Seed Production, 4) Vegetable Growing, 5) Field Crop Production, 6) Fisheries, Game Management and Beekeeping, 7) Animal Husbandry, 8) Landscape Architecture, and 9) Pomology, Viticulture and Enology. Papers dealing with plant protection, agricultural engineering and technology, ornamental plants, medicinal, aromatic and honey plants and food are included into one of the offered sections in accordance with their topics. Plenary lectures address the status of agriculture in the EU, rural development and biofuel production and the Round Table will address the issues of arable land consolidation policies in Central and Eastern Europe and in Croatia.

Full texts of the submitted communications (209 papers) and abstracts (195 abstracts) are available in paper form (book) or in electronic form (CD). Each paper included in the Proceedings was reviewed by two referees. Abstracts were read by relevant section moderators and slightly revised, without changing the meaning of sentences. Unfortunately, due to the short time for reviewing, text authorization was not possible and I apologize for the errors that might have slipped in.

I hope that the papers will be useful to many agriculturalists and to those engaged in related fields and enable better collaboration of scientists, researchers and professionals from Croatia and abroad, as well as to the producers from Croatia, Europe and the World, in their common sphere of interest – transfer of scientific and professional achievements into agricultural production and practice. I thank all the authors, reviewers, section moderators and colleagues for their help in editing the Proceedings.

Special thanks go to the Government of the Republic of Croatia under whose auspices the Symposium is held as well as to the co-organizers for their unselfish collaboration and comprehensive support.

Zagreb, January 25, 2008

Prof. Milan Pospišil, PhD  
Editor-in-Chief