



UNIVERSITY OF CRAIOVA - UNIVERSITY OF BELGRADE

The 12th ANNUAL MEETING "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"

17th-18th November 2016, Craiova, Romania

The First Circular





Organisers:

UNIVERSITY OF CRAIOVA - FACULTY OF AGRONOMY
AND
UNIVERSITY OF BELGRADE - FACULTY OF AGRICULTURE
WITH
AGRICULTURAL AND FORESTRY SCIENCES ACADEMY
"GHEORGHE IONESCU ŞIŞEŞTI"

Particular focus of the conference:

"ADVANCED METHODS FOR A SUSTAINABLE AGRICULTURE, SILVICULTURE AND FOOD SCIENCE"





UNIVERSITY OF CRAIOVA - UNIVERSITY OF BELGRADE

in collaboration with

AGRICULTURAL AND FORESTRY SCIENCES ACADEMY "GHEORGHE IONESCU ŞIŞEŞTI"





The 12th ANNUAL MEETING "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"

17th-18th November 2016, Craiova, Romania

Dear Colleagues,

On behalf of the organizing committee it is our pleasure to invite you to participate in the 12-th "DURABLE AGRICULTURE — AGRICULTURE OF THE FUTURE" Annual Meeting to be held in Craiova, Romania, at the Faculty of Agronomy of the University of Craiova.

Craiova, Romania's 6 th largest city and capital of Dolj County, is situated near the east bank of Jiu river, in central Oltenia. It is a longstanding political center, and is located at approximately equal distances from the Southern Carpathians (north) and Danube River (south). Craiova is the chief commercial city west of Bucharest and the most important city of Oltenia Region. The city prospered as a regional trading centre despite an earthquake in 1790, a plague in 1795, and a Turkish assault in 1802 during which it was burned.

The Faculty of Agronomy - University of Craiova is one of the oldest institutions of higher education in Romania, over time is concerned with ensuring an effective education, oriented society useful specialization. Currently, the Faculty of Agronomy in Craiova is a modern educational institution which carries out all forms of higher education. The number of students registered in our faculty in the academic year 2015/2016 is 1228.

The University of Craiova was founded within the university center system in Romania in the second half of the 20th century, being, chronologically, the fifth university in the country, following the ones in Iasi, Bucharest, Cluj-Napoca, and Timisoara. The efforts to set up a university centre in the heart of the region of Oltenia were completed by the passing of the Law no. 138/April 25, 1947, thus permitting the founding and organization of the University of Craiova and its ephors.

The first higher education institutions in Craiova, organized after the passing of the 1947 law, were: The Faculty of Agronomy, in 1947; The Agronomic Institute, in 1948; The Technical Institute, in 1951; the 3-Year Pedagogical Institute, in 1959. All these institutes constituted the University of Craiova, according to the Decision of the Ministers Council, no. 894/August 27, 1965 (published in the Official Bulletin no. 2 of the Socialist Republic of Romania, dated September 10, 1965).

Currently, UCV is a comprehensive institution, made up of 11 faculties, 34 departments, out of which 3 are autonomous and the others are subordinate to faculties, 37 research centres and 3 research institutes. The infrastructure of UCV is adequate (1 main building, 5 campuses, 12 halls of residence, more than 300 lecture theatres and seminar rooms, 255 laboratories, 1 university library and 14 individual libraries, 4 R&D units, 1 university club, etc.; qualified staff (946 teaching staff members and 215 non-teaching staff members, and 796 administrative and maintenance staff members assuring the quality of the services provided for students (17,052) and for society.

In order to improve the education process, a special interest was laid upon the reformation of the higher education in accordance with the European Union regulations and the development of the cooperation and collaboration with other academic institutions in the country and abroad, within the European and extra-European area.

We hope we will all have a memorable and scientifically stimulating meeting in Craiova and we look forward to meeting you here in November 2016.

Welcome to Craiova, Romania!

Prof. dr. eng. Tudor ALEXANDRU, Dean, Faculty of Agronomy, University of Craiova Prof. dr. Milica PETROVIĆ, Dean, Faculty of Agriculture University of Belgrade

Assoc. Prof. dr. Mariana NICULESCU, Vice-Dean, Faculty of Agronomy, University of Craiova

12th ANNUAL MEETING - "DURABLE AGRICULTURE — AGRICULTURE OF THE FUTURE"

17th-18th November 2016, Craiova – ROMANIA

The meeting is jointly organized by:

Faculty of Agronomy - University of Craiova

Faculty of Agriculture – University of Belgrade

Agricultural and Forestry Sciences Academy "Gheorghe Ionescu Şişeşti"

Organizing committees:

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HONORARY COMMITTEE

Prof. dr. Cezar Ionut SPÎNU, Rector of University of Craiova

Prof. dr. Radu CONSTANTINESCU, Vice-Rector of University of Craiova

Prof. dr. eng. Aurel CĂLINA, Vice-Rector of University of Craiova

Prof. dr. Nicolae PANEA, Vice-Rector of University of Craiova

Dr. Milica PETROVIĆ, Dean of the Faculty of Agriculture, University of Belgrade

Prof. dr. eng. Tudor ALEXANDRU, Dean of the Faculty of Agronomy, University of Craiova

Prof. dr. Gheorghe SIN, President of the Agricultural and Forestry Sciences Academy "Gheorghe Ionescu Şişeşti", Romania

Prof. dr. Mihai NICOLESCU, Vice-President of the Agricultural and Forestry Sciences Academy "Gheorghe Ionescu Şişeşti"

SCIENTIFIC COMMITTEE:

Prof. dr. eng. Tudor ALEXANDRU, Dean of the Faculty of Agronomy, University of Craiova Prof. assoc. dr. Mariana NICULESCU, Vice-Dean of Faculty of Agronomy, University of Craiova Dr. Dušan RADIVOJEVIĆ, Vice-Dean, Faculty of Agriculture, University of Belgrade Prof. assoc. dr. eng. Mugurel COLĂ, Vice-Dean of the Faculty of Agronomy, University of Prof. assoc. dr. eng. Sorin Petrut BORUZ, Vice-Dean of the Faculty of Agronomy, University of

Craiova
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Troi. di Piarkovic Nebossa, l'accity di Agriculture, diliversity di Belgiad

Doc. dr. Zoran PRŽIĆ, Faculty of Agriculture, University of Belgrade

Pof. dr. Ivan ILIEV, University of Forestry, Sofia, Bulgaria

Prof. dr. Constantin COTIGĂ, Faculty of Agronomy, University of Craiova

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Junior Lecturer. dr. eng. Marius MILUŢ, Faculty of Agronomy, University of Craiova

Junior Lecturer. dr. eng. Alexandru SĂRARU, Faculty of Agronomy, University of Craiova

SECRETARY COMMITTEE

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Prof. assoc. dr. eng. Jenica CĂLINA

Prof. assoc. dr. eng. Petre SAVESCU

Prof. assoc. dr. eng. Emilia CONSTANTINESCU

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Junior Lecturer dr. eng. Florica COLĂ

Junior Lecturer dr. eng. Alin CROITORU

Junior Lecturer dr. eng. Dragos MEDELETE

Junior Lecturer dr. eng. Marius Nicolae CIOBOATĂ

Junior Lecturer dr. eng. Andi CIOBANU

GENERAL INFORMATION

Conference venue

The **12th ANNUAL MEETING - "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"** will be held at the Conference Center of Faculty of Agronomy, Craiova located in the south-west of Romania, for registration, Opening Ceremony, invited lectures, working

group's sessions and poster session.

For any question or problem please contact the local organizers at the following e-mail address: **medelete@yahoo.com**

Conference registration: Before 15th of October 2016, please, return the **REGISTRATION FORM** to the meeting scientific secretary: e-mail address:

agronomie_cv@yahoo.com

Phone: +40-251-41 84 75, Fax: +40-251-41 84 75

Working Groups of the Conference:

Working Group 1: Plant cultivation, Animal growing technologies and Food Science;

Working Group 2: Soil Sciences;

Working Group 3: Fundamentally Disciplines and Environment, Forestry and Plant Management;

Working Group 4: Management, Agriculture mechanization and Cadastre.

Participation fee:

The participation fee is:

- 200 RON for the Romanian participants
- 50 € for foreigner participants
- 100 RON or 25 € for accompanying persons

PAYMENT INFO (FOR EURO)

BY BANK TRANSFER AT THE FOLLOWING ACCOUNTS:

Beneficiary: UNIVERSITY OF CRAIOVA Address: STR. A. I. CUZA NR. 13, CRAIOVA

FISCAL CODE: 4553380

Name of Bank: CEC BANK CRAIOVA

IBAN Code: RO35CECEDJ01C1EURO782733

Bank Address: STR. SF. DUMITRU BL: 1-3-5, PARTER, CRAIOVA, ROMANIA

WITH THE SPECIFICATION: "DURABLE AGRICULTURE-AGRICULTURE OF THE

FUTURE"CONFERENCE FEE, FACULTY OF AGRONOMY THE FEE DOES NOT INCLUDE THE BANK TRANSFER FEE.

PAYMENT INFO (FOR RON):

BY BANK TRANSFER AT THE FOLLOWING ACCOUNTS:

Beneficiary: UNIVERSITY OF CRAIOVA Address: STR. A. I. CUZA NR. 13, CRAIOVA

FISCAL CODE: 4553380

Name of Bank: TREZORERIA CRAIOVA IBAN Code: RO36TREZ29120F330500XXXX

WITH THE SPECIFICATION: "DURABLE AGRICULTURE-AGRICULTURE OF THE

FUTURE"CONFERENCE FEE, FACULTY OF AGRONOMY
THE FEE DOES NOT INCLUDE THE BANK TRANSFER FEE.

The participation fee includes:

- Conference proceedings on CD-ROM;
- Conference information material;
- Coffee breaks;
- Gala dinner.

The participation fee **does not include:** accommodation, lunches, payments for tourist excursion.

Tourist visit (Trip in the North of Oltenia; Traditional lunch): 20 € (**fee is paid in lei at the rate of the day**)

The organizers do not provide hotel reservations.

Please consult hotel vacancies:

Hotels:

Hotel EUROPECA	http://www.hoteleuropeca.ro/	
	Tel: +40 751 224 794	
	Fax: +40 251 419 586	
Hotel PARC http://www.hotelparc.go.ro		
	Tel.: +40 251 417 257	
Hotel RAMADA PLAZA	http://www.ramadaplazacraiova.ro/eng/	
	Tel.: + 40 351 100 200	
Mansion LUISA	Tel.: +40 251 411 735	
http://www.turistinfo.ro/craiova/cazare-		
craiova/pensiunea_luisa-c58771.html		
Hotel BAVARIA Tel.: +40 251 414 449		
	http://www.hotel-bavaria.ro/	
	office@hotel-bavaria.ro	
	hotel-bavaria@yahoo.com	

ARRIVING IN / DEPARTURE FROM CRAIOVA By air

Your place of arrival in Romania will be most likely the "Henri Coandă" International Airport near Bucharest or International Airport Craiova (http://www.aeroportcraiova.ro/). When you show your passport and visa to the immigration officers, you may be asked why you have come to Romania and also whether you have enough money to cover your costs of living plus a return ticket. You will avoid delays if you have all your papers handy: your passport and documents indicating your official acceptance by the university and your proof of financial

support. Before you go through customs you can exchange money at a counter in the luggage-collecting hall. The exchange rate is almost as good as you will get anywhere. To proceed to Craiova, you can take a taxi/bus from the airport to the Railway Station (Gara de Nord) in Bucharest.

By rail

If you wish to travel from Bucharest to Craiova by rail (http://www.infofer.ro/), you will have to leave from Bucharest Nord railway station. There are 250 km between Bucharest and Craiova and the journey will take you between 3 hours. We recommend you travel by the Rapid trains (fast) or Intercity, which stop only in a few stations. A single ticket for Intercity ("Blue Arrow") costs approx. 12 EUR. The first class ticket for rapid train costs aprox. 20 EUR.

NOTE: There are also other trains coming to Craiova during the day and night.

By car

The trip by car to CRAIOVA is very nice and easy. Navigation coaches are not difficult if you have a **route map of Romania**.

There are also regular buses that are running to/from Greece, Turkey, Czech Republic, Austria, Bulgaria, Serbia, Hungary, Italy, France, Spain and Germany.

LOCAL TRANSPORT

For transport one can use bus, electric tram, maxi-taxi and taxi.

Tickets for buses, maxi-taxi and electric trams can be bought from the red-painted booths that are in most stops. You can also buy tickets from the drivers. Tickets should be punched immediately after you get on board. Bus/trolley/tram fare is 2,00 lei (RON) per single ticket and 3,5 lei (RON) per return ticket. Station —Facultatea de Agronomie (http://www.rat-craiova.ro/).



Taxi

There are many taxi companies in town. They have quite a few types of cars, usually painted in yellow. Price is between 1,35 lei/km and 1,45 lei/km (about 0.32 EUR). Starting price is about 1,35 lei (0.32 EUR).

Phone numbers: 0251- 953, 0251-411500; 0251-590002.

BUSINESS HOURS (SHOPS, BANKS, POST OFFICES)

Most of the shops in Craiova are open between 9:00 and 19:00 hours. During weekends, shops are open on Saturdays, between 9:00 and 14:00 hours. There are some non-stop supermarkets, too.

In general, banks are open from 9.00 to 16.00 hours from Monday to Friday. Post offices open at 7.00 and close at 20.00 hours.

CLIMATE

The Romanian climate is characterized by hot summers and cold winters. In November, there will be fairly hot days (above 15-18°C) and you will want to wear autumn clothes.

Language: Working language of the meeting is English; translations will not be provided.

Facilities: Overhead/slide projectors and PowerPoint projectors will be provided for the presentations. A computer room with internet connection will be open during the Conference.

Currency

The legal tender is the Romanian Leu (RON). You will be able to change your money in hotels. The approximate exchange rate is 1 EUR = 4.5189 RON.

Invitation letter/ Certification of attendance: If you need official invitation to obtain visa to attend the meeting, you must register for the meeting and submit abstract. For security purposes, letters will not be sent to attendees who do not meet these requirements. Invitation letters will not be processed until you have registered and paid for the registration fees. This letters will be provided to help participants rise conference attendance funding and to obtain visas. All participants and accompanying person should have a valid passport. A certificate of attendance will be given to the registered participants upon request.

SCIENTIFIC PROGRAMME

12th ANNUAL MEETING - "DURABLE AGRICULTURE — AGRICULTURE OF THE FUTURE"

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Abstracts

At the meeting it is possible to present ORAL CONTRIBUTION (max. duration 15 min), or POSTERS (maximal size: width 80 cm, height 100cm). The one page abstract of not more than 250 words, should be submitted to the Local Organizers. Please, send the abstract by E-mail (E-mail address: agronomie_cv@yahoo.com) and as hard copy on A4 (210x297), with 3 cm margins on either side and with the best possible quality of printing (camera-ready). It has to contain: Working group N° (on upper side), the title (in capitals), name and surname of author(s), affiliation and full mailing address of authors, and E-mail address if any. The text should be typed using Microsoft word 2007 (or earlier version) in 12 point "Arial" font (as informative as possible) according to the following example:

Working group N° 1 (oral presentation / poster)

DISTRIBUTION OF RISK POLLUTANTS IN SOIL FROM THE VICINITY OF A PETROCHEMICAL CENTER

Sechman A. (1) and A. Lysak (2)

- (1) University of Agriculture, Department of Animal Physiology, Al. Mickiewicza 24/28, Krakow, Poland; e-mail: rzsechma@cyf-kr.edu.pl
- (2) National Research Institute of Animal Production, Balice n. Krakow, Poland; E-mail: bature@op.pl

The text should be typed using Microsoft word 2007 (or earlier version) in 12 point "Arial" font (as informative as possible).

We ask you to send the abstract until the dead line, in order to edit the abstracts volume. Each author is allowed to present a maximum of two papers as first author.

Proceedings

The Proceedings will be published in a special issue of the "ANNALES OF THE UNIVERSITY OF CRAIOVA, AGRICULTURE, MONTANOLOGY, CADASTRE SERIES,,-ISSN 1841-8317; ISSN CD-ROM 2066-950X, after the Congress, only for papers from the participants of the Congress, and after comments made by referees. Starting from 2010 the journal papers it is quoted by National Council of the Scientific Research from The Academically Education in the "B+" category and are indexed by CABI, Index Copernicus, Ulrich, Google Scholar, Doaj, CiteFactor, Bielefeld Academic Search Engine - http://anale.agrocraiova.ro/

A participant it is allowed to present a maximum of two papers as first author, from which obligatory one paper will be presented on public session or poster sessin.

The dead line for sending the full paper is 10 of November 2016 by E-mail (E-mail address: agronomie cv@yahoo.com).

PAPERS EDIT INSTRUCTIONS (can be found on the web site of journal-http://anale.agro-craiova.ro/index.php/aamc/about/submissions#authorGuidelines)

- document format it is asked to use Microsoft Office Word (2007);
- ➤ page: A4 (210x297mm) page size; 2 cm page boundary;
- > the papers will obligatory include the next elements: abstract, introduction, materials and methods, research results, conclusions and bibliography;
- > title: uppercase, bold, centred in Romanian and English, ARIAL14;
- > author: ARIAL 12, bold, italic, right side;
- > keywords: ARIAL 10, bold, left side;
- > abstract: in Romanian and English, ARIAL 12, italic, a space side after;
- > paper section: uppercase, ARIAL 12, bold, centred;
- > paper text: ARIAL 12, justify, 1,25 cm paragraph indent;
- > tables: title with small characters, bold, centred, the table number on the right side, ARIAL 12, italic, bold;
- > figures, pictures numbered, ARIAL 10, centred
- ➤ bibliography: on alphabetic order, ARIAL 12 bold authors, the title of the paper and publishing with ARIAL 12 italic
- > no page number included.

POSTER PRESENTATION CONDITIONS:

- > Format 90/70 cm on high side;
- > Title (Bold, 72), authors (Bold, 36), and institution (Bold, 26)

GENERAL PROGRAMME

12th ANNUAL MEETING - "DURABLE AGRICULTURE - AGRICULTURE OF THE FUTURE"

17th-18th November 2016, Craiova, ROMANIA

Date	Event	Location
Thursday 17.09.2016	Registration (08.30-09.30)	Faculty of Agronomy 19 Libertătii street
	Coffee break (09.00-09.30)	
	Opening Ceremony (10.00-10.30)	Aula ,, Alexandru Buia,, - Faculty of Agronomy
	Plenary Session (10.30-12.30)	
	Lunch (12.30-14.00)	Faculty of Agronomy
	Working Groups Sessions Committee Meeting (14.00-16.00)	Faculty of Agronomy (L 114 and Aula ,, Alexandru Buia,,)
	Coffee break (16.00-16.30)	
	Working Groups Sessions Committee Meeting (16.30-18.00)	
	Poster Session (18.00-19.00)	
	Gala dinner 19.30-24.00	
Friday 18.09.2016	Tourist visit	Trip to the North of Oltenia – Traditional lunch

The final schedule of the scientific sessions, lectures and posters, will be provided during the registration.

The sessions of Working Group Sessions will be organized by the chairpersons of Working Groups.

See you in CRAIOVA in NOVEMBER 2016!



Tourist Objectives in Craiova

• The oldest construction in Craiova which was kept as testimonial is Coşuna Monastery - Older Bucovat, but from all the initial ensemble, only the church is preserved today. Even if the stone inscription indicates the following date: 3 of December 1572, an older cartography sustains that the monastery was built 1483. In terms of architectural style, the church was built in mountainous style, characterized by the synthesis of popular autochthon elements and Byzantine elements.



• "Jitianu" Monastery, is considered the foundation of Serban Voievod (1654-1658). Churches in Brancovenesc style: Saint Ilie — built in 1720 by the boyar Ilie Oteteliseanu and the higher chapmen of the city (painted by the artist C. Lecca, between 1840-1841, restored in 1893, the actual painting being the one executed by Ghe. Ioanid and Ghe. Tatarescu), Church of all Saints (1700), Old St. Gheorghe Church (1730), Monastery Obedeanu (1747), Church Mantuleasa (1786), Church Saint Nicolae (1794).



• The Metropolitan Bishopric of Oltenia, was built by Matei Basarab in 1652. Affected by the earthquake from 1840, the church was closed until 1889, when the restoration work began under the leadership of the architect Andre Lecomte de Nouy which built from the groundwork the actual construction, without complying with the old style.



• Baniei's Home, the oldest building which exists today in the city, dating from 1699. Restored by Constantin Brancoveanu, Baniei's Home has two levels, with rooms with bolts of brick, with rooms and thresholds upstairs. Was built by old handed architects of the regnant, in a popular style. Here used to be held Craiova's divan, and in the time of Austrian occupation it was the residence for the prevailfogs. After this the building was successive: for Murtaza Pasa (1737-1739), private home for the bishop, first local school in Craiova (1750), premise for the High Court, local school -Gymnasium Brothers Buzesti (1896-1914) and normal school of mistresses, premise for Oltenia' Museum (1934-1948) and for the ward of ethnography (from 1967).



• "Jean Mihail" Palace (the actual Museum of Art), is located in the sumptuous palace of the former magnate Jean Mihail. Built between 1899-1907, according to the plans of the French Paul Gottereau, the palace represents, stylistically, a rather free interpretation of the late baroque.



• Vorvorenilor's Home — present residence of the Oltenia's Metropolitan — is a palace built after the plans of the architect D. Maimarolu; he presents the late influence of the French Renaissance, characterized by attic roofs, a multitude of ornaments and richly decorated interiors.



 The University - the former Palace of Justice, was designed in 1890 by the architect Ion Socolescu and it is an illustration of the neoclassicism in architecture.



• Another distinct construction is the former Bank of Commerce, now City Hall of Craiova. Designed by the architect Ion Mincu, was finished in 1916 by his student or Constantin Iotzu. The building has a rich decorated interior, with set off ornaments, stained glasses, Venetian mosaic and lattices from cast iron.



• An interesting, vigorous construction with architectonical, popular characters is the former Administrative Palace, today headquarters for the Prefecture and the Council of Dolj. Creation of the architect Petre Antonescu this building was realized between 1912-1913.



• After the 1-st World War, on stylistic plan remains the by affirmation of the national elements in art. In Craiova of this period was built so-called White House (on one side of the central garden – English Park – realized in London square style), after the plans of the architect Constantin Iotzu. From the contemporary achievements we have to mention the new edifice of the National Theatre inaugurated in 1973.



• Another attraction point of Craiova is "Nicolae Romanescu" Park, unique in Romania and one of the most interesting achievements of this type from Europe. The project, creation of the French architect E. Redont, received the Gold Medal at the International Exhibition from the Paris, in 1900. The total area of the park consists in over 96 ha of plantation (trees, lawns, shrubs), a stretch of water of 4 ha, a racecourse of over 20 ha, roads, avenues and pathways on a stretch of 35 km. There is also a zoo, where it can be seen especially species of birds, autochthon animals and foreign also.



• Botanical Garden was arranged by the initiative of Al. Buia, in order to serve as a study base for the students from the faculties of Agronomy and Horticulture as well as recreation area. The garden has an area of 17 ha and is bordered on distinct sectors: ornamental (about 4.5 ha), systematically, the globe's flora, economically.



The "Marin Sorescu" National Theatre

The Marin Sorescu National Theatre occupies a special place in the history of the Romanian theatre. Founded in 1850 by Costache Caragiale and Costache Mihailescu, it continued to function, in spite of all the convulsions characterizing the history of our nation.



OTHER OBJECTIVES









Contact persons:

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Junior Lecturer dr. Marius MILUŢ, e-mail: marius_milut@yahoo.com Junior Lecturer dr. Dragoş MEDELETE, e-mail: medelete@yahoo.com

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Proceedings web site: http://anale.agro-craiova.ro/