

# UNIVERSITY OF CRAIOVA FACULTY OF AGRONOMY



## University of Craiova / 75 years / Tradition, Achievement, Vision



## The 18<sup>th</sup> ANNUAL MEETING "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"

10<sup>th</sup>-11<sup>th</sup> November 2022, Craiova, Romania



## **ANNIVERSARY CONFERENCE in hybrid form**

**The 18<sup>th</sup> ANNUAL MEETING  
"DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"**

**Organiser:  
UNIVERSITY OF CRAIOVA - FACULTY OF AGRONOMY**

**Particular focus of the conference:**

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

**10<sup>th</sup>-11<sup>th</sup> November 2022, Craiova, Romania**

**PARTENERI:  
*CONSAGRO CRAIOVA***

## ***Dear Colleagues,***

*On behalf of the organizing committee it is our pleasure to invite you to participate in the 18<sup>th</sup> **"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<sup>th</sup> 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 University of Craiova is the most important source of knowledge, creativity, and innovation from the region. The innovation effect, which it has to produce for the community and for the Euro-region is one of the main institutional objectives. Our university will become a strategic point of the regional economy and promoter of the competitive, participative, inclusive economy principles.*

*The University of Craiova was founded within the university center system in Romania in the second half of the 20<sup>th</sup> 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.*

*Currently, UCV is a comprehensive institution, made up of 11 faculties, 34 departments, out of which 7 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.*

*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).*

*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 2021/2022 is 1108.*

*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 2022.*

***Welcome to Craiova, Romania!***

# 18<sup>th</sup> ANNUAL MEETING - "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"

10<sup>th</sup>-11<sup>th</sup> November 2022, Craiova – ROMANIA

The meeting is jointly organized by:  
Faculty of Agronomy - University of Craiova

## **ORGANIZING COMMITTEES:**

### **Meeting Chairmans**

Prof. dr. eng. habil. Aurel Liviu OLARU, Dean of the Faculty of Agronomy, University of Craiova  
e-mail: liviu.olaru.dtas@gmail.com  
Phone: +40-251-418475  
Fax: +40-251-418475

### **Meeting Co-Chairmans**

Assoc. Prof. dr. Mariana NICULESCU,  
Vice-Dean of the Faculty of Agronomy, University of Craiova  
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Phone: +40-251-418475  
Fax: +40-251-418475

## **HONORARY COMMITTEE**

Prof. dr. eng. Cezar Ionuț SPÎNU, Rector of University of Craiova  
Prof. dr. eng. Răzvan Ionuț TEODORESCU, Rector of the University of Agronomic Sciences and Veterinary Medicine of Bucharest  
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Prof. dr. eng. Menković NEBOJŠA, Faculty of Agriculture, University of Belgrade, Serbia  
Prof. dr. Nedim KOSUM, Dean of the Agricultural Faculty, Ege University  
Prof. assoc. dr. Iurie MELNIC, First Vice-rector, State Agrarian University of Moldova  
Prof. dr. Monica Tereza BOSCAIU, Polytechnic University of Valencia, Spain  
Prof. Dr. Oscar VICENTE, Polytechnic University of Valencia, Spain  
Prof. Multiple Dr. H. C. Stefano GREGO, Honorific President of ESNA, World Agricultural Heritage Foundation - Chairman of Scientific Committee, Deputy Director of CIRPS, Italy  
Prof. dr. Belgin SÜSLEYİCİ, Marmara University, Istanbul, Turkey  
Prof. dr. Joaquim Fernando MOREIRA DA SILVA, University of the Azores, Portugal

## **SCIENTIFIC COMMITTEE**

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Prof. dr. Isidora RADULOV, Vice-Rector of the Banat University of Agricultural Sciences and Veterinary Medicine "King Mihai I of Romania" in Timisoara  
Prof. dr. Dan C. VODNAR, Vice-Rector of the University of Agricultural Sciences and Veterinary Medicine of

## Cluj-Napoca

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Prof. dr. eng. habil. Aurel Liviu OLARU, Dean of the Faculty of Agronomy, University of Craiova

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

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Dr. Agnieszka LISOWSKA-LIS, State Higher Vocational School in Tarnow, Poland

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Prof. dr. Prof. dr. Eftal DÜZYAMAN, Vice-Dean of the Agricultural Faculty, Ege University, Izmir, Turkey

Prof. dr. Hakan GEREN, Head of Department, Ege University, Agricultural Faculty, Izmir, Turkey, Head of Department

Prof. dr. Khosro SAGHEB-TALEBI, Research Institute of Forests and Rangelands (RIFR) Agricultural Research, Education and Extension Organization (AREEO), Ministry of Agriculture, Tehran, Iran

Prof. dr. Ahmet D. DUMAN, Mustafa Kemal University, Faculty of Agriculture, Antakya, Hatay, Turkey

Prof. asst. dr. M. Cuneyt BAGDATLI, University of Nevşehir Hacı Bektaş Veli Engineering and Architecture Faculty, Department of Biosystem Engineering, Turkey

Prof. dr. eng. Florin IMBREA, Dean of the Faculty of Agriculture, Banat University of Agricultural Sciences and Veterinary Medicine "King Mihai I of Romania" in Timisoara

Prof. dr. eng. Costică CIONTU, Dean of the Faculty of Agriculture, University of Agronomic Sciences and Veterinary Medicine of Bucharest

Prof. dr. eng. Roxana VIDICAN, Dean of the Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca

Assoc. Prof. dr. Denis ȚOPA, Dean of the Faculty of Agriculture, "ION IONESCU DE LA BRAD" University of Agricultural Sciences and Veterinary Medicine of Iași

Prof. univ. dr. habil. Leonard ILIE, Vice-Dean of the Faculty of Agriculture, University of Agronomic Sciences and Veterinary Medicine of Bucharest

Prof. dr. Vlado LICINA, Faculty of Agriculture, University of Belgrade, President of ESNA

Assoc. Prof. dr. Ender BUĞDAY, Çankırı Karatekin University, Faculty of Forestry, Department of Forest Engineering, Forest Construction and Transportation Division, Turkey

Dr. Selin Yabaci KARAOĞLAN, Adana Science and Technology University, Faculty of Engineering and Natural Sciences, Turkey

Dr. Gurveen Arora, Indian Council of Forestry Research and Education Dehradun, Uttarakhand, India

Dr. eng. Seda ERKAN BUĞDAY, Food and Agriculture Vocational School, Forestry Department, Çankırı, Turkey

Prof. dr. eng. Dragomir BRUMAR, Faculty of Agronomy, University of Craiova

Prof. dr. eng. Aurel CĂLINA, Faculty of Agronomy, University of Craiova

Prof. dr. eng. habil. Cătălin Aurelian ROȘCULETE, Faculty of Agronomy, University of Craiova

Prof. dr. habil. Ion SĂRĂCIN, Faculty of Agronomy, University of Craiova, Agricultural and Forestry Sciences Academy "Gheorghe Ionescu Șişești", Romania

Prof. dr. eng. Marin SOARE, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Marius Paraschivu, Faculty of Agronomy, University of Craiova

Prof. dr. eng. Marin ȘTEFAN, Faculty of Agronomy, University of Craiova

Prof. dr. eng. habil. Elena ROȘCULETE, Faculty of Agronomy, University of Craiova

Prof. dr. eng. habil. Elena BONCIU, Faculty of Agronomy, University of Craiova

Prof. dr. eng. habil. Marius VLADU, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Sorin Petruț BORUZ, Vice-Dean of the Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Marius MILUȚ, Vice-Dean of the Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Mihai CICHÎ, Head of Department, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Alin CROITORU, Head of Department, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Emilia CONSTANTINESCU, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Mugurel COLĂ, Faculty of Agronomy, University of Craiova



Prof. assoc. dr. eng. Radu Lucian PÂNZARU, Faculty of Agronomy, University of Craiova

**SECRETARY COMMITTEE**

Prof. assoc. dr. eng. Jenica CĂLINA, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Paula IANCU, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Petre SĂVESCU, Faculty of Agronomy, University of Craiova

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Prof. assoc. dr. eng. Gheorghe MATEI, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Ilie Silvestru NUȚĂ, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Cătălin Viorel POPESCU, Faculty of Agronomy, University of Craiova

Prof. assoc. dr. eng. Cristian POPESCU, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Mihaela BĂLAN, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Florica COLĂ, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Florina GRECU, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Alina Marilena PRIOTEASA, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Mirela PARASCHIVU, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Andi CIOBANU, Faculty of Agronomy, University of Craiova

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

Junior Lecturer dr. eng. Marin DOBRE, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Dragoș MEDELETE, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Călin SĂLCEANU, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Mihai SUSINSKI, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Ovidiu PĂNIȚĂ, Faculty of Agronomy, University of Craiova

Junior Lecturer dr. eng. Cristian VASILE, Faculty of Agronomy, University of Craiova

Dr. eng. Irina Marilena CROITORU, Faculty of Agronomy, University of Craiova

## KEYNOTE SPEAKERS:



**Prof. Rositsa DAVIDOVA, PhD,  
Vice-Rector, SHUMEN UNIVERSITY, BULGARIA**



**Prof. dr. Teresa DE JESUS FIDALGO FONSECA  
UNIVERSIDADE DE TRÁS-OS-MONTES E ALTO DOURO  
VILA REAL, PORTUGAL**



**Prof. dr. eng. Markovic NEBOJŠA  
UNIVERSITY OF BELGRADE,  
FACULTY OF AGRICULTURE, SERBIA**



**Prof. dr. Joaquim Fernando MOREIRA DA SILVA  
UNIVERSITY OF THE AZORES, PORTUGAL  
SCHOOL OF AGRARIAN AND ENVIRONMENTAL SCIENCES**



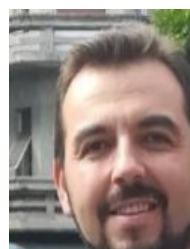
**Sen. Lect. Magdalena KOLEVA, PhD,  
SHUMEN UNIVERSITY, BULGARIA**



**Prof. dr. eng. Menković NEBOJŠA  
UNIVERSITY OF BELGRADE,  
FACULTY OF AGRICULTURE, SERBIA**



**DR. ENG. SEDA ERKAN BUĞDAY  
FOOD AND AGRICULTURE VOCATIONAL SCHOOL,  
FORESTRY DEPARTMENT, ÇANKIRI, TURKEY**



**Assoc. Prof. dr. eng. Zoran PRŽIĆ  
UNIVERSITY OF BELGRADE,  
FACULTY OF AGRICULTURE, SERBIA**



**DR. ENG. DARIUSZ KULUS  
BYDGOSZCZ UNIVERSITY OF SCIENCE AND  
TECHNOLOGY, FACULTY OF AGRICULTURE AND  
BIOTECHNOLOGY, POLAND**

## GENERAL INFORMATION

### Conference venue

**The 18<sup>th</sup> 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: alinapri76@gmail.com or medelete@yahoo.com.

**Conference registration:** **Before November 1<sup>st</sup> 2022**, 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:

- **250 RON** for the Romanian participant, physically present;
- **150 RON** for the Romania accompanying person, physically present;
- **70 de Euro** for the foreigner participant, physically present;
- **35 de Euro** for the foreigner accompanying person, physically present;
- **200 RON** for the Romanian participant, in the on-line system;
- **40 de Euro** for the foreigner participant in the on-line system

### PAYMENT INFO (FOR RON):

BY BANK TRANSFER AT THE FOLLOWING ACCOUNTS:

Beneficiary: ASOCIATIA CONSAGRO CRAIOVA

Address: 19 Libertatii Street, CRAIOVA

Name of Bank: Banca Transilvania

IBAN Code: RO69BTRL01701205N98863XX

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 EURO)

BY BANK TRANSFER AT THE FOLLOWING ACCOUNTS:

Beneficiary: ASOCIATIA CONSAGRO CRAIOVA

Address: 19 Libertatii Street, CRAIOVA

FN CRAIOVA FN DOLJ RO

Name of Bank: Banca Transilvania

IBAN Code: RO68BTRLEURCRT00N9886301

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 information material including the Books of Abstracts;
- *publication for two papers in our journal „**ANNALES OF THE UNIVERSITY OF CRAIOVA, AGRICULTURE, MONTANOLOGY, CADASTRE SERIES**,,*
- Coffee breaks;
- Lunche on November 10;
- Gala dinner.

The participation fee **does not include:** accommodation



## **The organizers do not provide hotel reservations.**

Please consult hotel vacancies:

### **Hotels:**

Hotel EUROPECA	<a href="http://www.hoteleuropeca.ro/">http://www.hoteleuropeca.ro/</a>
	Tel: +40 751 224 794 Fax: +40 251 419 586
Hotel PARC	<a href="http://www.hotelparc.go.ro">http://www.hotelparc.go.ro</a>
	Tel.: +40 251 417 257
Hotel RAMADA PLAZA	<a href="http://www.ramadaplazacraiova.ro/eng/">http://www.ramadaplazacraiova.ro/eng/</a>
	Tel. : + 40 351 100 200
Hotel BAVARIA	Tel.: +40 251 414 449
	<a href="http://www.hotel-bavaria.ro/">http://www.hotel-bavaria.ro/</a>
	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 International Airport Craiova (<http://www.aeroportcraiova.ro/>) or "Henri Coandă" International Airport near Bucharest. 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. 72 Lei (14,5) EUR. The first class ticket for rapid train costs 106 lei (21,5 EUR).

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

### **By car**

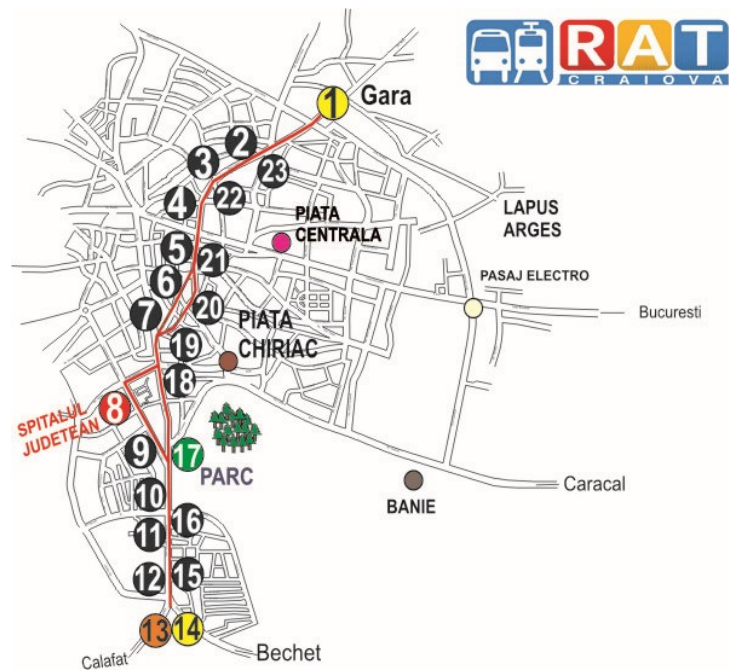
The trip by car to CRAIOVA is very nice and easy. Navigation coaches are not difficult if you have a [route map of Romania](#).

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 2,50 lei (RON) (2 Euro). 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 1,99 lei/km and 2,29 lei/km (about 2,18 EUR).

Starting price is about 1,99 lei 2,51 EUR).

Phone numbers: 0251- 953; 0251-542 727; 0722 142 727

### **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 = 4.9310 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**  
**18th ANNUAL MEETING "DURABLE AGRICULTURE – AGRICULTURE OF THE FUTURE"**  
**10<sup>th</sup>-11<sup>th</sup> November 2022, Craiova, ROMANIA**

**Abstract**

At the meeting it is possible to present ORAL CONTRIBUTION (max. duration 15 min), or POSTERS (maximal size: width 90 cm, height 70 cm). 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](mailto: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), first name and family name of author(s), institution (affiliation) and full mailing address of authors, Corresponding author email, Key words, text of the abstract. **The work will be edited using MS Word 2010-2016.**

**Paper Title:** edited in capitals, edited in Arial, 14 point font, alignment centered. The title should describe the article's content clearly and precisely.

**Authors:** one space row down from the paper title, edited in Arial, 12 point font, bold, alignment centered, as follows: author's first name in small letters followed by family name in capitals. If there are more authors than one and belonging to various institutions, they have to be marked by (1), (2), (3) etc. superscript for identifying the institutions they belong to (if all authors belong to one institution, they will be not marked). **Each work can have a maximum of 6 authors.**

**Institution:** one space row down from the authors' name, edited in Arial, 11 point font, italic, alignment text Right. The institutions will be marked by (1), (2), (3) etc. superscript, as mentioned before for authors. The institution will be followed by the address: number, street, locality, country, e-mail address.

**Corresponding author email:** Please, mention the Corresponding author email, at one space row down from the name of institutions, edited in Arial, 11 point font, bold, small letters, alignment centered.

**Key words:** one space row down from the abstract text, edited in Arial 11, as follows: Key words: edited in bold and italic characters, next two points and then maximum 5 representative words in alphabetical order in italics, no bold, alignment left. The text should be typed using MS Word 2010-2016, edited in Arial, 12 point font, alignment Justify (as informative as possible), space row down from the Key words, according to the following example:

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Working group N° 2 (oral presentation/poster)

**SOIL ANALYSIS AND INTERPRETATION FOR ESTABLISHING  
TOMATO CROP**

**Cătălin Viorel POPESCU(1) and Maria DINU(2)**

(1) *University of Craiova, Faculty of Agriculture, The Department of Agricultural and  
Forestry Technology, 19 Libertății Street no 19 ,200583, Craiova, Romania,  
E-mail: [catalin.popescu@gmail.com](mailto:catalin.popescu@gmail.com)*

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**Key words:** *Solanum lycopersicum L., soil analysis, soil properties, weak alkaline soils*

**Abstract**

Tomatoes (*Solanum lycopersicum* L.), are one of the most consumed species in the world. Their fruits have a high vitamin, mineral salts and oligoelements

content, as a good human health support. Can be consumed as fresh products or processed as juice, sauce or ketchup.

Due to these properties, the way their harvests are obtained have to be managed properly. The study aimed to emphasize the importance of the soil analysis in order to establish an open field tomato crop. The trial was established in 2018 in Hanu Conachi, Galați department (45°35'8"N27°36'12"E).

There are presented observations and measurements on the soil content of the available macro-and micronutrients compared to the total nutrient content, for the establishment of the tomato crop. It can be observed that, for weak alkaline soils, the total phosphorous content versus the available phosphorous is 25 -30 times higher, due to the blockages with the soil cations. The analysis of the soil's texture showed variations within the same plot designated for the establishment of the tomato crop.

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### **PROCEEDINGS**

The Proceedings will be published in a special issue of the „**ANNALS 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.

This journal are indexed by CABI (Centre for Agriculture and Biosciences International), Index Copernicus, ProQuest, Bielefeld Academic Search Engine (BASE), Google Scholar, Ulrich's Periodicals Directory, CiteFactor, Scinapse, DOAJ, Journal Guide – American Journal Experts, Bielefeld Academic Search Engine (<https://anale.agro-craiova.ro/index.php/aamc/index>).

**A participant it is allowed to present a maximum of 2 (two) papers as unique or the first author, from which obligatory one paper will be presented on public session or poster session.**

**The dead line for sending the full paper is 6<sup>th</sup> of November 2022. The registration form, the abstract and the full papers will be sent using the conference website but also to e-mail address: [agronomie\\_cv@yahoo.com](mailto:agronomie_cv@yahoo.com)).**

**PAPERS EDIT INSTRUCTIONS** (can be found on the web site of journal-<https://agriculturadurabila.ucv.ro/instructions-for-authors/>)

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### **Acknowledgements**

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# GENERAL PROGRAMME

10<sup>th</sup>-11<sup>th</sup> November 2022 Craiova, ROMANIA

Date	Event	Location
Thursday 10.XI.2022	Registration (09.00-10.00)	Faculty of Agronomy (19 Libertății street)
	Opening Ceremony (10.00-10.45)	Aula "Alexandru Buia" - Faculty of Agronomy (19 Libertății street)
	Cultural moment (10.45-11.00)	🚩 A bit of culture "November waltzes" OCTAVIAN GORUN AND CORINA STĂNESCU, "OLTENIA PHILHARMONIC" Craiova
	Coffee break (11.00-11.30)	Faculty of Agronomy, 1st floor
	Plenary Session (11.30-14.00)	Aula "Alexandru Buia" - Faculty of Agronomy 🚩 Plenary Session-Invited Speakers: ➤ Prof. Rositsa DAVIDOVA, PhD, Vice-Rector, SHUMEN UNIVERSITY, BULGARIA ➤ Prof. dr. Teresa DE JESUS FIDALGO FONSECA UNIVERSIDADE DE TRÁS-OS-MONTES E ALTO DOURO, VILA REAL, PORTUGAL ➤ Prof. dr. eng. Markovic NEBOJŠA, UNIVERSITY OF BELGRADE, FACULTY OF AGRICULTURE, SERBIA ➤ Prof. dr. Joaquim Fernando MOREIRA DA SILVA UNIVERSITY OF THE AZORES, PORTUGAL, SCHOOL OF AGRARIAN AND ENVIRONMENTAL SCIENCES ➤ Sen. Lect. Magdalena KOLEVA, PhD., SHUMEN UNIVERSITY, BULGARIA ➤ Prof. dr. eng. Menković NEBOJŠA UNIVERSITY OF BELGRADE, FACULTY OF AGRICULTURE, SERBIA ➤ Assoc. Prof. dr.eng. Zoran PRŽIĆ, UNIVERSITY OF BELGRADE, FACULTY OF AGRICULTURE, SERBIA ➤ Dr. eng. Seda ERKAN BUĞDAY, FOOD AND AGRICULTURE VOCATIONAL SCHOOL, FORESTRY DEPARTMENT, ÇANKIRI, TURKEY ➤ Dr. eng. Dariusz KULUS FACULTY OF AGRICULTURE AND BIOTECHNOLOGY, BYDGOSZCZ UNIVERSITY OF SCIENCE AND TECHNOLOGY, BYDGOSZCZ, POLAND
	Lunch (14.00-15.00)	Faculty of Agronomy, 1st floor
	Working Groups Sessions (15.00-18.30)	Faculty of Agronomy (Aula "Alexandru Buia")
	Poster Session (17.00-18.30)	Faculty of Agronomy, 1st floor
	Gala dinner (19.00-24.00)	"Prestige" Restaurant, 15 Matei Basarab street, Craiova
Friday 11.XI.2022	Conclusions; Closing Ceremony	Faculty of Agronomy (Aula "Alexandru Buia")

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.

**Contact persons:**

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**Conference web site:** <http://www.agro-craiova.ro/>

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**Deadlines:**

- **Conference registration: Before November 1<sup>st</sup> 2022**
- **Submission of abstract: 1<sup>st</sup> November, 2022**
- **Submission of full papers (max. 2 for first author, 6<sup>th</sup> of November 2022)**

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