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- Program -

INTERNATIONAL SYMPOSIUM

ISB-INMA TEH

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

- 2025 -

09 – 11 October

October 9th, 2025

- ISB, D-101 Hall -

15⁰⁰ – 16⁰⁰

Participants registration

16⁰⁰ – 18⁰⁰

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 *President of the Mechanization Department – ASAS*
- 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*

18⁰⁰ – 21⁰⁰

Festive Dinner (ISB Faculty Building)

October 10th, 2025

9⁰⁰ – 09³⁰

Participants registration

9³⁰ – 11⁰⁰

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)

11⁰⁰ – 11³⁰

Coffee break

11³⁰ – 13³⁰

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)

9³⁰ – 12³⁰

Presentation of papers on sections (POSTER)

- ground floor hallway -

13⁰⁰ - 14³⁰

- All sections

Lunch

14³⁰-16³⁰

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 în culturile de câmp (D-117 Hall)
- Crop Rotation Optimisation for Sustainable Agriculture in Romania (D-117 Hall)

October 11th, 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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SECTION 1 - POWER AND MACHINERY - ORAL PRESENTATION		SECTION 2 - ECOLOGY & ENVIRONMENT - ORAL PRESENTATION	
Chairman: MAICAN Edmond / EKIELSKI Adam / MATACHE Mihai / Onder KABAS		Chairman: ISTRATE Irina / ŻELAZIŃSKI Tomasz / MARIAN Grigore / Cagatay SELVI	
AERODYNAMIC RESPONSE OF PEPPER SEEDS TO VARYING MOISTURE LEVELS: A BASIS FOR OPTIMIZING PNEUMATIC HANDLING AND SEED DISPERSAL / BIBER TOUMLARININ DEĞİŞEN NEM SEVİYELERİNE AERODİNAMİK TEPKİSİ: PNÖMATİK TAŞIMA VE TOHUM DAĞITIMINI OPTİMİZE ETMEK İÇİN BİR TEMEL Onder KABAS¹*, K. Cagatay SELVI² ¹ Department of Machine, Technical Science Vocational School, Akdeniz University / Turkey; ² 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>	9 ³⁰ -9 ⁴⁵	EFFICACY AND SELECTIVITY OF IMAZAMOX AND PENDIMETHALIN BASED HERBICIDE IN WEED CONTROL IN SOYBEAN CROPS / EFICACITATEA ȘI SELECTIVITATEA AMESTECULUI DE IMAZAMOX ȘI PENDIMETHALIN ÎN CONTROLUL BURUIENILOR DIN CULTURILE DE SOIA Marga GRĂDILĂ¹*, Daniel JALOBĂ¹, Valentin Marius CIONTU¹, Raluca Monica CRISTEA¹, Mihaela ȘERBAN², Victor PETCU², Nicolae-Valentin VLĂDUȚ³, Cătălina TUDORA³ ¹ Research - Development Institute for Plant Protection, Bucharest / Romania; ² National Agricultural Research and Development Institute Fundulea / Romania; ³ INMA Bucharest / Romania <i>*Tel: 0724 925 155; *E-mail: marga_gradila@yahoo.com</i>	9 ³⁰ -9 ⁴⁵
THE EFFECTS OF PRUNING SHEAR DESIGN ON HAND FORCES DURING HAZELNUT SUCKERS CUTTING / FINDIK SÜRGÜNLERİNİN KESİMİ SIRASINDA BUDAMA MAKASI TASARIMININ EL KUVVETLERİ ÜZERİNDEKİ ETKİLERİ Kemal Çağatay SELVI¹*, Mehmet Ali ERDOĞAN², Ehsan Fartash NAEIMI¹ ¹ Ondokuz Mayıs University, Department of Agricultural Machinery and Technologies Engineering / Samsun / Turkey; ² Minos Agricultural Machinery/ Izmir / Turkey <i>*E-mail: kcselvi@omu.edu.tr; *Tel: +90 507 926 28 29</i>	9 ⁴⁵ -10 ⁰⁰	CLIMATE CHANGE MITIGATION BY BIOLOGICAL CARBON SEQUESTRATION OF DIFFERENT MAIZE HYBRIDES / UBLAŽAVANJE KLIMATSKIH PROMJENA BIOLOŠKOM SEKVESTRACIJOM UGLJIKA RAZLIČITIH HIBRIDA KUKURUZA Darija BILANDŽIJA¹*, Marija GALIĆ¹, Grubor MATEJA², Tajana KRIČKA², Bilandžija NIKOLA² ¹ University of Zagreb Faculty of Agriculture, Division of Agroecology / Croatia; ² 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>	9 ⁴⁵ -10 ⁰⁰
STIMULATING TECHNICAL CREATIVITY AND DRAFTING PATENT DESCRIPTIONS ASSISTED BY ARTIFICIAL INTELLIGENCE / STIMULAREA CREATIVITĂȚII TEHNICE ȘI REDACTAREA DESCRIERILOR PENTRU BREVETE DE INVENȚII ASISTATE DE INTELIGENȚĂ ARTIFICIALĂ Mihai OLAN¹*, Lee (Simion) SANGMIN², Andrei MIHALACHE³, Radu CIUPERCA¹, Ana ZAICA¹ ¹ INMA Bucharest / Romania; ² CEO, Patenty Inc.-South Korea; ³ "Gheorghe Asachi" Technical University of Iasi, / Romania <i>*Tel: 0763 705 180; *E-mail: olaninma@gmail.com</i>	10 ⁰⁰ -10 ¹⁵	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 Grigore MARIAN¹*, Alexandru BANARI¹, Teodor MARIAN²*, Andrei PAVLENCO^{2,1} ¹ Technical University of Moldova, / Republic of Moldova; ² CC „BASADORO AGROTEH” LLC / Republic of Moldova <i>*Tel: +373.79446342; *E-mail: grigore.marian@if.utm.md</i>	10 ⁰⁰ -10 ¹⁵
CURRENT STATE OF RESEARCH ON THE INFLUENCE OF VIBRATIONS ON THE HUMAN BODY OF VEHICLE OPERATORS / STADIUL ACTUAL AL CERCETĂRILOR PRIVIND INFLUENȚA VIBRAȚIILOR ASUPRA ORGANISMULUI UMAN AL CONDUCĂTORULUI AUTO Teofil-Alin ONCESCU¹*, Nicolae-Valentin VLĂDUȚ¹, Iuliana GAGEANU¹, Ioan Catalin PERSU¹, Gabriel-Mihai MATACHE¹, Oana Elena MILEA¹, Ana-Maria TABARASU¹, Lavinia Madalina MICU² ¹ INMA Bucharest / Romania; ² University of Life Sciences "King Mihai I" from Timisoara <i>Tel: +40786848903; E-mail: alin.oncescu93@gmail.com</i>	10 ¹⁵ -10 ³⁰	ENGINEERING MEASURES FOR SOIL EROSION CONTROL: A MECHANISM-BASED SYNTHESIS / CONSIDERAȚII PRIVIND PRINCIPALELE METODE UTILIZATE ÎN CONTROLUL EROZIUNII SOLULUI Roxana Patricia IONAȘCU¹, Remus Marius OPRESCU²*, Dan CUJBESCU², Iulian VOICEA² ¹ Development Research Station for Combating Soil Erosion "Mircea Moțoc" Perieni, Vaslui County / Romania; ² INMA Bucharest / Romania <i>*E-mail: oprescu.remusmarius@gmail.com</i>	10 ¹⁵ -10 ³⁰
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 Mykola KHARYTONOV¹*, Nadia MARTYNOVA², Liubov MATUSHEVYCH³, Svitlana SYTNYK⁴ ¹ Ecology Department, Dnipro State Agrarian and Economic University, Dnipro / Ukraine; ² Botanical Garden, Oles Honchar Dnipro National University, Dnipro / Ukraine; ³ Department of Forest Mensuration and Forest Management, National University of Life and Environmental Sciences, Kyiv / Ukraine; ⁴ 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>	10 ³⁰ -10 ⁴⁵	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 ȘI PROCESELE DE FABRICAȚIE Carmen BRĂCĂCESCU¹*, Oana Diana CRISTEA¹*, Raluca-Veronica BRĂCĂCESCU², Lorena-Diana POPA³ ¹ INMA Bucharest / Romania; ² National University of Science and Technology Politehnica Bucharest (UNSTPB) / Romania; ³ ARDS Secuieni / Romania <i>*Tel: 0770 513 926; *E-mail: carmenbraca@yahoo.com</i>	10 ³⁰ -10 ⁴⁵
EXTENSIVE GREEN ROOFS FOR SMART BUILDINGS / ACOPERIȘURI VERZI EXTENSIVE PENTRU CLĂDIRI SMART Dragos Mihail PREDA¹*, Adrian PANDELE¹, Bogdan Ovidiu DURAN¹, Elena VILCU²*, Andrei VULPE²*, Gheorghe VOICU³ ¹ ROLIX IMPEX SERIES SRL / Romania; ² ARROW SRL / Romania; ³ NUST POLITEHNICA Bucharest / Romania <i>*Tel: (+40)749 998 642; *Email: dragospreda@yahoo.com</i>	10 ⁴⁵ -11 ⁰⁰	COMPARATIVE ECOLOGICAL ANALYSIS OF MAIZE AND SORGHUM CROPS IN THE CONTEXT OF CLIMATE CHANGE IN ROMANIA / ANALIZA ECOLOGICĂ COMPARATIVĂ A CULTURILOR DE PORUMB ȘI SORG ÎN CONTEXTUL SCHIMBĂRILOR CLIMATICE ÎN ROMÂNIA Traian MANOLE, Viorel FĂTU*, Ana Cristina FĂTU, Roxana ZAHARIA, Marin LIXANDRU Research and Development Institute for Plant Protection / Romania <i>*Tel: +40212693231; Email: viorel.fatu@icdpp.ro</i>	10 ⁴⁵ -11 ⁰⁰
11⁰⁰-11³⁰: Coffee break			
STUDIES ON IMPROVING SOWING PRECISION ON A NATIONAL AND INTERNATIONAL LEVEL / STUDII PRIVIND ÎMBUNĂȚĂȚIREA PRECIZIEI DE SEMĂNAT PE PLAN NAȚIONAL ȘI INTERNAȚIONAL Denisa CAIMAC GHITĂ, Ion ȘĂRĂCIN*, Mihnea GLODEANUZĂ, Ioan Alexandru ȘĂRĂCIN, Sorin BORUZ University of Craiova, Dolj County / Romania <i>*Tel. 0744 162 539; *E-mail ion_saracin@yahoo.com</i>	11 ³⁰ -11 ⁴⁰	PROPERTIES OF BIOCOMPOSITE FILMS WITH THE ADDITION OF SELECTED PLANT RAW MATERIALS / WŁAŚCIWOŚCI FOLII BIODOPROSYTOWYCH Z DODATKIEM WYBRANYCH SUROWCÓW ROŚLINNYCH Tomasz ŻELAZIŃSKI*, Adam EKIELSKI, Maciej JOŃSKI Department of Production Engineering, Institute of Mechanical Engineering, Warsaw University of Life Sciences (SGGW) / Poland <i>*E-mail: tomasz_zelazinski@sggw.edu.pl</i>	11 ³⁰ -11 ⁴⁵

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

SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION		SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION	
Chairman: COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana *BSE: PhD students School “Biotechnical Systems Engineering”		Chairman: COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana *BSE: PhD students School “Biotechnical Systems Engineering”	
STONE PAPER AS A SUSTAINABLE ALTERNATIVE: APPLICATIONS, CHALLENGES AND OPPORTUNITIES / STONE PAPER CA ALTERNATIVĂ SUSTENABILĂ: APLICAȚII, PROVOCĂRI ȘI OPORTUNITĂȚI Andreea-Nicoleta BURCEA ¹ , Daniel ȘIPU ² , Cristina-Ileana COVALIU-MIERLĂ ³ ¹ Biotechnical System Engineering Doctoral School, National University of Science and Technology Politehnica Bucharest / Romania; ² Adam Stone SA / Romania; ³ Faculty of Biotechnical Systems Engineering, National University of Science and Technology Politehnica Bucharest / Romania *E-mail: cristina_covaliu@yahoo.com ; *Tel: 40722791791	9 ³⁰ -9 ⁴⁰	TYPES AND CHARACTERISTICS OF SOIL SAMPLING TERMINALS / TIPURI ȘI CARACTERISTICI ALE TERMINALELOR DE PRELEVARE A PROBELOR DE SOL Alexandru IONESCU ^{*1} , Mario CRISTEA ¹ , Valentin-Nicolae VLĂDUȚ ¹ , Costin MIRCEA ¹ , Gheorghe STROESCU ¹ , Iulian DUMITRU ¹ , Nicoleta VANGHELE ¹ , Dragos ANGHELACHE ¹ , Ana-Maria TABARASU ¹ , Robert BLEJAN ² ¹ INMA Bucharest / Romania; ² National Institute of Research or Hydraulics And Pneumatics, Bucharest / Romania *Tel: (+40) 766 701 361; *E-mail: alex.alex12alx@gmail.com	11 ³⁰ -11 ⁴⁰
ULTRASONIC ASSESSMENT OF MECHANICAL PROPERTIES IN ISOTROPIC AND ORTHOTROPIC MATERIALS / EVALUAREA ULTRASONICĂ A PROPRIETĂȚILOR MECANICE ALE MATERIALELOR IZOTROPE ȘI ORTOTROPE Andreea Denisa GRIGUȚA ^{*1} , Mihai Valentin PREDOL ² , Cristian-Cătălin PETRE ² , Laura Mariana BARBU ¹ , Gheorghe FLOROIU ¹ ¹ Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania; ² Department of Strength of Materials, National University of Science and Technology POLITEHNICA Bucharest / Romania *E-mail: andreea.griguta@upb.ro	9 ⁴⁰ -9 ⁵⁰	KINEMATIC ANALYSIS OF A DISINFECTION SPIDER ROBOT / ANALIZA CINEMATICĂ A UNUI ROBOT PĂIANJEN DE DEZINFECȚIE Sorin NEGROIU ^{*1} , Andrei CRAIFALEANU ¹ , Florinel LUPU ¹ ^{*1} Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania. ^{*1} Tel: 0729 076 640; E-mail: sorin.negroi@stud.mec.upb.ro	11 ⁴⁰ -11 ⁵⁰
SIMPLIFIED MODELING OF ACOUSTIC ATTENUATION FOR SOUND BARRIERS / MODELAREA SIMPLIFICATĂ A ATENUĂRII ACUSTICE PENTRU BARIERE SONICE Ana-Maria GROSU ^{*1} , Ovidiu VASILE ^{*2} ¹ National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering / Romania; ² National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, Department of Mechanics / Romania *Email: ana_maria.grosu@stud.isb.upb.ro ; ovidiu_vasile2002@yahoo.co.uk	9 ⁵⁰ -10 ⁰⁰	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 Adrian PANDELE ^{*3, 1} , Bogdan Ovidiu DURAN ^{2, 3} , Dragos Mihail PREDA ^{2, 3} , Robert BILA ² , Elena VILCU ^{*1} , Andrei VULPE ^{*1} , Gheorghe VOICU ³ ¹ ARROW SRL / Romania; ² ROLIX IMPEX SERIES SRL, Bucharest / Romania; ³ National University of Science and Technology Politehnica Bucharest / Romania *E-mail: adrian.pandele@arrows.ro ; *Tel: (+40)722 655 056	11 ⁵⁰ -12 ⁰⁰
EXTRACTION AND VALORIZATION OF ACTIVE PRINCIPLES FROM MEDICINAL PLANTS – A PERSPECTIVE FOR THE SUSTAINABLE DEVELOPMENT OF FARMS IN ROMANIA / EXTRACȚIA ȘI VALORIFICAREA PRINCIPILOR ACTIVE DIN PLANTE MEDICINALE – O PERSPECTIVĂ PENTRU DEZVOLTAREA SUSTENABILĂ A FERMELOR DIN ROMÂNIA Ana-Maria TĂBĂRAȘU ^{1,2} , Nicolae-Valentin VLĂDUȚ ¹ , Iuliana GĂGEANU ¹ , Florin NENCIU ¹ , Melania-Elena CISMARU ^{*1} , Teofil-Alin ONCESCU ¹ , Gabriel-Valentin GHEORGHE ¹ , Alin HARABAGIU ¹ , Dragoș-Nicolae ANGHELACHE ^{*1} , Dan CUJBESCU ¹ , Iulian VOICEA ¹ ¹ INMA Bucharest / Romania; ² National University of Science and Technology POLITEHNICA Bucharest / Romania Email: celenamania2@gmail.com ; dragos1989anghelache@gmail.com	10 ⁰⁰ -10 ¹⁰	STUDY OF JERK FOR A ROBOTIC ARM / STUDIUL DERIVATEI ACCELERAȚIEI PENTRU UN BRAȚ ROBOTIC Florinel LUPU*, Andrei CRAIFALEANU, Sorin NEGROIU National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering / Romania *E-mail: autokingdomlupu@gmail.com	12 ⁰⁰ -12 ¹⁰
METHODS OF OBTAINING BIOCHAR / METODE DE OBTINERE A BIOCHARULUI Nicoleta-Alexandra VANGHELE ^{*1, 2} ; Nicolae-Valentin VLĂDUȚ ¹ , Andreea MATACHE ¹ , Augustina PRUTEANU ¹ ; Florin NENCIU ¹ , Laurențiu Vlăduțoiu ¹ , Ana-Maria TABARASU ¹ , Dragos ANGHELACHE ¹ , Alexandru IONESCU ¹ , Elena-Melania CISMARU ¹ , Cristian RADU ³ ¹ INMA Bucharest / Romania; ² National University of Science and Technology Polytechnic Bucharest / Romania; ³ University of Craiova / Romania *Tel: (+40) 21 693 457; *E-mail: vanghelelrc@gmail.com	10 ¹⁰ -10 ²⁰	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 Bogdan Ovidiu DURAN ¹ , Dragos Mihail PREDA ¹ , Adrian PANDELE ² , Elena VILCU ² , Andrei VULPE ² , Robert BILA ¹ , Gheorghe VOICU ³ ¹ ROLIX IMPEX SERIES SRL, Bucharest / Romania; ² ARROW SRL / Romania; ³ National University of Science and Technology Politehnica Bucharest / Romania *E-mail: bogdan.o.duran@gmail.com ; *Tel: (+40)749 995 555	12 ¹⁰ -12 ²⁰
INFLUENCE OF PLANT PARTICLE SIZE ON THE EFFICIENCY OF THE COMPOSTING PROCESS: A REVIEW / INFLUENȚA DIMENSIUNII PARTICULELOR VEGETALE ASUPRA EFICIENȚEI PROCESULUI DE COMPOSTARE: REVIEW Elena-Melania CISMARU ^{*2} , Florin NENCIU ¹ , Cătălin PERSU ¹ , Dan CUJBESCU ¹ , Radu CIUPERCĂ ¹ , Gabriel-Valentin GHEORGHE ¹ , Ana ZAICA ¹ , Alin-Nicolae HARABAGIU ¹ , Stefano MANTOVANI ¹ , Elena-Mădălina ȘTEFAN ^{*2} ¹ INMA Bucharest / Romania; ² National University of Science and Technology Politehnica Bucharest / Romania *E-mail: celenamania2@gmail.com ; *Tel: 0726 043 472, *E-mail: stefanelenamadalina@gmail.com	10 ²⁰ -10 ³⁰	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 Alina-Daiana IONESCU*, Gheorghe VOICU, Mihaela BEGEA, Gabriel-Alexandru CONSTANTIN, Adrian IOSIF, George IPATE, Elena-Mădălina ȘTEFAN, Raluca-Adriana ZOTA, Elena-Valeria VLĂDUȚ National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania *E-mail: alina.ionescu1007@upb.ro	12 ²⁰ -12 ³⁰
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 Andrei-Florin HRISTACHE ^{*1} , Filip ILIE ² ¹ National University of Science and Technology POLITEHNICA Bucharest / Romania Email: hr.andrei@yahoo.com	10 ³⁰ -10 ⁴⁰	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 Laura-Mariana BARBU ^{*1} , Gheorghe FLOROIU ¹ , Mihai Valentin PREDOL ¹ , Aurel ALECU ¹ , Mihail STANICA ² ¹ Department of Mechanics, National University of Science and Technology POLITEHNICA Bucharest / Romania ² National Institute for Research & Development of Turbomachinery – COMOTI / Romania *E-mail: laura.barbu98@gmail.com	12 ³⁰ -12 ⁴⁰

SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION		SECTION 4 – YOUNG PEOPLE (PhD students School “BSE”) - ORAL PRESENTATION	
Chairman: COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana *BSE: PhD students School “Biotechnical Systems Engineering”		Chairman: COVALIU-MIERLĂ Cristina / GĂGEANU Iuliana *BSE: PhD students School “Biotechnical Systems Engineering”	
SUSTAINABLE SOUND ABSORBING COMPOSITE STRUCTURES BASED ON ECOFRIENDLY MATERIALS FOR ROAD NOISE REDUCTION / STRUCTURI COMPOZITE FONOABSORBANTE SUSTENABILE PE BAZĂ DE MATERIALE ECOLOGICE PENTRU REDUCEREA ZGOMOTULUI RUTIER Jazmina SCORTEA^{*1)}, Sorina ZLATOIANU^{*1)}, Ovidiu VASILE^{*2)} ¹⁾ National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, / Romania; ²⁾ National University of Science and Technology POLITEHNICA Bucharest, Faculty of Biotechnical Systems Engineering, Department of Mechanics “Radu P. Voinea”, Bucharest / Romania *E-mail: jazmina.scortea@icecon.ro, sorina.zlatoianu@icecon.ro; ovidiu_vasile2002@yahoo.co.uk	10 ⁰⁰ -10 ³⁰	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 Daniel-Mirel DUMITRESCU^{*1)}, Gheorghe VOICU²⁾, Nicolae ORĂȘANU²⁾, Liliana-Caliopi ISCRU²⁾, Gabriel-Alexandru CONSTANTIN²⁾, Adrian IOSIF²⁾ ¹⁾ Pietrosani Middle School, Teleorman County / Romania; ²⁾ National University of Science and Technology POLITEHNICA Bucharest / Romania *E-mail: dumitrescudanielmirel@gmail.com	12 ⁰⁰ -12 ³⁰
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 Raluca-Adriana ZOTA¹⁾, Sorin-Ștefan BIRIȘ¹⁾, Neluș-Evelin GHEORGHIȚĂ^{*1)}, Alina-Daiana IONESCU¹⁾, Costin MIRCEA²⁾ ¹⁾ Faculty of Biotechnical Systems Engineering, Politehnica Bucharest / Romania; ²⁾ INMA Bucharest / Romania *Tel: 0726 453 269; *E-mail: evelin_gheorghita@yahoo.com	10 ³⁰ -11 ⁰⁰	THE IMPORTANCE OF PNEUMATIC DEDUSTING SYSTEMS IN CEREAL MILLS / IMPORTANȚA SISTEMELOR PNEUMATICE DE DESPRĂFUIRE ÎN MORILE DE CEREALE Liliana-Caliopi ISCRU, Daniel-Mirel DUMITRESCU, Gheorghe VOICU National University of Science and Technology POLITEHNICA Bucharest / Romania *E-mail: dumitresculilianacaliopi@gmail.com; * Tel: 004-0765-914 811	12 ³⁰ -13 ⁰⁰
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 Elena – Valeria VLĂDUȚ^{*1)}, Sorin - Ștefan BIRIȘ¹⁾, Mariana FERDEȘ¹⁾, Adrian IOSIF¹⁾, Alina – Daiana IONESCU¹⁾, Raluca Adriana ZOTA¹⁾ ¹⁾ National University of Science and Technology Politehnica Bucharest / Romania Tel: +40739960285; E-mail: elena.vladut@upb.ro	11 ⁰⁰ -11 ¹⁰	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 Elena-Valeria VLADUT^{*1)}, Sorin-Ștefan BIRIȘ¹⁾, Mirela Nicoleta DINCĂ¹⁾, Alina-Daiana IONESCU¹⁾, Raluca Adriana ZOTA¹⁾, Valentin VLADUT²⁾ ¹⁾ National University of Science and Technology POLITEHNICA Bucharest / Romania; ²⁾INMA Bucharest / Romania *Tel: +40739960285; E-mail: elena.vladut@upb.ro	13 ⁰⁰ -13 ¹⁰
PM10 AND PM2.5 PARTICLE POLLUTION IN TARGOVIȘTE CITY, DÂMBOVIȚA COUNTY / POLUAREA CU PARTICULE PM10 ȘI PM2.5 ÎN ORAȘUL TÂRGOVIȘTE, JUDEȚUL DÂMBOVIȚA Florina Roxana DUMITRU^{*1)}, Lucica BARBES¹⁾, Constantin DUNEA¹⁾ National University of Science and Technology POLITEHNICA Bucharest / Romania *Email: roxana_danis@yahoo.com	11 ¹⁰ -11 ²⁰	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 Cristina-Ileana COVALIU-MIERLĂ^{*1)}, Maria RÂPĂ¹⁾, Sorin IONESCU¹⁾ ¹⁾ National University of Science and Technology Politehnica Bucharest / Romania *E-mail: cristina_covaliu@yahoo.com	13 ¹⁰ -13 ²⁰
11 ⁰⁰ -11 ³⁰ : Coffee break		13 ⁰⁰ -14 ³⁰ : Lunch	

SECTION 1 - POWER AND MACHINERY - POSTER PRESENTATION		SECTION 2 - ECOLOGY & ENVIRONMENT - POSTER PRESENTATION	
Chairman: CONSTANTIN Gabriel / BUNGESCU Sorin Tiberiu / VOICEA Iulian		Chairman: RUSĂNESCU Carmen / NENCIU Florin / POPA Diana	
ROBOTIC SYSTEMS FOR HARVESTING THE INFLORESCENCES OF MEDICINAL PLANT SPECIES - A REVIEW / SISTEME ROBOTIZATE DESTINATE RECOLTĂRII INFLORESCENȚELOR UNOR SPECII DE PLANTE MEDICINALE - A REVIEW Adriana MUSCALU¹⁾, Cătălina TUDORA¹⁾, Dragoș ANGHELACHE¹⁾, Dorin CÎRSTE¹⁾, Margareta NAIE²⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Agricultural Research and Development Station Secuieni / Romania *Tel: 0726 234 242; *E-mail: amuscalis@yahoo	09 ³⁰ -09 ³⁵	SUNFLOWER CROP ENTOMOFAUNA DEVELOPMENT IN CENTRAL MOLDOVA CONDITION (ROMANIA) / EVOLUȚIA ENTOMOFAUNEI DĂUNĂTOARE DIN CULTURILE DE FLOAREA - SOARELUI ÎN CONDIȚIILE DIN CENTRUL MOLDOVEI Roxana - Georgiana AMARGHIOALE¹⁾, Elena TROTUȘ¹⁾, Paula - Lucelia PINTILIE¹⁾, Andreea ENEA¹⁾, Alexandra LEONTE¹⁾, Roxana ZAHARIA²⁾, Carmen MINCEA²⁾, Cătălina - Adina DRUȚU³⁾, Raluca - Sinziana ZAHARIA⁴⁾, Alexandru CIOACLA⁵⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ Research Development Institute for Plant Protection - ICDPP Bucharest / Romania; ³⁾ Iasi University of Life Sciences / Romania; ⁴⁾ Ion Ionescu de la Brad Tehnological High School – Horia / Romania; ⁵⁾ INMA Bucharest / Romania *Email: paulapintiliescda@gmail.com	09 ³⁰ -09 ³⁵
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 Remus Marius OPRESCU¹⁾, Dan CUJBESCU¹⁾, Iulian VOICEA¹⁾, Cătălin PERSU¹⁾, Radu RĂDOI²⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ INOE 2000 - IHP / Romania *E-mail: oprescu.remusmarius@gmail.com; *Tel: 0766 580 791	09 ³⁵ -09 ⁴⁰	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 Alexandra LEONTE¹⁾, George TOADER²⁾, Andreea - Sabina PINTILIE¹⁾, Simona-Florina ISTICIOAIA¹⁾, Lorena-Diana POPA¹⁾, Andreea MATACHE³⁾, Oana MÎRZAN¹⁾, Margareta NAIE¹⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ Saaten Union, Bucharest / Romania; ³⁾ INMA Bucharest / Romania *E-mail: andra29nt@yahoo.com	09 ³⁵ -09 ⁴⁰
PERFORMANCE EVALUATION OF THE EXPERIMENTAL PLANER-GRADER MODEL FOR PERMANENT GRASSLAND MAINTENANCE / EVALUAREA PERFORMANȚELOR MODELULUI EXPERIMENTAL DE RINDEA-GREDER PENTRU ÎNTREȚINEREA PAJȘTILOR PERMANENTE Eugen MARIN¹⁾, Vasile MOCANU²⁾, Tudor-Adrian ENE²⁾, Dragoș MANEA¹⁾, Mihai-Gabriel MATACHE¹⁾, Laurențiu-Constantin VLĂDUȚOIU¹⁾, Alexandru IONESCU¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Institute of Research - Development for Grasslands - ICDP Brasov / Romania *E-mail: marineu61@yahoo.com; *Tel: 0758 437 214	09 ⁴⁰ -09 ⁴⁵	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 Margareta NAIE¹⁾, Oana MÎRZAN¹⁾, Alexandra LEONTE¹⁾, Mihai STAVARACHE²⁾, Adriana MUSCALU³⁾, Diana BATÎR RUSU³⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ Research and Development Station for Grassland Vaslui / Romania; ³⁾ INMA Bucharest / Romania; ⁴⁾ Vegetable Research and Development Station Suceava / Romania *E-mail: naie.marieta@yahoo.com	09 ⁴⁰ -09 ⁴⁵
THEORETICAL AND APPLICATIVE CONSIDERATIONS ON HYDROPONIC PLANT GROWTH / CONSIDERAȚII TEORETICE ȘI APLICATIVE PRIVIND CREȘTEREA HIDROPONICĂ A PLANTELOR Iulian VOICEA¹⁾, Florin NENCIU¹⁾, Catalin PERSU¹⁾, Dan CUJBESCU¹⁾, Remus OPRESCU¹⁾, Iuliana GAGEANU¹⁾, Roxana ZAHARIA²⁾, Viorel FATU²⁾, Angela MOHORA³⁾, Vlad-Nicolae ARSENOAIA⁴⁾, Diana STEGARUS (POPESCU)⁵⁾, Mariana Cristina ARCADE⁶⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Research and Development Institute for Plant Protection - ICDPP Bucharest / Romania; ³⁾ HORTING Bucharest / Romania; ⁴⁾ Faculty of Agriculture, Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine / Romania; ⁵⁾ National Research & Development Institute for Cryogenics and Isotopic Technologies - ICSI Ramnicu Valcea / Romania; ⁶⁾ Research and Development Station for Fisheries Nucet / Romania *Tel: 0752 161 780; *E-mail: voicea_iulian@yahoo.com	09 ⁴⁵ -09 ⁵⁰	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 Simona - Florina ISTICIOAIA¹⁾, Alexandra LEONTE¹⁾, Andreea - Sabina PINTILIE¹⁾, Andreea ENEA¹⁾, Lorena-Diana POPA¹⁾, Raluca - Dana REZI²⁾, Adrian NEGREA²⁾, Danela MURARIU³⁾, Dumitru - Dorel BLAGA³⁾, Gheorghe MATEI⁴⁾, Augustina PRUTEANU⁵⁾, Raluca - Sinziana ZAHARIA⁶⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ Agricultural Research and Development Station Turda / Romania; ³⁾ Vegetable Research and Development Station Suceava / Romania; ⁴⁾ University of Craiova / Romania; ⁵⁾ INMA Bucharest / Romania; ⁶⁾ Iasi University of Life Sciences / Romania; *E-mail: raluca.rezi@scdaturda.ro	09 ⁴⁵ -09 ⁵⁰
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 Alin-Nicolae HARABAGIU¹⁾, Vasilica ȘTEFAN¹⁾, Lucreția POPA¹⁾, Dragoș-Nicolae DUMITRU¹⁾, Elena-Melania CISMARU¹⁾, Dragoș MANEA¹⁾, Polifron CHIRITA²⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ INOE IHP / Romania * Tel: 0773 867 656; *E-mail: alinhara04@gmail.com	09 ⁵⁰ -09 ⁵⁵	STUDY ON THE PRODUCTIVITY AND ECONOMIC EFFICIENCY OF SPRING WHEAT UNDER THE PEDOCLIMATIC CONDITIONS OF CENTRAL MOLDOVA / STUDIU PRIVIND PRODUCTIVITATEA ȘI EFICIENȚA ECONOMICĂ A GRÂULUI DE PRIMĂVARĂ ÎN CONDIȚIILE PEDOCLIMATICE ALE CENTRULUI MOLDOVEI Andreea - Sabina PINTILIE¹⁾, Simona - Florina ISTICIOAIA¹⁾, Alexandra LEONTE¹⁾, Lorena - Diana POPA¹⁾, Andreea ENEA¹⁾, Cosmin MURARU¹⁾, Paula - Lucelia PINTILIE¹⁾, Gheorghe MATEI²⁾, Rozalia KADAR³⁾, Ionuț RACZ³⁾, Oana CRISTEA⁴⁾, Cătălina - Adina DRUȚU⁵⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ University of Craiova / Romania; ³⁾ Agricultural Research and Development Station Turda / Romania; ⁴⁾ INMA Bucharest / Romania; ⁵⁾ Ion Ionescu de la Brad Tehnological High School – Horia / Romania; *E-mail: andreea.pintilie@scda.ro	09 ⁵⁰ -09 ⁵⁵
DIGITAL AGRICULTURE - USE OF ARTIFICIAL INTELLIGENCE IN AGRICULTURAL PRODUCTION / AGRICULTURA DIGITALĂ - UTILIZAREA INTELIGENȚEI ARTIFICIALE ÎN PRODUCȚIA AGRICOLĂ Vlad-Nicolae ARSENOAIA¹⁾, Iulian VOICEA²⁾, Florin NENCIU²⁾, Catalin PERSU²⁾, Dan CUJBESCU²⁾, Viorel FATU³⁾ ¹⁾ Faculty of Agriculture, Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine, / Romania; ²⁾ INMA Bucharest / Romania; ³⁾ Research and Development Institute for Plant Protection - ICDPP Bucharest / Romania. *Tel: 0752 161 780; *E-mail: voicea_iulian@yahoo.com	09 ⁵⁵ -10 ⁰⁰	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 Simona - Florina ISTICIOAIA¹⁾, Alexandra LEONTE¹⁾, Andreea - Sabina PINTILIE¹⁾, Lorena - Diana POPA¹⁾, Andreea ENEA¹⁾, Cosmin MURARU¹⁾, Doru STANCIU¹⁾, Gheorghe MATEI²⁾, Liliana VASILESCU³⁾, Eugen - Iulian PETCU³⁾, Mihaela NITU⁴⁾, Ramona – Georgeta OLARU⁵⁾ ¹⁾ Agricultural Research and Development Station Secuieni / Romania; ²⁾ University of Craiova / Romania; ³⁾ National Agricultural Research and Development Institute Fundulea / Romania; ⁴⁾ INMA Bucharest / Romania; ⁵⁾ Făget Tehnological High School-Bacău / Romania *E-mail: cmuraru2001@gmail.com	09 ⁵⁵ -10 ⁰⁰

IMPLEMENTATION OF A MICROHYDROPOWER SYSTEM FOR SUSTAINABLE AERATION OF FISH PONDS / REALIZAREA UNUI SISTEM MICROHIDROENERGETIC PENTRU AERAREA SUSTENABILĂ A BAZINELOR PISCICOLE Marinela MATEESCU¹⁾, Dragoș MANEA¹⁾, Eugen MARIN¹⁾, Dragoș- Nicolae DUMITRU¹⁾, Elena-Melania CISMARU¹⁾, Ioan PAVEL²⁾ ¹⁾INMA Bucharest / Romania; ²⁾INOE IHP / Romania *Tel: 0758 437 214; *E-mail: marineu61@yahoo.com	10 ⁰⁰ -10 ⁰⁵	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 Nicoleta UNGUREANU¹⁾, Nicolae-Valentin VLĂDUȚ²⁾, Sorin-Ștefan BIRIȘ¹⁾, Mariana IONESCU¹⁾, Neluș-Evelin GHEORGHITĂ¹⁾, Valeria-Elena VLĂDUȚ¹⁾, Oana-Elena MILEA^{1, 2)}, Ștefan DUMITRU^{1, 2)} ¹⁾National University of Science and Technology Politehnica Bucharest / Romania; ²⁾ INMA Bucharest / Romania *E-mail: valentin_vladut@yahoo.com	10 ⁰⁰ -10 ⁰⁵
CURRENT TRENDS IN DIGITAL FARMING TECHNOLOGY / TENDINȚE ACTUALE ÎN TEHNOLOGIA AGRICOLĂ DIGITALĂ Carmen BRACACESCU¹⁾, Oana CRISTEA¹⁾, Imre KISS²⁾ ¹⁾INMA Bucharest / Romania; ²⁾University POLITEHNICA Timișoara / Romania *E-mail: carmenbraca@yahoo.com; *Tel: 0770 513 926	10 ⁰⁵ -10 ¹⁰	DETERMINANT FACTORS FOR THE SUSTAINABILITY OF VEGETABLE CROPS - A REVIEW / FACTORI DETERMINANȚI AI SUSTENABILITĂȚII CULTURILOR LEGUMICOLE - REVIEW Gabriel-Ciprian TELIBAN¹⁾, Doru Relu ANTON¹⁾, Vasile STOLERU¹⁾, Alexandru COJOCARU¹⁾, Anamaria CIUBOTĂRIȚA¹⁾, Lorena-Diana POPA²⁾, Nicolae-Valentin VLĂDUȚ³⁾, Neculai MUNTEANU¹⁾ ¹⁾ "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania; ²⁾ Agricultural Research and Development Station Secuieni / Romania; ³⁾ INMA Bucharest / Romania *E-mail: ing.anton.doru@yahoo.com; neculai.munteanu@iuls.ro	10 ⁰⁵ -10 ¹⁰
APPLICATION OF UAV MULTISPECTRAL IMAGERY FOR VINEYARD MANAGEMENT THROUGH VEGETATION STATUS ASSESSMENT / APLICAREA IMAGINILOR UAV MULTISPECTRALE PENTRU MANAGEMENTUL VITICOL PRIN EVALUAREA STĂRII DE VEGETAȚIE Dan CUJBESCU, Cătălin PERSU*, Mihai MATACHE, Iuliana GĂGEANU, Iulian VOICEA INMA Bucharest / Romania *E-mail: persucatalin@yahoo.com, Tel: 0784636431	10 ¹⁰ -10 ¹⁵	THE IMPACT OF DISRUPTIVE FACTORS ON THE SUSTAINABILITY OF VEGETABLE PRODUCTION IN THE TECUCI AREA / IMPACTUL FACTORILOR PERTURBATORI ASUPRA SUSTENABILITĂȚII LEGUMICULTURII ÎN ZONA TECUCI Doru Relu ANTON¹⁾, Vasile STOLERU¹⁾, Alexandru COJOCARU¹⁾, Anamaria CIUBOTĂRIȚA¹⁾, Maricel VITĂNESCU¹⁾, Lorena-Diana POPA²⁾, Ana-Maria TĂBĂRAȘU³⁾, Teodor STAN¹⁾, Gabriel-Ciprian TELIBAN¹⁾, Neculai MUNTEANU¹⁾ ¹⁾ "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania; ²⁾ Agricultural Research and Development Station Secuieni / Romania; ³⁾ INMA Bucharest / Romania *Email: gabriel.teliban@iuls.ro; neculai.munteanu@iuls.ro	10 ¹⁰ -10 ¹⁵
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 Dragoș MANEA¹⁾, Eugen MARIN¹⁾, Daniel LATEȘ²⁾, Paul TRIPON²⁾, Laurențiu VLĂDUȚOIU¹⁾ ¹⁾INMA Bucharest / Romania; ²⁾ IRUM SA Reghin / Romania *Tel: 0724 350 567; *E-mail: manea_dragos_05@yahoo.com	10 ¹⁵ -10 ²⁰	CAPITALIZING ON CLIMATE-IMPACTED AGRICULTURAL AREAS WITH CHAENOMELES FRUIT SHRUBS / VALORIFICAREA ZONELOR AGRICOLE AFECTATE DE SCHIMBARILE CLIMATICE CU ARBUȘTI FRUCTIFERI Chaenomeles Tamara Elena MIHOCIU¹⁾, Denisa Eglantina DUȚĂ¹⁾, Luminița CATANĂ¹⁾, Gabriela Daniela CRIVEANU-STAMATIE¹⁾, Monica CATANĂ¹⁾, Iulia GRIGORE²⁾ ¹⁾National Research and Development Institute for Food Bioresources, IBA Bucharest / Romania; ²⁾INMA Bucharest / Romania *Email: denisa.duta@bioresurse.ro	10 ¹⁵ -10 ²⁰
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 Radu CIUPERCĂ¹⁾, Ana ZAICA¹⁾, Lucreția POPA¹⁾, Gabriel-Valentin GHEORGHE¹⁾, Vasilica ȘTEFAN¹⁾, Alexandra Vișan¹⁾, Elena-Melania CISMARU¹⁾, Alin HARABAGIU¹⁾, Dragoș-Nicolae DUMITRU¹⁾, Teodor Costinel POPESCU²⁾ ¹⁾INMA Bucharest / Romania; ²⁾INOE 2000 - IHP / Romania *Tel: 0726 719 726; *E-mail: ciupercaradu@yahoo.com	10 ²⁰ -10 ²⁵	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 Nicoleta UNGUREANU¹⁾, Nicolae-Valentin VLĂDUȚ²⁾, Sorin-Ștefan BIRIȘ¹⁾, Mariana IONESCU¹⁾, Neluș-Evelin GHEORGHITĂ¹⁾, Mirela-Nicoleta DINCĂ¹⁾ ¹⁾National University of Science and Technology Politehnica Bucharest / Romania; ²⁾INMA Bucharest / Romania *E-mail: valentin_vladut@yahoo.com	10 ²⁰ -10 ²⁵
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 Ana ZAICA¹⁾, Radu CIUPERCĂ¹⁾, Lucreția POPA¹⁾, Gabriel-Valentin GHEORGHE¹⁾, Vasilica ȘTEFAN¹⁾, Alexandra Vișan¹⁾, Elena-Melania CISMARU¹⁾, Alin HARABAGIU¹⁾, Dragoș-Nicolae DUMITRU¹⁾, Gheorghe ȘOVĂIALĂ²⁾ INMA Bucharest / Romania *Tel: 0728 977 317; *E-mail: zaica_ana@yahoo.com	10 ²⁵ -10 ³⁰	ANALYSIS OF PRODUCTS OBTAINED BY PYROLYSIS-REVIEW / ANALIZA PRODUȘILOR OBȚINUȚI PRIN PIROLIZĂ-REVIEW Vasilica ȘTEFAN*, Alin HARABAGIU, Radu CIUPERCĂ, Lucreția POPA, Ana ZAICA, Alexandra VIȘAN, Stefano MANTOVANI, Nino MARICA²⁾ ¹⁾INMA Bucharest / Romania; ²⁾Research and Development Station for Fisheries Nucet / Romania *Tel: 0722 245 443; *E-mail: valle_vali@yahoo.com	10 ²⁵ -10 ³⁰
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 PARAMETRI METEO Cătălin PERSU¹⁾, Dan CUJBESCU¹⁾, Robert CRISTEA¹⁾, Iuliana GĂGEANU¹⁾, Alexandru IONESCU¹⁾, Teofil-Alin ONCESCU¹⁾, Iulian VOICEA¹⁾, Remus OPRESCU¹⁾, Mihai-Gabriel MATACHE¹⁾, Paula-Lucelia PINTILIE²⁾ ¹⁾INMA Bucharest / Romania; ²⁾ARDS Secuieni / Romania *Tel: 0784 636 431; *E-mail: persucatalin@yahoo.com	10 ³⁰ -10 ³⁵	IMPACT OF CERTAIN AGRICULTURAL PRACTICES ON SEED AND BIOMASS YIELD IN MONOECIOUS 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 Lorena-Diana POPA¹⁾, Simona-Florina ISTICIOAIA¹⁾, Gheorghe MATEI²⁾, Alexandra LEONTE¹⁾, Iuliana GĂGEANU³⁾, Nicolae-Valentin VLĂDUȚ³⁾, Anca PANDA⁴⁾, Marian BURDUCEA⁵⁾, Ioana BUTERCHI⁶⁾, Gabriel-Ciprian TELIBAN⁶⁾ ¹⁾ Agricultural Research and Development Station Secuieni - SCDA Secuieni / Romania; ²⁾ University of Craiova / Romania; ³⁾INMA Bucharest / Romania; ⁴⁾ Agricultural Research and Development Station Lovrin - SCDA Lovrin / Romania; ⁵⁾ "Alexandru Ioan Cuza" University, Iasi / Romania; ⁶⁾ "Ion Ionescu de la Brad" Iasi University of Life Sciences, Iasi / Romania *E-mail: dy.hemp420@gmail.com	10 ³⁰ -10 ³⁵

AUTOMATED PHEROMONE TRAP WITH AI RECOGNITION FOR APPLE ORCHARD PESTS: SYSTEM DESIGN, VALIDATION, AND CLIMATIC DATA INTEGRATION / CAPCANĂ AUTOMATIZATĂ CU FEROMONI ȘI RECUNOAȘTERE PRIN INTELIGENȚĂ ARTIFICIALĂ PENTRU DĂUNĂTORII DIN LIVEZILE DE MĂR: PROIECTARE, VALIDARE ȘI INTEGRAREA DATELOR CLIMATICE Cătălin PERSU¹⁾, Dan CUJBESCU¹⁾, Robert CRISTEA¹⁾, Iuliana GĂGEANU¹⁾, Alexandru IONESCU¹⁾, Teofil-Alin ONCESCU¹⁾, Iulian VOICEA¹⁾, Remus OPRESCU¹⁾, Mihai-Gabriel MATACHE¹⁾, Robert BLEJAN²⁾ ¹⁾INMA Bucharest / Romania; INOE IHP / Romania *Tel: 0784 636 431; *E-mail: persucatalin@yahoo.com	10 ⁴⁰ -10 ⁴⁵	GIS TECHNOLOGY AND ITS APPLICATIONS IN ENVIRONMENTAL ENGINEERING / TEHNOLOGIA GIS ȘI APLICAȚIILE ACESTEIA ÎN INGINERIA MEDIULUI Bianca-Ștefania ZĂBAVĂ¹⁾, Gheorghe VOICU¹⁾, Mirela - Nicoleta DINCĂ¹⁾, Gigel PARASCHIV¹⁾, Mariana IONESCU¹⁾, Georgiana MOICEANU²⁾, Mariana FERDEȘ¹⁾ ¹⁾ Department of Biotechnical Systems, National University of Science and Technology Politehnica of Bucharest / Romania; ²⁾ Department of Management and Entrepreneurship, National University of Science and Technology Politehnica of Bucharest / Romania *E-mail: bianca.dragoiu@yahoo.com	10 ⁴⁰ -10 ⁴⁵
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 Gabriel-Valentin GHEORGHE¹⁾, Alin-Nicolae HARABAGIU¹⁾, Stefano MANTOVANI¹⁾, Dragoș-Nicolae DUMITRU¹⁾, Elena-Melania CISMARU¹⁾, Carmen BĂLȚATU¹⁾, Mariana MUNTEANU²⁾ ¹⁾INMA Bucharest / Romania; ²⁾National University of Science and Technology Politehnica Bucharest, Faculty of Biotechnical Systems Engineering / Romania *Tel: 0773 867 656; *E-mail: gabrielvalentinghe@yahoo.com	10 ⁴⁵ -10 ⁵⁰	ASPECTS REGARDING THE REMEDIATION OF SOILS POLLUTED WITH POLYCYCLIC AROMATIC HYDROCARBONS THROUGH OZONATION / ASPECTE PRIVIND REMEDIEREA SOLURILOR POLUATE CU HIDROCARBURI AROMATICE POLICICLICE PRIN OZONARE Carmen-Otilia RUSĂNESCU¹⁾, Gigel PARASCHIV¹⁾, Irina Aura ISTRATE¹⁾, Gabriel Alexandru CONSTANTIN¹⁾, Sorin-Ștefan BIRIȘ¹⁾, Gheorghe VOICU¹⁾, Andrei-Marian RUSĂNESCU²⁾, Maria GHEORGHE³⁾, Anca Ștefania MAXIM¹⁾ ¹⁾ National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania ²⁾ National University of Science and Technology POLITEHNICA Bucharest - Faculty of Computer Science / Romania ³⁾ Department of Training for Teaching Career and Socio-Human Sciences, POLITEHNICA Bucharest / Romania *E-mail: ia_istrate@yahoo.com; rusanescuandreiarian@gmail.com	10 ⁴⁵ -10 ⁵⁰
ENHANCING HUMAN-MACHINE INTERACTION WITH SMART KNOBS AND HAPTIC FEEDBACK / ÎMBUNĂȚIREA INTERACȚIUNII OM-MAȘINĂ CU BUTOANE INTELIGENTE ȘI FEEDBACK HAPTIC Gabriel FODOREAN¹⁾, Alin PLEȘA²⁾, Emil-Octavian TEUȚAN²⁾, Sergiu-Dan STAN²⁾ ¹⁾INMA Bucharest / Romania; ²⁾ Technical University of Cluj-Napoca, Faculty of Automotive Engineering, Mechatronics and Mechanics, Cluj-Napoca, Cluj County / Romania *Tel: (+40)741 212 696; *E-mail: gabriel.fodorean@gmail.com	10 ⁵⁰ -10 ⁵⁵	BIOREMEDIATION OF SOILS CONTAMINATED WITH HYDROCARBONS USING MICROBIAL CONSORTIA / BIOREMEDIEREA SOLURILOR CONTAMINATE CU HIDROCARBURI UTILIZÂND CONSORTII MICROBIENE 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 National University of Science and Technology Politehnica Bucharest / Romania *Tel: (+40)761 938 017; *E-mail: mirela.dinca@upb.ro	10 ⁵⁰ -10 ⁵⁵
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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 Imre KISS¹⁾, Sorin Aurel RAȚIU²⁾, Vasile George CIOATĂ³⁾, Carmen BRĂCĂCESCU⁴⁾ ¹⁾University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering & Management / Romania; ²⁾INMA, Bucharest / Romania Email: imre.kiss@fih.upt.ro	12 ⁰⁵ -12 ¹⁰	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 PELEȚILOR DIN DESEUL DE LÂNĂ DE OAIE ÎN VEDEREA UTILIZĂRII CA ÎNGRĂȘĂMÂNT ORGANIC ÎN AGRICULTURA ECOLOGICĂ. REVIEW Ioan Ladislau CABA¹⁾, Dragoș-Vasile NICA¹⁾, Eveline Anda LAZA¹⁾, Teodor Gabriel FODOREAN¹⁾, Elena Mihaela NAGY¹⁾, Nicolae-Valentin VLADUȚ¹⁾, Teodor VINTILA²⁾, Despina Maria BORDEAN²⁾ ¹⁾INMA Bucharest / Romania; ²⁾ University of Life Sciences "King Mihai I" from Timișoara, / Romania *Tel: 0744 515 964; *E-mail: caba@yahoo.com	12 ⁰⁵ -12 ¹⁰
LABORATORY EVALUATION OF A SOFT ROBOTIC GRIPPER FOR TOMATOES HARVESTING / EVALUAREA DE LABORATOR A UNUI GRIPPER ROBOTIC MOALE PENTRU RECOLTAREA ROȘIILOR Dorin-Andrei CÎRSTEĂ¹⁾, Gheorghe VOICU²⁾, Mariana EPURE¹⁾, Robert Dorin CRISTEA¹⁾, Florin Bogdan MARIN¹⁾ ¹⁾INMA Bucharest / Romania; ²⁾National University for Science and Technology POLITEHNICA Bucharest / Romania; ³⁾"Dunărea de Jos" University of Galați / Romania *Email: mary_epure1@yahoo.com	12 ¹⁰ -12 ¹⁵	SAFETY OF TRICHODERMA STRAINS IN AN ECOTOXICOLOGICAL CONTEXT: PRELIMINARY EVIDENCE FROM PLODIA INTERPUNCTELLA / SIGURANȚA TULPINILOR DE TRICHODERMA ÎN CONTEXT ECOTOXICOLOGIC: DOVEZI PRELIMINARE PE PLODIA INTERPUNCTELLA Daniel COJANU¹⁾, Cristina Maria LUMINARE¹⁾ ¹⁾Research-Development Institute for Plant Protection Bucharest, Romania *Email: daniel.cojanu13@yahoo.com	12 ¹⁰ -12 ¹⁵
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 Robert-Dorin CRISTEA¹⁾, Ionel Lucian DUMITRESCU²⁾, Alexandru-Cristian CIOACLA¹⁾, Dorin-Andrei CÎRSTEĂ¹⁾ ¹⁾INMA Bucharest / Romania / ²⁾ Horting Bucharest / Romania *Email: robertcri@yahoo.com; lucianumitrescu59@gmail.com	12 ¹⁵ -12 ²⁰	RESEARCH ON THE EVOLUTION OF WATER QUALITY PARAMETERS IN FISH PONDS DURING THE COLD SEASON IN THE CONTEXT OF CLIMATE CHANGE / CERCETĂRI PRIVIND EVOLUȚIA PARAMETRILOR DE CALITATE AI APEI ÎN BAZINELE PISCICOLE ÎN SEZONUL RECE ÎN CONTEXTUL SCHIMBĂRIILOR CLIMATICE Marinela GANCEA¹⁾, Mariana Cristina ARCADE¹⁾, Mioara COSTACHE¹⁾, Alin Constantin BARBU¹⁾, Sorin Marian DRAGUȚ¹⁾, Silvia RADU¹⁾, Nicoleta Georgeta DOBROTA¹⁾, Iulia GRIGORE²⁾ ¹⁾Research and Development Station for Fisheries Nucet / Romania; ²⁾INMA Bucharest / Romania *E-mail: scp_nucet@yahoo.com; alinbctin@gmail.com	12 ¹⁵ -12 ²⁰
THE INFLUENCE OF THE GRINDING PROCESS ON THE OBTAINING OF CONCENTRATED FEEDS / INFLUENȚA PROCESULUI DE MACINARE LA OBTINEREA NUTREȚURILOR CONCENTRATE Gheorghe STROESCU*, Alexandru IONESCU, Costin MIRCEA, Iulian DUMITRU National Institute of Research - Development for Machines and Installations Designed to Agriculture and Food Industry - INMA Bucharest / Romania *E-mail: gigistroescu62@gmail.com	12 ²⁰ -12 ²⁵	PRELIMINARY RESEARCH ON SPERM QUALITY IN THE SILURUS GLANIS SPECIES / CERCETĂRI PRELIMINARE PRIVIND CALITATEA SPERMEI LA SPECIA SILURUS GLANIS Silvia RADU¹⁾, Mioara COSTACHE¹⁾, Nicoleta Georgeta DOBROTA¹⁾, Gheorghe DOBROTA¹⁾, Nino MARICA¹⁾, Mariana Cristina ARCADE¹⁾, Marinela GANCEA¹⁾, Nicolae-Valentin VLĂDUȚ²⁾ ¹⁾ Research and Development Station for Fisheries Nucet, Dambovit County / Romania; ²⁾INMA Bucharest / Romania E-mail: scp_nucet@yahoo.com	12 ²⁰ -12 ²⁵
ANALYSIS OF TRACTOR PERFORMANCE DEPENDING ON THE TYPE OF AGRICULTURAL WORK / ANALIZA PERFORMANȚEI TRACTORULUI ÎN FUNCȚIE DE TIPUL DE LUCRARE AGRICOLĂ Lavinia Madalina MICU¹⁾, Daniel POPA¹⁾, Alexandru Ionescu²⁾ ¹⁾University of Life Sciences "King Mihai I" from Timișoara / Romania; ²⁾INMA Bucharest / Romania *Email: lavinia_micu@usvt.ro; daniel_popa@usvt.ro	12 ²⁵ -12 ³⁰	STUDY ON BIOCHAR APPLICATION METHODOLOGIES IN DIFFERENT VEGETABLE CROPS- REVIEW / STUDIU PRIVIND METODOLOGIILE DE APLICARE BIOCHAR ÎN DIFERITE CULTURI AGRICOLE LEGUMICOLE Alexandra-Liana VIȘAN¹⁾, Vasilica ȘTEFAN¹⁾, Alin HARABAGIU¹⁾, Radu CIUPERCĂ¹⁾, Ana ZAICA¹⁾ ¹⁾INMA Bucharest / Romania *Tel: 0724697550; E-mail: alexandron1982@yahoo.com	12 ²⁵ -12 ³⁰

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 Neluș-Evelin GHEORGHÎĂ¹⁾, Sorin-Ștefan BIRIȘ¹⁾, Raluca-Adriana ZOTA¹⁾, Mariana IONESCU¹⁾, Daria-Ioana SICARU¹⁾, Dragoș ANGHELACHE²⁾ ¹⁾ Faculty of Biotechnical Systems Engineering, National University of Science and Technology POLITEHNICA Bucharest / Romania; ²⁾ INMA Bucharest / Romania *Tel: 0726 453 269; E-mail: evelin_gheorghita@yahoo.com	12 ³⁰ -12 ³⁵	REMEDATION METHODS OF CONTAMINATED SOILS - REVIEW / METODE DE REMEDIERE A SOLURILOR CONTAMINATE - REVIEW Mariana Gabriela MUNTEANU¹⁾, Irina Aura ISTRATE¹⁾, Gheorghe VOICU¹⁾, Georgiana MOICEANU²⁾, Elena Mădălina ȘTEFAN¹⁾, Mihai Sabin MAGUREAN³⁾, Gabriel GHEORGHE⁴⁾ ¹⁾ National University of Science and Technology Politehnica Bucharest, Faculty of Biotechnical Systems Engineering / Romania; ²⁾ National University of Science and Technology Politehnica Bucharest, Faculty of Entrepreneurship, Engineering and Business Management / Romania; ³⁾ Colentina Clinical Hospital, Bucharest / Romania; ⁴⁾ INMA Bucharest / Romania *Tel: +40 767 236 522; *E-mail: mariana.munteanu@upb.ro	12 ³⁰ -12 ³⁵
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TESTING METHODOLOGY FOR A MIXED INTELLIGENT CROP BIRD SCARING SYSTEM / METODOLOGIE DE TESTARE PENTRU UN SISTEM INTELIGENT MIXT DE SPERIIAT PĂSĂRILE DIN CULTURI Augustina PRUTEANU¹⁾, Mihai MATACHE¹⁾, Alexandru IONESCU¹⁾, Dorin Andrei CÎRSTEĂ¹⁾, Dorin Robert CRISTEA¹⁾, Simona-Florina ISTICIOAIA²⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ ARDS Secuieni / Romania *Tel: 0740 690 268; *E-mail: pruteanu_augustina@yahoo.com	12 ⁴⁰ -12 ⁵⁰	WOOD-BASED WASTE RECYCLED INTO NEW ENGINEERED WOOD PRODUCTS IN A WASTE HIERARCHY CONCEPT / DEȘEURII PE BAZĂ DE LEMN RECICLATE ÎN NOI PRODUSE DIN LEMN INSTALAT ÎNTR-UN CONCEPT DE IERARHIE A DEȘEURILOR Imre KISS¹⁾, Eleonora DESNICA²⁾, Jelena DEMKO RIHTER³⁾, Zoran ANISIC³⁾ ¹⁾ University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering & Management / Romania ²⁾ University of Novi Sad, Technical Faculty "Mihajlo Pupin" / Serbia; ³⁾ University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Management / Serbia Email: imre.kiss@fh.upt.ro	12 ⁴⁰ -12 ⁵⁰
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Chairman: ȘTEFAN Mădălina / MARIN Eugen / MUNTEANU Mariana		Chairman: CRAIFĂLEANU Andrei / DUȚU Mihaela / GHEORGHE Gabriel *BSE: PhD students School “Biotechnical Systems Engineering”	
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SAFFLOWER CULTIVATION: CHALLENGES AND PERSPECTIVES / CULTURA DE ȘOFRÂNEL: PROVOCĂRI ȘI PERSPECTIVE Cătălina TUDORA ¹⁾ , Adriana MUSCALU ¹⁾ , Marga GRĂDILĂ ²⁾ , Oana MÎRZAN ³⁾ , Florentina GATEA ⁴⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Research - Development Institute for Plant Protection - ICDPP, Bucharest / Romania; ³⁾ Agricultural Research and Development Station Secuieni / Romania; ⁴⁾ National Institute for Biological Sciences / Romania *Tel: 0726 274 958; *E-mail: cmc_tudora@yahoo.com	09 ³⁵ -09 ⁴⁰	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 Elena-Denisa PREDESCU ¹⁾ , Carmen Otilia RUSĂNESCU ¹⁾ , Roxana-Elena FRÎNCU ¹⁾ , Sabrina Maria BĂLĂNESCU ¹⁾ National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania *Tel: 0736 617 371; *E-mail: denisa.predescu23@yahoo.com	09 ³⁵ -09 ⁴⁰
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OPTIMIZING PROCESSES IN AGRICULTURE AND THE FOOD INDUSTRY / OPTIMIZAREA PROCESELOR ÎN AGRICULTURĂ ȘI INDUSTRIA ALIMENTARĂ Gabriel NAE¹⁾, Florin NENCIU¹⁾, Andreea MATACHE¹⁾, Nicoleta VANGHELE¹⁾, Lorena-Diana POPA²⁾, Floarea SERBANEA³⁾, Cristian SERBANEA³⁾ ¹⁾INMA Bucharest / Romania; ²⁾ Secuieni Agricultural Development Research Station / Romania; ³⁾ National Institute for Research and Development of Food Bioresource - IBA, Bucharest / Romania <i>*E-mail: gabi.nae83@yahoo.com</i>	10 ¹⁰ -10 ¹⁵	VALORIZATION OF RENEWABLE RESOURCES FOR THE PRODUCTION OF BIOPLASTICS IN A CIRCULAR ECONOMY / VALORIFICAREA SURSELOR REGENERABILE PENTRU PRODUCEREA BIOPLASTICELOR ÎNTR-O ECONOMIE CIRCULARĂ Ana-Maria TĂBĂRAȘU¹⁾, Iuliana GĂGEANU¹⁾, Dragoș-Nicolae ANGHELACHE¹⁾, Alin-Teofil ONCESCU¹⁾, Doru-Relu ANTON³⁾, Nicoleta-Alexandra VANGHELE¹⁾, Melania-Elena CISMARU²⁾, Alexandru CIOACLĂ¹⁾, Alexandru IONESCU¹⁾, Cristian RADU²⁾ ¹⁾INMA Bucharest / Romania; ²⁾NUST POLITEHNICA Bucharest / Romania; ³⁾University of Craiova / Romania; ³⁾Ion Ionescu de la Brad Iasi University of Life Sciences / Romania <i>*Tel: 0730 417 449; *E-mail: anamariatabarasu22@yahoo.com</i>	10 ¹⁰ -10 ¹⁵
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 TRANSPARENTĂ Mihaela Monica DINU¹⁾, Viorel FĂTU¹⁾, Cristina Maria LUMINARE¹⁾, Roxana ZAHARIA¹⁾, Mihaela OLARU²⁾, Alexandra Maria BARDOȘ MARTIȘ²⁾, Damian DRAGOMIR²⁾, Cătălin-Viorel OLTENACU²⁾, Dragoș OFRIM³⁾ ¹⁾Research-Development Institute for Plant Protection Bucharest / Romania; ²⁾Research and Development Station for Fruit Tree Growing Băneasa / Romania; ³⁾InterNET SRL, OFRIM Group, Romania <i>*Tel: +4021 233 06 13; E-mail: postolici.mihaela@scdpbaneasa.ro</i>	10 ¹⁵ -10 ²⁰	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 Andrei-Mihai BACIU¹⁾, Imre KISS²⁾, Valentin VLĂDUȚ³⁾, Jozsef SÁROS⁴⁾ ¹⁾University Politehnica Timisoara, Doctoral School / Romania ²⁾University Politehnica Timisoara, Faculty Engineering Hunedoara, Department Engineering & Management / Romania ³⁾INMA, Bucharest/ Romania; ⁴⁾University of Szeged, Faculty of Engineering, Hungary <i>Email: imre.kiss@fih.upt.ro</i>	10 ¹⁵ -10 ²⁰
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 Andreea MATACHE¹⁾, Nicoleta Alexandra VANGHELE¹⁾, Florin NENCIU¹⁾, Augustina Mirabela PRUTEANU¹⁾, Tatiana ONISEI²⁾, Alexandra LEONTE³⁾, Lorena-Diana POPA³⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ IBA Bucharest / Romania; ³⁾ ARDS Secuieni / Romania; <i>*Tel: 0212 693 259; *E-mail: andmatache@yahoo.com</i>	10 ²⁰ -10 ²⁵	MAPPING THE LANDSCAPE OF CLIMATE CHANGE RESEARCH: GLOBAL TRENDS AND NATIONAL PERSPECTIVES / CARTOGRAFIEREA CERCETĂRII PRIVIND SCHIMBĂRILE CLIMATICE: DIRECȚII GLOBALE ȘI PERSPECTIVE NAȚIONALE Ionela-Alexandra ION[*], Carmen Otilia RUSĂNESCU, Sabrina-Maria BĂLĂNESCU National University of Science and Technology POLITEHNICA Bucharest - Faculty of Biotechnical Systems Engineering / Romania <i>*E-mail: ionionelaalexandra@yahoo.com</i>	10 ²⁰ -10 ²⁵
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.) Lorena-Diana POPA¹⁾, Simona-Florina ISTICIOAIA¹⁾, Alexandra LEONTE¹⁾, Nicolae-Valentin VLĂDUȚ²⁾, Florin NENCIU²⁾, Tatiana ONISEI³⁾, Petru Alexandru VLAICU⁴⁾, Manuela RĂSCOL³⁾, Gheorghe MATEI⁵⁾, Gabriel-Ciprian TELIBAN⁶⁾, Carmen BRĂCĂCESCU²⁾ ¹⁾Agricultural Research and Development Station Secuieni - SCDA Secuieni / Romania; ²⁾INMA Bucharest / Romania; ³⁾IBA Bucharest / Romania; ⁴⁾INCBNA-IBNA Balotești / Romania; ⁵⁾University of Craiova / Romania; ⁶⁾ "Ion Ionescu de la Brad" Iasi University of Life Sciences / Romania <i>*Corresponding author E-mail: carmenbraca@yahoo.com</i>	10 ²⁵ -10 ³⁰	ASSESSMENT OF THE ECOLOGICAL IMPACT OF ADVANCED WEED CONTROL TECHNOLOGIES / EVALUAREA IMPACTULUI ECOLOGIC AL TEHNOLOGIILOR AVANSATE DE CONTROL AL BURUIENILOR Alexandru IONESCU¹⁾, Gheorghe STROESCU¹⁾, Florin NENCIU¹⁾, Nicoleta VANGHELE¹⁾, Dragoș ANGHELACHE¹⁾, Ana-Maria TABARASU¹⁾, Robert BLEJAN²⁾, Cătălin LAZĂR³⁾, Claudiu UTOIU⁴⁾, Lavinia Madalina MICU⁵⁾ ¹⁾INMA Bucharest / Romania; ²⁾ National Institute of Research or Hydraulics And Pneumatics, Bucharest / Romania; ³⁾ National Institute of Research for Agricultural Development, Fundulea / Romania; ⁴⁾ National Institute of Research-Development for Food Bioresources / Romania; ⁵⁾University of Life Sciences "King Mihai I" from Timisoara / Romania <i>*Tel: (+40) 766 701 361; *E-mail: alex.alex12ab@gmail.com</i>	10 ²⁵ -10 ³⁰
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 Mariana Cristina ARCADE¹⁾, Mioara COSTACHE¹⁾, Marinela GANCEA¹⁾, Mihail COSTACHE¹⁾, Silvia RADU¹⁾, Alin Constantin BARBU¹⁾, Iulian VOICEA²⁾ ¹⁾Research and Development Station for Fisheries Nucet / Romania; ²⁾INMA Buharest / Romania <i>*E-mail: scp_nucet@yahoo.com, mioaracostache48@yahoo.com, alinbctin@gmail.com</i>	10 ³⁰ -10 ³⁵	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 ÎNȚREPRINDERILE MICI ȘI MIJLOCII Adriana MILEA¹⁾, Roland-Iosif MORARU²⁾, Nicolae-Valentin VLADUȚ³⁾, Lucian-Ionel CIOCA⁴⁾ ¹⁾Industrial Engineering and Management Department, Faculty of Engineering, Lucian Blaga University of Sibiu / Romania/ ²⁾Management and Industrial Engineering Department, University of Petroșani / Romania; ³⁾INMA Bucharest / Romania <i>*Email: lucian.cioca@ulbsibiu.ro</i>	10 ³⁰ -10 ³⁵
ASPECTS REGARDING MINIMAL PROCESSING OF FOOD PRODUCTS USING VACUUM IMPREGNATION / ASPECTE PRIVIND PROCESAREA MINIMALĂ A PRODUSELOR ALIMENTARE UTILIZÂND ÎMPREGNAREA ÎN VID Cristian SORICĂ¹⁾, Nicolae-Valentin VLĂDUȚ¹⁾, Daniela VERINGA²⁾, Laurențiu VLĂDUȚOIU¹⁾, Elena SORICĂ¹⁾, Andreea Iulia GRIGORE¹⁾, Alexandru IONESCU¹⁾ ¹⁾INMA Bucharest / Romania; ²⁾ ICDIMPH HORTING / Romania <i>*E-mail: cri_sor2002@yahoo.com</i>	10 ³⁵ -10 ⁴⁰	MODERN METHODS FOR PROCESSING FERMENTED DAIRY PRODUCTS / METODE MODERNE DE PROCESARE A PRODUSELOR LACTATE FERMENTATE Florentina BRATOSIN, Sorin-Stefan BIRIȘ, Andreea-Ioana BADIU, Alexandru Ionuț CÎRÎC, Mihaela BEGEA[*] National University of Science and Technology POLITEHNICA Bucharest / Romania <i>*E-mail: mihaela.begea@gmail.com</i>	10 ³⁵ -10 ⁴⁰
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 Anda-Grațîela BURNETE¹⁾, Luminița CATANĂ¹⁾, Monica CATANĂ¹⁾, Alexandra Monica DĂRĂ¹⁾, Florica CONSTANTINESCU¹⁾, Valentin-Nicolae VLĂDUȚ²⁾ ¹⁾National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania; ²⁾INMA Bucharest / Romania <i>*E-mail: lumi_catana@yahoo.co.uk</i>	10 ⁴⁰ -10 ⁴⁵	THE INFLUENCE OF STORAGE CONDITIONS ON THE QUALITY OF CANNED MEAT / INFLUENȚA CONDIȚIILOR DE DEPOZITARE ASUPRA CALITĂȚII CONSERVELOR DE CARNE Andreea Ioana BADIU, Sorin-Stefan BIRIȘ, Florentina BRATOSIN, Alexandru Ionuț CÎRÎC, Mihaela BEGEA[*] National University of Science and Technology POLITEHNICA Bucharest / Romania <i>*E-mail: mihaela.begea@gmail.com</i>	10 ⁴⁰ -10 ⁴⁵

RESEARCH ON THE USE OF BROCCOLI LEAVES TO OBTAIN A FUNCTIONAL INGREDIENT WITH HIGH NUTRITIONAL VALUE AND ANTIOXIDANT POTENTIAL / CERCETĂRI PRIVIND VALORIFICAREA FRUNZELOR DE BROCCOLI, ÎN SCOPUL OBȚINERII UNUI INGREDIENT FUNCȚIONAL, CU VALOARE NUTRITIVĂ RIDICATĂ ȘI POTENȚIAL ANTIOXIDANT Alexandra Monica DĂRĂ¹⁾, Monica CATANĂ^{1)*}, Luminița CATANĂ¹⁾, Anda-Grațela BURNETE¹⁾, Florica CONSTANTINESCU¹⁾, Valentin-Nicolae VLĂDUȚ²⁾ ¹⁾National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania; ²⁾INMA Bucharest / Romania <i>*E-mail: mcatana1965@gmail.com</i>	10 ⁴⁵ -10 ⁵⁰	CONSIDERATIONS REGARDING THE WORKING PROCESS OF MINIMUM TILLAGE EQUIPMENT / CONSIDERAȚII PRIVIND PROCESUL DE LUCRU AL ECHIPAMENTELOR DE PRELUCRARE MINIMĂ A SOLULUI Cristian RADU¹⁾, Sorin BORUZ¹⁾, Gheorghe MATEI¹⁾, Nicolae-Valentin VLĂDUȚ²⁾, Dragoș ANGHELACHE²⁾, Nicoleta VANGHELE²⁾, Ana-Maria TĂBĂRAȘU²⁾, Alexandru IONESCU²⁾, Melania CISMARU³⁾ ¹⁾University of Craiova / Romania; ²⁾INMA Bucharest / Romania; ³⁾National University of Science and Technology POLITEHNICA Bucharest / Romania <i>*Email: valentin_vladut@yahoo.com</i>	10 ⁴⁵ -10 ⁵⁰
RESEARCH ON THE FORTIFICATION OF PASTRY PRODUCTS WITH POWDER OBTAINED FROM WINE BY-PRODUCTS / CERCETĂRI PRIVIND FORTIFIEREA PRODUSELOR DE PATISERIE CU PULBERE OBȚINUTĂ DIN SUBPRODUSE VINICOLE Alexandra Monica DĂRĂ¹⁾, Anda-Grațela BURNETE¹⁾, Anca ONACHE²⁾ ¹⁾National Research-Development Institute for Food Bioresources - IBA Bucharest / Romania; ²⁾National Research & Development Institute for Biotechnology in Horticulture Stefanesti / Romania <i>*E-mail: lazar_anda92@yahoo.com</i>	10 ⁵⁰ -10 ⁵⁵		10 ⁵⁰ -10 ⁵⁵
11⁰⁰-11³⁰: Coffee break			

SECTION 5 – PNRR-III-C9-2022 – I5 CeSoH, PS3, Fertile and healthy soil through conservative and biological practices Chairman: MANEA Dragoș	(ISB Faculty Hall D101)	14³⁰-15³⁰
SECTION 6 – Current technologies for weed control in field crops / Tehnologii curente pentru combaterea buruienilor în culturile de câmp Chairman: IONESCU Alexandru	(ISB Faculty Hall D117)	14³⁰-15³⁰
SECTION 7 – Crop Rotation Optimisation for Sustainable Agriculture in Romania Chairman: GAGEANU Iuliana	(ISB Faculty Hall D117)	15³⁰-16³⁰

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