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MINISTERUL EDUCAȚIEI ȘI CERCETĂRII



- Program -

**INTERNATIONAL SYMPOSIUM**

**ISB-INMA TEH**

**TECHNOLOGIES AND TECHNICAL SYSTEMS  
IN AGRICULTURE, FOOD INDUSTRY  
AND ENVIRONMENT**

**- 2025 -**

**09 – 11 October**

## October 9<sup>th</sup>, 2025

- ISB, D-101 Hall -

15<sup>00</sup> – 16<sup>00</sup>

*Participants registration*

16<sup>00</sup> – 18<sup>00</sup>

*Opening speeches*

- Gigel PARASCHIV *State Secretary – Ministry of Education and Research*
- Mihnea COSTOIU *Rector – National University of Science and Technology Politehnica Bucharest*
- Tudor PRISECARU *President of the Senate - National University of Science and Technology Politehnica Bucharest*
- Ion PIRNĂ *Preşedinte Secția Mecanizare – Academia de Științe Agricole și Silvicultură*
- Sorin Ștefan BIRIȘ *Dean - Faculty of Biotechnical Systems Engineering, National University of Science and Technology Politehnica Bucharest*
- Valentin VLĂDUȚ *General Manager, National Institute of Research-Development for Machines and Installations Designed for Agriculture and Food Industry – INMA Bucharest*

*Keynote speeches*

- Paolo Maurizio ROCCHI *General Manager Maschio Gaspardo Romania – “Sustainability strategies and technologies used in the production of Maschio Gaspardo agricultural machinery”*
- Marian GRIGORE *Ensuring the quality of solid biofuels from horticultural biomass through production flow optimization*
- Sorin Ștefan BIRIȘ *Presentation of the Faculty of Biotechnical Systems Engineering*
- Mihai-Gabriel MATACHE *INMA Bucharest – Engineering Sustainable Agriculture*

18<sup>00</sup> – 21<sup>00</sup>

*Festive Dinner (ISB Faculty Building)*

## October 10<sup>th</sup>, 2025

9<sup>00</sup> – 09<sup>30</sup>

*Participants registration*

9<sup>30</sup> – 11<sup>00</sup>

*Presentation of papers on sections (ORAL)*

- SECTION 1 / 3- POWER AND MACHINERY / FOOD INDUSTRY (D-101 Hall)
- SECTION 2 - ECOLOGY & ENVIRONMENT (D-117 Hall)
- SECTION 4 - YOUNG PEOPLE (Ph.D. Students) (D-115 Hall)

11<sup>00</sup> – 11<sup>30</sup>

*Coffee break*

11<sup>30</sup> – 13<sup>30</sup>

*Presentation of papers on sections (ORAL)*

- SECTION 1 / 3- POWER AND MACHINERY/ FOOD INDUSTRY (D-101 Hall)
- SECTION 2 - ECOLOGY & ENVIRONMENT (D-117 Hall)
- SECTION 4 - YOUNG PEOPLE (Ph.D. Students) (D-115 Hall)

9<sup>30</sup> – 12<sup>30</sup>

*Presentation of papers on sections (POSTER)*

*- ground floor hallway -*

- All sections

13<sup>00</sup> - 14<sup>30</sup>

*Lunch*

14<sup>30</sup>-16<sup>30</sup>

*Workshops*

- PNRR-III-C9-2022 – I5 CeSoH, PS3, Fertile and healthy soil through conservative and biological practices (D-101 Hall)
- Current technologies for weed control in field crops / Tehnologii curente pentru combaterea buruienilor in culturile de câmp (D-117 Hall)
- Crop Rotation Optimisation for Sustainable Agriculture in Romania (D-117 Hall)

## October 11<sup>th</sup>, 2025

**Symposium 1 day excursion**

**09:00** - leaving from the Faculty of Biotechnical Engineering Systems, visit to the Research & Development Institute for Fruit Growing (ICDP) Pitești-Mărăcineni, the National Research–Development Institute for Biotechnologies in Horticulture Ștefănești-Argeș, Golești Museum of Viticulture and Fruit Growing, lunch at “Casa Tanti Maria” Restaurant in Golești, Argeș County – return to Bucharest in the evening

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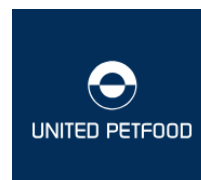
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**INTERNATIONAL SYMPOSIUM *ISB-INMA TEH* 10 October 2025**

<b>SECTION 1 - POWER AND MACHINERY - ORAL PRESENTATION</b>		<b>SECTION 2 - ECOLOGY &amp; ENVIRONMENT - ORAL PRESENTATION</b>	
<b>Chairman:</b> MAICAN Edmond / EKIELSKI Adam / MATACHE Mihai / Onder KABAS		<b>Chairman:</b> ISTRATE Irina / ŻELAZIŃSKI Tomasz / MARIAN Grigore / Cagatay SELVI	
<p><b>AERODYNAMIC RESPONSE OF PEPPER SEEDS TO VARYING MOISTURE LEVELS: A BASIS FOR OPTIMIZING PNEUMATIC HANDLING AND SEED DISPERSAL / BIBER TOHURLARININ DEĞIŞEN NEM SEVİYELERINE AERODİNAMİK TEPKİSİ: PNÖMATİK TAŞIMA VE TOHUM DAĞITIMINI OPTİMİZE ETMEK İÇİN BİR TEMEL</b> Onder KABAS<sup>1)</sup>, K. Cagatay SELVI<sup>2)</sup></p> <p><sup>1)</sup> Department of Machine, Technical Science Vocational School, Akdeniz University / Turkey; <sup>2)</sup> Department of Agriculture Machinery and Technologies Engineering, Faculty of Agriculture, Ondokuz Mayıs University / Turkey <i>*E-mail: okabas@akdeniz.edu.tr; *Tel: +90 242 3106700;</i></p>	9 <sup>30</sup> -9 <sup>45</sup>	<p><b>EFFICACY AND SELECTIVITY OF IMAZAMOX AND PENDIMETHALIN BASED HERBICIDE IN WEED CONTROL IN SOYBEAN CROPS / EFICACITATEA ŞI SELECTIVITATEA AMESTECULUI DE IMAZAMOX ŞI PENDIMETHALIN ÎN CONTROLUL BURUIENILOR DIN CULTURILE DE SOIA</b> Marga GRĂDILĂ<sup>1)</sup>, Daniel JALOBĂ<sup>1)</sup>, Valentin Marius CIONTU<sup>1)</sup>, Raluca Monica CRISTEA<sup>1)</sup>, Mihaela ŞERBAN<sup>2)</sup>, Victor PETCU<sup>2)</sup>, Nicolae-Valentin VLĂDUŢ<sup>3)</sup>, Cătălina TUDORA<sup>3)</sup></p> <p><sup>1)</sup> Research - Development Institute for Plant Protection, Bucharest / Romania; <sup>2)</sup> National Agricultural Research and Development Institute Fundulea / Romania; <sup>3)</sup> INMA Bucharest / Romania <i>*Tel: 0724 925 155; *E-mail: marga_gradila@yahoo.com</i></p>	9 <sup>30</sup> -9 <sup>45</sup>
<p><b>THE EFFECTS OF PRUNING SHEAR DESIGN ON HAND FORCES DURING HAZELNUT SUCKERS CUTTING / FINDIK SÜRGÜNLERİNİN KESİMİ SIRASINDA BUDAMA MAKASI TASARIMININ EL KUVVETLERİ ÜZERİNDEKİ ETKİLERİ</b> Kemal Çağatay SELVI<sup>1)</sup>, Mehmet Ali ERDOĞAN<sup>2)</sup>, Ehsan Fartash NAEIMI<sup>1)</sup></p> <p><sup>1)</sup> Ondokuz Mayıs University, Department of Agricultural Machinery and Technologies Engineering / Samsun / Turkey; <sup>2)</sup> Minos Agricultural Machinery/ Izmir / Turkey <i>*E-mail: kselvi@omu.edu.tr; *Tel: +90 507 926 28 29</i></p>	9 <sup>45</sup> -10 <sup>00</sup>	<p><b>CLIMATE CHANGE MITIGATION BY BIOLOGICAL CARBON SEQUESTRATION OF DIFFERENT MAIZE HYBRIDES / UBLAŽAVANJE KLIMATSKIH PROMJENA BIOLOŠKOM SEKVESTRACIJOM UGLJIK RAZLIČITIH HIBRIDA KUKURUZA</b> Darija BILANDŽIJA<sup>1)</sup>, Marija GALIĆ<sup>1)</sup>, Grubor MATEJA<sup>2)</sup>, Tajana KRIČKA<sup>2)</sup>, Bilandžija NIKOLA<sup>2)</sup></p> <p><sup>1)</sup> University of Zagreb Faculty of Agriculture, Division of Agroecology / Croatia; <sup>2)</sup> University of Zagreb Faculty of Agriculture, Division of Agricultural Engineering and Technology / Croatia <i>*E-mail: dbilandzija@agr.hr; mcacic@agr.hr; mgrubor@agr.hr; tkricka@agr.hr; nbilandzija@agr.hr</i></p>	9 <sup>45</sup> -10 <sup>00</sup>
<p><b>STIMULATING TECHNICAL CREATIVITY AND DRAFTING PATENT DESCRIPTIONS ASSISTED BY ARTIFICIAL INTELLIGENCE / STIMULAREA CREATIVITĂȚII TEHNICE ŞI REDACTAREA DESCRIERILOR PENTRU BREVETE DE INVENȚII ASISTATE DE INTELIGENȚĂ ARTIFICIALĂ</b> Mihai OLAN<sup>1)</sup>, Lee (Simion) SANGMIN<sup>2)</sup>, Andrei MIHALACHE<sup>3)</sup>, Radu CIUPERCA<sup>1)</sup>, Ana ZAICA<sup>1)</sup></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> CEO, Patenty Inc.-South Korea; <sup>3)</sup> "Gheorghe Asachi" Technical University of Iasi, / Romania <i>*Tel: 0763 705 180; *E-mail: olaninma@gmail.com</i></p>	10 <sup>00</sup> -10 <sup>15</sup>	<p><b>ENSURING THE QUALITY OF SOLID BIOFUELS FROM HORTICULTURAL BIOMASS THROUGH PRODUCTION FLOW OPTIMIZATION / ASIGURAREA CALITĂȚII BIOCOMBUSTIBILOR SOLIZI DIN BIOMASĂ VEGETLĂ HORTICOLĂ PRIN OPTIMIZAREA FLUXULUI DE PRODUCERE</b> Grigore MARIAN<sup>1)</sup>, Alexandru BANARI<sup>1)</sup>, Teodor MARIAN<sup>2)</sup>, Andrei PAVLENCO<sup>2)</sup>,<sup>1)</sup></p> <p><sup>1)</sup> Technical University of Moldova, / Republic of Moldova; <sup>2)</sup> CC „BASADORO AGROTEH” LLC / Republic of Moldova <i>*Tel: +373.79446342; *E-mail: grigore.marian@if.utm.md</i></p>	10 <sup>00</sup> -10 <sup>15</sup>
<p><b>CURRENT STATE OF RESEARCH ON THE INFLUENCE OF VIBRATIONS ON THE HUMAN BODY OF VEHICLE OPERATORS / STADIUL ACTUAL AL CERCETĂRIILOR PRIVIND INFLUENȚA VIBRAȚIILOR ASUPRA ORGANISMULUI UMAN AL CONDUCĂTORULUI AUTO</b> Teofil-Alin ONCESCU<sup>1)</sup>, Nicolae-Valentin VLĂDUŢ<sup>1)</sup>, Iuliana GAGEANU<sup>1)</sup>, Ioan Catalin PERSU<sup>1)</sup>, Gabriel-Mihai MATACHE<sup>1)</sup>, Oana Elena MILEA<sup>1)</sup>, Ana-Maria TABARASU<sup>1)</sup>, Lavinia Madalina MICU<sup>2)</sup></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> University of Life Sciences "King Mihai I" from Timisoara <i>Tel: +40786848903; E-mail: alin.oncescu93@gmail.com</i></p>	10 <sup>15</sup> -10 <sup>30</sup>	<p><b>ENGINEERING MEASURES FOR SOIL EROSION CONTROL: A MECHANISM-BASED SYNTHESIS / CONSIDERAȚII PRIVIND PRINCIPALELE METODE UTILIZATE ÎN CONTROLUL EROZIUNII SOLULUI</b> Roxana Patricia IONAȘCU<sup>1)</sup>, Remus Marius OPRESCU<sup>2)</sup>, Dan CUJBESCU<sup>2)</sup>, Iulian VOICEA<sup>2)</sup></p> <p><sup>1)</sup> Development Research Station for Combating Soil Erosion "Mircea Moțoc" Perieni, Vaslui County / Romania; <sup>2)</sup> INMA Bucharest / Romania <i>*E-mail: oprescu.remusmarius@gmail.com</i></p>	10 <sup>15</sup> -10 <sup>30</sup>
<p><b>ASSESSMENT OF AIRBORNE POLLUTION IN INDUSTRIAL CITIES OF THE DNIPROPETROVSK REGION AND PROSPECTS FOR THE CREATION OF GREEN PROTECTIVE BELTS / ОЦІНКА ЗАБРУДНЕННЯ ПОВІТРЯ В ПРОМИСЛОВИХ МІСТАХ ДНІПРОПЕТРОВСЬКОЇ ОБЛАСТІ ТА ПЕРСПЕКТИВИ СТВОРЕННЯ ЗЕЛЕНИХ ЗАХИСНИХ СМУГ</b> Mykola KHARYTONOV<sup>1)</sup>, Nadia MARTYNOVA<sup>2)</sup>, Liubov MATUSHEVYCH<sup>3)</sup>, Svitlana SYTNYK<sup>4)</sup></p> <p><sup>1)</sup> Ecology Department, Dnipro State Agrarian and Economic University, Dnipro / Ukraine; <sup>2)</sup> Botanical Garden, Oles Honchar Dnipro National University, Dnipro / Ukraine; <sup>3)</sup> Department of Forest Mensuration and Forest Management, National University of Life and Environmental Sciences, Kyiv / Ukraine; <sup>4)</sup> Laboratory of Forest Management, Dnipro State Agrarian and Economic University, Dnipro / Ukraine <i>*Tel: +38-0973 456 227; *E-mail: kharytonov.m.m@dsau.dp.ua</i></p>	10 <sup>30</sup> -10 <sup>45</sup>	<p><b>THE EU DIGITAL PRODUCT PASSPORT DPP AS A KEY INNOVATION IN PRODUCT DESIGN AND MANUFACTURING PROCESSES / PAȘAPORTUL UE DE PRODUS DIGITAL DPP CA O INOVAȚIE CHEIE ÎN PROIECTAREA PRODUSELOR ŞI PROCESELE DE FABRICAȚIE</b> Carmen BRĂCACESCU<sup>1)</sup>, Oana Diana CRISTEA<sup>1)</sup>, Raluca-Veronica BRĂCACESCU<sup>2)</sup>, Lorena-Diana POPA<sup>3)</sup></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> National University of Science and Technology Politehnica Bucharest (UNSTPB) / Romania; <sup>3)</sup> ARDS Secuieni / Romania <i>*Tel: 0770 513 926; *E-mail: carmenbraca@yahoo.com</i></p>	10 <sup>30</sup> -10 <sup>45</sup>
<p><b>EXTENSIVE GREEN ROOFS FOR SMART BUILDINGS / ACOPERIȘURI VERZI EXTENSIVE PENTRU CLĂDIRI SMART</b> Dragos Mihail PREDA<sup>1)</sup>, Adrian PANDELE<sup>1)</sup>, Bogdan Ovidiu DURAN<sup>1)</sup>, Elena VILCU<sup>2)</sup>, Andrei VULPE<sup>2)</sup>, Gheorghe VOICU<sup>3)</sup></p> <p><sup>1)</sup> ROLIX IMPEX SERIES SRL / Romania; <sup>2)</sup> ARROW SRL / Romania; <sup>3)</sup> NUST POLITEHNICA Bucharest / Romania <i>*Tel: (+40)749 998 642; *Email: dragospreda@yahoo.com</i></p>	10 <sup>45</sup> -11 <sup>00</sup>	<p><b>COMPARATIVE ECOLOGICAL ANALYSIS OF MAIZE AND SORGHUM CROPS IN THE CONTEXT OF CLIMATE CHANGE IN ROMANIA / ANALIZA ECOLOGICĂ COMPARATIVĂ A CULTURILOR DE PORUMB ŞI SORG ÎN CONTEXTUL SCHIMBĂRIILOR CLIMATICE ÎN ROMÂNIA</b> Traian MANOLE, Viorel FĂTU*, Ana Cristina FĂTU, Roxana ZAHARIA, Marin LIXANDRU</p> <p>Research and Development Institute for Plant Protection / Romania <i>*Tel: +40212693231; Email: viorel.fatu@icdpp.ro</i></p>	10 <sup>45</sup> -11 <sup>00</sup>
<b>11<sup>00</sup>-11<sup>30</sup>: Coffee break</b>			
<p><b>STUDIES ON IMPROVING SOWING PRECISION ON A NATIONAL AND INTERNATIONAL LEVEL / STUDII PRIVIND ÎMBUNĂȚĂȚIREA PRECIZIEI DE SEMĂNAT PE PLAN NAȚIONAL ŞI INTERNAȚIONAL</b> Denisa CAIMAC GHITĂ, Ion SĂRĂCIN*, Mihnea GLODEANUZĂ, Ioan Alexandru SĂRĂCIN, Sorin BORUZ</p> <p>University of Craiova, Dolj County / Romania <i>*Tel. 0744 162 539, *E-mail ion_saracin@yahoo.com</i></p>	11 <sup>30</sup> -11 <sup>40</sup>	<p><b>PROPERTIES OF BIOCOMPOSITE FILMS WITH THE ADDITION OF SELECTED PLANT RAW MATERIALS / WŁAŚCIWOŚCI FOLII BIOKOMPOZYTOWYCH Z DODATKIEM WYBRANYCH SUROWCÓW ROŚLINNYCH</b> Tomasz ŻELAZIŃSKI*, Adam EKIELSKI, Maciej JOŃSKI</p> <p>Department of Production Engineering, Institute of Mechanical Engineering, Warsaw University of Life Sciences (SGGW) / Poland <i>*E-mail: tomasz_zelazinski@sggw.edu.pl</i></p>	11 <sup>30</sup> -11 <sup>45</sup>

<b>SECTION 1 - POWER AND MACHINERY - ORAL PRESENTATION</b>		<b>SECTION 2 - ECOLOGY &amp; ENVIRONMENT - ORAL PRESENTATION</b>	
<b>Chairman:</b> MAICAN Edmond / EKIELSKI Adam / MATACHE Mihai / Onder KABAS		<b>Chairman:</b> ISTRATE Irina / ŻELAZIŃSKI Tomasz / MARIAN Grigore / Cagatay SELVI	
<p>COMPARATIVE STUDIES ON SPRAYING WITH DRONES AND SPRAYING MACHINES IN THE FRAMEWORK OF VINEYARD AND FRUIT TREES OF THE USV "REGELE MIHAI I" EXPERIMENTAL DIDACTIC STATION IN TIMISOARA/ <i>STUDII COMPARATIVE PRIVIND STROPITUL CU DRONE ŞI MAŞINI DE STROPIT ÎN CADRUL CULTURILOR DE VIŢĂ DE VIE ŞI POMI FRUCTIFERI A STAŢIUNII DIDACTICE EXPERIMENTALE USV "REGELE MIHAI I" DIN TIMISOARA</i></p> <p>Sorin Tiberiu BUNGESCU<sup>1)</sup>, David Mihai INDREI<sup>1)</sup>, Valentin VLADUŢ<sup>2)</sup>, Sorin Ştefan BIRIŞ<sup>3)</sup>, Daniel POPA<sup>1)</sup>, Veaceslav MAZĂRE<sup>1)</sup>, Anișoara Copcea DUMA<sup>1)</sup>, Casiana MIHUŢ<sup>1)</sup>, Lavinia Madalina MICU<sup>1)</sup></p> <p><sup>1)</sup>University of Life Sciences "KING MIHAI I" from TIMIȘOARA / Romania; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania;</p> <p>*E-mail: <a href="mailto:sobungi@yahoo.com">sobungi@yahoo.com</a></p>	11 <sup>40</sup> -11 <sup>50</sup>	<p>THEORETICAL AND EXPERIMENTAL STUDIES ON THE IMPLEMENTATION OF THE NEW REVOLUTIONARY "NEXAT" SYSTEM IN THE FARMS "TERRACULT", LOCALITY OF HORIA, COUNTY OF ARAD, "MAXAGRO", LOCALITY OF GĂTAIA, COUNTY OF TIMIȘ" AND CAMPO DORO SRL TORMAC, COUNTY OF TIMIȘ / <i>STUDII TEORETICE ŞI EXPERIMENTALE PRIVIND IMPLEMENTAREA NOULUI SISTEM REVOLUŢIONAR "NEXAT" ÎN FERMELE "TERRACULT", LOCALITATEA HORIA, JUD. ARAD, "MAXAGRO", LOCALITATEA GĂTAIA, JUD. TIMIȘ" ŞI CAMPO DORO SRL TORMAC, JUD. TIMIȘ</i></p> <p>Sorin Tiberiu BUNGESCU<sup>1)</sup>, Ion Alexandru NODEA<sup>2)</sup>, Raul TONCEA<sup>3)</sup>, Liviu Zimcea<sup>2)</sup>, Valentin VLADUŢ<sup>4)</sup>, Sorin Ştefan BIRIŞ<sup>5)</sup>, Daniel POPA<sup>1)</sup>, Veaceslav MAZĂRE<sup>1)</sup>, Anișoara Copcea DUMA<sup>1)</sup>, Casiana MIHUŢ<sup>1)</sup></p> <p><sup>1)</sup>University of Life Sciences "KING MIHAI I" from TIMIȘOARA / Romania; <sup>2)</sup>NEXAT GmbH, <sup>3)</sup>Sigma CVM Romania, <sup>4)</sup>INMA Bucharest / Romania; <sup>5)</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania;</p> <p>*E-mail: <a href="mailto:sobungi@yahoo.com">sobungi@yahoo.com</a></p>	11 <sup>40</sup> -11 <sup>50</sup>
<p>AUTOENCODERS FOR IDENTIFYING ANOMALOUS APPLES IN SORTING PIPELINES / <i>AUTOENCODERE PENTRU IDENTIFICAREA MERELOR ANORMALE ÎN CONDUCTELE DE SORTARE</i></p> <p>Adrian IOSIF<sup>1)</sup>, Edmond MAICAN<sup>1)</sup>, Sorin-Stefan BIRIŞ<sup>1)</sup>, Mihai-Gabriel MATACHE<sup>2)</sup>, Neluş-Evelin GHEORGHİŢĂ<sup>1)</sup></p> <p><sup>1)</sup>Faculty of Biotechnical Systems Engineering, Politehnica University of Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania</p> <p>*Email: <a href="mailto:aiosif@yahoo.com">aiosif@yahoo.com</a></p>		<p>COMPARATIVE STUDY ON SOIL TYPES AND AGRICULTURAL POTENTIAL IN THE MAIN REGIONS OF ROMANIA / <i>STUDIU COMPARATIV ASUPRA TIPURILOR DE SOL ŞI POTENTIALULUI AGRICOL ÎN PRINCIPALELE REGIUNI ALE ROMÂNIEI</i></p> <p>Iuliana GĂGEANU<sup>1)</sup>, Ana-Maria TĂBĂRAŞU<sup>1)</sup>, Alin-Teofil Onescu<sup>1)</sup>, Lorena-Diana POPA<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania / <sup>2)</sup>ARDS Secuieni / Romania</p> <p>*E-mail: <a href="mailto:iulia.gageanu@gmail.com">iulia.gageanu@gmail.com</a></p>	
<p>PERFORMANCE EVALUATION OF AN INNOVATIVE EQUIPMENT FOR SOWING GRASS BETWEEN VINE AND FRUIT TREE ROWS / <i>EVALUAREA PERFORMANŢEI UNUI ECHIPAMENT INOVATIV PENTRU SEMĂNATUL IERBURILOR ÎNTRE RÂNDURILE DE VIŢĂ-DE-VIE ŞI POMI FRUCTIFERI</i></p> <p>Dragoş ANGHELACHE<sup>1)</sup>, Nicolae-Valentin VLĂDUŢ<sup>1)</sup>, Eugen MARIN<sup>1)</sup>, Dragoş-Nicolae DUMITRU<sup>1)</sup>, Elena-Melania CISMARU<sup>2)</sup>, Alin-Nicolae HARABAGIU<sup>1)</sup>, Neluş-Evelin GHEORGHİŢĂ<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania</p> <p>*E-mail: <a href="mailto:dragos1989anghelache@gmail.com">dragos1989anghelache@gmail.com</a>; <a href="mailto:dumitrudragos.nicolae@gmail.com">dumitrudragos.nicolae@gmail.com</a></p>	11 <sup>50</sup> -12 <sup>00</sup>	<p>QUICK ASSESSMENT OF SOIL ORGANIC CARBON CONTENT BY SCANNING WITH A COMBINED SOIL SCANNER (GAMMA+VIS-NIR) / <i>SZYBKA OCENA ZAWARTOŚCI WĘGLA ORGANICZNEGO W GLEBIE POPRZEC SKANOWANIE POŁĄCZONYM SKANEREM GLEBY (GAMMA+VIS-NIR)</i></p> <p>Adam EKIELSKI<sup>1)</sup>, Tomasz ŻELAZIŃSKI<sup>1)</sup>, Bogdan KAZIMIERCZAK<sup>2)</sup>, Erez BITON<sup>3)</sup></p> <p><sup>1)</sup>Department of Production Engineering, Institute of Mechanical Engineering, Warsaw University of Life Sciences (SGGW) / Poland; <sup>2)</sup>Grupa Wanicki, Wanicki Serwi Sp. Zo.o.ul / Poland; <sup>3)</sup>Terra Oracle AI / Poland</p> <p>*Email: <a href="mailto:adam_ekielski@sggw.edu.pl">adam_ekielski@sggw.edu.pl</a></p>	11 <sup>50</sup> -12 <sup>00</sup>
<b>SECTION 3 - FOOD INDUSTRY - ORAL PRESENTATION</b>			
<b>Chairman:</b> VOICU Gheorghe / SORICĂ Cristian / BEGEA Mihaela			
<p>THE USE OF ALTERNATIVE PROTEIN SOURCES IN HUMAN NUTRITION / <i>ZASTOSOWANIE ALTERNATYWNYCH ŹRÓDEŁ BIAŁKA W ŻYWIENIU CZŁOWIEKA</i></p> <p>Wioletta ŻUKIEWICZ-SOBCZAK<sup>*</sup></p> <p>University of Life Science in Lublin Department of Biological Bases of Food and Feed Technologies Lublin / Poland</p> <p>*E-mail: <a href="mailto:wioletta.zukiewicz-sobczak@up.lublin.pl">wioletta.zukiewicz-sobczak@up.lublin.pl</a></p>	12 <sup>00</sup> -12 <sup>10</sup>	<p>OPTIMIZATION OF PEST DETECTION (INSECTA, COLEOPTERA) IN MAIZE CROPS USING NEURAL NETWORKS / <i>OPTIMIZAREA DETECTĂRII DĂUNĂTORILOR (INSECTE, COLEOPTERE) LA CULTURILE DE PORUMB UTILIZĂND REŢELE NEURALE</i></p> <p>Edmond MAICAN<sup>1)</sup>, Sanda MAICAN<sup>2)</sup>, Adrian IOSIF<sup>1)</sup></p> <p><sup>1)</sup>Faculty of Biotechnical Systems Engineering, National University of Science and Technology Politehnica, Bucharest / Romania; <sup>2)</sup>Institute of Biology Bucharest, Romanian Academy / Romania</p> <p>*Email: <a href="mailto:e.maican@gmail.com">e.maican@gmail.com</a></p>	12 <sup>00</sup> -12 <sup>10</sup>
<p>OBTAINING FORTIFIED WINES WITH GRAPE POMACE BIOCOMPOUNDS OBTAINED BY MAE EXTRACTION METHOD / <i>OBȚINEREA VINURILOR FORTIFIATE CU BIOCOMPUȘI DIN TESCOVINĂ OBȚINUȚI PRIN METODA DE EXTRAȚIE MAE</i></p> <p>Petronela Anca ONACHE<sup>1)</sup>, Irina Elisabeta GEANĂ<sup>1)</sup>, Corina Teodora CIUCURE<sup>2)</sup>, Iulia Cristina CIOBANU<sup>3)</sup>, Victoria ARTEM<sup>3)</sup>, Georgiana CÎRSTEĂ<sup>4)</sup>, Alina FLOREA<sup>1)</sup>, Dorin Ioan SUMEDREA<sup>1)</sup>, Mircea NEGRUTA<sup>5)</sup></p> <p><sup>1)</sup>National Research &amp; Development Institute for Biotechnology in Horticulture / Romania; <sup>2)</sup>National Research and Development Institute for Cryogenic and Isotopic Technologies / Romania; <sup>3)</sup>Murfatlar Viticulture and Winemaking Research and Development Station / Romania; <sup>4)</sup>NUST POLITEHNICA Bucharest University- Pitești University Center / Romania; <sup>5)</sup>Mancora Ocean S.R.L.</p> <p>*E-mail: <a href="mailto:irina.geana@icsi.ro">irina.geana@icsi.ro</a></p>	12 <sup>10</sup> -12 <sup>20</sup>	<p>POTENTIAL AND PERSPECTIVES OF ORCHARD LIGNOCELLULOSIC BIOMASS AS A SOURCE OF RENEWABLE ENERGY IN THE REPUBLIC OF MOLDOVA / <i>POTENȚIALUL ȘI PERSPECTIVELE BIOMASEI LIGNOCELULOZICE POMICOLE CA SURSĂ DE ENERGIE REGENERABILĂ ÎN REPUBLICA MOLDOVA</i></p> <p>Grigore MARIAN<sup>1)</sup>, Alexandru BANARI<sup>1)</sup>, Andrei GUDÎMA<sup>1)</sup>, Boris NAZAR<sup>1)</sup>, Leonid MALAI<sup>1)</sup>, Nicolae DARADUDA<sup>1)</sup>, Andrei PAVLENCO<sup>2)</sup>, Teodor MARIAN<sup>2)</sup></p> <p><sup>1)</sup>Scientific Laboratory of Solid Biofuels, Technical University of Moldova / Republic of Moldova</p> <p><sup>2)</sup>CC „BASADORO AGROTEH” LLC / Republic of Moldova (PhD student TUM</p> <p>Tel: (+37) 379 446 342; *E-mail: <a href="mailto:grigore.marian@if.utm.md">grigore.marian@if.utm.md</a></p>	12 <sup>10</sup> -12 <sup>20</sup>
<p>EVALUATION OF NETTLE PARTS FOR FUNCTIONAL FOODS, BASED ON A NOVEL ANTIOXIDANT-DIETARY ELEMENT INDEX (ADEI) / <i>EVALUAREA PĂRȚILOR DE URZICĂ PENTRU ALIMENTE FUNCȚIONALE, PE BAZA UNUI INDICE NOU DE ANTIOXIDANȚI ȘI ELEMENTE NUTRITIVE</i></p> <p>Patricia-Cristina TARKANYI<sup>1)</sup>, Nicolae-Valentin VLADUŢ<sup>2)</sup>, Mihaela LĂCĂTUȘ<sup>1)</sup>, Laura RĂDULESCU<sup>1)</sup>, Liana Maria ALDA<sup>1)</sup>, Georgeta Sofia POPESCU<sup>1)</sup>, Ioan Ladislau CABA<sup>2)</sup>, Despina Maria BORDEAN<sup>1)</sup></p> <p><sup>1)</sup>University of Life Sciences "King Mihai I" from Timisoara / Romania; <sup>2)</sup>INMA Bucharest / Romania</p> <p>*Tel: 0748 283 409; *E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a>; *Tel: 0726 612 460; *E-mail: <a href="mailto:lianaalda@usvt.ro">lianaalda@usvt.ro</a></p>	12 <sup>20</sup> -12 <sup>30</sup>	<p>CHICKPEA PRODUCTIVITY UNDER BIOTIC AND ABIOTIC STRESSES: CURRENT STATUS AND PERSPECTIVES / <i>PRODUCTIVITATEA NĂUTULUI ÎN CONDIȚII DE STRES BIOTIC ȘI ABIOTIC: SITUAȚIA ACTUALĂ ȘI PERSPECTIVE</i></p> <p>Costin MIRCEA<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Iulian DUMITRU<sup>1)</sup>, Raluca-Adriana ZOTA<sup>2)</sup>, Andreea Sabina PINTILIE<sup>3)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania;</p> <p><sup>3)</sup>Agricultural Research and Development Station Secuieni / Romania</p> <p>*Tel: 0766.420.952; *E-mail: <a href="mailto:costinmircea@yahoo.com">costinmircea@yahoo.com</a></p>	12 <sup>20</sup> -12 <sup>30</sup>
<p>EFFECT OF GRAPE SEED FLOUR ADDITION ON THE TECHNOLOGICAL AND SENSORY PROPERTIES OF BREAD / <i>INFLUENȚA ADAOSULUI DE FĂINĂ DIN SEMINȚE DE STRUGURI ASUPRA PROPRIETĂȚILOR TEHNOLOGICE ȘI SENZORIALE ALE PĂINII</i></p> <p>Elena-Melania CISMARU<sup>1)</sup>, Marinela MATEESCU<sup>1)</sup>, Dragoş-Nicolae ANGHELACHE<sup>1)</sup>, Dragoş-Nicolae DUMITRU<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Elena-Mădălina ȘTEFAN<sup>2)</sup>, Aura-Irina ISTRATE<sup>2)</sup>, Gabriel-Alexandru CONSTANTIN<sup>2)</sup>, Gheorghe VOICU<sup>2)</sup>, Alina-Daiana IONESCU<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University of Science and Technology Politehnica Bucharest / Romania</p> <p>*E-mail: <a href="mailto:celenamelania@gmail.com">celenamelania@gmail.com</a>; *E-mail: <a href="mailto:stefanelenamadalina@gmail.com">stefanelenamadalina@gmail.com</a></p>	12 <sup>30</sup> -12 <sup>40</sup>	<p>RESEARCH ON THE INFLUENCE OF RAW WOOL QUALITY ON THE PARAMETERS FOR OBTAINING HYDROLYSATE BY THE ALKALINE METHOD / <i>CERCETĂRI PRIVIND INFLUENȚA CALITĂȚII LĂNII BRUTE ASUPRA PARAMETRILOR DE OBȚINERE A HIDROLIZATULUI PRIN METODA ALCALINA</i></p> <p>Elena Mihaela NAGY<sup>1)</sup>, Teodor Gabriel FODOREAN<sup>1)</sup>, Evelin-Anda LAZA<sup>1)</sup>, Marius GHERES<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>Technical University of Cluj-Napoca, Faculty of Automotive Engineering, Mechatronics and Mechanics / Romania</p> <p>*Tel: 0748 165 302, E-mail: <a href="mailto:nagy_m2002@yahoo.co.uk">nagy_m2002@yahoo.co.uk</a></p>	12 <sup>30</sup> -12 <sup>40</sup>

SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION	SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION		
Chairman: <b>COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana</b>	Chairman: <b>COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana</b>		
*BSE: PhD students School “Biotechnical Systems Engineering”	*BSE: PhD students School “Biotechnical Systems Engineering”		
<p><b>STONE PAPER AS A SUSTAINABLE ALTERNATIVE: APPLICATIONS, CHALLENGES AND OPPORTUNITIES / STONE PAPER CA ALTERNATIVĂ SUSTENABILĂ: APLICAȚII, PROVOCĂRI ȘI OPORTUNITĂȚI</b>  <b>Andreea-Nicoleta BURCEA<sup>1</sup>, Daniel ȘIPU<sup>2</sup>, Cristina-Ileana COVALIU-MIERLĂ<sup>3</sup></b></p> <p><sup>1</sup> Biotechnical System Engineering Doctoral School, National University of Science and Technology Politehnica Bucharest / Romania; <sup>2</sup> Adam Stone SA / Romania; <sup>3</sup> Faculty of Biotechnical Systems Engineering, National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:cristina_covaliu@yahoo.com">cristina_covaliu@yahoo.com</a>; *Tel: 40722791791</p>	9 <sup>30</sup> -9 <sup>40</sup>	<p><b>TYPES AND CHARACTERISTICS OF SOIL SAMPLING TERMINALS / TIPURI ȘI CARACTERISTICI ALE TERMINALELOR DE PRELEVARE A PROBELOR DE SOL</b>  <b>Alexandru IONESCU<sup>1</sup>, Mario CRISTEA<sup>1</sup>, Valentin-Nicolae VLĂDUȚ<sup>1</sup>, Costin MIRCEA<sup>1</sup>, Gheorghe STROESCU<sup>1</sup>, Iulian DUMITRU<sup>1</sup>, Nicoleta VANGHELE<sup>1</sup>, Dragos ANGHELACHE<sup>1</sup>, Ana-Maria TABARASU<sup>1</sup>, Robert BLEJAN<sup>2</sup></b></p> <p><sup>1</sup>INMA Bucharest / Romania; <sup>2</sup> National Institute of Research or Hydraulics And Pneumatics, Bucharest / Romania  *Tel: (+40) 766 701 361; *E-mail: <a href="mailto:alex.alex12alx@gmail.com">alex.alex12alx@gmail.com</a></p>	11 <sup>30</sup> -11 <sup>40</sup>
<p><b>ULTRASONIC ASSESSMENT OF MECHANICAL PROPERTIES IN ISOTROPIC AND ORTHOTROPIC MATERIALS / EVALUAREA ULTRASONICĂ A PROPRIETĂȚILOR MECANICE ALE MATERIALELOR IZOTROPE ȘI ORTOTROPE</b>  <b>Andreea Denisa GRIGUȚA<sup>1</sup>*, Mihai Valentin PREDOI<sup>2</sup>, Cristian-Cătălin PETRE<sup>2</sup>, Laura Mariana BARBU<sup>1</sup>, Gheorghe FLOROIU<sup>1</sup></b></p> <p><sup>1</sup> Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania;  <sup>2</sup> Department of Strength of Materials, National University of Science and Technology POLITEHNICA Bucharest / Romania  *E-mail: <a href="mailto:andreea.griguta@upb.ro">andreea.griguta@upb.ro</a></p>	9 <sup>40</sup> -9 <sup>50</sup>	<p><b>KINEMATIC ANALYSIS OF A DISINFECTION SPIDER ROBOT / ANALIZA CINEMATICĂ A UNUI ROBOT PĂIANJEN DE DEZINFECȚIE</b>  <b>Sorin NEGROIU<sup>1</sup>*, Andrei CRAIFALEANU<sup>1</sup>, Florinel LUPU<sup>1</sup></b></p> <p><sup>1</sup>Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania.  *Tel: 0729 076 640; E-mail: <a href="mailto:sorin.negroi@stud.mec.upb.ro">sorin.negroi@stud.mec.upb.ro</a></p>	11 <sup>40</sup> -11 <sup>50</sup>
<p><b>SIMPLIFIED MODELING OF ACOUSTIC ATTENUATION FOR SOUND BARRIERS / MODELAREA SIMPLIFICATĂ A ATENUĂRII ACUSTICE PENTRU BARIERE SONICE</b>  <b>Ana-Maria GROSU<sup>1</sup>*, Ovidiu VASILE<sup>2</sup>*</b></p> <p><sup>1</sup>National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering / Romania; <sup>2</sup> National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, Department of Mechanics / Romania  *Email: <a href="mailto:ana_maria.grosu@stud.isb.upb.ro">ana_maria.grosu@stud.isb.upb.ro</a>; <a href="mailto:ovidiu_vasile2002@yahoo.co.uk">ovidiu_vasile2002@yahoo.co.uk</a></p>	9 <sup>50</sup> -10 <sup>00</sup>	<p><b>CFD-BASED INVESTIGATION OF A COUNTER-ROTATING VERTICAL AXIS WIND TURBINE FOR LOW-WIND AGRICULTURAL ENVIRONMENTS / INVESTIGAȚIE NUMERICĂ BAZATĂ PE CFD A UNEI CONFIGURAȚII CONTRAROTATIVE DE TURBINE EOLIENE CU AX VERTICAL PENTRU MEDII AGRICOLE CU VÂNT REDUS</b>  <b>Adrian PANDELE<sup>1,2,3</sup>*, Bogdan Ovidiu DURAN<sup>2,3</sup>, Dragos Mihail PREDA<sup>2,3</sup>, Robert BILA<sup>2</sup>, Elena VILCU<sup>1</sup>*, Andrei VULPE<sup>1</sup>*, Gheorghe VOICU<sup>3</sup></b></p> <p><sup>1</sup> ARROW SRL / Romania; <sup>2</sup> ROLIX IMPEX SERIES SRL, Bucharest / Romania; <sup>3</sup> National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:adrian.pandele@arrows.ro">adrian.pandele@arrows.ro</a>; *Tel: (+40)722 655 056</p>	11 <sup>50</sup> -12 <sup>00</sup>
<p><b>EXTRACTION AND VALORIZATION OF ACTIVE PRINCIPLES FROM MEDICINAL PLANTS – A PERSPECTIVE FOR THE SUSTAINABLE DEVELOPMENT OF FARMS IN ROMANIA / EXTRAȚIA ȘI VALORIFICAREA PRINCIPILOR ACTIVE DIN PLANTE MEDICINALE – O PERSPECTIVĂ PENTRU DEZVOLTAREA SUSTENABILĂ A FERMEI DIN ROMÂNIA</b>  <b>Ana-Maria TĂBĂRAȘU<sup>1,2</sup>, Nicolae-Valentin VLĂDUȚ<sup>1</sup>, Iuliana GĂGEANU<sup>1</sup>, Florin NENCIU<sup>1</sup>, Melania-Elena CISMARU<sup>1</sup>*, Teofil-Alin ONCESCU<sup>1</sup>, Gabriel-Valentin GHEORGHE<sup>1</sup>, Alin HARABAGIU<sup>1</sup>, Dragoș-Nicolae ANGHELACHE<sup>1</sup>*, Dan CUJBESCU<sup>1</sup>, Iulian VOICEA<sup>1</sup></b></p> <p><sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania  Email: <a href="mailto:celenamelania2@gmail.com">celenamelania2@gmail.com</a>; <a href="mailto:dragos1989anghelache@gmail.com">dragos1989anghelache@gmail.com</a></p>	10 <sup>00</sup> -10 <sup>10</sup>	<p><b>STUDY OF JERK FOR A ROBOTIC ARM / STUDIUL DERIVATEI ACCELERATEI PENTRU UN BRAȚ ROBOTIC</b>  <b>Florinel LUPU<sup>*</sup>, Andrei CRAIFALEANU, Sorin NEGROIU</b>  National University of Science and Technology POLITEHNICA Bucharest,  Faculty of Biotechnical Systems Engineering / Romania  *E-mail: <a href="mailto:autokingdomlupu@gmail.com">autokingdomlupu@gmail.com</a></p>	12 <sup>00</sup> -12 <sup>10</sup>
<p><b>METHODS OF OBTAINING BIOCHAR / METODE DE OBTINERE A BIOCHARULUI</b>  <b>Nicoleta-Alexandra VANGHELE<sup>1,2</sup>*, Nicolae-Valentin VLĂDUȚ<sup>1</sup>, Andreea MATACHE<sup>1</sup>, Augustina PRUTEANU<sup>1</sup>*, Florin NENCIU<sup>1</sup>, Laurențiu Vlăduțoiu<sup>1</sup>, Ana-Maria TABARASU<sup>1</sup>, Dragos ANGHELACHE<sup>1</sup>, Alexandru IONESCU<sup>1</sup>, Elena-Melania CISMARU<sup>1</sup>, Cristian RADU<sup>3</sup></b></p> <p><sup>1</sup>INMA Bucharest / Romania; <sup>2</sup> National University of Science and Technology Polytechnic Bucharest / Romania;  <sup>3</sup>University of Craiova / Romania  *Tel: (+40) 21 693 457; *E-mail: <a href="mailto:vangheletr@gmail.com">vangheletr@gmail.com</a></p>	10 <sup>10</sup> -10 <sup>20</sup>	<p><b>ENHANCING VERTICAL-AXIS WIND TURBINE PERFORMANCE THROUGH CFD SIMULATIONS OF AN INNOVATIVE BLADE DESIGN FOR AGRICULTURE APPLICATIONS / CREȘTEREA PERFORMANȚEI TURBINELOR EOLIENE CU AX VERTICAL CU DESIGN INOVATOR AL PALELOR PENTRU APLICAȚII AGRICOLE UTILIZÂND SIMULĂRI CFD</b>  <b>Bogdan Ovidiu DURAN<sup>1</sup>, Dragos Mihail PREDA<sup>1</sup>, Adrian PANDELE<sup>2</sup>, Elena VILCU<sup>2</sup>, Andrei VULPE<sup>2</sup>, Robert BILA<sup>1</sup>, Gheorghe VOICU<sup>3</sup></b></p> <p><sup>1</sup> ROLIX IMPEX SERIES SRL, Bucharest / Romania; <sup>2</sup> ARROW SRL / Romania; <sup>3</sup> National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:bogdan.o.duran@gmail.com">bogdan.o.duran@gmail.com</a>; *Tel: (+40)749 995 555</p>	12 <sup>10</sup> -12 <sup>20</sup>
<p><b>INFLUENCE OF PLANT PARTICLE SIZE ON THE EFFICIENCY OF THE COMPOSTING PROCESS: A REVIEW / INFLUENȚA DIMENSIUNII PARTICULELOR VEGETALE ASUPRA EFICIENȚEI PROCESULUI DE COMPOSTARE: REVIEW</b>  <b>Elena-Melania CISMARU<sup>2</sup>*, Florin NENCIU<sup>1</sup>, Cătălin PERSU<sup>1</sup>, Dan CUJBESCU<sup>1</sup>, Radu CIUPERCĂ<sup>1</sup>, Gabriel-Valentin GHEORGHE<sup>1</sup>, Ana ZAICA<sup>1</sup>, Alin-Nicolae HARABAGIU<sup>1</sup>, Stefano MANTOVANI<sup>1</sup>, Elena-Mădălina ȘTEFAN<sup>2</sup>*</b></p> <p><sup>1</sup>INMA Bucharest / Romania; <sup>2</sup> National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:celenamelania2@gmail.com">celenamelania2@gmail.com</a>; *Tel: 0726 043 472, *E-mail: <a href="mailto:stefanelenamadalina@gmail.com">stefanelenamadalina@gmail.com</a></p>	10 <sup>20</sup> -10 <sup>30</sup>	<p><b>ADVANCES IN PARTICLE CHARACTERIZATION OF BERRY FRUIT POWDERS: A COMPARATIVE ANALYSIS OF CONVENTIONAL AND AI-BASED METHODS / PROGRES ÎN CARACTERIZAREA PARTICULELOR PULBERILOR DE FRUCTE DE PĂDURE: O ANALIZĂ COMPARATIVĂ A METODELOR CONVENȚIONALE ȘI BAZATE PE INTELIGENȚĂ ARTIFICIALĂ</b>  <b>Alina-Daiana IONESCU<sup>*</sup>, Gheorghe VOICU, Mihaela BEGEA, Gabriel-Alexandru CONSTANTIN, Adrian IOSIF, George IPATE, Elena-Mădălina ȘTEFAN, Raluca-Adriana ZOTA, Elena-Valeria VLĂDUȚ</b>  National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania  *E-mail: <a href="mailto:alina.ionescu1007@upb.ro">alina.ionescu1007@upb.ro</a></p>	12 <sup>20</sup> -12 <sup>30</sup>
<p><b>REDUCTION OF ENERGY CONSUMPTION IN AGRICULTURE, AS A RESULT OF SOIL LOOSENING WITH STAR DISC HARROWS / REDUCEREA CONSUMULUI DE ENERGIE ÎN AGRICULTURĂ, CA URMARE A AFĂNĂRII SOLULUI CU GRAPE CU DISCURI STELATE</b>  <b>Andrei-Florin HRISTACHE<sup>1</sup>*, Filip ILIE<sup>2</sup></b></p> <p><sup>1</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania  Email: <a href="mailto:hr.andrei@yahoo.com">hr.andrei@yahoo.com</a></p>	10 <sup>30</sup> -10 <sup>40</sup>	<p><b>EIGENFREQUENCY ANALYSIS OF CIRCULAR AND POLYGONAL THIN PLATES WITH A CENTRAL CLAMPED HOLE USING COMSOL MULTIPHYSICS / ANALIZA FRECVENȚELOR PROPRII ALE PLĂCILOR SUBȚIRI CIRCULARE ȘI POLIGONALE, AVÂND O GAURĂ CENTRALĂ ÎNCĂSTRATĂ, UTILIZÂND COMSOL MULTIPHYSICS</b>  <b>Laura-Mariana BARBU<sup>1</sup>*, Gheorghe FLOROIU<sup>1</sup>, Mihai Valentin PREDOI<sup>1</sup>, Aurel ALECU<sup>1</sup>, Mihail STANICA<sup>2</sup></b></p> <p><sup>1</sup>Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania  <sup>2</sup>National Institute for Research &amp; Development of Turbomachinery – COMOTI / Romania  *E-mail: <a href="mailto:laura.barbu98@gmail.com">laura.barbu98@gmail.com</a></p>	12 <sup>30</sup> -12 <sup>40</sup>

<b>SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION</b>		<b>SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION</b>	
Chairman: <b>COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana</b> *BSE: PhD students School “Biotechnical Systems Engineering”		Chairman: <b>COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana</b> *BSE: PhD students School “Biotechnical Systems Engineering”	
<p><b>SUSTAINABLE SOUND ABSORBING COMPOSITE STRUCTURES BASED ON ECOFRIENDLY MATERIALS FOR ROAD NOISE REDUCTION / STRUCTURI COMPOZITE FONOAORSORBANTE SUSTENABILE PE BAZĂ DE MATERIALE ECOLOGICE PENTRU REDUCEREA ZGOMOTULUI RUTIER</b>  <b>Jazmina SCORTEA*<sup>1)</sup>, Sorina ZLATOIANU*<sup>1)</sup>, Ovidiu VASILE*<sup>2)</sup></b>  <sup>1)</sup> National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, / Romania;  <sup>2)</sup> National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, Department of Mechanics “Radu P. Voinea”, Bucharest / Romania  *E-mail: <a href="mailto:jazmina.scortea@icecon.ro">jazmina.scortea@icecon.ro</a>, <a href="mailto:sorina.zlatoianu@icecon.ro">sorina.zlatoianu@icecon.ro</a>; <a href="mailto:ovidiu_vasile2002@yahoo.co.uk">ovidiu_vasile2002@yahoo.co.uk</a></p>	10 <sup>00</sup> -10 <sup>30</sup>	<p><b>EXPERIMENTAL STUDY ON THE DYNAMIC BEHAVIOR OF THE 3SLP SPRINGBOARD IN RUNNING TESTS / STUDIU EXPERIMENTAL PRIVIND COMPORTAMENTUL DINAMIC AL TRAMBULINEI 3SLP ÎN TESTELE DE ALERGARE</b>  <b>Daniel-Mirel DUMITRESCU*<sup>1)</sup>, Gheorghe VOICU<sup>2)</sup>, Nicolae ORĂȘANU<sup>2)</sup>, Liliana-Caliopi ISCRU<sup>2)</sup>, Gabriel-Alexandru CONSTANTIN<sup>2)</sup>, Adrian IOSIF<sup>2)</sup></b>  <sup>1)</sup> Pietrosani Middle School, Teleorman County / Romania; <sup>2)</sup> National University of Science and Technology POLITEHNICA Bucharest / Romania  *E-mail: <a href="mailto:dumitrescudanielmirel@gmail.com">dumitrescudanielmirel@gmail.com</a></p>	12 <sup>00</sup> -12 <sup>30</sup>
<p><b>3D DESIGN AND FUNCTIONAL EVALUATION OF A CYCLONE SEPARATOR FOR AGRO-INDUSTRIAL APPLICATIONS / DESIGN 3D ȘI EVALUARE FUNCȚIONALĂ A UNUI CICLON PENTRU APLICAȚII AGRO-INDUSTRIALE</b>  <b>Raluca-Adriana ZOTA<sup>1)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Neluș-Evelin GHEORGHITĂ*<sup>1)</sup>, Alina-Daiana IONESCU<sup>1)</sup>, Costin MIRCEA<sup>2)</sup></b>  <sup>1)</sup> Faculty of Biotechnical Systems Engineering, Politehnica Bucharest / Romania;  <sup>2)</sup> INMA Bucharest / Romania  *Tel: 0726 453 269; *E-mail: <a href="mailto:evelin_gheorghita@yahoo.com">evelin_gheorghita@yahoo.com</a></p>	10 <sup>30</sup> -11 <sup>00</sup>	<p><b>THE IMPORTANCE OF PNEUMATIC DEDUSTING SYSTEMS IN CEREAL MILLS / IMPORTANȚA SISTEMELOR PNEUMATICE DE DESPRĂFUIRE ÎN MORILE DE CEREALE</b>  <b>Liliana-Caliopi ISCRU, Daniel-Mirel DUMITRESCU, Gheorghe VOICU</b>  National University of Science and Technology POLITEHNICA Bucharest / Romania  *E-mail: <a href="mailto:dumitresculilianacaliopi@gmail.com">dumitresculilianacaliopi@gmail.com</a>; * Tel: 004-0765-914 811</p>	12 <sup>30</sup> -13 <sup>00</sup>
<p><b>INTEGRATED MECHANICAL AND METABOLIC ENGINEERING STRATEGIES FOR HIGH-CELL-DENSITY CULTIVATION OF SACCHAROMYCES CEREVISIAE IN STIRRED-TANK BIOREACTORS: A CRITICAL REVIEW / STRATEGII INGINEREȘTI MECANICE ȘI METABOLICE INTEGRATE PENTRU CULTIVAREA LA DENSITATE RIDICATĂ A SACCHAROMYCES CEREVISIAE ÎN BIOREACTOARE CU AGITARE MECANICĂ: O ANALIZĂ CRITICĂ</b>  <b>Elena – Valeria VLĂDUȚ*<sup>1)</sup>, Sorin - Ștefan BIRIȘ<sup>1)</sup>, Mariana FERDEȘ<sup>1)</sup>, Adrian IOSIF<sup>1)</sup>, Alina – Daiana IONESCU<sup>1)</sup>, Raluca Adriana ZOTA<sup>1)</sup></b>  <sup>1)</sup> National University of Science and Technology Politehnica Bucharest / Romania  Tel: +40739960285; E-mail: <a href="mailto:elena.vladut@upb.ro">elena.vladut@upb.ro</a></p>	11 <sup>00</sup> -11 <sup>10</sup>	<p><b>EFFECT OF AGITATION SPEED AND TEMPERATURE ON THE GROWTH KINETICS AND OXYGEN TRANSFER EFFICIENCY OF SACCHAROMYCES CEREVISIAE IN A STIRRED TANK BIOREACTOR / EFECTUL VITEZEI DE AGITARE ȘI AL TEMPERATURII ASUPRA CINETICII DE CREȘTERE ȘI A EFICIENȚEI TRANSFERULUI DE OXIGEN A SACCHAROMYCES CEREVISIAE ÎNTR-UN BIOREACTOR CU REZERVOR AGITAT</b>  <b>Elena-Valeria VLADUȚ*<sup>1)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Mirela Nicoleta DINCĂ<sup>1)</sup>, Alina-Daiana IONESCU<sup>1)</sup>, Raluca Adriana ZOTA<sup>1)</sup>, Valentin VLADUȚ<sup>2)</sup></b>  <sup>1)</sup> National University of Science and Technology POLITEHNICA Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  *Tel: +40739960285; E-mail: <a href="mailto:elena.vladut@upb.ro">elena.vladut@upb.ro</a></p>	13 <sup>00</sup> -13 <sup>10</sup>
<p><b>PM10 AND PM2.5 PARTICLE POLLUTION IN TARGOVIȘTE CITY, DÂMBOVIȚA COUNTY / POLUAREA CU PARTICULE PM10 ȘI PM2.5 ÎN ORAȘUL TÂRGOVIȘTE, JUDEȚUL DÂMBOVIȚA</b>  <b>Florina Roxana DUMITRU*<sup>1)</sup>, Lucica BARBES<sup>1)</sup>, Constantin DUNEA<sup>1)</sup></b>  National University of Science and Technology POLITEHNICA Bucharest / Romania  *Email: <a href="mailto:roxana_danis@yahoo.com">roxana_danis@yahoo.com</a></p>	11 <sup>10</sup> -11 <sup>20</sup>	<p><b>ADSORPTION EFFICIENCY OF COOPER FROM WASTEWATER BY USE SOME ALTERNATIVE ADSORBENT MATERIALS / EFICIENȚA DE ADSORBȚIE A CUPRULUI DIN APE UZATE PRIN UTILIZAREA UNOR MATERIALE ADSORBANTE ALTERNATIVE</b>  <b>Cristina-Ileana COVALIU-MIERLĂ*<sup>1)</sup>, Maria RÂPĂ<sup>1)</sup>, Sorin IONESCU<sup>1)</sup></b>  <sup>1)</sup> National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:cristina_covaliu@yahoo.com">cristina_covaliu@yahoo.com</a></p>	13 <sup>10</sup> -13 <sup>20</sup>
11 <sup>00</sup> -11 <sup>30</sup> : Coffee break		13 <sup>00</sup> -13 <sup>30</sup> : Lunch	

<b>SECTION 1 - POWER AND MACHINERY - POSTER PRESENTATION</b> Chairman: <b>CONSTANTIN Gabriel / BUNGESCU Sorin Tiberiu / VOICEA Iulian</b>	<b>SECTION 2 - ECOLOGY &amp; ENVIRONMENT - POSTER PRESENTATION</b> Chairman: <b>RUSĂNESCU Carmen / NENCIU Florin / POPA Diana</b>
<b>ROBOTIC SYSTEMS FOR HARVESTING THE INFLORESCENCES OF MEDICINAL PLANT SPECIES - A REVIEW / SISTEME ROBOTIZATE DESTINATE RECOLTĂRII INFLORESCENȚELOR UNOR SPECII DE PLANTE MEDICINALE - A REVIEW</b> <b>Adriana MUSCALU<sup>1)</sup>, Cătălina TUDORA<sup>1)</sup>, Dragoș ANGHELACHE<sup>1)</sup>, Dorin CÎRSTEA<sup>1)</sup>, Margareta NAIE<sup>2)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Agricultural Research and Development Station Secuieni / Romania *Tel: 0726 234 242; *E-mail: <a href="mailto:amuscalis@yahoo">amuscalis@yahoo</a>	<b>SUNFLOWER CROP ENTOMOFAUNA DEVELOPMENT IN CENTRAL MOLDOVA CONDITION (ROMANIA) / EVOLUȚIA ENTOMOFAUNEI DĂUNĂTOARE DIN CULTURILE DE FLOAREA - SOARELUI ÎN CONDIȚIILE DIN CENTRUL MOLDOVEI</b> <b>Roxana - Georgiana AMARGHIOALE<sup>1)</sup>, Elena TROTUȘ<sup>1)</sup>, Paula - Lucelia PINTILIE<sup>1)</sup>, Andreea ENEA<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Roxana ZAHARIA<sup>2)</sup>, Carmen MINCEA<sup>2)</sup>, Cătălina - Adina DRUȚU<sup>3)</sup>, Raluca - Sînziana ZAHARIA<sup>4)</sup>, Alexandru CIOACLA<sup>5)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> Research Development Institute for Plant Protection - ICDPP Bucharest / Romania; <sup>3)</sup> Iasi University of Life Sciences / Romania; <sup>4)</sup> Ion Ionescu de la Brad Tehnological High School – Horia / Romania; <sup>5)</sup> INMA Bucharest / Romania *E-mail: <a href="mailto:paulapintiliescda@gmail.com">paulapintiliescda@gmail.com</a>
<b>CONSIDERATIONS REGARDING THE USE OF MODERN EQUIPMENT FOR THE EFFICIENT UTILISATION OF PERMANENT PASTURES / CONSIDERAȚII PRIVIND UTILIZAREA ECHIPAMENTELOR MODERNE PENTRU VALORIFICAREA EFICIENTĂ A PĂȘUNILOR PERMANENTE</b> <b>Remus Marius OPRESCU<sup>1)</sup>, Dan CUJBESCU<sup>1)</sup>, Iulian VOICEA<sup>1)</sup>, Cătălin PERSU<sup>1)</sup>, Radu RĂDOI<sup>2)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> INOE 2000 - IHP / Romania *E-mail: <a href="mailto:oprescu.remusmarius@gmail.com">oprescu.remusmarius@gmail.com</a> ; *Tel: 0766 580 791	<b>EVALUATION OF THE AGROBIOLOGICAL PERFORMANCE OF FOREIGN WINTER WHEAT VARIETIES UNDER THE PEDOCLIMATIC CONDITIONS OF CENTRAL MOLDOVA / EVALUAREA COMPORTAMENTULUI AGROBIOLOGIC AL UNOR SOIURI STRĂINE DE GRÂU DE TOAMNĂ ÎN RAPORT CU CONDIȚIILE PEDOCLIMATICE DIN REGIUNEA CENTRALĂ A MOLDOVEI</b> <b>Alexandra LEONTE<sup>1)</sup>, George TOADER<sup>2)</sup>, Andreea - Sabina PINTILIE<sup>1)</sup>, Simona-Florina ISTICIOAIA<sup>1)</sup>, Lorena-Diana POPA<sup>1)</sup>, Andreea MATACHE<sup>3)</sup>, Oana MÎRZAN<sup>1)</sup>, Margareta NAIE<sup>1)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> Saaten Union, Bucharest / Romania; <sup>3)</sup> INMA Bucharest / Romania *E-mail: <a href="mailto:andra29nt@yahoo.com">andra29nt@yahoo.com</a>
<b>PERFORMANCE EVALUATION OF THE EXPERIMENTAL PLANER-GRADER MODEL FOR PERMANENT GRASSLAND MAINTENANCE / EVALUAREA PERFORMANȚELOR MODELULUI EXPERIMENTAL DE RINDEA-GREDER PENTRU ÎNTREȚINEREA PAJȘTILOR PERMANENTE</b> <b>Eugen MARIN<sup>1)</sup>, Vasile MOCANU<sup>2)</sup>, Tudor-Adrian ENE<sup>2)</sup>, Dragoș MANEA<sup>1)</sup>, Mihai-Gabriel MATACHE<sup>1)</sup>, Laurențiu-Constantin VLĂDUȚOIU<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Institute of Research - Development for Grasslands - ICDP Brasov / Romania *E-mail: <a href="mailto:marineu61@yahoo.com">marineu61@yahoo.com</a> ; *Tel: 0758 437 214	<b>RESEARCH ON THE BEHAVIOR OF SOME PERENNIAL GRASS AND LEGUME SPECIES GROWN IN SIMPLE MIXTURES IN THE PEDOCLIMATIC CONDITIONS OF A.R.D.S. SECUIENI / CERCETĂRI PRIVIND COMPORTAREA UNOR SPECII DE GRAMINEE ȘI LEGUMINOASE PERENE CULTIVATE ÎN AMESTECURI SIMPLE ÎN CONDIȚIILE PEDOCLIMATICE DE LA S.C.D.A. SECUIENI</b> <b>Margareta NAIE<sup>1)</sup>, Oana MÎRZAN<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Mihai STAVARACHE<sup>2)</sup>, Adriana MUSCALU<sup>3)</sup>, Diana BATÎR RUSU<sup>3)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> Research and Development Station for Grassland Vaslui / Romania; <sup>3)</sup> INMA Bucharest / Romania; <sup>4)</sup> Vegetable Research and Development Station Suceava / Romania *E-mail: <a href="mailto:naie.marieta@yahoo.com">naie.marieta@yahoo.com</a>
<b>THEORETICAL AND APPLICATIVE CONSIDERATIONS ON HYDROPONIC PLANT GROWTH / CONSIDERAȚII TEORETICE ȘI APLICATIVE PRIVIND CREȘTEREA HIDROPONICĂ A PLANTELOR</b> <b>Iulian VOICEA<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Catalin PERSU<sup>1)</sup>, Dan CUJBESCU<sup>1)</sup>, Remus OPRESCU<sup>1)</sup>, Iuliana GAGEANU<sup>1)</sup>, Roxana ZAHARIA<sup>2)</sup>, Viorel FATU<sup>2)</sup>, Angela MOHORA<sup>3)</sup>, Vlad-Nicolae ARSENOAIA<sup>4)</sup>, Diana STEGARUS (POPESCU)<sup>5)</sup>, Mariana Cristina ARCADE<sup>6)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Research and Development Institute for Plant Protection - ICDPP Bucharest / Romania; <sup>3)</sup> HORTING Bucharest / Romania; <sup>4)</sup> Faculty of Agriculture, Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine / Romania; <sup>5)</sup> National Research & Development Institute for Cryogenics and Isotopic Technologies - ICSI Ramnicu Valcea / Romania; <sup>6)</sup> Research and Development Station for Fisheries Nucet / Romania *Tel: 0752 161 780; *E-mail: <a href="mailto:voicea_iulian@yahoo.com">voicea_iulian@yahoo.com</a>	<b>AGROBIOLOGICAL EVALUATION OF COMMON BEAN (PHASEOLUS VULGARIS L.) GENOTYPES UNDER THE SOIL AND CLIMATIC CONDITIONS OF CENTRAL MOLDOVA / CARACTERIZAREA AGROBIOLOGICĂ A UNOR GENOTIPURI DE FASOLE DE CÂMP (PHASEOLUS VULGARIS L.) ÎN CONDIȚIILE PEDOCLIMATICE ALE CENTRULUI MOLDOVEI</b> <b>Simona - Florina ISTICIOAIA<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Andreea - Sabina PINTILIE<sup>1)</sup>, Andreea ENEA<sup>1)</sup>, Lorena-Diana POPA<sup>1)</sup>, Raluca - Dana REZI<sup>2)</sup>, Adrian NEGREA<sup>2)</sup>, Danela MURARIU<sup>3)</sup>, Dumitru - Dorel BLAGA<sup>3)</sup>, Gheorghe MATEI<sup>4)</sup>, Augustina PRUTEANU<sup>5)</sup>, Raluca - Sînziana ZAHARIA<sup>6)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> Agricultural Research and Development Station Turda / Romania; <sup>3)</sup> Vegetable Research and Development Station Suceava / Romania; <sup>4)</sup> University of Craiova / Romania; <sup>5)</sup> INMA Bucharest / Romania; <sup>6)</sup> Iasi University of Life Sciences / Romania; *E-mail: <a href="mailto:raluca.rezi@scdaturda.ro">raluca.rezi@scdaturda.ro</a>
<b>DESIGN OPTIMIZATION OF CUTTING BLADES FOR MOWING EQUIPMENT THROUGH COMPARATIVE STUDY USING SOLIDWORKS SIMULATION / OPTIMIZAREA CONSTRUCTIVĂ A CUTITELOR PENTRU ECHIPAMENTE DE COSIT PRIN STUDIU COMPARATIV UTILIZÂND SOLIDWORKS SIMULATION</b> <b>Alin-Nicolae HARABAGIU<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Lucreția POPA<sup>1)</sup>, Dragoș-Nicolae DUMITRU<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Dragoș MANEA<sup>1)</sup>, Polifron CHIRITA<sup>2)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> INOE IHP / Romania * Tel: 0773 867 656; *E-mail: <a href="mailto:alinhara04@gmail.com">alinhara04@gmail.com</a>	<b>STUDY ON THE PRODUCTIVITY AND ECONOMIC EFFICIENCY OF SPRING WHEAT UNDER THE PEDOCLIMATIC CONDITIONS OF CENTRAL MOLDOVA / STUDIU PRIVIND PRODUCTIVITATEA ȘI EFICIENȚA ECONOMICĂ A GRĂULUI DE PRIMĂVARĂ ÎN CONDIȚIILE PEDOCLIMATICE ALE CENTRULUI MOLDOVEI</b> <b>Andreea - Sabina PINTILIE<sup>1)</sup>, Simona - Florina ISTICIOAIA<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Lorena - Diana POPA<sup>1)</sup>, Andreea ENEA<sup>1)</sup>, Cosmin MURARU<sup>1)</sup>, Paula - Lucelia PINTILIE<sup>1)</sup>, Gheorghe MATEI<sup>2)</sup>, Rozalia KADAR<sup>3)</sup>, Ionuț RACZ<sup>3)</sup>, Costin MIRCEA<sup>4)</sup>, Cătălina - Adina DRUȚU<sup>5)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> University of Craiova / Romania; <sup>3)</sup> Agricultural Research and Development Station Turda / Romania; <sup>4)</sup> INMA Bucharest / Romania; <sup>5)</sup> Ion Ionescu de la Brad Technological High School – Horia / Romania; *E-mail: <a href="mailto:andreea.pintilie@scda.ro">andreea.pintilie@scda.ro</a>
<b>DIGITAL AGRICULTURE - USE OF ARTIFICIAL INTELLIGENCE IN AGRICULTURAL PRODUCTION / AGRICULTURA DIGITALĂ - UTILIZAREA INTELIGENȚEI ARTIFICIALE ÎN PRODUCȚIA AGRICOLĂ</b> <b>Vlad-Nicolae ARSENOAIA<sup>1)</sup>, Iulian VOICEA<sup>2)</sup>, Florin NENCIU<sup>2)</sup>, Catalin PERSU<sup>2)</sup>, Dan CUJBESCU<sup>2)</sup>, Viorel FATU<sup>3)</sup></b> <sup>1)</sup> Faculty of Agriculture, Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine, / Romania; <sup>2)</sup> INMA Bucharest / Romania; <sup>3)</sup> Research and Development Institute for Plant Protection - ICDPP Bucharest / Romania. *Tel: 0752 161 780; *E-mail: <a href="mailto:voicea_iulian@yahoo.com">voicea_iulian@yahoo.com</a>	<b>STUDY ON THE PRODUCTIVITY AND ECONOMIC EFFICIENCY OF WINTER BARLEY UNDER THE PEDOCLIMATIC CONDITIONS OF CENTRAL MOLDOVA / STUDIU PRIVIND PRODUCTIVITATEA ȘI EFICIENȚA ECONOMICĂ A ORZULUI DE TOAMNĂ ÎN CONDIȚIILE PEDOCLIMATICE ALE CENTRULUI MOLDOVEI</b> <b>Simona - Florina ISTICIOAIA<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Andreea - Sabina PINTILIE<sup>1)</sup>, Lorena - Diana POPA<sup>1)</sup>, Andreea ENEA<sup>1)</sup>, Cosmin MURARU<sup>1)</sup>, Doru STANCIU<sup>1)</sup>, Gheorghe MATEI<sup>2)</sup>, Liliana VASILESCU<sup>3)</sup>, Eugen - Iulian PETCU<sup>3)</sup>, Mihaela NITU<sup>4)</sup>, Ramona – Georgeta OLARU<sup>5)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> University of Craiova / Romania; <sup>3)</sup> National Agricultural Research and Development Institute Fundulea / Romania; <sup>4)</sup> INMA Bucharest / Romania; <sup>5)</sup> Făget Technological High School-Bacău / Romania *E-mail: <a href="mailto:cmuraru2001@gmail.com">cmuraru2001@gmail.com</a>

<p><b>IMPLEMENTATION OF A MICROHYDROPOWER SYSTEM FOR SUSTAINABLE AERATION OF FISH PONDS / REALIZAREA UNUI SISTEM MICROHIDROENERGETIC PENTRU AERAREA SUSTENABILĂ A BAZINELOR PISCICOLE</b>  <b>Marinela MATEESCU<sup>1)</sup>, Dragoș MANEA<sup>1)</sup>, Eugen MARIN<sup>1)</sup>, Dragoș- Nicolae DUMITRU<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Ioan PAVEL<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>INOE IHP / Romania  *Tel: 0758 437 214; *E-mail: <a href="mailto:marineu61@yahoo.com">marineu61@yahoo.com</a></p>	10 <sup>00</sup> -10 <sup>05</sup>	<p><b>BLACK SOLDIER FLY LARVAE (HERMETIA ILLUCENS): FROM SUSTAINABLE ANIMAL FEED TO EMERGING HUMAN FOOD SOURCE / LARVELE DE MUSCĂ SOLDAT NEGRU (HERMETIA ILLUCENS): DE LA FURAJ SUSTENABIL PENTRU ANIMALE LA SURSĂ ALIMENTARĂ EMERGENTĂ PENTRU OAMENI</b>  <b>Nicoleta UNGUREANU<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Mariana IONESCU<sup>1)</sup>, Neluș-Evelin GHEORGHIȚĂ<sup>1)</sup>, Valeria-Elena VLĂDUȚ<sup>1)</sup>, Oana-Elena MILEA<sup>1, 2)</sup>, Ștefan DUMITRU<sup>1, 2)</sup></b>  <sup>1)</sup>National University of Science and Technology Politehnica Bucharest / Romania; <sup>2)</sup> INMA Bucharest / Romania  *E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	10 <sup>00</sup> -10 <sup>05</sup>
<p><b>CURRENT TRENDS IN DIGITAL FARMING TECHNOLOGY / TENDINȚE ACTUALE ÎN TEHNOLOGIA AGRICOLĂ DIGITALĂ</b>  <b>Carmen BRACACESCU<sup>1)</sup>, Oana CRISTEA<sup>1)</sup>, Imre KISS<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>University POLITEHNICA Timișoara / Romania  *E-mail: <a href="mailto:carmenbraca@yahoo.com">carmenbraca@yahoo.com</a>; *Tel: 0770 513 926</p>	10 <sup>05</sup> -10 <sup>10</sup>	<p><b>DETERMINANT FACTORS FOR THE SUSTAINABILITY OF VEGETABLE CROPS - A REVIEW / FACTORI DETERMINANȚI AI SUSTENABILITĂȚII CULTURILOR LEGUMICOLE - A REVIEW</b>  <b>Gabriel-Ciprian TELIBAN<sup>1)</sup>, Doru Relu ANTON<sup>1)</sup>, Vasile STOLERU<sup>1)</sup>, Alexandru COJOCARU<sup>1)</sup>, Anamaria CIUBOTĂRIȚA<sup>1)</sup>, Lorena-Diana POPA<sup>2)</sup>, Nicolae-Valentin VLĂDUȚ<sup>3)</sup>, Neculai MUNTEANU<sup>4)</sup></b>  <sup>1)</sup> "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania; <sup>2)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>3)</sup> INMA Bucharest / Romania  *E-mail: <a href="mailto:ing.antondoru@yahoo.com">ing.antondoru@yahoo.com</a>; <a href="mailto:neculai.munteanu@iuls.ro">neculai.munteanu@iuls.ro</a></p>	10 <sup>05</sup> -10 <sup>10</sup>
<p><b>APPLICATION OF UAV MULTISPECTRAL IMAGERY FOR VINEYARD MANAGEMENT THROUGH VEGETATION STATUS ASSESSMENT / APLICAREA IMAGINILOR UAV MULTISPECTRALE PENTRU MANAGEMENTUL VITICOL PRIN EVALUAREA STĂRII DE VEGETAȚIE</b>  <b>Dan CUJBESCU, Cătălin PERSU<sup>*</sup>, Mihai MATACHE, Iuliana GĂGEANU, Iulian VOICEA</b>  INMA Bucharest / Romania  *E-mail: <a href="mailto:persucatalin@yahoo.com">persucatalin@yahoo.com</a>, Tel: 0784636431</p>	10 <sup>10</sup> -10 <sup>15</sup>	<p><b>THE IMPACT OF DISRUPTIVE FACTORS ON THE SUSTAINABILITY OF VEGETABLE PRODUCTION IN THE TECUCI AREA / IMPACTUL FACTORILOR PERTURBATORI ASUPRA SUSTENABILITĂȚII LEGUMICULTURII ÎN ZONA TECUCI</b>  <b>Doru Relu ANTON<sup>1)</sup>, Vasile STOLERU<sup>1)</sup>, Alexandru COJOCARU<sup>1)</sup>, Anamaria CIUBOTĂRIȚA<sup>1)</sup>, Maricel VITĂNESCU<sup>1)</sup>, Lorena-Diana POPA<sup>2)</sup>, Ana-Maria TĂBĂRAȘU<sup>3)</sup>, Teodor STAN<sup>1)</sup>, Gabriel-Ciprian TELIBAN<sup>4)</sup>, Neculai MUNTEANU<sup>5)</sup></b>  <sup>1)</sup> "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania; <sup>2)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>3)</sup> INMA Bucharest / Romania  *Email: <a href="mailto:gabriel.teliban@iuls.ro">gabriel.teliban@iuls.ro</a>; <a href="mailto:neculai.munteanu@iuls.ro">neculai.munteanu@iuls.ro</a></p>	10 <sup>10</sup> -10 <sup>15</sup>
<p><b>APPLICATION OF GOOD AGRICULTURAL PRACTICES TO IMPROVE SOIL HEALTH IN THE CENTRAL REGION - CASE STUDY / APLICAREA BUNELOR PRACTICI AGRICOLE PENTRU ÎMBUNĂTĂȚIREA SĂNĂTĂȚII SOLULUI ÎN REGIUNEA CENTRU - STUDIU DE CAZ</b>  <b>Dragoș MANEA<sup>1)</sup>, Eugen MARIN<sup>1)</sup>, Daniel LATEȘ<sup>2)</sup>, Paul TRIPON<sup>2)</sup>, Laurențiu VLĂDUȚOIU<sup>1)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> IRUM SA Reghin / Romania  *Tel: 0724 350 567; *E-mail: <a href="mailto:manea_dragos_05@yahoo.com">manea_dragos_05@yahoo.com</a></p>	10 <sup>15</sup> -10 <sup>20</sup>	<p><b>CAPITALIZING ON CLIMATE-IMPACTED AGRICULTURAL AREAS WITH CHAENOMELES FRUIT SHRUBS / VALORIFICAREA ZONELOR AGRICOLE AFECTATE DE SCHIMBARILE CLIMATICE CU ARBUȘTI FRUCTIFERI</b>  <b>Chaenomeles</b>  <b>Tamara Elena MIHOUCI<sup>1)</sup>, Denisa Eglantina DUȚĂ<sup>1)</sup>, Luminița CATANĂ<sup>1)</sup>, Gabriela Daniela CRIVEANU-STAMATIE<sup>1)</sup>, Monica CATANĂ<sup>1)</sup>, Iulia GRIGORE<sup>2)</sup></b>  <sup>1)</sup>National Research and Development Institute for Food Bioresources, IBA Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  *Email: <a href="mailto:denisa.duta@bioresurse.ro">denisa.duta@bioresurse.ro</a></p>	10 <sup>15</sup> -10 <sup>20</sup>
<p><b>USE OF MONITORING SYSTEMS FOR FUNCTIONAL PARAMETERS OF EQUIPMENT IN MECHANIZED TECHNOLOGIES FOR FRUIT GROWING / UTILIZAREA SISTEMELOR DE MONITORIZARE A PARAMETRILOR FUNCȚIONALI LA ECHIPAMENTE DESTINATE TEHNOLOGIILOR MECANIZATE ÎN POMICULTURĂ</b>  <b>Radu CIUPERCĂ<sup>1)</sup>, Ana ZAICA<sup>1)</sup>, Lucreția POPA<sup>1)</sup>, Gabriel-Valentin GHEORGHE<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Alexandra Vișan<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Alin HARABAGIU<sup>1)</sup>, Dragoș-Nicolae DUMITRU<sup>1)</sup>, Teodor Costinel POPESCU<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>INOE 2000 - IHP / Romania  *Tel: 0726 719 726; *E-mail: <a href="mailto:ciupercaradu@yahoo.com">ciupercaradu@yahoo.com</a></p>	10 <sup>20</sup> -10 <sup>25</sup>	<p><b>BLACK SOLDIER FLY (HERMETIA ILLUCENS) FOR SUSTAINABLE ORGANIC WASTE MANAGEMENT: LIFECYCLE, SUBSTRATES, AND BIOCONVERSION PARAMETERS / MUSCA SOLDAT NEGRU (HERMETIA ILLUCENS) ÎN MANAGEMENTUL SUSTENABIL AL DEȘEURILOR ORGANICE: CICLUL DE VIAȚĂ, SUBSTRATURI ȘI PARAMETRII BIOCONVERȘIEI</b>  <b>Nicoleta UNGUREANU<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Mariana IONESCU<sup>1)</sup>, Neluș-Evelin GHEORGHIȚĂ<sup>1)</sup>, Mirela-Nicoleta DINCĂ<sup>1)</sup></b>  <sup>1)</sup>National University of Science and Technology Politehnica Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  *E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	10 <sup>20</sup> -10 <sup>25</sup>
<p><b>INNOVATIVE TECHNOLOGIES FOR THE SUSTAINABLE DEVELOPMENT OF FRUIT GROWING: ECONOMIC, SOCIAL AND ENVIRONMENTAL IMPACTS / CONTRIBUȚIA TEHNOLOGIILOR INOVATIVE LA DEZVOLTAREA DURABILĂ A POMICULTURII: IMPACT ECONOMIC, SOCIAL ȘI ECOLOGIC</b>  <b>Ana ZAICA<sup>1)</sup>, Radu CIUPERCĂ<sup>1)</sup>, Lucreția POPA<sup>1)</sup>, Gabriel-Valentin GHEORGHE<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Alexandra VIȘAN<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Alin HARABAGIU<sup>1)</sup>, Dragoș-Nicolae DUMITRU<sup>1)</sup>, Gheorghe ȘOVĂIALĂ<sup>2)</sup></b>  INMA Bucharest / Romania  *Tel: 0728 977 317; *E-mail: <a href="mailto:zaica_ana@yahoo.com">zaica_ana@yahoo.com</a></p>	10 <sup>25</sup> -10 <sup>30</sup>	<p><b>ANALYSIS OF PRODUCTS OBTAINED BY PYROLYSIS-REVIEW / ANALIZA PRODUȘILOR OBȚINUȚI PRIN PIROLIZĂ-REVIEW</b>  <b>Vasilica ȘTEFAN<sup>*</sup>, Alin HARABAGIU, Radu CIUPERCĂ, Lucreția POPA, Ana ZAICA, Alexandra VIȘAN, Stefano MANTOVANI, Nino MARICA<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>Research and Development Station for Fisheries Nucet / Romania  *Tel: 0722 245 443; *E-mail: <a href="mailto:valle_vali@yahoo.com">valle_vali@yahoo.com</a></p>	10 <sup>25</sup> -10 <sup>30</sup>
<p><b>INTELLIGENT MONITORING SYSTEM FOR APPLE ORCHARD PESTS BASED ON PHEROMONE TRAP, ADHESIVE PLATE, AND AI-BASED AUTOMATIC RECOGNITION CORRELATED WITH WEATHER PARAMETERS / SISTEM INTELIGENT DE MONITORIZARE A DĂUNĂTORILOR ÎN LIVEZILE DE MĂR BAZAT PE CAPCANĂ CU FEROMONI, PLACĂ ADEZIVĂ ȘI RECUNOAȘTERE AUTOMATĂ CU INTELIGENȚĂ ARTIFICIALĂ CORELATĂ CU PARAMETRII METEO</b>  <b>Cătălin PERSU<sup>1)</sup>, Dan CUJBESCU<sup>1)</sup>, Robert CRISTEA<sup>1)</sup>, Iuliana GĂGEANU<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Teofil-Alin ONCESCU<sup>1)</sup>, Iulian VOICEA<sup>1)</sup>, Remus OPRESCU<sup>1)</sup>, Mihai-Gabriel MATACHE<sup>1)</sup>, Paula-Lucelia PINTILIE<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>ARDS Secuieni / Romania  *Tel: 0784 636 431; *E-mail: <a href="mailto:persucatalin@yahoo.com">persucatalin@yahoo.com</a></p>	10 <sup>30</sup> -10 <sup>35</sup>	<p><b>IMPACT OF CERTAIN AGRICULTURAL PRACTICES ON SEED AND BIOMASS YIELD IN MONOCROUS HEMP (CANNABIS SATIVA L.) UNDER SCDA SECUIENI EXPERIMENTAL CONDITIONS / IMPACTUL UNOR PRACTICI AGRICOLE ASUPRA PRODUCȚIEI DE SĂMÂNȚĂ ȘI BIOMASĂ LA CÂNEPA MONOICĂ (CANNABIS SATIVA L.), ÎN CONDIȚIILE EXPERIMENTALE DE LA SCDA SECUIENI</b>  <b>Lorena-Diana POPA<sup>1)</sup>, Simona-Florina ISTICIOAIA<sup>1)</sup>, Gheorghe MATEI<sup>2)</sup>, Alexandra LEONTE<sup>1)</sup>, Iuliana GĂGEANU<sup>3)</sup>, Nicolae-Valentin VLĂDUȚ<sup>3)</sup>, Anca PANDA<sup>4)</sup>, Marian BURDUCEA<sup>5)</sup>, Ioana BUȚERCHI<sup>6)</sup>, Gabriel-Ciprian TELIBAN<sup>6)</sup></b>  <sup>1)</sup> Agricultural Research and Development Station Secuieni - SCDA Secuieni / Romania; <sup>2)</sup> University of Craiova / Romania; <sup>3)</sup>INMA Bucharest / Romania; <sup>4)</sup> Agricultural Research and Development Station Lovrin - SCDA Lovrin / Romania; <sup>5)</sup> "Alexandru Ioan Cuza" University, Iasi / Romania; <sup>6)</sup> "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania  *E-mail: <a href="mailto:dy.hemp420@gmail.com">dy.hemp420@gmail.com</a></p>	10 <sup>30</sup> -10 <sup>35</sup>

<p><b>AUTOMATED PHEROMONE TRAP WITH AI RECOGNITION FOR APPLE ORCHARD PESTS: SYSTEM DESIGN, VALIDATION, AND CLIMATIC DATA INTEGRATION / VALIDAREA ȘI INTEGRAREA DATELOR CLIMATICE PENTRU CAPCANĂ AUTOMATIZATĂ CU FEROMONI ȘI RECUNOAȘTERE PRIN INTELIGENȚĂ ARTIFICIALĂ PENTRU DĂUNĂTORII DIN LIVEZILE DE MĂR: PROIECTARE, VALIDARE ȘI INTEGRAREA DATELOR CLIMATICE</b>  <b>Cătălin PERSU<sup>1)</sup>, Dan CUJBESCU<sup>1)</sup>, Robert CRISTEA<sup>1)</sup>, Iuliana GĂGEANU<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Teofil-Alin ONCESCU<sup>1)</sup>, Iulian VOICEA<sup>1)</sup>, Remus OPRESCU<sup>1)</sup>, Mihai-Gabriel MATACHE<sup>1)</sup>, Robert BLEJAN<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; INOE IHP / Romania  *Tel: 0784 636 431; *E-mail: <a href="mailto:persucatalin@yahoo.com">persucatalin@yahoo.com</a></p>	10 <sup>40</sup> -10 <sup>45</sup>	<p><b>GIS TECHNOLOGY AND ITS APPLICATIONS IN ENVIRONMENTAL ENGINEERING / TEHNOLOGIA GIS ȘI APLICAȚIILE ACESTEIA ÎN INGINERIA MEDIULUI</b>  <b>Bianca-Ștefania ZĂBAVĂ<sup>1)</sup>, Gheorghe VOICU<sup>1)</sup>, Mirela - Nicoleta DINCĂ<sup>1)</sup>, Gigel PARASCHIV<sup>1)</sup>, Mariana IONESCU<sup>1)</sup>, Georgiana MOICEANU<sup>2)</sup>, Mariana FERDEȘ<sup>1)</sup></b>  <sup>1)</sup> Department of Biotechnical Systems, National University of Science and Technology Politehnica of Bucharest / Romania;  <sup>2)</sup> Department of Management and Entrepreneurship, National University of Science and Technology Politehnica of Bucharest / Romania  *E-mail: <a href="mailto:bianca.dragoiu@yahoo.com">bianca.dragoiu@yahoo.com</a></p>	10 <sup>40</sup> -10 <sup>45</sup>
<p><b>OPTIMIZATION OF AIRFLOW THROUGH THE ENCLOSURE OF AN ACTIVE COOLING SYSTEM FOR DRONE-MOUNTED ELECTRONIC EQUIPMENT / OPTIMIZAREA FLUXULUI DE AER PRIN CARCASA UNUI SISTEM DE RĂCIRE ACTIV PENTRU ECHIPAMENTE ELECTRONICE MONTATE PE DRONE</b>  <b>Gabriel-Valentin GHEORGHE<sup>1)</sup>, Alin-Nicolae HARABAGIU<sup>1)</sup>, Stefano MANTOVANI<sup>1)</sup>, Dragoș-Nicolae DUMITRU<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Carmen BĂLȚĂTU<sup>1)</sup>, Mariana MUNTEANU<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University of Science and Technology Politehnica Bucharest, Faculty of Biotechnical Systems Engineering / Romania  *Tel: 0773 867 656; *E-mail: <a href="mailto:gabrielvalentinghe@yahoo.com">gabrielvalentinghe@yahoo.com</a></p>	10 <sup>45</sup> -10 <sup>50</sup>	<p><b>ASPECTS REGARDING THE REMEDIATION OF SOILS POLLUTED WITH POLYCYCLIC AROMATIC HYDROCARBONS THROUGH OZONATION / ASPECTE PRIVIND REMEDIEREA SOLURILOR POLUATE CU HIDROCARBURI AROMATICE POLICICLICE PRIN OZONARE</b>  <b>Carmen-Otilia RUSĂNESCU<sup>1)</sup>, Gigel PARASCHIV<sup>1)</sup>, Irina Aura ISTRATE<sup>1)</sup>, Gabriel Alexandru CONSTANTIN<sup>1)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Gheorghe VOICU<sup>1)</sup>, Andrei-Marian RUSĂNESCU<sup>2)</sup>, Maria GHEORGHE<sup>3)</sup>, Anca Ștefania MAXIM<sup>1)</sup></b>  <sup>1)</sup> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania  <sup>2)</sup> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Computer Science / Romania  <sup>3)</sup> Department of Training for Teaching Career and Socio-Human Sciences, POLITEHNICA Bucharest / Romania  *E-mail: <a href="mailto:ia_istrate@yahoo.com">ia_istrate@yahoo.com</a>; <a href="mailto:rusanescuaudreimarian@gmail.com">rusanescuaudreimarian@gmail.com</a></p>	10 <sup>45</sup> -10 <sup>50</sup>
<p><b>ENHANCING HUMAN-MACHINE INTERACTION WITH SMART KNOBS AND HAPTIC FEEDBACK / ÎMBUNĂȚIREA INTERACȚIUNII OM-MAȘINĂ CU BUTOANE INTELIGENTE ȘI FEEDBACK HAPTIC</b>  <b>Gabriel FODOREAN<sup>1)</sup>, Alin PLEȘA<sup>2)</sup>, Emil-Octavian TEUȚAN<sup>2)</sup>, Sergiu-Dan STAN<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> Technical University of Cluj-Napoca, Faculty of Automotive Engineering, Mechatronics and Mechanics, Cluj-Napoca, Cluj County / Romania  *Tel: (+40)741 212 696; *E-mail: <a href="mailto:gabriel.fodorean@gmail.com">gabriel.fodorean@gmail.com</a></p>	10 <sup>50</sup> -10 <sup>55</sup>	<p><b>BIOREMEDIATION OF SOILS CONTAMINATED WITH HYDROCARBONS USING MICROBIAL CONSORTIA / BIOREMIEREA SOLURILOR CONTAMINATE CU HIDROCARBURI UTILIZĂND CONSORTII MICROBIENE</b>  <b>Mirela-Nicoleta DINCĂ*, Mariana FERDEȘ, Irina - Aura ISTRATE, Gabriel - Alexandru CONSTANTIN, Gigel PARASCHIV, Mariana IONESCU, Bianca - Ștefania ZĂBAVĂ, Gabriel MUȘUROI, Georgiana MOICEANU, Carmen-Otilia RUSĂNESCU</b>  National University of Science and Technology Politehnica Bucharest / Romania  *Tel: (+40)761 938 017; *E-mail: <a href="mailto:mirela.dinca@upb.ro">mirela.dinca@upb.ro</a></p>	10 <sup>50</sup> -10 <sup>55</sup>
<p><b>DESIGN AND SIMULATION OF A RANDOM FOREST-BASED CONTROL ALGORITHM FOR GREENHOUSE MANAGEMENT / PROIECTAREA ȘI SIMULAREA UNUI ALGORITM DE CONTROL BAZAT PE RANDOM FOREST PENTRU MANAGEMENTUL SERELOR</b>  <b>Mihai-Gabriel MATACHE<sup>1)</sup>, Robert CRISTEA<sup>1)</sup>, Dragoș-Ioan SĂCĂLEANU<sup>2)</sup>, Cristina-Mihaela DOBRE<sup>3)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> National University for Science and Technology POLITEHNICA Bucharest, CAMPUS Research Institute / Romania; <sup>3)</sup> Beia Consult International SRL / Romania  *Tel: 0212 693 255; *E-mail: <a href="mailto:matache@inma.ro">matache@inma.ro</a></p>	10 <sup>55</sup> -11 <sup>00</sup>	<p><b>REGIONAL MONITORING OF MICRO- AND MACROELEMENT CONTENT IN ALLIUM AND LEAFY VEGETABLES FROM ROMANIAN SOILS / MONITORIZAREA REGIONALĂ A CONȚINUTULUI DE MICRO- ȘI MACROELEMENTE DIN ALLIUM ȘI LEGUME CU FOAIE DIN SOLURILE ROMÂNEȘTI</b>  <b>Nadia PAUN<sup>1)</sup>, Ramona ZGAVAROGEA<sup>1)</sup>, Diana Ionela POESCU (STEGARUS)<sup>1)</sup>, Iulian VOICEA<sup>2)</sup>, Ana NASTURE<sup>1)</sup>, Violeta-Carolina NICULESCU<sup>1)</sup></b>  <sup>1)</sup>National R&amp;D Institute for Cryogenic and Isotopic Technologies - ICSI Ramnicu Valcea, / Romania; <sup>2)</sup>INMA Bucharest / Romania  *E-mail: <a href="mailto:violeta.niculescu@icsi.ro">violeta.niculescu@icsi.ro</a></p>	10 <sup>55</sup> -11 <sup>00</sup>
<p><b>MODAL VIBRATION ANALYSIS OF AN AGRICULTURAL DRONE STRUCTURE FOR THE PREVENTION OF RESONANCE PHENOMENA / ANALIZA MODURILOR PROPRII DE VIBRAȚIE ALE STRUCTURII UNEI DRONE AGRICOLE PENTRU PREVENIREA FENOMENULUI DE REZONANȚĂ</b>  <b>Gabriel-Valentin GHEORGHE<sup>1)</sup>, Alin-Nicolae HARABAGIU<sup>1)</sup>, Stefano MANTOVANI<sup>1)</sup>, Dragoș-Nicolae DUMITRU<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup>, Carmen BĂLȚĂTU<sup>1)</sup>, Liliana DUMITRESCU<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>INOE IHP / Romania  *Tel: 0773 867 656; *E-mail: <a href="mailto:gabrielvalentinghe@yahoo.com">gabrielvalentinghe@yahoo.com</a></p>	11 <sup>00</sup> -11 <sup>05</sup>	<p><b>AN OVERVIEW OF PESTICIDE RESIDUES IN FRUITS AND VEGETABLES AVAILABLE ON THE ROMANIAN MARKET / PREZENTARE GENERALĂ A REZIDUURILOR DE PESTICIDE DIN FRUCTE ȘI LEGUME DISPONIBILE PE PIAȚA ROMÂNEASCĂ</b>  <b>Diana Ionela POESCU (STEGARUS)<sup>1)</sup>, Violeta-Carolina NICULESCU<sup>1)</sup>, Iulian VOICEA<sup>2)</sup>, Anca Nicoleta ȘUȚAN (IONESCU)<sup>3)</sup></b>  <sup>1)</sup> National Research and Development Institute for Cryogenic and Isotopic Technologies, ICSI Ramnicu Valcea, / Romania;  <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup> Department of Natural Sciences, National University of Science and Technology POLITEHNICA Bucharest, Pitesti University Centre / Romania  E-mail: <a href="mailto:violeta.niculescu@icsi.ro">violeta.niculescu@icsi.ro</a></p>	11 <sup>00</sup> -11 <sup>05</sup>
<b>11<sup>00</sup>-11<sup>30</sup>: Coffee break</b>			
<p><b>EVALUATION OF NETTLE PARTS FOR FUNCTIONAL FOODS, BASED ON A NOVEL ANTIOXIDANT-DIETARY ELEMENT INDEX (ADEI) / EVALUAREA PĂRȚILOR DE URZICĂ PENTRU ALIMENTE FUNCȚIONALE, PE BAZA UNUI INDICE NOU DE ANTIOXIDANȚI ȘI ELEMENTE NUTRITIVE</b>  <b>Patricia-Cristina TARKANYI<sup>1)</sup>, Nicolae-Valentin VLADUȚ<sup>2)</sup>, Mihaela LĂCĂTUȘ<sup>1)</sup>, Laura RĂDULESCU<sup>1)</sup>, Liana Maria ALDA<sup>1)</sup>, Georgeta Sofia POESCU<sup>1)</sup>, Ioan Ladislau CABA<sup>2)</sup>, Despina Maria BORDEAN<sup>1)</sup></b>  <sup>1)</sup>University of Life Sciences "King Mihai I" from Timisoara / Romania; <sup>2)</sup>INMA Bucharest / Romania;  *Tel: 0748 283 409; *E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a>; Tel: 0726 612 460; *E-mail: <a href="mailto:lianaalda@usvt.ro">lianaalda@usvt.ro</a></p>	11 <sup>30</sup> -11 <sup>35</sup>	<p><b>BIOCHAR IN SUSTAINABLE AGRICULTURE: EFFECTIVE APPLICATION STRATEGIES FOR SOIL IMPROVEMENT AND PRODUCTIVITY INCREASE- REVIEW / BIOCHARUL ÎN AGRICULTURA DURABILĂ: STRATEGII EFICIENTE DE APLICARE PENTRU ÎMBUNĂȚIREA SOLULUI ȘI CREȘTEREA PRODUCTIVITĂȚII - REVIEW</b>  <b>Iulian DUMITRU<sup>1)</sup>, Laurențiu VLĂDUȚOIU<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Valentin VLADUȚ<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Oana-Elena MILEA<sup>1)</sup>, Gabriel NAE<sup>1)</sup>, Costin MIRCEA<sup>1)</sup>, Iulian VOICEA<sup>1)</sup>, Andreea-Iulia GRIGORE<sup>1)</sup>, Adriana BORȘ<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; INOE 2000 - IHP / Romania  *Tel: 0773 720 468; *E-mail: <a href="mailto:dumitru.iulian2016@gmail.com">dumitru.iulian2016@gmail.com</a></p>	11 <sup>30</sup> -11 <sup>35</sup>
<p><b>STUDY ON OPTIMIZING THE PERFORMANCE OF ROW CROP SEEDERS / STUDIUL PRIVIND OPTIMIZAREA PERFORMANȚELOR SEMĂNĂTORILOR DE PLANTE PRĂȘITOARE</b>  <b>Eugen MARIN*, Nicolae-Valentin VLĂDUȚ, Mihai-Gabriel MATACHE, Dan-Iulian CUJBESCU, Mario CRISTEA, Alexandru IONESCU</b>  INMA Bucharest / Romania  *Tel: 0758 437 214; *Email: <a href="mailto:marineu61@yahoo.com">marineu61@yahoo.com</a></p>	11 <sup>35</sup> -11 <sup>40</sup>	<p><b>THE INFLUENCE OF MAGNETISM ON THE GROWTH OF VEGETABLE PLANTS / INFLUENȚA MAGNETISMULUI ASUPRA CREȘTERII PLANTELOR LEGUMICOLE</b>  <b>Iulia GRIGORE<sup>1)</sup>, Laurențiu VLADUTOIU<sup>1)</sup>, Cristian SORICA<sup>1)</sup>, Elena SORICA<sup>1)</sup>, Mario CRISTEA<sup>1)</sup>, Robert Dorin CRISTEA<sup>1)</sup>, Gabriela-Daniela CRIVEANU-STAMATIE<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>IBA Bucharest / Romania  *Tel: (+40) 734.319.749; *E-mail: <a href="mailto:igrigore44@gmail.com">igrigore44@gmail.com</a></p>	11 <sup>35</sup> -11 <sup>40</sup>
<p><b>CONSIDERATIONS ON THE WORKING PROCESS OF MINIMUM TILLAGE EQUIPMENT / CONSIDERATII PRIVIND PROCESUL DE LUCRU AL ECHIPAMENTELOR DE PRELUCRARE MINIMĂ A SOLURILOR</b>  <b>Cristian RĂDU<sup>1)</sup>, Sorin BORUZ<sup>1)</sup>, Gheorghe MATEI<sup>1)</sup>, Nicolae-Valentin VLADUȚ<sup>2)</sup>, Dragoș ANGHELACHE<sup>1)</sup>, Nicoleta VANGHELE<sup>2)</sup>, Ana-Maria TABARASU<sup>2)</sup>, Alexandru IONESCU<sup>2)</sup>, Melania CISMARU<sup>3)</sup></b>  <sup>1)</sup>University of Craiova / Romania; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>NUST POLITEHNICA Bucharest / Romania  *E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	11 <sup>40</sup> -11 <sup>45</sup>	<p><b>STUDY ON MAGNETISM, ITS ADVANTAGES AND DISADVANTAGES IN DIFFERENT CROPS / STUDIUL PRIVIND MAGNETISMUL, AVANTAJELE ȘI DEZAVANTAJELE ACESTUIA LA DIFERITE CULTURI</b>  <b>Iulia GRIGORE*, Laurențiu VLADUTOIU, Cristian SORICA, Elena SORICA, Mario CRISTEA, Robert Dorin CRISTEA, Marinela GANCEA<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>Research and Development Station for Fisheries Nucet / Romania  *Tel: (+40) 734.319.749; *E-mail: <a href="mailto:igrigore44@gmail.com">igrigore44@gmail.com</a></p>	11 <sup>40</sup> -11 <sup>45</sup>

<p>THE INFLUENCE OF 3D PRINTING PARAMETERS ON THE MECHANICAL PROPERTIES OF SAMPLES MADE OF PLA / WPLYW PARAMETRÓW DRUKU 3D NA WŁAŚCIWOŚCI MECHANICZNE PRÓBEK WYTWORZONYCH Z PLA</p> <p>Adrian STELMACHOWICZ, Jacek MAZUR, Paweł SOBCZAK* UNIWERSYTET PRZYRODNICZY W LUBLINIE *E-mail: <a href="mailto:pawel.sobczak@up.lublin.pl">pawel.sobczak@up.lublin.pl</a></p>	11 <sup>45</sup> -11 <sup>50</sup>	<p>DESIGN AGRICULTURAL COMPOSITES FOR EASIER RECYCLABILITY – KEY APPROACHES / PROIECTAREA COMPOZITELOR AGRICOLE PENTRU O RECICLABILITATE MAI UȘOARĂ – ABORDĂRI CHEIE</p> <p>Imre KISS<sup>1)</sup>, Milan RACKOV<sup>2)</sup>, Sinisa KUZMANOVIC<sup>2)</sup>, Valentin VLĂDUȚ<sup>3)</sup></p> <p><sup>1)</sup>University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering &amp; Management / Romania; <sup>2)</sup>University of Novi Sad, Faculty of Technical Sciences, Department of Mechanization and Design Engineering / Serbia; <sup>4)</sup>INMA Bucharest / Romania Email: <a href="mailto:imre.kiss@fih.upt.ro">imre.kiss@fih.upt.ro</a></p>	11 <sup>45</sup> -11 <sup>50</sup>
<p>CREATING A DATABASE FOR ARTIFICIAL INTELLIGENCE TRAINING / CREAREA UNEI BAZE DE DATE CU SCOPUL ANTRENARII INTELIGENȚEI ARTIFICIALE</p> <p>Dorin-Andrei CÎRSTEĂ<sup>1)</sup>, Robert-Dorin CRISTEA<sup>1)</sup>, Mihai Gabriel MATACHE<sup>1)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania<sup>2)</sup> *E-mail: <a href="mailto:d_orinel@yahoo.com">d_orinel@yahoo.com</a></p>	11 <sup>50</sup> -11 <sup>55</sup>	<p>COMPARATIVE STUDY ON THE TECHNOLOGICAL AND AGRO-ECONOMIC TRAITS OF SELECTED PLANT SPECIES IN ROMANIA / STUDIU COMPARATIV ASUPRA CARACTERISTICILOR TEHNOLOGICE ȘI AGROECONOMICE ALE UNOR SPECII DE PLANTE CULTIVATE ÎN ROMÂNIA</p> <p>Iuliana GĂGEANU<sup>1)</sup>, Ana-Maria TĂBĂRAȘU<sup>1)</sup>, Teofil-Alin ONCESCU<sup>1)</sup>, Mathis TRUNET<sup>2)</sup>, Remy DANGLA<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest; <sup>2)</sup> ASSOLIA / France *E-mail: <a href="mailto:iulia.gageanu@gmail.com">iulia.gageanu@gmail.com</a>; <a href="mailto:anamariatabarasu">anamariatabarasu</a></p>	11 <sup>50</sup> -11 <sup>55</sup>
<p>RESEARCH ON THE DETERMINATION AND MONITORING OF THE PARAMETERS OF THE MECHANIZATION PROCESSES OF SOWING WORK / CERCETĂRI PRIVIND DETERMINAREA ȘI MONITORIZAREA PARAMETRILOR PROCESELOR DE MECANIZARE A LUCRĂRILOR DE SEMĂNAT</p> <p>Sorin BORUZ<sup>1)</sup>, Cristain RADU<sup>1)</sup>, Gheorghe MATEI<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup>, Dragoș ANGHELACHE<sup>2)</sup>, Nicoleta VANGHELE<sup>2)</sup>, Ana-Maria TABĂRASU<sup>2)</sup>, Alexandru IONESCU<sup>2)</sup>, Elena-Valeria VĂDUȚ<sup>3)</sup>, Imre KISS<sup>4)</sup></p> <p><sup>1)</sup>University of Craiova / Romania; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>University Politehnica Bucharest / Romania; <sup>4)</sup>University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering &amp; Management / Romania *Email: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	11 <sup>55</sup> -12 <sup>00</sup>	<p>EXTRUSION FABRICATION OF SHEEP-WOOL REINFORCED PLA/PBAT/PA BIOCOPPOSITES FOR AGRICULTURE 4.0/5.0 APPLICATIONS / FABRICAREA PRIN EXTRUDARE A BIOCOPPOSITELOR DIN PLA/PBAT/PA RANFORȘATE CU LÂNĂ DE OAIE PENTRU APLICAȚII ÎN AGRICULTURĂ 4.0/5.0</p> <p>Teodor Gabriel FODOREAN<sup>1)</sup>, Elena Mihaela NAGY<sup>1)</sup>, Dragoș-Vasile NICA<sup>1)</sup>, Eveline Anda LAZA<sup>1)</sup>, Ioan KABA<sup>1)</sup>, Nicolae-Valentin VLADUȚ<sup>1)</sup>, Teodor VINTILA<sup>2)</sup></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> University of Life Sciences "King Mihai I" from Timișoara / Romania *Tel: +40741 212 696; *E-mail: <a href="mailto:gabriel.fodorean@gmail.com">gabriel.fodorean@gmail.com</a></p>	11 <sup>55</sup> -12 <sup>00</sup>
<p>ANALYSIS OF THE SEPARATION PROCESS OF SEEDS FROM EARS OF GRAIN BASED ON THE LENGTH OF THE AXIAL FLOW THRESHER / ANALIZA PROCESULUI DE SEPARARE A SEMINTELOR DIN SPICE ÎN FUNCȚIE DE LUNGIMEA APARATULUI DE TREIER CU FLUX AXIAL</p> <p>Teofil-Alin ONCESCU<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>1)</sup>, Nicoleta UNGUREANU<sup>2)</sup>, Sorin-Stefan BIRIȘ<sup>2)</sup>, Atanas ATANASOV ZDRAVKOV<sup>3)</sup>, Sorin BUNGESCU<sup>4)</sup>, Gheorghe MATEI<sup>5)</sup>, Lorena-Diana POPA<sup>6)</sup>, Gabriel TELIBAN<sup>7)</sup>, Imre KISS<sup>8)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University of Science and Technology Politehnica Bucharest / Romania; <sup>3)</sup>University Angel Kanchev of Ruse / Bulgaria; <sup>4)</sup>USV "Regel Mihai I" Timișoara / Romania; <sup>5)</sup>University of Craiova / Romania; <sup>6)</sup>ARDS Secuieni / Romania; <sup>7)</sup>USV Iași / Romania; <sup>8)</sup>University POLITEHNICA Timișoara / Romania *Email: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	12 <sup>00</sup> -12 <sup>25</sup>	<p>INTEGRATED ASSESSMENT OF WATER STRESS IN TABLE GRAPEVINES USING PHYSIOLOGICAL, BIOMETRIC AND SATELLITE INDICATORS, AND THE IMPACT OF IRRIGATION ON YIELD AND HARVEST QUALITY / EVALUAREA INTEGRATĂ A STRESULUI HIDRIC LA VITA DE VIE PENTRU STRUGURI DE MASĂ FOLOSIND INDICATORI FIZIOLOGICI, BIOMETRICI ȘI SATELITARI ȘI IMPACTUL IRIGĂRII ASUPRA RANDAMENTULUI ȘI CALITĂȚII RECOLTEI</p> <p>Marian ION<sup>1)</sup>, Liliana PÎRCĂLABU<sup>1)</sup>, Cristian Burlacu<sup>1)</sup></p> <p><sup>1)</sup>Research Institute for Viticulture and Enology Valea Calugareasca / Romania *E-mail: <a href="mailto:alexandrinalster@gmail.com">alexandrinalster@gmail.com</a></p>	12 <sup>00</sup> -12 <sup>25</sup>
<p>CHROME PLATING FOR IMPROVE PERFORMANCE OF AGRICULTURAL EQUIPMENTS UNDER THE DEMANDING CONDITIONS FOUND IN FARMING OPERATIONS / CROMARE PENTRU ÎMBUNĂȚĂȚIREA PERFORMANȚEI ECHIPAMENTELOR AGRICOLE ÎN CONDIȚIILE EXIGENTE DIN OPERAȚIUNILE AGRICOLE</p> <p>Imre KISS<sup>1)</sup>, Sorin Aurel RAȚIU<sup>2)</sup>, Vasile George CIOATĂ<sup>3)</sup>, Carmen BRĂCĂCESCU<sup>4)</sup></p> <p><sup>1)</sup>University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering &amp; Management / Romania; <sup>2)</sup>INMA, Bucharest / Romania Email: <a href="mailto:imre.kiss@fih.upt.ro">imre.kiss@fih.upt.ro</a></p>	12 <sup>25</sup> -12 <sup>30</sup>	<p>STUDY ON THE METHOD OF OBTAINING PELLETS FROM SHEEP WOOL WASTE FOR USE AS ORGANIC FERTILIZER IN ORGANIC AGRICULTURE. REVIEW / STUDIU CU PRIVIRE LA MODALITATEA DE OBTINERE A PELETILOR DIN DESEUL DE LÂNĂ DE OAIE ÎN VEDEREA UTILIZĂRII CA ÎNGRĂȘĂMÂNT ORGANIC ÎN AGRICULTURA ECOLOGICĂ. REVIEW</p> <p>Ioan Ladislau CABA<sup>1)</sup>, Dragoș-Vasile NICA<sup>1)</sup>, Eveline Anda LAZA<sup>1)</sup>, Teodor Gabriel FODOREAN<sup>1)</sup>, Elena Mihaela NAGY<sup>1)</sup>, Nicolae-Valentin VLADUȚ<sup>1)</sup>, Teodor VINTILA<sup>2)</sup>, Despina Maria BORDEAN<sup>2)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> University of Life Sciences "King Mihai I" from Timișoara, / Romania *Tel: 0744 515 964; *E-mail: <a href="mailto:caba@yahoo.com">caba@yahoo.com</a></p>	12 <sup>25</sup> -12 <sup>30</sup>
<p>LABORATORY EVALUATION OF A SOFT ROBOTIC GRIPPER FOR TOMATOES HARVESTING / EVALUAREA DE LABORATOR A UNUI GRIPPER ROBOTIC MOALE PENTRU RECOLTAREA ROȘIILOR</p> <p>Dorin-Andrei CÎRSTEĂ<sup>1)</sup>, Gheorghe VOICU<sup>2)</sup>, Mariana EPURE<sup>1)</sup>, Robert Dorin CRISTEA<sup>1)</sup>, Florin Bogdan MARIN<sup>1)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>National University for Science and Technology POLITEHNICA Bucharest / Romania; <sup>3)</sup>"Dunărea de Jos" University of Galați / Romania *Email: <a href="mailto:mary_epure1@yahoo.com">mary_epure1@yahoo.com</a></p>	12 <sup>30</sup> -12 <sup>35</sup>	<p>SAFETY OF TRICHODERMA STRAINS IN AN ECOTOXICOLOGICAL CONTEXT: PRELIMINARY EVIDENCE FROM PLODIA INTERPUNCTELLA / SIGURANȚA TULPINILOR DE TRICHODERMA ÎN CONTEXTECOTOXICOLOGIC: DOVEZI PRELIMINARE PE PLODIA INTERPUNCTELLA</p> <p>Daniel COJANU<sup>1)</sup>, Cristina Maria LUMINARE<sup>1)</sup></p> <p><sup>1)</sup>Research-Development Institute for Plant Protection Bucharest, Romania *Email: <a href="mailto:daniel.cojanu13@yahoo.com">daniel.cojanu13@yahoo.com</a></p>	12 <sup>30</sup> -12 <sup>35</sup>
<p>DEEP LEARNING-POWERED APP FOR EARLY DETECTION OF TOMATO AND PEPPER LEAF DISEASES / APLICAȚIE BAZATĂ PE DEEP LEARNING PENTRU DETECTAREA TIMPURIE A BOLILOR FRUNZELOR DE ROȘII ȘI ARDEI*</p> <p>Robert-Dorin CRISTEA<sup>1)</sup>, Ionel Lucian DUMITRESCU<sup>2)</sup>, Alexandru-Cristian CIOACLA<sup>1)</sup>, Dorin-Andrei CÎRSTEĂ<sup>1)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania / <sup>2)</sup> Horting Bucharest / Romania *Email: <a href="mailto:robertcri@yahoo.com">robertcri@yahoo.com</a>; <a href="mailto:luciadumitrescu59@gmail.com">luciadumitrescu59@gmail.com</a></p>	12 <sup>35</sup> -12 <sup>40</sup>	<p>RESEARCH ON THE EVOLUTION OF WATER QUALITY PARAMETERS IN FISH PONDS DURING THE COLD SEASON IN THE CONTEXT OF CLIMATE CHANGE / CERCETĂRI PRIVIND EVOLUȚIA PARAMETRILORDE CALITATE AI APEI ÎN BAZINELE PISCICOLE ÎN SEZONUL RECE ÎN CONTEXTUL SCHIMBĂRIILOR CLIMATICE</p> <p>Marinela GANCEA<sup>1)</sup>, Mariana Cristina ARCADE<sup>1)</sup>, Mioara COSTACHE<sup>1)</sup>, Alin Constantin BARBU<sup>1)</sup>, Sorin Marian DRAGUȚ<sup>1)</sup>, Silvia RADU<sup>1)</sup>, Nicoleta Georgeta DOBROTA<sup>1)</sup>, Iulia GRIGORE<sup>2)</sup></p> <p><sup>1)</sup>Research and Development Station for Fisheries Nuceț / Romania; <sup>2)</sup>INMA Bucharest / Romania *E-mail: <a href="mailto:scp_nucet@yahoo.com">scp_nucet@yahoo.com</a>; <a href="mailto:alinbctin@gmail.com">alinbctin@gmail.com</a></p>	12 <sup>35</sup> -12 <sup>40</sup>
<p>THE INFLUENCE OF THE GRINDING PROCESS ON THE OBTAINING OF CONCENTRATED FEEDS / INFLUENȚA PROCESULUI DE MACINARE LA OBTINEREA NUTREȚURILOR CONCENTRATE</p> <p>Gheorghe STROESCU*, Alexandru IONESCU, Costin MIRCEA, Iulian DUMITRU</p> <p>National Institute of Research - Development for Machines and Installations Designed to Agriculture and Food Industry - INMA Bucharest / Romania *E-mail: <a href="mailto:gigistroescu62@gmail.com">gigistroescu62@gmail.com</a></p>	12 <sup>40</sup> -12 <sup>45</sup>	<p>PRELIMINARY RESEARCH ON SPERM QUALITY IN THE SILURUS GLANIS SPECIES / CERCETĂRI PRELIMINARE PRIVIND CALITATEA SPERMEI LA SPECIA SILURUS GLANIS</p> <p>Silvia RADU<sup>1)</sup>, Mioara COSTACHE<sup>1)</sup>, Nicoleta Georgeta DOBROTA<sup>1)</sup>, Gheorghe DOBROTA<sup>1)</sup>, Nino MARICA<sup>1)</sup>, Mariana Cristina ARCADE<sup>1)</sup>, Marinela GANCEA<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup></p> <p><sup>1)</sup> Research and Development Station for Fisheries Nuceț, Dambovită County / Romania; <sup>2)</sup>INMA Bucharest / Romania E-mail: <a href="mailto:scp_nucet@yahoo.com">scp_nucet@yahoo.com</a></p>	12 <sup>40</sup> -12 <sup>45</sup>
<p>ANALYSIS OF TRACTOR PERFORMANCE DEPENDING ON THE TYPE OF AGRICULTURAL WORK / ANALIZA PERFORMANȚEI TRACTORULUI ÎN FUNCȚIE DE TIPUL DE LUCRARE AGRICOLĂ</p> <p>Lavinia Madalina MICU<sup>1)</sup>, Daniel POPA<sup>1)</sup>, Alexandru Ionescu<sup>2)</sup></p> <p><sup>1)</sup>University of Life Sciences "King Mihai I" from Timișoara / Romania; <sup>2)</sup>INMA Bucharest / Romania *Email: <a href="mailto:lavinia_micu@usvt.ro">lavinia_micu@usvt.ro</a>; <a href="mailto:daniel_popa@usvt.ro">daniel_popa@usvt.ro</a></p>	12 <sup>45</sup> -12 <sup>50</sup>	<p>STUDY ON BIOCHAR APPLICATION METHODOLOGIES IN DIFFERENT VEGETABLE CROPS- REVIEW / STUDIU PRIVIND METODOLOGIILE DE APLICARE BIOCHAR IN DIFERITE CULTURI AGRICOLE LEGUMICOLE</p> <p>Alexandra-Liana VIȘAN<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Alin HARABAGIU<sup>1)</sup>, Radu CIUPERCĂ<sup>1)</sup>, Ana ZAICA<sup>1)</sup></p> <p><sup>1)</sup>INMA Bucharest / Romania *Tel: 0724697550; E-mail: <a href="mailto:alexandron1982@yahoo.com">alexandron1982@yahoo.com</a></p>	12 <sup>45</sup> -12 <sup>50</sup>

<p><b>VIBRATORY CULTIVATORS FOR SUSTAINABLE AGRICULTURE: A REVIEW OF DESIGN, PERFORMANCE, AND SMART TECHNOLOGIES / CULTIVATOARELE VIBRATOARE ÎN AGRICULTURA SUSTENABILĂ: ANALIZĂ A PROIECTĂRII, PERFORMANȚEI ȘI TEHNOLOGIILOR INTELIGENTE</b>  <b>Neluș-Evelin GHEORGHÎĂ<sup>1)</sup>, Sorin-Ștefan BIRIȘ<sup>1)</sup>, Raluca-Adriana ZOTA<sup>1)</sup>, Mariana IONESCU<sup>1)</sup>, Dragoș ANGHELACHE<sup>2)</sup></b></p> <p><sup>1)</sup> Faculty of Biotechnical Systems Engineering, National University of Science and Technology POLITEHNICA Bucharest / Romania; <sup>2)</sup> INMA Bucharest / Romania  *Tel: 0726 453 269; E-mail: <a href="mailto:evelin_gheorghita@yahoo.com">evelin_gheorghita@yahoo.com</a></p>	<p>12<sup>30</sup>-12<sup>35</sup></p>	<p><b>REMEDIACTION METHODS OF CONTAMINATED SOILS - REVIEW / METODE DE REMEDIERE A SOLURILOR CONTAMINATE - REVIEW</b>  <b>Mariana Gabriela MUNTEANU<sup>1)</sup>, Irina Aura ISTRATE<sup>1)</sup>, Gheorghe VOICU<sup>1)</sup>, Georgiana MOICEANU<sup>2)</sup>, Elena Mădălina ȘTEFAN<sup>1)</sup>, Mihai Sabin MAGUREAN<sup>3)</sup>, Gabriel GHEORGHE<sup>4)</sup></b></p> <p><sup>1)</sup> National University of Science and Technology Politehnica Bucharest, Faculty of Biotechnical Systems Engineering / Romania; <sup>2)</sup> National University of Science and Technology Politehnica Bucharest, Faculty of Entrepreneurship, Engineering and Business Management / Romania; <sup>3)</sup> Colentina Clinical Hospital, Bucharest / Romania; <sup>4)</sup> INMA Bucharest / Romania  *Tel: +40 767 236 522; *E-mail: <a href="mailto:mariana.munteanu@upb.ro">mariana.munteanu@upb.ro</a></p>	<p>12<sup>30</sup>-12<sup>35</sup></p>
<p><b>STUDY ON THE TRANSFORMATION OF AN ADBLUE SYSTEM INTO A NOXIOUS EMISSION MEASURING DEVICE / STUDIU PRIVIND TRANSFORMAREA UNUI SISTEM ADBLUE ÎNTR-UN DISPOZITIV DE MĂSURARE A EMISIILOR NOCIVE</b>  <b>Lavinia Madalina MICU<sup>1)</sup>, Daniel POPA<sup>1)</sup>, Sorin Tiberiu BUNGESCU<sup>1)</sup>, Teofil-Alin ONCESCU<sup>2)</sup></b></p> <p><sup>1)</sup> University of Life Sciences "King Mihai I" from Timisoara / Romania; <sup>2)</sup> INMA Bucharest / Romania  *Email: <a href="mailto:lavinia_micu@usvt.ro">lavinia_micu@usvt.ro</a>; <a href="mailto:daniel_popa@usvt.ro">daniel_popa@usvt.ro</a>; <a href="mailto:sorin_bungescu@usvt.ro">sorin_bungescu@usvt.ro</a></p>	<p>12<sup>35</sup>-12<sup>40</sup></p>	<p><b>THE INFLUENCE OF HYDROCLIMATIC FACTORS ON THE MIGRATION OF DANUBE SHAD (ALOSA IMMACULATA) FOR THE GÂRCOV-IRON GATES II SECTOR / INFLUENȚA FACTORILOR HIDROCLIMATICI ASUPRA MIGRAȚIEI SCRUMBIEI DE DUNĂRE (ALOSA IMMACULATA) PENTRU SECTORUL GÂRCOV-PORTILE DE FIER II</b>  <b>Nino MARICA<sup>1)</sup>, Mioara COSTACHE<sup>1)</sup>, Mihail COSTACHE<sup>1)</sup>, Silvia RADU<sup>1)</sup>, Nicoleta DOBROTĂ<sup>1)</sup>, Gheorghe DOBROTĂ<sup>1)</sup>, Vasilica ȘTEFAN<sup>2)</sup></b></p> <p><sup>1)</sup> Research and Development Station for Fisheries Nucet, Dambovitza County / Romania; <sup>2)</sup> INMA Bucharest / Romania  *E-mail: <a href="mailto:nino.marica@yahoo.com">nino.marica@yahoo.com</a></p>	<p>12<sup>35</sup>-12<sup>40</sup></p>
<p><b>TESTING METHODOLOGY FOR A MIXED INTELLIGENT CROP BIRD SCARING SYSTEM / METODOLOGIE DE TESTARE PENTRU UN SISTEM INTELIGENT MIXT DE SPERIIAT PĂSĂRILE DIN CULTURI</b>  <b>Augustina PRUTEANU<sup>1)</sup>, Mihai MATACHE<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Dorin Andrei CÎRSTEA<sup>1)</sup>, Dorin Robert CRISTEA<sup>1)</sup>, Simona-Florina ISTICIOAIA<sup>2)</sup></b></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> ARDS Secuieni / Romania  *Tel: 0740 690 268; *E-mail: <a href="mailto:pruteanu_augustina@yahoo.com">pruteanu_augustina@yahoo.com</a></p>	<p>12<sup>40</sup>-12<sup>50</sup></p>	<p><b>WOOD-BASED WASTE RECYCLED INTO NEW ENGINEERED WOOD PRODUCTS IN A WASTE HIERARCHY CONCEPT / DEȘEURI PE BAZĂ DE LEMN RECICLATE ÎN NOI PRODUSE DIN LEMN INSTALAT ÎNTR-UN CONCEPT DE IERARHIE A DEȘEURILOR</b>  <b>Imre KISS<sup>1)</sup>, Eleonora DESNICA<sup>2)</sup>, Jelena DEMKO RIHTER<sup>3)</sup>, Zoran ANISIC<sup>3)</sup></b></p> <p><sup>1)</sup> University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering &amp; Management / Romania  <sup>2)</sup> University of Novi Sad, Technical Faculty "Mihajlo Pupin" / Serbia; <sup>3)</sup> University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Management / Serbia  Email: <a href="mailto:imre.kiss@fh.upt.ro">imre.kiss@fh.upt.ro</a></p>	<p>12<sup>40</sup>-12<sup>50</sup></p>
<p><b>THE STAGE OF POSSIBILITY OF SIMPLIFICATION AND MODERNIZATION OF HYDRAULIC SYSTEM CONTROLS FOR COMBINE HARVESTERS / STADIUL POSIBILITĂȚII DE SIMPLIFICARE ȘI MODERNIZARE A COMENZILOR SISTEMULUI HIDRAULIC AL COMBINELOR DE RECOLTAT</b>  <b>Stefano-Andrea MANTOVANI<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Radu CIUPERCA<sup>1)</sup>, Lucretia POPA<sup>1)</sup>, Ana ZAICA<sup>1)</sup>, Dragoș DUMITRU<sup>1)</sup>, Alin HARABAGIU<sup>1)</sup>, Melania CISMARU<sup>1)</sup>, Catalin DUMITRESCU<sup>2)</sup></b></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> INOE 2000 - IHP / Romania  *E-mail: <a href="mailto:stefanoandreamantovani@gmail.com">stefanoandreamantovani@gmail.com</a>; *Tel: (+40)723 814 202</p>	<p>12<sup>50</sup>-12<sup>55</sup></p>	<p><b>IMPROVED FILTER FOR A PYROLYSIS PROCESS OF SOLID WASTE / FILTRU ÎMBUNĂȚIT PENTRU UN PROCES DE PIROLIZĂ A DEȘEURILOR SOLIDE</b>  <b>Roxana Elena IONETE<sup>1)</sup>, Eusebiu-Iliarian IONETE<sup>1)</sup>, Stefan Ionut SPIRIDON<sup>1)</sup>, Marius CONSTANTINESCU<sup>1)</sup>, Felicia BUCURA<sup>1)</sup>, Antoaneta ROMAN<sup>1,2)</sup>, Violeta-Carolina NICULESCU<sup>1)</sup></b></p> <p><sup>1)</sup> National Research and Development Institute for Cryogenic and Isotopic Technologies, ICSI Rm Vilcea / Romania; <sup>2)</sup> Doctoral School of Chemical Engineering and Biotechnologies, National University of Science and Technology Politehnica Bucharest / Romania  *E-mail: <a href="mailto:violeta.niculescu@icsi.ro">violeta.niculescu@icsi.ro</a></p>	<p>12<sup>50</sup>-12<sup>55</sup></p>
<p><b>STUDIES AND RESEARCH ON THE TECHNOLOGICAL PROCESS OF REMOVING SOLID PARTICLES FROM WASTEWATER OF A RECIRCULATING AQUACULTURE FISH FARMING SYSTEM, BY USING TECHNICAL MECHANICAL FILTRATION EQUIPMENT / STUDII ȘI CERCETĂRI ASUPRA PROCESULUI TEHNOLOGIC DE ÎNDEPĂRTARE AL PARTICULELOR SOLIDE DIN APĂ REZIDUALĂ A UNUI SISTEM ACVAȚOL RECIRCULANT DE CREȘTERE A PEȘTELOR, PRIN UTILIZAREA UNUI ECHIPAMENT TEHNIC DE FILTRARE MECANICĂ</b>  <b>Evelin-Anda LAZA<sup>1)</sup>, Dragoș Vasile NICA<sup>1)</sup>, Ioan Ladislau CABA<sup>1)</sup>, Ana-Cristina VASILE<sup>2)</sup>, Aurelian GRUIN<sup>2)</sup></b></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> NIRD URBAN-INCERC Timisoara Branch / Romania  *Tel: 0741 122 570; *E-mail: <a href="mailto:eveline-anda@yahoo.com">eveline-anda@yahoo.com</a></p>	<p>12<sup>55</sup>-13<sup>00</sup></p>	<p><b>CROP ROTATION AS AN ENVIRONMENTALLY FRIENDLY APPROACH TO IMPROVE FARM PRODUCTION / ROTAȚIA CULTURILOR CA O ABORDARE ECOLOGICĂ PENTRU ÎMBUNĂȚIREA PRODUCȚIEI AGRICOLE</b>  <b>Mihaela NIȚU<sup>1)</sup>, Iuliana GĂGEANU<sup>1)</sup>, Ana-Maria TĂBĂRAȘU<sup>1)</sup>, Augustina PRUTEANU<sup>1)</sup>, Simona - Florina ISTICIOAIA<sup>2)</sup></b></p> <p><sup>1)</sup> INMA Bucharest; <sup>2)</sup> ARDS Secuieni / Romania  *E-mail: <a href="mailto:rosumihaelan@yahoo.com">rosumihaelan@yahoo.com</a></p> <p><b>ANALYSIS OF INSTANTANEOUS ELECTROMAGNETIC POWER DENSITY AND ITS EFFECTS ON HONEYBEE COLONIES IN THE PROXIMITY OF GSM ANTENNAS (0-500 M) / ANALIZA DENSITĂȚII DE PUTERE ELECTROMAGNETICĂ INSTANTANEE ȘI A EFECTELOR ACESTEIA ASUPRA COLONIILOR DE ALBINE ÎN APROPIEREA ANTENELOR GSM (0-500 M)</b>  <b>Viorel FĂTU<sup>1)</sup>, Agripina ȘAPCALIU<sup>1)</sup>, Roxana ZAHARIA<sup>1)</sup>, Dinu Mihaela Monica<sup>1)</sup>, Iulian VOICEA<sup>2)</sup></b></p> <p><sup>1)</sup> Research Development Institute for Plant Protection / Romania; <sup>2)</sup> INMA Bucharest / Romania  *Email: <a href="mailto:sapcaliuagripina@yahoo.com">sapcaliuagripina@yahoo.com</a></p>	<p>12<sup>55</sup>-13<sup>00</sup></p>
<p><b>EFFECT OF SHADING CAUSED BY PHOTOVOLTAIC PANELS INSTALLED ABOVE THE VINES ON THE PERFORMANCE OF CV. SAUVIGNON IN THE VALEA CALUGAREASCA WINE-GROWING. EFECTUL UMBRII DETERMINATE DE PANOURILE FOTOVOLTAICE INSTALATE DEASUPRA VITEI DE VIE ASUPRA PERFORMANȚEI SOIULUI SAUVIGNON ÎN CENTRUL VITICOL VALEA CĂLUGĂREASCĂ</b>  <b>Liliana PÎRCĂLABU<sup>1)</sup>, Cristian Burlacu<sup>1)</sup>, Marian Ion<sup>1)</sup></b></p> <p><sup>1)</sup> Research Institute for Viticulture and Enology Valea Calugareasca / Romania  *E-mail: <a href="mailto:cristiburlacu@yahoo.com">cristiburlacu@yahoo.com</a></p>	<p>13<sup>00</sup>-13<sup>05</sup></p>	<p><b>ASPECTS REGARDING LAND PREPARATION AND ESTABLISHMENT OF BIOMASS CROPS ON A TAILING DUMP IN THE PETRILA AREA / ASPECTE PRIVIND PREGĂTIREA TERENULUI ȘI ÎNFIINȚAREA CULTURILOR DE BIOMASĂ PE O HALDĂ DE STERIL DIN ZONA PETRILA</b>  <b>Cristian Marian SORICĂ<sup>1)</sup>, Cătălin PERSU<sup>1)</sup>, Oana CRISTEA<sup>1)</sup>, Emilia DUNCA<sup>2)</sup></b></p> <p><sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> University of Petroșani / Romania  *Tel: 0728045004; E-mail: <a href="mailto:cri_sor2002@yahoo.com">cri_sor2002@yahoo.com</a></p>	<p>13<sup>00</sup>-13<sup>05</sup></p>
<p><b>ANALYSIS OF INTERNATIONAL STANDARDS THAT CERTIFY THE PRODUCTS QUALITY OF PYROLYSIS PROCESS- REVIEW / ANALIZA STANDARDELOR INTERNAȚIONALE CARE CERTIFICA CALITATEA PRODUSELOR OBTINUTE DIN PROCESUL DE PIROLIZĂ</b>  <b>Alexandra-Liana VIȘAN<sup>1)</sup>, Vasilica ȘTEFAN<sup>1)</sup>, Alin HARABAGIU<sup>1)</sup>, Radu CIUPERCĂ<sup>1)</sup>, Ana ZAICA<sup>1)</sup></b></p> <p><sup>1)</sup> INMA Bucharest / Romania  *Tel: 0724697550; E-mail: <a href="mailto:alexandria1982@yahoo.com">alexandria1982@yahoo.com</a></p>	<p>13<sup>05</sup>-13<sup>10</sup></p>	<p><b>ASSESSMENT OF THE CARBON FOOTPRINT OF REPRESENTATIVE VEGETABLE CROPS IN SOUTHERN ROMANIA / EVALUAREA AMPRENTEI DE CARBON A UNOR CULTURI / LEGUMICOLE REPREZENTATIVE DIN SUDUL ROMÂNIEI</b>  <b>Viorel FĂTU, Roxana ZAHARIA, Cristina LUMINARE, Daniel COJANU, Mihaela BOTEA, Agripina ȘAPCALIU*</b></p> <p>Research and Development Institute for Plant Protection / Romania  *Tel: +40212693231; Email: <a href="mailto:sapcaliuagripina@yahoo.com">sapcaliuagripina@yahoo.com</a></p>	<p>13<sup>05</sup>-13<sup>10</sup></p>

SECTION 3 - FOOD INDUSTRY - POSTER PRESENTATION		SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - POSTER PRESENTATION		
<b>Chairman: ȘTEFAN Mădălina / MARIN Eugen / MUNTEANU Mariana</b>		<b>Chairman: CRAIFĂLEANU Andrei / DUȚU Mihaela / GHEORGHE Gabriel</b>		
<b>YIELD PREDICTION OF NICOTIANA RUSTICA L. USING CLUSTERING BY MAIN BREEDING TRAITS / ПРОГНОЗУВАННЯ ВРОЖАЙНОСТІ NICOTIANA RUSTICA L. З ВИКОРИСТАННЯМ КЛАСТЕРИЗАЦІЇ ЗА ОСНОВНИМИ СЕЛЕКЦІЙНИМИ ОЗНАКАМИ</b> <b>Karolina Sheydyk<sup>1)</sup>, Mykola KHARYTONOV<sup>2)</sup></b> <sup>1)</sup> The Institute of Agrarian Resources and Regional Development NAASU, Beregovo / Ukraine; <sup>2)</sup> Dnipro State Agrarian and Economic University, Dnipro / Ukraine <i>*E-mail: caroline.sheydyk@uzhnu.edu.ua; *Tel: +380 951 942 294</i>		09 <sup>30</sup> -09 <sup>35</sup>	<b>ENHANCING SOIL SAMPLING ACCURACY THROUGH IOT INTEGRATION / ÎMBUNĂȚĂȚIREA PRECIZIȚIEI EȘANȚIONĂRII SOLULUI PRIN INTEGRAREA IOT</b> <b>Alexandru-Cristian CIOACLA<sup>1)</sup>, Iuliana GAGEANU<sup>1)</sup>, Robert Dorin CRISTIEA<sup>1)</sup>, Mario CRISTEA<sup>1)</sup>, Dorin-Andrei CÎRSTEA<sup>1)</sup>, Roxana-Georgiana AMARGHIOALE<sup>2)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> ARDS Secuieni / Romania <i>*Email: iulia.gageanu@gmail.com</i>	09 <sup>30</sup> -09 <sup>35</sup>
<b>SAFFLOWER CULTIVATION: CHALLENGES AND PERSPECTIVES / CULTURA DE ȘOFRĂNEL: PROVOCĂRI ȘI PERSPECTIVE</b> <b>Cătălina TUDORA<sup>1)</sup>, Adriana MUSCALU<sup>1)</sup>, Marga GRĂDILĂ<sup>2)</sup>, Oana MÎRZAN<sup>3)</sup>, Florentina GATEA<sup>4)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Research - Development Institute for Plant Protection - ICDPP, Bucharest / Romania; <sup>3)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>4)</sup> National Institute for Biological Sciences / Romania <i>*Tel: 0726 274 958; *E-mail: cmc_tudora@yahoo.com</i>		09 <sup>35</sup> -09 <sup>40</sup>	<b>ASPECTS CONCERNING THE IMPACT OF AIR POLLUTION WITH SUSPENDED SOLID PARTICLES ON HUMAN HEALTH / ASPECTE PRIVIND IMPACTUL POLUARII AERULUI CU PARTICULE SOLIDE IN SUSPENSIE ASUPRA SANATATII UMANE</b> <b>Elena-Denisa PREDESCU<sup>1)</sup>, Carmen Otilia RUSĂNESCU<sup>1)</sup>, Roxana-Elena FRÎNCU<sup>1)</sup>, Sabrina Maria BĂLĂNESCU<sup>1)</sup></b> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania <i>*Tel: 0736 617 371; *E-mail: denisa.predescu23@yahoo.com</i>	09 <sup>35</sup> -09 <sup>40</sup>
<b>HOW CORN CROP ENTOMOFAUNA CHANGES OVER TIME: CENTRAL MOLDOVA (ROMANIA) / EVOLUȚIA ENTOMOFAUNEI DĂUNĂTOARE CULTURILOR DE PORUMB ÎN CONDIȚIILE DIN CENTRUL MOLDOVEI</b> <b>Paula - Lucelia PINTILIE<sup>1)</sup>, Elena TROTUȘ<sup>1)</sup>, Alexandra - Andreea BUBURUZ<sup>1)</sup>, Roxana - Georgiana AMARGHIOALE<sup>1)</sup>, Andreea - Sabina PINTILIE<sup>1)</sup>, Roxana ZAHARIA<sup>2)</sup>, Carmen MINCEA<sup>2)</sup>, Emil GEORGESCU<sup>3)</sup>, Catalin PERSU<sup>4)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> Research Development Institute for Plant Protection - ICDPP Bucharest / Romania; <sup>3)</sup> National Agricultural Research and Development Institute Fundulea / Romania; <sup>4)</sup> INMA Bucharest / Romania <i>*Email: paulapintiliescda@gmail.com</i>		09 <sup>40</sup> -09 <sup>45</sup>	<b>ADVANCING WASTEWATER MANAGEMENT TOWARDS A CIRCULAR ECONOMY: AN EUROPEAN OVERVIEW / ÎMBUNĂȚĂȚIREA GESTIONĂRII APELOR UZATE PENTRU TRANZIȚIA CĂTRE O ECONOMIE CIRCULARĂ: O PERSPECTIVĂ EUROPEANĂ</b> <b>Sabrina-Maria BĂLĂNESCU<sup>1)</sup>, Carmen Otilia RUSĂNESCU<sup>1)</sup>, Maria GHEORGHE<sup>2)</sup>, Daniela MIHAI<sup>1)</sup>, Ionela Alexandra ION<sup>1)</sup>, Elena Denisa PREDESCU<sup>1)</sup>, Elena Roxana FRÎNCU<sup>1)</sup>, Larisa PURDEA<sup>1)</sup></b> <sup>1)</sup> University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering / Romania; <sup>2)</sup> Department of Training for Teaching Career and Socio-Human Sciences, POLITEHNICA Bucharest / Romania <i>*E-mail: sabrina.balanescu1@gmail.com; *Tel: 0722 958 151</i>	09 <sup>40</sup> -09 <sup>45</sup>
<b>RESEARCH ON THE INFLUENCE OF TECHNOLOGICAL FACTORS ON FRUIT PRODUCTION IN PIMPINELLA ANISUM (ANISE) SPECIES / CERCETĂRI PRIVIND INFLUENȚA FACTORILOR TEHNOLOGICI ASUPRA PRODUCȚIEI DE FRUCTE LA SPECIA PIMPINELLA ANISUM (ANASON)</b> <b>Oana MÎRZAN<sup>1)</sup>, Margareta NAIIE<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Cătălina TUDORA<sup>2)</sup>, Adriana MUSCALU<sup>2)</sup>, Diana BATÎR RUSU<sup>3)</sup></b> <sup>1)</sup> Agricultural Research and Development Station Secuieni / Romania; <sup>2)</sup> INMA Bucharest / Romania; <sup>3)</sup> Vegetable Research and Development Station Suceava / Romania <i>*E-mail: spanuoana@yahoo.com</i>		09 <sup>45</sup> -09 <sup>50</sup>	<b>MAPPING THE LANDSCAPE OF CLIMATE CHANGE RESEARCH: GLOBAL TRENDS AND NATIONAL PERSPECTIVES / CARTOGRAFIEREA CERCETĂRII PRIVIND SCHIMBĂRILE CLIMATICE: DIRECȚII GLOBALE ȘI PERSPECTIVE NAȚIONALE</b> <b>Ionela-Alexandra ION<sup>*</sup>, Carmen Otilia RUSĂNESCU, Sabrina-Maria BĂLĂNESCU</b> National University of Science and Technology POLITEHNICA Bucharest / Romania <i>*E-mail: ionionelaalexandra@yahoo.com; *Tel: 0731 375 082</i>	09 <sup>45</sup> -09 <sup>50</sup>
<b>MINERAL COMPOSITION AND AROMA QUALITY IN BAY LAUREL (LAURUS NOBILIS) LEAVES/ COMPOZIȚIA MINERALĂ ȘI CALITATEA AROMEI FRUNZELOR DE DAFIN (LAURUS NOBILIS)</b> <b>Petruța ANDREI<sup>1)</sup>, Corina Dana MISCA<sup>1)</sup>, Aurica BREICA BOROZAN<sup>1)</sup>, Ioan Ladislau CABA<sup>2)</sup>, Diana MOIGRADEAN<sup>1)</sup>, Despina - Maria Bordean<sup>1)</sup></b> <sup>1)</sup> University of Life Sciences "King Mihai I" from Timisoara / Romania; <sup>2)</sup> INMA Bucharest / Romania <i>*E-mail: cabaioan@yahoo.com; despinabordean@usvt.ro</i>		09 <sup>50</sup> -09 <sup>55</sup>	<b>CURRENT TRENDS AND CHALLENGES IN LITHIUM-ION BATTERY RECYCLING / TENDINȚE ȘI PROVOCĂRI ACTUALE ÎN RECICLAREA BATERIILOR LI-ION</b> <b>Roxana-Elena FRÎNCU<sup>*</sup>, Carmen Otilia RUSĂNESCU, Elena-Denisa PREDESCU, Sabrina Maria BĂLĂNESCU, Daniela MIHAI</b> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania <i>*E-mail: roxana_elena.fr@yahoo.com; *Tel: 0735 460 810</i>	09 <sup>50</sup> -09 <sup>55</sup>
<b>EFFECT OF FRUITS POWDERS ADDITION ON WHEAT FLOUR DOUGH RHEOLOGICAL PROPERTIES – REVIEW / NFLUENȚA ADAOSULUI PUDREI DE FRUCTE ASUPRA PROPRIETĂȚILOR REOLOGICE ALE ALUATULUI DIN FĂINĂ DE GRĂU - REVIEW</b> <b>Elena-Mădălina ȘTEFAN<sup>1)</sup>, Aura-Irina ISTRATE<sup>1)</sup>, Gabriel-Alexandru CONSTANTIN<sup>1)</sup>, Mariana-Gabriela MUNTEANU<sup>1)</sup>, Gheorghe VOICU<sup>1)</sup>, Gabriel MUȘUROI<sup>1)</sup>, Alina-Daiana IONESCU<sup>1)</sup>, Elena-Melania CISMARU<sup>1)</sup></b> <sup>1)</sup> National University of Science and Technology POLITEHNICA Bucharest / Romania; <sup>2)</sup> INMA Bucharest / Romania <i>*Tel: 004-0723-542 609; E-mail: irina_aura.istrate@upb.ro</i>		09 <sup>55</sup> -10 <sup>00</sup>	<b>METHODS OF PRESERVING SOIL FERTILITY IN ARAD COUNTY, ROMANIA / METODE DE CONSERVARE A FERTILITĂȚII SOLULUI ÎN JUDEȚUL ARAD, ROMÂNIA</b> <b>Casiana MIHUȚ<sup>1)</sup>, Sorin Tiberiu BUNGESCU<sup>1)</sup>, Nicolae-Valentin VLADUȚ<sup>2)</sup>, Daniel POPA<sup>1)</sup>, Anișoara DUMA-COPCEA<sup>1)</sup>, Attila BLENESHI-DIMA<sup>1)</sup>, Aurelia MIHUȚ<sup>1)</sup>, Veaceslav MAZĂRE<sup>1)</sup></b> <sup>1)</sup> University of Life Sciences "KING MIHAI I" from TIMIȘOARA / Romania; <sup>2)</sup> INMA Bucharest / Romania <i>*E-mail: sorin_bungescu@usvt.ro</i>	09 <sup>55</sup> -10 <sup>00</sup>
<b>THE POTENTIAL OF OIL EXTRACTED BY COLD PRESSING HEMP SEEDS FOR FOOD USE / POTENȚIALUL ULEIULUI EXTRAS PRIN PRESAREA LA RECE A SEMINTELOR DE CÂNEPĂ PENTRU UZ ALIMENTAR</b> <b>Andreea MATACHE<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Nicoleta Alexandra VANGHELE<sup>1)</sup>, Gabriel NAE<sup>1)</sup>, Tatiana ONISEI<sup>2)</sup>, Lorena-Diana POPA<sup>3)</sup></b> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> IBA Bucharest / Romania; <sup>3)</sup> ARDS Secuieni / Romania <i>*Tel: 0212 693 259; *E-mail: andmatache@yahoo.com</i>		10 <sup>00</sup> -10 <sup>05</sup>	<b>A REVIEW OF SOLAR POTENTIAL / ANALIZA POTENȚIALULUI SOLAR</b> <b>Daniela MIHAI<sup>*</sup>, Carmen Otilia RUSĂNESCU, Sabrina Maria BĂLĂNESCU, Roxana-Elena FRÎNCU</b> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania <i>*E-mail: mihai.daniela03@gmail.com</i>	10 <sup>00</sup> -10 <sup>05</sup>
<b>TECHNOLOGIES IN THE DEHYDRATION OF BERRIES: A REVIEW / TEHNOLOGII ÎN DESHIDRATAREA FRUCTELOR DE PĂDURE</b> <b>Mariana IONESCU<sup>*</sup>, Gabriel-Alexandru CONSTANTIN, Sorin-Ștefan BIRIȘ, Neluș-Evelin GHEORGHÎĂ, Mirela-Nicoleta DINCĂ, Elena-Mădălina ȘTEFAN, Nicoleta UNGUREANU, Bianca-Ștefania ZĂBAVĂ</b> Department of Biotechnical Systems, National University of Science and Technology POLITEHNICA Bucharest / Romania <i>*Tel: (+40)734 010 193; *E-mail: mariana.ionescu@upb.ro</i>		10 <sup>05</sup> -10 <sup>10</sup>	<b>PM POLLUTION AND THEIR EFFECTS ON HUMAN HEALTH / POLUAREA CU PM SI EFECTELE LOR ASUPRA SANATATII UMANE</b> <b>Elena-Denisa PREDESCU<sup>1)</sup>, Roxana-Elena FRÎNCU<sup>2)</sup>, Sabrina Maria BĂLĂNESCU<sup>3)</sup>, Carmen Otilia RUSĂNESCU<sup>4)</sup></b> National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania <i>*Tel: 0736 617 371; *E-mail: denisa.predescu23@yahoo.com</i>	10 <sup>05</sup> -10 <sup>10</sup>

<p><b>OPTIMIZING PROCESSES IN AGRICULTURE AND THE FOOD INDUSTRY / OPTIMIZAREA PROCESELOR ÎN AGRICULTURĂ ȘI INDUSTRIA ALIMENTARĂ</b>  <b>Gabriel NAE<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Andreea MATACHE<sup>1)</sup>, Nicoleta VANGHELE<sup>1)</sup>, Lorena-Diana POPA<sup>2)</sup>, Floarea SERBANEA<sup>3)</sup>, Cristian SERBANEA<sup>3)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> Secuieni Agricultural Development Research Station / Romania;  <sup>3)</sup> National Institute for Research and Development of Food Bioresource - IBA, Bucharest / Romania  <i>*E-mail: gabi.nae83@yahoo.com</i></p>	<p>10<sup>14</sup>-10<sup>15</sup></p>	<p><b>VALORIZATION OF RENEWABLE RESOURCES FOR THE PRODUCTION OF BIOPLASTICS IN A CIRCULAR ECONOMY / VALORIFICAREA SURSELOR REGENERABILE PENTRU PRODUCEREA BIOPLASTICELOR ÎNTR-O ECONOMIE CIRCULARĂ</b>  <b>Ana-Maria TĂBĂRAȘU<sup>1)</sup>, Iuliana GĂGEANU<sup>1)</sup>, Dragoș-Nicolae ANGHELACHE<sup>1)</sup>, Alin-Teofil ONCESCU<sup>1)</sup>, Doru-Relu ANTON<sup>3)</sup>, Nicoleta-Alexandra VANGHELE<sup>1)</sup>, Melania-Elena CISMARU<sup>2)</sup>, Alexandru CIOACLĂ<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup>, Cristian RADU<sup>2)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>NUST POLITEHNICA Bucharest / Romania; <sup>3)</sup>University of Craiova / Romania; <sup>3)</sup>Ion Ionescu de la Brad Iasi University of Life Sciences / Romania  <i>*Tel: 0730 417 449; *E-mail: anamariatabarasu22@yahoo.com</i></p>	<p>10<sup>14</sup>-10<sup>15</sup></p>
<p><b>ASSESSMENT OF CHLOROPHYLL CONTENT IN STRAWBERRY (FRAGARIA SP.) GROWN UNDER PHOTOVOLTAIC PANELS WITH DIFFERENT TRANSPARENCY VALUES / EVALUAREA CONȚINUTULUI DE CLOROFILĂ LA PLANTELE DE CĂPȘUN (FRAGARIA SP.) CRESCUTE SUB PANOURI FOTOVOLTAICE CU DIFERITE VALORI DE TRANSPARENȚĂ</b>  <b>Mihaela Monica DINU<sup>1)</sup>, Viorel FĂTU<sup>1)</sup>, Cristina Maria LUMINARE<sup>1)</sup>, Roxana ZAHARIA<sup>1)</sup>, Mihaela OLARU<sup>2)</sup>, Alexandra Maria BARDOȘ MARTIȘ<sup>2)</sup>, Damian DRAGOMIR<sup>2)</sup>, Cătălin-Viorel OLTENACU<sup>2)</sup>, Dragoș OFRIM<sup>3)</sup></b>  <sup>1)</sup>Research-Development Institute for Plant Protection Bucharest / Romania; <sup>2)</sup>Research and Development Station for Fruit Tree Growing Băneasa / Romania; <sup>3)</sup>InterNET SRL, OFRIM Group, Romania  <i>*Tel: +4021 233 06 13; E-mail: postolici.mihaela@scdpbaneasa.ro</i></p>	<p>10<sup>15</sup>-10<sup>20</sup></p>	<p><b>USING AGRICULTURAL AND FORESTRY RESIDUES IN CONCRETE – A PRACTICAL APPROACH OF TRANSFORMING WASTE INTO VALUABLE RESOURCES / UTILIZAREA REZIDUURILOR AGRICOLE ȘI FORESTIERE ÎN BETON – O ABORDARE PRACTICĂ DE TRANSFORMARE A DEȘEURILOR ÎN RESURSE VALOASE</b>  <b>Andrei-Mihai BACIU<sup>1)</sup>, Imre KISS<sup>2)</sup>, Valentin VLĂDUȚ<sup>3)</sup>, Jozsef SÁROS<sup>4)</sup></b>  <sup>1)</sup>University Politehnica Timisoara, Doctoral School / Romania; <sup>2)</sup>University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering &amp; Management / Romania  <sup>3)</sup>INMA, Bucharest/ Romania; <sup>4)</sup>University of Szeged, Faculty of Engineering, Hungary  <i>Email: imre.kiss@fih.upt.ro</i></p>	<p>10<sup>15</sup>-10<sup>20</sup></p>
<p><b>EVALUATION OF THE NUTRITIONAL COMPOSITION OF HEMP-BASED DIETARY SUPPLEMENTS AND FUTURE TRENDS / EVALUAREA COMPOZIȚIEI NUTRIȚIONALE A SUPLIMENTELOR ALIMENTARE PE BAZĂ DE CÂNEPĂ ȘI TENDINȚELE VIITOARE</b>  <b>Andreea MATACHE<sup>1)</sup>, Nicoleta Alexandra VANGHELE<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Augustina Mirabela PRUTEANU<sup>1)</sup>, Tatiana ONISEI<sup>2)</sup>, Alexandra LEONTE<sup>3)</sup>, Lorena-Diana POPA<sup>3)</sup></b>  <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> IBA Bucharest / Romania; <sup>3)</sup> ARDS Secuieni / Romania;  <i>*Tel: 0212 693 259; *E-mail: andmatache@yahoo.com</i></p>	<p>10<sup>24</sup>-10<sup>25</sup></p>	<p><b>MAPPING THE LANDSCAPE OF CLIMATE CHANGE RESEARCH: GLOBAL TRENDS AND NATIONAL PERSPECTIVES / CARTOGRAFIEREA CERCETĂRII PRIVIND SCHIMBĂRILE CLIMATICE: DIRECȚII GLOBALE ȘI PERSPECTIVE NAȚIONALE</b>  <b>Ionela-Alexandra ION<sup>*</sup>, Carmen Otilia RUSĂNESCU, Sabrina-Maria BĂLĂNESCU</b>  National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania  <i>*E-mail: ionionelaalexandra@yahoo.com</i></p>	<p>10<sup>24</sup>-10<sup>25</sup></p>
<p><b>RECENT PERSPECTIVES ON THE DEVELOPMENT AND UTILIZATION OF HEMP-BASED DIETARY SUPPLEMENTS (CANNABIS SATIVA L.) / PERSPECTIVE ACTUALE PRIVIND DEZVOLTAREA ȘI UTILIZAREA SUPLIMENTELOR ALIMENTARE PE BAZĂ DE CÂNEPĂ (CANNABIS SATIVA L.)</b>  <b>Lorena-Diana POPA<sup>1)</sup>, Simona-Florina ISTICIOAIA<sup>1)</sup>, Alexandra LEONTE<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup>, Florin NENCIU<sup>2)</sup>, Tatiana ONISEI<sup>3)</sup>, Petru Alexandru VLAICU<sup>4)</sup>, Manuela RĂSCOL<sup>3)</sup>, Gheorghe MATEI<sup>5)</sup>, Gabriel-Ciprian TELIBAN<sup>6)</sup>, Carmen BRĂCĂCESCU<sup>2)</sup></b>  <sup>1)</sup>Agricultural Research and Development Station Secuieni - SCDA Secuieni / Romania; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>IBA Bucharest / Romania; <sup>4)</sup>INCBNA-IBNA Balotești / Romania; <sup>5)</sup>University of Craiova / Romania; <sup>6)</sup> "Ion Ionescu de la Brad" Iasi University of Life Sciences / Romania  <i>*Corresponding author E-mail: carmenbraca@yahoo.com</i></p>	<p>10<sup>25</sup>-10<sup>30</sup></p>	<p><b>ASSESSMENT OF THE ECOLOGICAL IMPACT OF ADVANCED WEED CONTROL TECHNOLOGIES / EVALUAREA IMPACTULUI ECOLOGIC AL TEHNOLOGIILOR AVANSATE DE CONTROL AL BURUIENILOR</b>  <b>Alexandru IONESCU<sup>1)</sup>, Gheorghe STROESCU<sup>1)</sup>, Florin NENCIU<sup>1)</sup>, Nicoleta VANGHELE<sup>1)</sup>, Dragoș ANGHELACHE<sup>1)</sup>, Ana-Maria TABARASU<sup>1)</sup>, Robert BLEJAN<sup>2)</sup>, Cătălin LAZĂR<sup>3)</sup>, Claudiu UTOIU<sup>4)</sup>, Lavinia Madalina MICU<sup>5)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> National Institute of Research or Hydraulics And Pneumatics, Bucharest / Romania;  <sup>3)</sup> National Institute of Research for Agricultural Development, Fundulea / Romania; <sup>4)</sup> National Institute of Research-Development for Food Bioresources / Romania; <sup>5)</sup>University of Life Sciences "King Mihai I" from Timisoara / Romania  <i>*Tel: (+40) 766 701 361; *E-mail: alex.alex12ab@gmail.com</i></p>	<p>10<sup>25</sup>-10<sup>30</sup></p>
<p><b>RESEARCH ON IMPROVING THE GENETIC POTENTIAL OF CULTURED CARP BY OPTIMIZING EARLY REPRODUCTION TECHNOLOGY UNDER CONTROLLED ENVIRONMENTAL CONDITIONS / CERCETĂRI PRIVIND CONSOLIDAREA POTENȚIALULUI GENETIC LA CRAPUL DE CULTURĂ PRIN OPTIMIZAREA TEHNOLOGIEI DE REPRODUCERE TIMPURIE, ÎN CONDIȚII DE MEDIU CONTROLATE</b>  <b>Mariana Cristina ARCADE<sup>1)</sup>, Mioara COSTACHE<sup>1)</sup>, Marinela GANCEA<sup>1)</sup>, Mihail COSTACHE<sup>1)</sup>, Silvia RADU<sup>1)</sup>, Alin Constantin BARBU<sup>1)</sup>, Iulian VOICEA<sup>2)</sup></b>  <sup>1)</sup>Research and Development Station for Fisheries Nucet / Romania; <sup>2)</sup>INMA Bucharest / Romania  <i>*E-mail: scp_nucet@yahoo.com, mioaracostache48@yahoo.com, alinbctin@gmail.com</i></p>	<p>10<sup>30</sup>-10<sup>35</sup></p>	<p><b>EMPIRICAL VALIDATION OF A NEW RISK MATRIX BASED OCCUPATIONAL RISK ASSESSMENT TOOL IN SMALL AND MEDIUM ENTERPRISES / VALIDAREA EMPIRICĂ A UNUI NOU INSTRUMENT DE EVALUARE A RISCURILOR OCUPAȚIONALE BAZAT PE O MATRICE DE RISC ÎN ÎNTREPRINDERILE MICI ȘI MIJLOCII</b>  <b>Adriana MILEA<sup>1)</sup>, Roland-Iosif MORARU<sup>2)</sup>, Nicolae-Valentin VLADUȚ<sup>3)</sup>, Lucian-Ionel CIOCA<sup>4)</sup></b>  <sup>1)</sup>Industrial Engineering and Management Department, Faculty of Engineering, Lucian Blaga University of Sibiu / Romania/  <sup>2)</sup>Management and Industrial Engineering Department, University of Petroșani / Romania; <sup>3)</sup>INMA Bucharest / Romania  <i>*Email: lucian.cioca@ulbsibiu.ro</i></p>	<p>10<sup>30</sup>-10<sup>35</sup></p>
<p><b>ASPECTS REGARDING MINIMAL PROCESSING OF FOOD PRODUCTS USING VACUUM IMPREGNATION / ASPECTE PRIVIND PROCESAREA MINIMALĂ A PRODUSELOR ALIMENTARE UTILIZÂND ÎMPREGNAREA ÎN VID</b>  <b>Cristian SORICĂ<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>1)</sup>, Daniela VERINGA<sup>2)</sup>, Laurențiu VLĂDUȚOIU<sup>1)</sup>, Elena SORICĂ<sup>1)</sup>, Andreea Iulia GRIGORE<sup>1)</sup>, Alexandru IONESCU<sup>1)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> ICDIMPH HORTING / Romania  <i>*E-mail: cri_sor2002@yahoo.com</i></p>		<p><b>MODERN METHODS FOR PROCESSING FERMENTED DAIRY PRODUCTS / METODE MODERNE DE PROCESARE A PRODUSELOR LACTATE FERMENTATE</b>  <b>Florentina BRATOSIN, Sorin-Ștefan BIRIȘ, Andreea-Ioana BADIU, Alexandru Ionuț CÎRÎC, Mihaela BEGEA<sup>*</sup></b>  National University of Science and Technology POLITEHNICA Bucharest / Romania  <i>*E-mail: mihaela.begea@gmail.com</i></p>	
<p><b>RESEARCH ON THE FORTIFICATION OF BAKERY PRODUCTS WITH SPIRULINA POWDER, INTENDED FOR DIABETICS AND THE OBESE / CERCETĂRI PRIVIND FORTIFIEREA CU SPIRULINĂ PULBERE, A PRODUSELOR DE PANIFICAȚIE, DESTINATE DIABETICILOR ȘI OBEZILOR</b>  <b>Anda-Grațîela BURNETE<sup>1)</sup>, Luminița CATANĂ<sup>1)</sup>, Monica CATANĂ<sup>1)</sup>, Alexandra Monica DĂRĂ<sup>1)</sup>, Florica CONSTANTINESCU<sup>1)</sup>, Valentin-Nicolae VLĂDUȚ<sup>2)</sup></b>  <sup>1)</sup>National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  <i>*E-mail: lumi_catana@yahoo.co.uk</i></p>		<p><b>THE INFLUENCE OF STORAGE CONDITIONS ON THE QUALITY OF CANNED MEAT / INFLUENȚA CONDIȚIILOR DE DEPOZITARE ASUPRA CALITĂȚII CONSERVELOR DE CARNE</b>  <b>Andreea Ioana BADIU, Sorin-Ștefan BIRIȘ, Florentina BRATOSIN, Alexandru Ionuț CÎRÎC, Mihaela BEGEA<sup>*</sup></b>  National University of Science and Technology POLITEHNICA Bucharest / Romania  <i>*E-mail: mihaela.begea@gmail.com</i></p>	

<p>RESEARCH ON THE USE OF BROCCOLI LEAVES TO OBTAIN A FUNCTIONAL INGREDIENT WITH HIGH NUTRITIONAL VALUE AND ANTIOXIDANT POTENTIAL /  <b>CERCETĂRI PRIVIND VALORIFICAREA FRUNZELOR DE BROCCOLI, ÎN SCOPUL OBȚINERII UNUI INGREDIENT FUNCȚIONAL, CU VALOARE NUTRITIVĂ RIDICATĂ ȘI POTENȚIAL ANTIOXIDANT</b>  <b>Alexandra Monica DĂRĂ<sup>1)</sup>, Monica CATANĂ<sup>1)*</sup>, Luminița CATANĂ<sup>1)</sup>, Anda-Grația BURNETE<sup>1)</sup>, Florica CONSTANTINESCU<sup>1)</sup>, Valentin-Nicolae VLĂDUȚ<sup>2)</sup></b>  <sup>1)</sup>National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  <i>*E-mail: mcatana1965@gmail.com</i></p>		<p>CONSIDERATIONS REGARDING THE WORKING PROCESS OF MINIMUM TILLAGE EQUIPMENT /  <b>CONSIDERAȚII PRIVIND PROCESUL DE LUCRU AL ECHIPAMENTELOR DE PRELUCRARE MINIMĂ A SOLULUI</b>  <b>Cristian RADU<sup>1)</sup>, Sorin BORUZ<sup>1)</sup>, Gheorghe MATEI<sup>1)</sup>, Nicolae-Valentin VLĂDUȚ<sup>2)</sup>, Dragoș ANGHELACHE<sup>2)</sup>, Nicoleta VANGHELE<sup>2)</sup>, Ana-Maria TĂBĂRAȘU<sup>2)</sup>, Alexandru IONESCU<sup>2)</sup>, Melania CISMARU<sup>3)</sup></b>  <sup>1)</sup>University of Craiova / Romania; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>National University of Science and Technology POLITEHNICA Bucharest / Romania  <i>*E-mail: valentin_vladut@yahoo.com</i></p>	
<p>RESEARCH ON THE FORTIFICATION OF PASTRY PRODUCTS WITH POWDER OBTAINED FROM WINE BY-PRODUCTS /  <b>CERCETĂRI PRIVIND FORTIFIEREA PRODUSELOR DE PATISERIE CU PULBERE OBȚINUTĂ DIN SUBPRODUSE VINICOLE</b>  <b>Alexandra Monica DĂRĂ<sup>1)</sup>, Anda-Grația BURNETE<sup>1)*</sup>, Anca ONACHE<sup>2)</sup></b>  <sup>1)</sup>National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania;  <sup>2)</sup>National Research &amp; Development Institute for Biotechnology in Horticulture Stefanesti / Romania  <i>*E-mail: lazar_anda92@yahoo.com</i></p>		<p>ASPECTS REGARDING THE EVALUATION OF THE PLANT MATERIAL CHARACTERISTICS FOR THE PRODUCTION OF ENERGY PELLETS /  <b>ASPECTE PRIVIND EVALUAREA CARACTERISTICILOR MATERIALULUI VEGETAL ÎN VEDEREA OBȚINERII DE PELEȚI ENERGETICI</b>  <b>Elena SORICĂ<sup>1)*</sup>, Nicolae-Valentin VLĂDUȚ<sup>1)</sup>, Daniela TRIFAN<sup>2)</sup>, Iuliana GĂGEANU<sup>1)</sup>, Iulian VOICEA<sup>1)</sup>, Laurențiu VLĂDUȚOIU<sup>1)</sup>, Cristian SORICĂ<sup>1)</sup>, Andreea Iulia GRIGORE<sup>1)</sup>, Gabriela MATACHE<sup>3)</sup></b>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>SCDA Brăila, Braila County / Romania; <sup>3)</sup>INOE 2000 – IHP / Romania  <i>*E-mail: postelnicu.elena@yahoo.com</i></p>	
<b>11<sup>00</sup>-11<sup>30</sup>: Coffee break</b>			

<p><b>SECTION 5 – PNRR-III-C9-2022 – I5 CeSoH, PS3, Fertile and healthy soil through conservative and biological practices</b>  Chairman: <b>MANEA Dragoș</b></p>	(ISB Faculty Hall D101)	<b>14<sup>30</sup>-15<sup>30</sup></b>
<p><b>SECTION 6 – Current technologies for weed control in field crops / Tehnologii curente pentru combaterea buruienilor în culturile de câmp</b>  Chairman: <b>IONESCU Alexandru</b></p>	(ISB Faculty Hall D117)	<b>14<sup>30</sup>-15<sup>30</sup></b>
<p><b>SECTION 7 – Crop Rotation Optimisation for Sustainable Agriculture in Romania</b>  Chairman: <b>GAGEANU Iuliana</b></p>	(ISB Faculty Hall D117)	<b>15<sup>30</sup>-16<sup>30</sup></b>

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