



***PROGRAMME OF THE***

**INTERNATIONAL SYMPOSIUM**

***ISB-INMA TEH***

**AGRICULTURAL AND MECHANICAL  
ENGINEERING**

**- 2019 -**

**31<sup>st</sup> October – 1<sup>st</sup> November**

***NATIONAL INSTITUTE FOR RESEARCH - DEVELOPMENT OF MACHINES AND INSTALLATIONS  
DESIGNED FOR AGRICULTURE AND FOOD INDUSTRY  
- INMA Bucharest -***

## 31<sup>st</sup> October

9<sup>00</sup> – 9<sup>30</sup> - **Registration of participants to ISB-INMA TEH 2019 Symposium**  
(in front of Library Hall - INMA Bucharest)

9<sup>30</sup> – 10<sup>30</sup> - **Opening speech: Festivity Hall - INMA Bucharest**

- **Gigel PARASCHIV**, State Secretary – Ministry of National Education;
- **Valeriu TABĂRĂ**, President - Academy of Agricultural and Forestry Sciences;
- **Mircea POPA**, Deputy Secretary General - Ministry of Research and Innovation;
- **Mihnea COSTOIU**, Rector – University Politehnica of Bucharest;
- **Ecaterina ANDRONESCU**, President of Senat - University Politehnica of Bucharest;
- **Răzvan TEODORESCU**, Vice Rector – UASVM Bucharest;
- **Gheorghe VOICU**, Dean - Faculty of Biotechnical Engineering Systems - University Politehnica of Bucharest;
- **Nastasia BELC**, General Manager - National Institute of Research and Development for Food Bioresources Bucharest;
- **Ioan ROȘCA**, Director - Research and Development Institute for Plant Protection.

10<sup>30</sup> – 10<sup>45</sup> - **Coffee break**

### **INMA Bucharest, Hall of Library, Scientific Council and Festivity**

10<sup>45</sup> – 12<sup>15</sup> - **Presentation of papers on sections (ORAL)**

12<sup>15</sup> – 12<sup>30</sup> - **Coffee break**

12<sup>30</sup> – 14<sup>00</sup> - **Presentation of papers on sections (ORAL)**

14<sup>00</sup> – 15<sup>30</sup> - **Lunch break**

15<sup>30</sup> – 18<sup>00</sup> - **Presentation of papers on sections (POSTER) – (1st floor Hall);**

15<sup>30</sup> – 17<sup>00</sup> - **Workshop: Technological transfer of INMA Bucharest research results**  
(ground floor, Scientific Council Hall)

- **Workshop: The current state of “SMARTIRRIG” project results (2019)**  
(ground floor, Laboratory “Soil” Hall)

### **INMA-ITA, Meeting Room**

12<sup>00</sup> – 12<sup>50</sup> - **BROKERAGE: B2B Romania-Bulgaria company mission in the agro-industry sector (PART 1)**

12<sup>50</sup> – 13<sup>00</sup> - **Coffee break**

13<sup>00</sup> – 14<sup>00</sup> - **BROKERAGE: B2B Romania-Bulgaria company mission in the agro-industry sector (PART 2)**

14<sup>00</sup> – 15<sup>30</sup> - **Lunch break**

## 1<sup>st</sup> November

9<sup>00</sup> – 12<sup>30</sup> - **INMA Bucharest laboratories visit**

13<sup>00</sup> - 15<sup>30</sup> - **Lunch**

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SECTION 1 - POWER AND MACHINERY - ORAL PRESENTATION		SECTION 2 - ECOLOGY & ENVIRONMENT - ORAL PRESENTATION	
Chairman: BIRIȘ Sorin / VLĂDUȚ Valentin / PARASCHIV Gigel (Festivity Hall – INMA Bucharest)		Chairman: ȚENU I. / MOGA Corina / POPA Lucreția (Library Hall – INMA Bucharest)	
<b>KINETOSTATIC ANALYSIS OF THE PRECOMPACTION MECHANISM IN MUNICIPAL SOLID WASTE COLLECTING EQUIPMENTS / ANALIZA CINETOSTATICĂ A MECANISMULUI DE PRECOMPACTARE LA MAȘINILE DE COLECTAT DEȘEURI MENAJERE</b> Moise V. <sup>1</sup> , Voicu Gh. <sup>*1</sup> , Lazea M. <sup>2</sup> , Popa L. <sup>3</sup> , Eng. Tudor P. <sup>1</sup> , Dugaesescu L. <sup>1</sup> , Ungureanu L. <sup>1</sup> <sup>1</sup> University Politehnica of Bucharest / Romania; <sup>2</sup> CCR Romania / Romania; <sup>3</sup> INMA Bucharest / Romania Tel: 0724715585; E-mail: <a href="mailto:ghvoicu_2005@yahoo.com">ghvoicu_2005@yahoo.com</a>	10 <sup>45</sup> -10 <sup>55</sup>	<b>THE INFLUENCE OF HYDROGEN PEROXIDE AND OCIMUM BASILICUM ESSENTIAL OIL TREATMENT ON SEED GERMINATION OF CAPSICUM ANNUUM (L.) LINNAEUS / INFLUENȚA TRATAMENTULUI CU APA OXIGENATĂ ȘI ULEI ESENTIAL DE OCIMUM BASILICUM ASUPRA GERMINĂȚII SEMINTELOR DE CAPSICUM ANNUUM (L.) LINNAEUS</b> Fatu V. <sup>1,2</sup> , Voicu Gh. <sup>2</sup> , Geicu A.G. <sup>1</sup> , Palade Chiriloaie A. <sup>1</sup> , Petre A. <sup>3</sup> <sup>1</sup> ICDPP Bucharest / Romania; <sup>2</sup> P.University Bucharest, Fac. Biotechnical Systems Engineering / Romania; <sup>3</sup> INMA Bucharest / Romania E-mail: <a href="mailto:fatu_vioarel@yahoo.com">fatu_vioarel@yahoo.com</a>	10 <sup>45</sup> -10 <sup>55</sup>
<b>LEVELLING-GREDER EQUIPMENT FOR GRASSLAND, RGP-2.0 TYPE / RINDEA-GREDER DE PAJIȘTI, TIP RGP-2,0</b> Mocanu V. <sup>1</sup> , Ene T.A. <sup>1</sup> , Blaj V.A. <sup>1</sup> <sup>1</sup> Research-Development Institute for Grassland Brasov / Romania; Tel: 0728941786; E-mail: <a href="mailto:vasmocanu@yahoo.com">vasmocanu@yahoo.com</a>	10 <sup>55</sup> -11 <sup>05</sup>	<b>EXPERIMENTAL RESEARCH ON ACCUMULATION, OVER TIME, OF HEAVY METALS IN GREEN LETTUCE / CERCETARI EXPERIMENTALE PRIVIND ACUMULAREA METALELOR GRELE IN TIMP IN SALATA VERDE</b> Cârdei P., Pruteanu A. INMA Bucharest / Romania Tel: +4 0740690268. E-mail: <a href="mailto:pruteanu_augustina@yahoo.com">pruteanu_augustina@yahoo.com</a>	10 <sup>55</sup> -11 <sup>05</sup>
<b>SEED METERS WITH ELECTRIC DRIVE AT PRECISION SEEDERS / APARATE DE DISTRIBUȚIE A SEMINTELOR CU ACȚIONARE ELECTRICĂ LA SEMĂNĂTORILE DE PRECIZIE</b> Persu C. <sup>*1</sup> , Cujbescu D. <sup>1</sup> , Marin E. <sup>1</sup> , Gheorghe Gabriel <sup>1</sup> , Vlad C. <sup>2</sup> , Burnichi F. <sup>2</sup> , Kabas O. <sup>3</sup> <sup>1</sup> INMA Bucharest / Romania <sup>2</sup> SCDL Buzău / Romania; <sup>3</sup> Akendiz University / Turkey Tel: 0212693255; E-mail: <a href="mailto:persucatalin@yahoo.com">persucatalin@yahoo.com</a>	11 <sup>05</sup> -11 <sup>15</sup>	<b>NMR RESEARCH ON STARCH WITH PLASTICISERS BEFORE AND AFTER REACTIVE EXTRUSION PROCESSING / INVESTIGAREA NMR A AMIDONULUI CU PLASTIFIANȚI ÎNAINTE ȘI DUPĂ PROCESAREA PRIN EXTRUDARE REACTIVĂ</b> Cioica N. <sup>1</sup> Nagy E. M. <sup>1</sup> , Cota C. <sup>1</sup> , Gyorgy Z. <sup>1</sup> Abil. Fecete R. <sup>2</sup> <sup>1</sup> INMA Bucharest, Branch Cluj-Napoca / Romania; <sup>2</sup> Technical University of Cluj-Napoca, Dept. of Physics / Romania E-mail: <a href="mailto:ncioica@yahoo.com">ncioica@yahoo.com</a>	11 <sup>05</sup> -11 <sup>15</sup>
<b>GUIDANCE AND CONTROL OF AUTONOMOUS ROBOT IN AGRICULTURAL FIELD / CONTROLUL MISCĂRII UNUI ROBOT AUTONOM INTR-UN CAMP AGRICOL</b> Nanu S. <sup>*</sup> , Negirla P. <sup>*</sup> , Bungescu S. <sup>**</sup> <sup>*</sup> Politehnica University Timisoara, Faculty of Automation and Computer Science / Romania; <sup>**</sup> The Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timișoara, Faculty of Agriculture, Romania Tel: 0726713893; E-mail: <a href="mailto:sorin.nanu@upt.ro">sorin.nanu@upt.ro</a>	11 <sup>15</sup> -11 <sup>25</sup>	<b>RESEARCH ON THE USE OF AUTOMOTIVE BATTERY PACK FOR DRIVING AGRICULTURAL VEHICLES / CERCETARI PRIVIND FOLOSIREA BATERIILOR DE ACUMULATORI PENTRU ACȚIONAREA VEHICULELOR AGRICOLE</b> Cristea M. <sup>*</sup> , Matache M., Grigore A.I., Grigore I., Vlăduțoiu L., Persu C., Dumitru I. INMA Bucharest / Romania Email: <a href="mailto:indagropol1@gmail.com">indagropol1@gmail.com</a>	11 <sup>15</sup> -11 <sup>25</sup>
<b>THEORETICAL RESEARCH ON THE PROCESS OF HARVESTING HEMP STALKS / CERCETĂRI TEORETICE PRIVIND PROCESUL DE RECOLTARE A TULPINILOR DE CÂNEPĂ</b> Zaica Al. <sup>*1</sup> , Păun A. <sup>1</sup> , Găgeanu P. <sup>1</sup> , Olan M. <sup>1</sup> , Bunduchi G. <sup>1</sup> , Zaica A. <sup>1</sup> , Popa L.-D. <sup>2</sup> , Teliban G. <sup>3</sup> <sup>1</sup> INMA Bucharest / Romania, <sup>2</sup> SCDA Secuieni / Romania; <sup>3</sup> University of Agricultural Sciences and Veterinary Medicine of Iasi / Romania Tel: 0726147336; E-mail: <a href="mailto:zaica_alexandru@yahoo.com">zaica_alexandru@yahoo.com</a>	11 <sup>25</sup> -11 <sup>35</sup>	<b>THE INFLUENCE OF MOLASSES ADDITION ON THE PROPERTIES OF ECO FERTILIZING GRANULAR MATERIALS BASED ON PEAT / INFLUENȚA ADAOSULUI DE MELASA IN COMPOZIȚIA MATERIALELOR ECO-FERTILIZANTE GRANULARE PE BAZA DE TURBA ASUPRA PROPRIETĂȚILOR ACESTORA</b> Gyorgy Z., Coța C., Nagy, E.M., Cioica, N., Tudora C. INMA Bucharest / Romania Tel: 0748545931; E-mail: <a href="mailto:gyorgy2zoltan@gmail.com">gyorgy2zoltan@gmail.com</a>	11 <sup>25</sup> -11 <sup>35</sup>
<b>KINEMATIC ANALYSIS OF RETRACTABLE FINGERS OF A CEREAL COMBINE HARVESTER / ANALIZA CINEMATICA A DEGETELOR ESCAMOTABILE DE LA COMBINA DE RECOLTAT CEREALE</b> Popa V., Popa R. INMA Bucharest / Romania Tel: 0762065563; E-mail: <a href="mailto:vlad_popa90@yahoo.com">vlad_popa90@yahoo.com</a>	11 <sup>35</sup> -11 <sup>45</sup>	<b>BEHAVIOUR OF MUSTARD PLANTS GROWN IN CONTAMINATED SOIL / COMPORTAMENTUL PLANTELOR DE MUȘTAR CRESCUTE ÎN SOL CONTAMINAT</b> Pruteanu A. <sup>1</sup> , Vanghele N. <sup>1</sup> , Mihalache B. <sup>1</sup> , Boiu-Sicuia O.A. <sup>2</sup> , Popescu C. <sup>3</sup> , Vrinceanu N. <sup>4</sup> <sup>1</sup> INMA Bucharest / Romania; <sup>2</sup> ICDPP Bucharest / Romania; <sup>3</sup> SC HOFIGAL SA / Romania; <sup>4</sup> ICPA Bucharest / Romania E-mail: <a href="mailto:pruteanu_augustina@yahoo.com">pruteanu_augustina@yahoo.com</a>	11 <sup>35</sup> -11 <sup>45</sup>
<b>RESEARCH ON DETERMINATION OF EXPOSURE LEVEL TO HAND TRANSMITTED VIBRATIONS OF ROTOTILLERS WORKERS DURING TILLAGE WORKS / CERCETARI PRIVIND DETERMINAREA NIVELULUI DE EXPUNERE LA VIBRAȚII TRANSMISE PRIN MÂNĂ PENTRU OPERATORII MOTOSAPELOR ÎN TIMPUL LUCRĂRILOR DE FREZARE</b> Matache M.G. <sup>*1</sup> , Voicu G. <sup>2</sup> , Dumitru D.N. <sup>1</sup> , Vasilachi C. <sup>1</sup> <sup>1</sup> INMA Bucharest / Romania; <sup>2</sup> UP Bucharest / Romania E-mail: <a href="mailto:gabimatache@yahoo.com">gabimatache@yahoo.com</a>	11 <sup>45</sup> -11 <sup>55</sup>	<b>INNOVATIVE TECHNOLOGIES FOR THE PROTECTION OF VEGETABLE CROPS IN THE CONTEXT OF CLIMATE CHANGE / TEHNOLOGII INOVATIVE DE PROTECȚIE A CULTURILOR DE LEGUME ÎN CONTEXTUL SCHIMBĂRILOR CLIMATICE</b> Muscalu A. <sup>*1</sup> , Coța C. <sup>1</sup> , Tudora C. <sup>1</sup> , Birsan M. <sup>1</sup> , Gyorgy Z. <sup>1</sup> , Dorogan A. <sup>2</sup> , Burnichi F. <sup>3</sup> , Marinova S. <sup>4</sup> , Kathijotes N. <sup>5</sup> <sup>1</sup> INMA Bucharest; <sup>2</sup> INCDTP Bucharest; <sup>3</sup> SCDL Buzău / Romania; <sup>4</sup> ISSAPP "Nikola Poushkarov Sofia / Bulgaria; <sup>5</sup> International Ocean Institute-Cyprus University of Technology / Cyprus Tel: 0726234242; E-mail: <a href="mailto:amuscalis@yahoo.com">amuscalis@yahoo.com</a>	11 <sup>45</sup> -11 <sup>55</sup>
<b>ANALYSIS OF THE CONSTRUCTIVE FORM'S INFLUENCE ON THE BAFFLES AT THE LIQUID SLOSHING IN A PARTIALLY FILLED TANK VEHICLE FOR AGRI-FOOD PRODUCTS BY FEM MODELING / ANALIZA INFLUENȚEI FORMEI CONSTRUCTIVE A SICANELOR LA PRODUCEREA SLOSHING-ULUI LA CISTERNELE PARTIAL UMPLUTE PENTRU PRODUSE AGRO-ALIMENTARE LICHIDE PRIN MODELARE FEM</b> Milian G. <sup>*</sup> , Biriș S., Ipate G. Universities Polytechnic Bucharest, Faculty of Biotechnical Systems Engineering / Romania; Tel: 0766453970; E-mail: <a href="mailto:gabi_isb@yahoo.com">gabi_isb@yahoo.com</a>	11 <sup>55</sup> -12 <sup>05</sup>	<b>REMOTE SENSING DATA USE FOR EVOLUTION ANALYSIS OF THE DANUBE DISTRIBUTARIES RIVER MOUTHS IN THE CHILIA – BYSTROYE AREA / UTILIZAREA DATELOR DE TELEDETECTIE PENTRU ANALIZA EVOLUTIEI GURILOR DE VARSARE ALE BRATELOR DUNĂRII DIN ZONA CHILIA – BĂSTROE</b> Urișescu B. <sup>1</sup> , Deák G. <sup>1</sup> Tudor G. <sup>1</sup> , Cîrstinoiu C. <sup>1</sup> , Raischi M. <sup>1,2</sup> , Dănălache T. M. <sup>1,3</sup> , Zamfir Șt. <sup>1,2</sup> , Petculescu B. <sup>1</sup> <sup>1</sup> National Institute for Research and Development in Environmental Protection Bucharest / Romania <sup>2</sup> "Dunarea de Jos" University of Galati/ Romania Tel: 0751924804; E-mail: <a href="mailto:bogdan_uri@yahoo.com">bogdan_uri@yahoo.com</a>	11 <sup>55</sup> -12 <sup>05</sup>
<b>COMPUTER AIDED ANALYSIS OF THE AIR FLOW CREATED BY THE CHOPPING DRUM FROM A FORAGE HARVESTER / ANALIZA ASISTATA DE CALCULATOR CURENTULUI DE AER CREAT DE TOBĂ DE TOCARE DE LA COMBINA DE TOCAT FURAJE</b> Popa R., Popa V. INMA Bucharest / Romania Tel: 044232253; E-mail: <a href="mailto:radu12m@yahoo.com">radu12m@yahoo.com</a>	12 <sup>05</sup> -12 <sup>15</sup>	<b>HIGH EFFICIENCY GAS HEATING SYSTEMS- A REVIEW / SISTEME DE ÎNCĂLZIRE PE GAZE CU EFICIENȚĂ RIDICATĂ - REVIEW</b> Safta V. <sup>1</sup> , Zăbavă B. <sup>1</sup> , Ciucă V. <sup>2</sup> <sup>1</sup> University POLITEHNICA of Bucharest, Department of BIOTECHNICAL SYSTEMS <sup>2</sup> National Society "Pasteur Institute" S.A. Bucharest/ Romania Tel: 0724017310; E-mail: <a href="mailto:safavictoriorel@yahoo.com">safavictoriorel@yahoo.com</a>	12 <sup>05</sup> -12 <sup>15</sup>

**12<sup>15</sup>-12<sup>30</sup>: Coffee break**

<p><b>HYBRID RENEWABLE ENERGY SYSTEMS FOR INSULARIZED FARMS, A REVUE / SISTEME HIBRIDE DE ENERGIE REGENERABILA PENTRU FERMELE INSULARIZATE, UN REVIEW</b>                  Maican E.*<sup>1)</sup>, Vlăduț V.<sup>2)</sup>, Vilcu C.<sup>2)</sup>, Sorică C.<sup>2)</sup>, Dorian M.<sup>3)</sup>, Mirea D.P.<sup>4)</sup>, Bogăteanu R.<sup>5)</sup>  <sup>1)</sup>Universities Polytechnic Bucharest, Faculty of Biotechnical Systems Engineering / Romania;  <sup>2)</sup>INMA Bucharest / RO; <sup>3)</sup>ICPE-CA Bucharest / RO; <sup>4)</sup>University of Bristol / UK; <sup>5)</sup>INCAS Bucharest / RO                  Tel: +40721090813; E-mail: <a href="mailto:edmond.maican@upb.ro">edmond.maican@upb.ro</a></p>	<p align="center">12<sup>30</sup>-12<sup>40</sup></p>	<p align="center"><b>CONTENT OF HEAVY METALS IN PLUM AND SOUR CHERRIE FRUITS / CONȚINUTUL DE METALE GRELE ÎN FRUCTE DE PRUN ȘI VISIN</b>                  Pruteanu A.<sup>1)</sup>, Gageanu G.<sup>1)</sup>, Neagoe M.<sup>1)</sup>, Popescu C.<sup>2)</sup>, Vrînceanu N.<sup>3)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>SC HOFIGAL SA / Romania; <sup>3)</sup>ICPA Bucharest / Romania                  Tel: +4 0740690268. E-mail: <a href="mailto:pruteanu_augustina@yahoo.com">pruteanu_augustina@yahoo.com</a></p>	<p align="center">12<sup>30</sup>-12<sup>40</sup></p>
<p><b>KINEMATIC ANALYSIS OF MECHANISM, WITH ARTICULATED PRECOMPACTION BARS, OF MUNICIPAL SOLID WASTE COLLECTING MACHINES/ ANALIZA CINEMATICALĂ A UNUI MECANISM, CU BARE ARTICULATE DE PRECOMPACTARE, AL MAȘINILOR DE COLECTAT DEȘURI MENAJERE</b>                  Voicu Gh.<sup>1)</sup>, Moise V.<sup>1)</sup>, Popa L.<sup>2)</sup>, Lazea M.<sup>3)</sup>, Tudor P.<sup>1)</sup>, Niculae L.<sup>1)</sup>, Polena A.  <sup>1)</sup> University Politehnica of Bucharest / Romania, <sup>2)</sup> INMA Bucharest / Romania, <sup>3)</sup> CCR Romania  <sup>1</sup> Corresponding author: Tel: 0753044289; E-mail: <a href="mailto:mircealazea2005@yahoo.com">mircealazea2005@yahoo.com</a></p>	<p align="center">12<sup>40</sup>-12<sup>50</sup></p>	<p align="center"><b>EXPERIMENTAL RESEARCHES ON THE EVOLUTION OF THE LENGTH OF FIR TREE SAWDUST PELLETS / CERCETĂRI EXPERIMENTALE PRIVIND EVOLUȚIA LUNGIMII PELETELOR DIN RUMEGUS DE BRAD</b>                  Găgeanu I.<sup>1)</sup>, Cârdei P.<sup>1)</sup>, Voicu Gh.<sup>2)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> University Politehnica of Bucharest / Romania                  *E-mail: <a href="mailto:iulia.gageanu@gmail.com">iulia.gageanu@gmail.com</a></p>	<p align="center">12<sup>40</sup>-12<sup>50</sup></p>
<p><b>RESEARCH ON THE OPTIMIZATION OF TECHNOLOGIES APPLIED IN THE CONSTRUCTION OF AGRICULTURAL MACHINES/ CERCETĂRI PRIVIND OPTIMIZAREA UNOR TEHNOLOGII APLICATE ÎN CONSTRUCȚIA MAȘINILOR AGRICOLE</b>                  Dumitru D., Muscalu A., Sorică C., Marian M.                  INMA Bucharest / Romania                  E-mail: <a href="mailto:dumitrudragos.nicolae@gmail.com">dumitrudragos.nicolae@gmail.com</a></p>	<p align="center">12<sup>50</sup>-13<sup>00</sup></p>	<p align="center"><b>RESEARCHES ON OBTAINING FERTILIZERS USING SLUDGES FROM WASTEWATER TREATMENT PLANTS / CERCETĂRI PRIVIND OBTINEREA DE ÎNGRĂȘĂMINTE DIN NĂMOLURILE LA STAȚIILE DE EPURARE</b>                  Găgeanu I.<sup>1)</sup>, Marin E.<sup>1)</sup>, Jianu R.<sup>2)</sup>, Găgeanu E.<sup>3)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>S.C. PRO MEDIU DUNAREAN SRL / Romania; <sup>3)</sup>ISSEC Pigier Toulouse / France                  *E-mail: <a href="mailto:iulia.gageanu@gmail.com">iulia.gageanu@gmail.com</a></p>	<p align="center">12<sup>50</sup>-13<sup>00</sup></p>
<p><b>CONSIDERATIONS REGARDING THE USE OF THE EQUIPMENT FOR OPENING AND COMPARTMENTALIZING THE WATERING FURROWS / CONSIDERATII PRIVIND UTILIZAREA ECHIPAMENTELOR DE DESCHIS SI COMPARTIMENTAT BRAZDE DE UDARE</b>                  Oprescu M. R.*<sup>1)</sup>, Dumitru D. N.<sup>1)</sup>, Voicea I. F.<sup>1)</sup>, Biriș S. S.<sup>2)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup> PU Bucharest / Romania                  E-mail: <a href="mailto:oprescu.remusmaris@gmail.com">oprescu.remusmaris@gmail.com</a></p>	<p align="center">13<sup>00</sup>-13<sup>10</sup></p>	<p align="center"><b>RESEARCH ON HEAT RECOVERY IN THE COMPOSTING PROCESS / CERCETĂRI PRIVIND RECUPERARE A ENERGIEI TERMICE DIN PROCESUL DE COMPOSTARE</b>                  Ciupercă R., Nedelcu A., Popa L., Zaica A., Ștefan V.                  INMA Bucharest / Romania                  Tel: 0726719726; <a href="mailto:ciupercaradu@yahoo.com">ciupercaradu@yahoo.com</a></p>	<p align="center">13<sup>00</sup>-13<sup>10</sup></p>
<p><b>THE STUDY OF INNOVATIVE MODELS OF SCREW PRESSES WHICH CAN OBTAIN A HIGHER YIELD OF GRAPE OIL - A REVIEW / STUDIUL MODELELOR INOVATIVE DE PRESE CU MELC CARE OBTIN UN RANDAMENT MAI MARE DE ULEI DE STRUGURI - A REVIU</b>                  Vasilachi. C.<sup>1)</sup>, Biriș S. Șt.<sup>2)</sup>, Gheorghita E.<sup>2)</sup>, Gheorghe G.<sup>1)</sup>, Mateescu M.<sup>1)</sup>  <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup>University "POLITEHNICA" Bucharest / Romania                  E-mail: <a href="mailto:carmen.vasilachi@gmail.com">carmen.vasilachi@gmail.com</a></p>	<p align="center">13<sup>10</sup>-13<sup>20</sup></p>	<p align="center"><b>EFFECT OF BIOSTIMULANTS APPLICATION ON THE BIOMETRIC AND AGRO PRODUCTIVE CHARACTERISTICS OF A MONOECIOUS HEMP CULTIVAR BY SCDA SECUIENI / EFECTUL APLICĂRII BIOSTIMULATORILOR ASUPRA CARACTERISTICILOR BIOMETRICE ȘI DE AGROPRODUCTIVITATE ALE UNUI CULTIVAR DE CÂNEPĂ MONOICĂ MARCA SCDA SECUIENI</b>                  Popa L.<sup>1)</sup>, Isticioaia S.<sup>1)</sup>, Vlăduț V.<sup>2)</sup>, Teliban G.<sup>3)</sup>, G Matei G.<sup>4)</sup>, Nedelcu A.<sup>2)</sup>  <sup>1)</sup>ARDS Secuieni Neamț / Romania, <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>UASVM Iași / Romania, <sup>4)</sup> University of Craiova / Romania                  E-mail: <a href="mailto:dy.hemp420@gmail.com">dy.hemp420@gmail.com</a></p>	<p align="center">13<sup>10</sup>-13<sup>20</sup></p>
<p><b>INCREASING THE SEPARATION DEGREE OF IMPURITIES FROM SMALL VEGETABLE AND FLOWER SEEDS USING AERODYNAMIC PROPERTIES / CREȘTEREA GRADULUI DE SEPARARE A IMPURITĂȚILOR DIN SEMINȚELE MICI DE LEGUME ȘI FLORI UTILIZÂND PROPRIETĂȚILE AERODINAMICE</b>                  Păun A., Stroescu Gh., Brăcăcescu C., Zaica Al., Olan M., Bunduchi G.  <sup>1)</sup>INMA Bucharest / Romania                  E-mail: <a href="mailto:anipaun@yahoo.com">anipaun@yahoo.com</a></p>	<p align="center">13<sup>20</sup>-13<sup>30</sup></p>	<p align="center"><b>RESEARCH ON THE USE OF VINE CANES RESULTING FROM FRUITING CUTTINGS, FOR PELLET MANUFACTURING / CERCETĂRI PRIVIND UTILIZAREA COARDELOR DE VIȚĂ DE VIE, REZULTATE DE LA TĂIERILE DE FRUCTIFICARE, PENTRU FABRICAREA PELETELOR</b>                  Țenu I.<sup>1)</sup>; Dumitrachi P.<sup>1)</sup>, Corduneanu O., Roșca R.<sup>1)</sup>; Cârlescu P.<sup>1)</sup>; Naghiu A.<sup>2)</sup>; Roman C.<sup>3)</sup>; Senila L-R<sup>3)</sup>; Arsenoiaia V.<sup>1)</sup>  <sup>1)</sup>UASVM „Ion Ionescu de la Brad” Iași / Romania; <sup>2)</sup>UASVM Cluj-Napoca / Romania;  <sup>3)</sup>Research Institute for Analytic Instrumentation Cluj-Napoca; <sup>4)</sup>Universitatea Agrară de Stat din Moldova                  E-mail: <a href="mailto:itenu@univagro-iasi.ro">itenu@univagro-iasi.ro</a></p>	<p align="center">13<sup>20</sup>-13<sup>30</sup></p>
<p><b>VIBRATORY CULTIVATORS DEVELOPMENT TRENDS INTENDED FOR REDUCING SOIL COMPACTION – A REVIEW / TENDINȚE DE DEZVOLTARE A CULTIVĂTOARELOR VIBRATOARE ÎN VEDEREA REDUCERII COMPACTĂRII SOLULUI – REVIEW</b>                  Gheorghita N.E.*<sup>1)</sup>, Biriș S-Șt., Mihăilă L-G.                  University "POLITEHNICA" Bucharest / Romania; E-mail: <a href="mailto:evelin_gheorghita@yahoo.com">evelin_gheorghita@yahoo.com</a></p>	<p align="center">13<sup>30</sup>-13<sup>40</sup></p>	<p align="center"><b>ENVIRONMENTAL IMPACT ASSOCIATED WITH BIOGAS PRODUCTION – A SHORT REVIEW / IMPACTUL DE MEDIU ASOCIAT CU PRODUCTIA DE BIOGAZ – SCURT REVIEW</b>                  Ferdes M. *, Zabava B., Dinca M, Paraschiv G., Toma L.                  University "Politehnica" of Bucharest, Faculty of Biotechnical Systems Engineering                  Tel: 0729821256; E-mail: <a href="mailto:mferdes@upb.ro">mferdes@upb.ro</a></p>	<p align="center">13<sup>30</sup>-13<sup>40</sup></p>
<p><b>ANALYSIS OF PROCESSES AND EQUIPMENT FOR PRODUCING BIOMASS MICRO-BRIQUETTES THROUGH THE GENERALIZED OBJECT METHOD SPECIFIC TO THE TECHNICAL CREATION / ANALIZA PROCEDEELOR SI ECHIPAMENTELOR DE PRODUCERE A MICROBRICHETELOR DIN BIOMASA PRIN METODA OBIECTULUI GENERALIZAT A CREATIEI TEHNICE</b>                  Olan M.*<sup>1)</sup>, Vlăduț V., Păun A., Găgeanu I., Zaica Al.                  INMA Bucharest / Romania; E-mail: <a href="mailto:vibroblc@yahoo.com">vibroblc@yahoo.com</a></p>	<p align="center">13<sup>40</sup>-13<sup>50</sup></p>	<p align="center"><b>MYCOREMEDIATION OF HEAVY METAL-CONTAMINATED SOIL / MICOREMEDIAREA SOLULUI CONTAMINAT CU METALE GRELE</b>                  Pihurov M.<sup>1)</sup>, Vlăduț V.<sup>2)</sup>, Bordean D-M.<sup>3)</sup>, Ferdes M.<sup>1)</sup>  <sup>1)</sup>Politehnica University of Bucharest; <sup>2)</sup>INMA Bucharest / Romania  <sup>3)</sup>Banat University of Agricultural Sciences and Veterinary medicine of Timisoara, Romania                  E-mail: <a href="mailto:pihurov.marna@gmail.com">pihurov.marna@gmail.com</a></p>	<p align="center">13<sup>40</sup>-13<sup>50</sup></p>

**14<sup>00</sup> - 15<sup>30</sup> Lunch**

<b>SECTION 3 - FOOD INDUSTRY - ORAL PRESENTATION</b>		<b>SECTION 3 - FOOD INDUSTRY - POSTER PRESENTATION</b>	
<b>Chairman:</b> VOICU Gheorghe / BELC Nastasia (Scientific Council Hall – INMA Bucharest)		<b>Chairman:</b> PĂUN Anișoara / SORICĂ Cristian (1st floor Hall – INMA Bucharest)	
<b>ELECTRICALLY POWERED TRICYCLE AGGREGATED WITH AGRICULTURAL EQUIPMENT / TRICICLU AUTOPROPULSAT ELECTRIC AGREGAT CU ECHIPAMENTE AGRICOLE</b> Suvac A. <sup>1)</sup> , Ganea-Christu I. <sup>2)</sup> , Velcea M. <sup>3)</sup> , Savaniu I. <sup>4)</sup> <sup>1)</sup> University POLITEHNICA of Bucharest / Romania; <sup>2)</sup> INMA Bucharest / Romania; <sup>3)</sup> Justin Capra Association / Romania; <sup>4)</sup> Technical University of Civil Engineering of Bucharest E-mail: <a href="mailto:albertsuvac@gmail.com">albertsuvac@gmail.com</a>	10 <sup>45</sup> -10 <sup>55</sup>	<b>CONSIDERATIONS REGARDING THE CONSTRUCTIVE TYPES OF CYLINDER SIEVES / CONSIDERATII PRIVIND TIPURILE CONSTRUCTIVE DE SITE CILINDRICE</b> Mircea C. <sup>1)</sup> , Voicu Gh. <sup>2)</sup> , Manea D. <sup>1)</sup> , Marin E. <sup>1)</sup> , Popa R. <sup>1)</sup> , Ţane M.C. <sup>3)</sup> , Grădiliă M. <sup>3)</sup> <sup>1)</sup> INMA Bucharest <sup>2)</sup> Universities Polytechnic Bucharest, Faculty of Biotechnical Systems Engineering / Romania; <sup>3)</sup> ICDPP Bucharest / Romania Tel: 0766420952; E-mail: <a href="mailto:costinmircea@yahoo.com">costinmircea@yahoo.com</a>	15 <sup>30</sup> -15 <sup>33</sup>
<b>FUNCTIONAL INGREDIENTS WITH HYPOGLYCAEMIC ACTIVITY OBTAINED FROM FRUITS AND LEAVES OF Momordica charantia L. / INGREDIENTE FUNCŢIONALE CU ACTIVITATE HIPOGLICEMICĂ OBTINUTE DIN FRUCTE ŞI FRUNZE DE Momordica charantia L.</b> Onisei T. <sup>1)</sup> , Catană L. <sup>1)</sup> , Ştefănoiu H.G. <sup>2)</sup> , Nedelcu C. <sup>2)</sup> , Mustătea G. <sup>1)</sup> <sup>1)</sup> INCDBA-IBA Bucharest / Romania; <sup>2)</sup> SC Petrocart SA Piatra Neamt / Romani E-mail: <a href="mailto:tatianaonisei@yahoo.com">tatianaonisei@yahoo.com</a>	10 <sup>55</sup> -11 <sup>05</sup>	<b>CONSIDERATIONS ON THE TECHNICAL EQUIPMENT USED IN PROCESSING AGRICULTURAL COMPOST / CONSIDERAŢII PRIVIND ECHIPAMENTELE TEHNICE UTILIZATE LA PROCESAREA COMPOSTULUI DIN AGRICULTURĂ</b> Păun A., Stroescu Gh, Marin E., Găgeanu I., Olan M., Bogdanof G., Epure M. INMA Bucharest / Romania E-mail: <a href="mailto:ani_paun@yahoo.com">ani_paun@yahoo.com</a>	15 <sup>33</sup> -15 <sup>36</sup>
<b>TECHNOLOGY FOR FROZEN SEA-BUCKTHORN FRUIT CONDITIONING / TEHNOLOGIE DE CONDIŢIONARE A FRUCTELOR DE CĂTINĂ ÎN STARE CONGELATĂ</b> Milea D., Vişan A. L., Ciupercă R., Păun A., Bogdanof C. G. INMA Bucharest / Romania E-mail: <a href="mailto:milea_dumitru57@yahoo.com">milea_dumitru57@yahoo.com</a>	11 <sup>05</sup> -11 <sup>15</sup>	<b>ADAPTIVE CYBER-PHYSICAL SYSTEM OF THE MILK PRODUCTION PROCESS / АДАПТИВНА КІБЕР-ФІЗИЧНА СИСТЕМА ПРОЦЕСУ ВИРОБНИЦТВА МОЛОКА</b> Dmytriv V.T. <sup>1)</sup> , Dmytriv I.V. <sup>1)</sup> , Horodetsky I.M. <sup>2)</sup> , Yatsunskyi P.P. <sup>1)</sup> <sup>1)</sup> Lviv Polytechnic National University, Institute of Engineering Mechanics and Transport, Lviv / Ukraine <sup>2)</sup> Lviv National Agrarian University, Faculty of Mechanic and Power Engineering, Lviv-Dubliany / Ukraine E-mail: <a href="mailto:Dmytriv_V@ukr.net">Dmytriv_V@ukr.net</a>	15 <sup>36</sup> -15 <sup>39</sup>
<b>EFFECTS OF THE USE OF LED LIGHTING IN GREENHOUSES / EFECTELE UTILIZĂRII ILUMINATULUI CU LED-URI ÎN SERE</b> Petre A.A. <sup>*1)</sup> , Vanghele N.A. <sup>*1)</sup> , Grigore A.I. <sup>*1)</sup> Mihalache B.D. <sup>*1)</sup> , Matache A. <sup>*1)</sup> , Fătu V. <sup>2)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> ICDPP Bucharest / Romania Tel: 0212693259; E-mail: <a href="mailto:ancapetre28@gmail.com">ancapetre28@gmail.com</a>	11 <sup>15</sup> -11 <sup>25</sup>	<b>DETERMINATION OF VITAMIN B12 CONTENT IN DROMEDARY SERUM IN ALGERIA / DETERMINATION DE LA TENEUR DE LA VITAMINE B12 DANS LE SERUM DU DROMADAIRE EN ALGERIE</b> Sahraoui N. <sup>*1)</sup> , Bouabdallah R.H. <sup>1)</sup> , Belhousse M.Y. <sup>1)</sup> , Vet. Ait Issad N. <sup>1)</sup> , Fertoul A. <sup>1)</sup> , Boukert R. <sup>1)</sup> , Moula N. <sup>2)</sup> , Hornick J.L. <sup>2)</sup> <sup>1)</sup> University of Blida, Veterinary institute, Algeria; <sup>2)</sup> University of Liege, Belgium Tel: +213 772 393 243; E-mail: <a href="mailto:nasahraoui@gmail.com">nasahraoui@gmail.com</a>	15 <sup>39</sup> -15 <sup>42</sup>
<b>THE EFFECT OF DIFFERENT FRUIT POWDERS ON THE DOUGH RHEOLOGY / EFECTUL DIFERITELOR PULBERI DE FRUCTE ASUPRA REOLOGIEI ALUATULUI</b> Culeţu A.* <sup>1)</sup> , Susman I., Schimbator M., Duţă D.E. National Institute of Research and Development for Food Bioresources, IBA Bucharest, Bucharest, Romania; E-mail: <a href="mailto:alina.culetu@bioresurse.ro">alina.culetu@bioresurse.ro</a> ; <a href="mailto:alinaculetu@gmail.com">alinaculetu@gmail.com</a>	11 <sup>25</sup> -11 <sup>35</sup>	<b>EFFECT OF AGE AND RACE ON MAIN MINERALS CONTENTS IN DROMEDARY MEAT IN ALGERIA / EFFET DE L'AGE ET DE LA RACE SUR LA TENEURDES PRINCIPAUX MINERAUX DANS LA VIANDE DU DROMADAIRE EN ALGERIE</b> Sahraoui N. <sup>*1)</sup> , Moula N. <sup>2)</sup> , Hornick N. <sup>2)</sup> <sup>1)</sup> University of Blida, Veterinary institute, Algeria; <sup>2)</sup> University of Liege, Belgium E-mail: <a href="mailto:nasahraoui@gmail.com">nasahraoui@gmail.com</a>	15 <sup>42</sup> -15 <sup>45</sup>
<b>USE OF NI LABVIEW AND DAQ SOLUTION FOR CONTROLLING THE VACUUM LEVEL IN A MECHANICAL MILKING MACHINE / UTILIZAREA LABVIEW ŞI A ACHIZIŢIEI DE DATE PENTRU CONTROLUL VACUUMULUI LA O INSTALAŢIE MECANICĂ DE MULS</b> Roşca R.* <sup>1)</sup> , Cârlescu P., Ţenu I. University of Agricultural Sciences and Veterinary Medicine "Ion Ionescu de la Brad" Iaşi, Faculty of Agriculture/ Romania Tel: 0744436751; E-mail: <a href="mailto:rosca@uaiaasi.ro">rosca@uaiaasi.ro</a>	11 <sup>35</sup> -11 <sup>45</sup>	<b>THE STUDY ON THE INFLUENCE OF THE FROUDE CRITERION AND OF THE THERMAL REGIME ON THE QUALITY OF THE GRANULAR PRODUCTS FROZEN BY FLUIDIZATION / STUDIUL PRIVIND INFLUENŢA CRITERIULUI FROUDE ŞI A REGIMULUI TERMIC ASUPRA CALITĂŢII PRODUSELOR GRANULARE CONGELATE PRIN FLUIDIZARE</b> Chirilă M-G. Liceul Tehnologic "Simion Mehedinţi" Galaţi / Romania Tel: 0753039477; E-mail: <a href="mailto:chrl_mihaela@yahoo.co.uk">chrl_mihaela@yahoo.co.uk</a>	15 <sup>45</sup> -15 <sup>48</sup>
<b>USING NMR SPECTROMETRY AS A FAST APPROACH FOR CHARACTERIZING ECOLOGICAL VEGETABLE OILS WITH NUTRITIONAL BENEFITS / UTILIZAREA SPECTROMETRIEI RMN ÎN ANALIZA ULEIURILOR VEGETALE ECOLOGICE CU BENEFICIU NUTRIŢIONAL</b> Utoiu C. <sup>1)</sup> , Serbancea F. <sup>1)</sup> , Mateescu C. <sup>1)</sup> , Popescu C. <sup>2)</sup> , Dune A. <sup>2)</sup> , Manolache F. <sup>1)</sup> , Ionescu V. <sup>1)</sup> <sup>1)</sup> INCDBA IBA Bucharest / Romania; <sup>2)</sup> SC Hofigal Export Import SA Bucharest / Romania Tel: 0744663598; E-mail: <a href="mailto:claudiu.utoiu@bioresurse.ro">claudiu.utoiu@bioresurse.ro</a>	11 <sup>45</sup> -11 <sup>55</sup>	<b>BIOLOGICAL CONTROL OF FIRE BLIGHT / COMBATEREA BIOLOGICĂ A FOCULUI BACTERIAN</b> Fendrihan S. <sup>*1,2)</sup> , Lixandru M. <sup>1)</sup> , Bîrsan M. <sup>3)</sup> <sup>1)</sup> RIPP Bucharest / Romania; <sup>2)</sup> Western University" Vasile Goldiș", Arad Romania; <sup>3)</sup> INMA Bucharest / Romania Tel: 0720134916; E-mail: <a href="mailto:ecologos23@yahoo.com">ecologos23@yahoo.com</a>	15 <sup>48</sup> -15 <sup>51</sup>
<b>ARMORACIA RUSTICANA – PLANT-BASED PRODUCT FOR IMPROVING OR COMBATING RHEUMATIC DISEASES / ARMORACIA RUSTICANA - PRODUS NATURIST ÎN AMELIORAREA SAU COMBATEREA AFECŢIUNILOR REUMATISMALE</b> Tănăsie Şt.E. University of Medicine and Pharmacy of Craiova / Romania Mobile: +40768 958 878, E-mail: <a href="mailto:eliza_tanasie@yahoo.com">eliza_tanasie@yahoo.com</a>	11 <sup>55</sup> -12 <sup>05</sup>	<b>CEREAL SEED PROCESSING USING THE UNIVERSAL DOUBLE ROLLER TO OBTAIN HIGH QUALITY FOODSTUFFS / PROCESAREA SEMINTELOR DE CEREALE CU AJUTORUL VALŢULUI DUBLU UNIVERSAL ÎN SCOPUL OBTINERII UNOR PRODUSE ALIMENTARE DE ÎNALTĂ CALITATE</b> Bunduchi G., Găgeanu P., Păun A., Olan M., Zaica A., Epure M. INMA Bucureşti /România Tel: 0722527963; E-mail: <a href="mailto:georgebund@yahoo.com">georgebund@yahoo.com</a>	15 <sup>51</sup> -15 <sup>54</sup>
<b>STUDIES AND RESEARCH ON THE PHYSICO-CHEMICAL AND GRANULOMETRIC PROPERTIES OF THE SOILS IN THE AREA WHERE THE HORSERADISH (ARMORACIA RUSTICANA) WAS HARVESTED / STUDII ŞI CERCETĂRI PRIVIND PROPRIETĂŢILE FIZICO-CHIMICE ŞI GRANULOMETRICE PENTRU SOLURILOR DIN ZONA DE UNDE S-A RECOLTAT HREANUL (ARMORACIA RUSTICANA)</b> Tănăsie Şt.E. University of Medicine and Pharmacy of Craiova / Romania Mobile: +40768 958 878, E-mail: <a href="mailto:eliza_tanasie@yahoo.com">eliza_tanasie@yahoo.com</a>	12 <sup>05</sup> -12 <sup>15</sup>	<b>CONSIDERATIONS ON THE USE AND EVOLUTION OF LABELING EQUIPMENT IN THE FOOD INDUSTRY / CONSIDERATII PRIVIND UTILIZAREA SI EVOLUTIA ECHIPAMENTELOR PENTRU ETICHETARE IN INDUSTRIA ALIMENTARA</b> Grigore I., Mario C., Vladutoiu L.C.* <sup>1)</sup> , Grigore A.I., Dumitru I., Iuga D.D. INMA Bucharest / Romania Tel: 0721505338; E-mail: <a href="mailto:ionica_grigore2001@yahoo.com">ionica_grigore2001@yahoo.com</a>	15 <sup>54</sup> -15 <sup>57</sup>

**12<sup>15</sup>-12<sup>30</sup>: Coffee break**

<p><b>RESEARCH REGARDING THE ACHIEVEMENT OF SOURDOUGH ENRICHED IN PHENOLIC COMPOUNDS AND INULIN, USING FLOUR FROM JERUSALEM ARTICHOKE TUBERS (<i>HELIANTHUS TUBEROSUS</i>) / CERCETĂRI PRIVIND REALIZAREA MAIEI NATURALE ÎMBOGĂȚITE ÎN COMPUSI FENOLICI ȘI INULINĂ, UTILIZÂND FĂINA OBTINUTĂ DIN TUBERCULI DE TOPINAMBUR (<i>HELIANTHUS TUBEROSUS</i>)</b> Burnete A-G, Lazăr A-M, Catană M., Catană L., Stamatie G., Teodorescu R.I., Belc N., Vlăduț V. <sup>1</sup>IBA Bucharest; <sup>2</sup>INMA Bucharest / Romania E-mail: <a href="mailto:mcatana1965@gmail.com">mcatana1965@gmail.com</a></p>	12 <sup>30</sup> -12 <sup>40</sup>	<p><b>RESEARCH REGARDING THE BIOMASS YIELD ON A VARIETY OF SWEET SORGHUM HYBRIDS CULTIVATED IN THE CARACAL PLAIN / CERCETĂRI PRIVIND PRODUCȚIA DE BIOMASĂ LA UN SORTIMENT DE HIBRIZI DE SORG ZAHARAT CULTIVAT ÎN CÂMPA CARACALULUI</b> Matei Gh.<sup>1</sup>, Vlăduț V.N.<sup>2</sup>, Medelete D.<sup>1</sup>, Pânzaru R.L.<sup>1</sup>, Isticioaia S.<sup>3</sup>, Apostol L.<sup>4</sup> <sup>1</sup>University of Craiova, Faculty of Agronomy / Romania; <sup>2</sup>INMA Bucharest/Romania; <sup>3</sup>ARDS Secuieni/Romania; <sup>4</sup>IBA Bucharest/Romania E-mail: <a href="mailto:matei.gheorghe@gmail.com">matei.gheorghe@gmail.com</a></p>	15 <sup>57</sup> -16 <sup>00</sup>
<p><b>ENRICHMENT OF PASTA WITH FUNCTIONAL INGREDIENTS OBTAINED FROM VEGETABLE WASTE AND BY-PRODUCTS, IN ORDER TO INCREASE THE NUTRITIONAL AND ANTIOXIDANT POTENTIAL / FORTIFIEREA PASTELOR FĂINOASE CU INGREDIENTE FUNCȚIONALE OBTINUTE DIN DEȘEURI ȘI SUBPRODUSE VEGETALE, ÎN SCOPUL CREȘTERII VALORII NUTRITIONALE ȘI A POTENȚIALULUI ANTIOXIDANT</b> Lazăr A-M.<sup>1</sup>, Burnete A-G.<sup>1</sup>, Catană M.<sup>1</sup>, Catană L.<sup>1</sup>, Stamatie G.<sup>1</sup>, Teodorescu R.I.<sup>1</sup>, Belc N., Vlăduț V.<sup>2</sup> <sup>1</sup>IBA Bucharest / Romania; <sup>2</sup>INMA Bucharest / Romania E-mail: <a href="mailto:lumi_catana@yahoo.co.uk">lumi_catana@yahoo.co.uk</a></p>	12 <sup>40</sup> -12 <sup>50</sup>	<p><b>INTRODUCTION IN AGRICULTURAL CULTURES OF VARIETIES AND HYBRIDS OF DROUGHT-RESISTANT SEEDS CULTIVATED ON SANDY SOILS / INTRODUCEREA ÎN CULTURILE AGRICOLE DE SOIURI ȘI HIBRIZI DE SEMINȚE REZISTENTE LA SECETĂ CULTIVATE PE SOLURI NISIPOASE</b> Pandia O.<sup>1</sup>, Sărăcin I.<sup>2</sup>, Olaru L.<sup>2</sup> <sup>1</sup>University of Agronomic Sciences and Veterinary Medicine Bucharest; <sup>2</sup>University of Craiova, Faculty of Agriculture, Mobile: +40745 762 957, E-mail: <a href="mailto:olimpia_pandia@yahoo.com">olimpia_pandia@yahoo.com</a></p>	16 <sup>00</sup> -16 <sup>05</sup>
<p><b>PRELIMINARY RESULTS REGARDING CLASSICAL AND INNOVATIVE DEHYDRATION METHODS OF ORGANIC BLACK CHOKEBERRIES (<i>ARONIA MELANOCARPA L.</i>) / REZULTATE PRELIMINARE PRIVIND METODELE DE DEHIDRATARE CLASICĂ ȘI INNOVATIVĂ ALE FRUCTELOR DE ARONIA ORGANICE (<i>ARONIA MELANOCARPA L.</i>)</b> Singh (Toma) M., Popescu S., Moise D. C.D.I.M.P.H. – Horting / Romania E-mail: <a href="mailto:mtoma.horticulture@gmail.com">mtoma.horticulture@gmail.com</a></p>	12 <sup>50</sup> -13 <sup>00</sup>	<p><b>LOGISTICS OF BEEKEEPING FARMS IN RUSE REGION / ЛОГИСТИКА НА ПЧЕЛАРСКИТЕ СТОПАНСТВА ОТ ОБЛАСТ РУСЕ</b> Lyubenov L.<sup>1</sup>, Atanasov A.<sup>2</sup>, Hristakov I.<sup>3</sup> <sup>1</sup>Department of Economics, University of Ruse "Angel Kanchev" Ruse University "Angel Kanchev", <sup>2,3</sup> Department of Agricultural Machinery, University of Rouse "Angel Kanchev" E-mail: <a href="mailto:Llyubenov@uni-ruse.bg">Llyubenov@uni-ruse.bg</a></p>	16 <sup>05</sup> -16 <sup>10</sup>
<p><b>BIODEGRADABLE AGAR-AGAR FOILS WITH POSSIBLE USES IN AGRICULTURE. OBTAINING AND CHARACTERIZATION / FOLII BIODEGRADABILE DIN AGAR-AGAR CU POSIBILE UTILIZARI IN AGRICULTURA. OBTINERE SI CARACTERIZARE</b> Popescu G.L.<sup>1</sup>*, Filip N.<sup>1</sup>, Dudescu M.C.<sup>1</sup>, Popescu V.<sup>2</sup>, <sup>1</sup> Technical University of Cluj-Napoca, Faculty of Automotive, Mechatronics and Mechanical Engineering/ Romania; <sup>2</sup> Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering/ Romania Tel: 0743174196; E-mail: <a href="mailto:georgepopescu60@gmail.com">georgepopescu60@gmail.com</a></p>	13 <sup>00</sup> -13 <sup>10</sup>	<p><b>DIFFERENT ASPECTS REGARDING THE DEHYDRATION OF "YELLOW SUPERIOR" SWEET PEPPER CULTIVAR, ORGANICALLY GROWN / ASPECTE PRIVIND DESHIDRATAREA SOIULUI DE ARDEI GRAS GALBEN SUPERIOR PROVENIT DIN CULTURA ECOLOGICĂ</b> Titîșină M., Popescu S., Moise D. I.C.D.I.M.P.H. Horting / Romania E-mail: <a href="mailto:myrelush_myrela20@yahoo.com">myrelush_myrela20@yahoo.com</a></p>	16 <sup>10</sup> -16 <sup>15</sup>
<p><b>INNOVATIVE TECHNOLOGIES FOR DRYING FRUITS AND VEGETABLES / TEHNOLOGII INOVATIVE DE USCARE A FRUCTELOR ȘI LEGUMELOR</b> Muscalu A. T.<sup>1</sup>, Marin E.<sup>1</sup>, Petre A.<sup>1</sup>, Vanghele N.<sup>1</sup>, Voicu C. F.<sup>2</sup>, Țane C.M.<sup>3</sup> <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>SC CALORIS GROUP SA Bucharest / Romania; <sup>3</sup>ICDPP Bucharest / Romania Tel: 0726234242; E-mail: <a href="mailto:amuscalis@yahoo.com">amuscalis@yahoo.com</a></p>	13 <sup>10</sup> -13 <sup>20</sup>	<p><b>EMERGING CONTAMINANTS IN WASTEWATER / CONTAMINANȚI EMERGENȚI ÎN APELE UZATE</b> Ungureanu N.<sup>1</sup>*, Vlăduț V.<sup>2</sup>, Birriș S.Șt.<sup>1</sup> <sup>1</sup>University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering, Romania; <sup>2</sup>INMA Bucharest, Romania Phone: 0724086492 / E-mail: <a href="mailto:nicoletaung@yahoo.com">nicoletaung@yahoo.com</a></p>	16 <sup>15</sup> -16 <sup>20</sup>
<p><b>ES METHOD – A NEW HYBRID WITH GOOD RESULTS CULTIVATED IN ROMANAȚIULUI PLAIN / ES METHOD – UN HIBRID NOU CU REZULTATE BUNE CULTIVAT ÎN CÂMPIA ROMANAȚIULUI</b> Olaru L.<sup>1</sup>*, Sărăcin I.<sup>1</sup>, Pandia O.<sup>2</sup> <sup>1</sup>University of Craiova, Faculty of Agriculture; <sup>2</sup>University of Agronomic Sciences and Veterinary Medicine Bucharest Mobile: +40741 272 138, E-mail: <a href="mailto:liviu.olaru.dtas@gmail.com">liviu.olaru.dtas@gmail.com</a></p>	13 <sup>20</sup> -13 <sup>30</sup>	<p><b>ASPECTS REGARDING THE OBTAINING AND USE OF VOLATILE OILS FROM MEDICINAL AND AROMATIC PLANTS / ASPECTE PRIVIND OBTINEREA ȘI UTILIZAREA ULEIURIOR VOLATILE DIN PLANTE MEDICINALE ȘI AROMATICE</b> Sorica C.<sup>1</sup>*, Voicu C.<sup>2</sup>, Voicea I.<sup>1</sup>, Muscalu A.<sup>1</sup>, Grigore I.<sup>1</sup>, Sorica E.<sup>1</sup>, Vladutoiu L.<sup>1</sup>, Cristea M.<sup>1</sup>*, Grigore A.I.<sup>1</sup>, <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>ECOPROIECT S.R.L. / Romania Tel: 0728045004; E-mail: <a href="mailto:cri_sor2002@yahoo.com">cri_sor2002@yahoo.com</a></p>	16 <sup>20</sup> -16 <sup>25</sup>
<p><b>HEALTHY FOOD – OBTAINED THROUGH INNOVATIVE TECHNOLOGIES / ALIMENTE SANOGENE – REALIZATE PRIN TEHNOLOGII INOVATIVE PERFORMANTE</b> Săvescu P.<sup>1</sup>*, Bădescu G.<sup>1</sup>*, Miluț M.<sup>1</sup>*, Ciobanu A.<sup>1</sup>, Apostol L.<sup>2</sup>, Vlăduț V.<sup>3</sup> <sup>1</sup> University of Craiova, Faculty of Agronomy / Romania; <sup>2</sup>IBA Bucharest; <sup>3</sup>INMA Bucharest / Romania Tel : 0757014088 ; E-mail : <a href="mailto:psavescu@gmail.com">psavescu@gmail.com</a></p>	13 <sup>30</sup> -13 <sup>40</sup>	<p><b>RESEARCH ON FERTIRIGATION IMPLICATIONS ON GRAIN SORGHUM CULTIVATED UNDER THERMOHYDRIC STRESS CONDITIONS / CERCETĂRI PRIVIND IMPLICAȚIILE FERTIRIGĂRII ASUPRA SORGULUI PENTRU BOABE CULTIVAT ÎN CONDIȚII DE STRES TERMOHIDRIC</b> Drăghici I., Drăghici R., Constantinescu M., Croitoru M., Stoica M.M., Paraschiv A.N., Băjenaru M.F. SCDCPN Dăbuleni / Romania E-mail: <a href="mailto:luliandrighici54@yahoo.com">luliandrighici54@yahoo.com</a></p>	16 <sup>25</sup> -16 <sup>30</sup>
<p><b>CONSIDERATIONS ON PASTEURIZATION AND STERILIZATION OF BIOPRODUCTS USING A VERTICAL AUTOCLAVE / CONSIDERAȚII PRIVIND PASTEURIZAREA ȘI ȘTERILIZAREA BIOPRODUSELOR UTILIZÂND O AUTOCLAVĂ VERTICALĂ</b> Milea D.<sup>1</sup>*, Voicu C.<sup>2</sup>, Marin E.<sup>1</sup>*, Ciupercă R.<sup>1</sup>, Vișan Al. L.<sup>1</sup> <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>TEHNIC ECO CDI SRL Bucharest / Romania E-mail: <a href="mailto:milea_dumitru57@yahoo.com">milea_dumitru57@yahoo.com</a></p>	13 <sup>40</sup> -13 <sup>50</sup>	<p><b>DRYING OF FRUITS AND VEGETABLES, AN EFFICIENT METHOD OF CONSERVATION / USCAREA FRUCTELOR ȘI LEGUMELOR, O METODĂ EFICIENTĂ DE CONSERVARE</b> Laza E-A.<sup>1</sup>*, Caba I.<sup>1</sup>*, Vlăduț V.<sup>1</sup>*, Dudoiu R.<sup>2</sup>, Isticioaia S.<sup>3</sup>, Popa D.<sup>3</sup> <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>ICDPP Bucharest / Romania; <sup>3</sup>SCDA Secuieni / Romania Tel:0256.499.336; E-mail: <a href="mailto:eveline_anda@yahoo.com">eveline_anda@yahoo.com</a></p>	16 <sup>30</sup> -16 <sup>33</sup>
<p><b>GRAIN PRODUCTION IS INFLUENCED BY FOLIAGE SURFACE INDEX / PRODUCȚIA CEREALELOR ESTE INFLUENȚATĂ DE INDICELE SUPRAFETEI FOLIARE</b> Pandia O.<sup>1</sup>*, Sărăcin I.<sup>2</sup>, Olaru L.<sup>2</sup> <sup>1</sup>University of Agronomic Sciences and Veterinary Medicine Bucharest; <sup>2</sup>University of Craiova, Faculty of Agriculture Mobile:+40745 762 957, E-mail: <a href="mailto:olimpia_pandia@yahoo.com">olimpia_pandia@yahoo.com</a></p>	13 <sup>50</sup> -13 <sup>55</sup>		16 <sup>33</sup> -16 <sup>37</sup>

14<sup>00</sup>-15<sup>30</sup>: Lunch

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<b>SECTION 1 - POWER AND MACHINERY - POSTER PRESENTATION</b>		<b>SECTION 2 - ECOLOGY &amp; ENVIRONMENT - POSTER PRESENTATION</b>	
<b>Chairman:</b> MATACHE Mihai / MAICAN Edmond (1st floor Hall – INMA Bucharest)		<b>Chairman:</b> MATEI Gheorghe / VOICEA Iulian (1st floor Hall – INMA Bucharest)	
<b>VEGETATION INDICES OF AGRICULTURAL CROPS / INDICI DE VEGETAȚIE AI CULTURILOR AGRICOLE</b> Cujbescu D. <sup>1)</sup> , Persu C. <sup>1)</sup> , Găgeanu I. <sup>1)</sup> , Gheorghe G. <sup>1)</sup> , Matache M. <sup>1)</sup> , Savin L. <sup>2)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> University of Novi Sad / Serbia Tel: 0212693255; E-mail: <a href="mailto:dcujbescu@yahoo.com">dcujbescu@yahoo.com</a>	15 <sup>30</sup> -15 <sup>35</sup>	<b>RESEARCHES ON THE CALORIFIC ANALYSIS OF RESINOUS WOOD BIOMASS / CERCETĂRI PRIVIND ANALIZA CALORICĂ A BIOMASEI LEMNOASE DE RĂȘINOASE</b> Spirchez C., Lunguleasa A., Gaceu L. Transilvania University of Braşov / Romania E-mail: <a href="mailto:cosmin.spirchez@unitbv.ro">cosmin.spirchez@unitbv.ro</a>	15 <sup>30</sup> -15 <sup>35</sup>
<b>TENDENCIES REGARDING USAGE OF INTELLIGENT ALGORITHM OF IMAGE RECOGNITION WITHIN AGRICULTURAL CROP MAINTENANCE WORKS / TENDINTE PRIVIND FOLOSIREA ALGORITMILOR INTELIGENȚI DE RECUNOAȘTERE A IMAGINILOR ÎN CADRUL LUCRĂRILOR DE ÎNȚEȚINERE A CULTURILOR AGRICOLE</b> Matache A. <sup>1)</sup> , Gheorghe G. <sup>1)</sup> , Vanghele N.A. <sup>1)</sup> , Petre A.A. <sup>1)</sup> , Selvi C.C. <sup>2)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Ondokuz Mayıs University / Turkey E-mail: <a href="mailto:andmatache@yahoo.com">andmatache@yahoo.com</a>	15 <sup>35</sup> -15 <sup>40</sup>	<b>QUALITY ASSURANCE ISSUES OF HIGH-KERATIN-CONTENT SLAUGHTERHOUSE BY- PRODUCT PROCESSING / A NAGYKERATIN-TARTALOM SZLÁGER HÁZTARTÁSI HÁZTARTÁSI FELDOLGOZÁSOK MINŐSÉGI BIZTOSÍTÁSI KÉRDÉSEI</b> Csiba A. <sup>1)</sup> , Gyoker E. <sup>2)</sup> <sup>1)</sup> University of Szeged, Faculty of Agricultural / Hungary; <sup>2)</sup> Pharmagene-Farm Ltd., Biotechnical Station / Hungary Tel: +36/20/433-46-73, E-mail: <a href="mailto:csatina@gmail.com">csatina@gmail.com</a>	15 <sup>35</sup> -15 <sup>40</sup>
<b>EXPERIMENTAL RESEARCH WITH FORAGE HARVESTER FOR ENSILAGE / CERCETĂRI EXPERIMENTALE CU COMBINA DE RECOLTAT FURAJE ÎN VEDEREA ÎNSILOZĂRII</b> Nedelcu A. <sup>1)</sup> , Popa D.L. <sup>2)</sup> , Ciuperca R. <sup>1)</sup> , Popa L. <sup>1)</sup> , Zaica A. <sup>1)</sup> , Zaica Al. <sup>1)</sup> , Stefan V. <sup>1)</sup> , Milea D. <sup>1)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> SCDA Secuieni/Romania Tel: 0740883936; E-mail: <a href="mailto:nedelcu.ancuta@yahoo.com">nedelcu.ancuta@yahoo.com</a>	15 <sup>40</sup> -15 <sup>45</sup>	<b>INSTALLATION FOR THE USE OF WASTE WATER FROM SMALL AGROZOOTECNICAL FARMS / INSTALAȚIE PENTRU VALORIFICAREA APEI UZATE DIN FERMELE AGROZOOTECNICE MICI</b> Voicea I. <sup>1)</sup> , Moga I.C. <sup>2)</sup> , Marin E. <sup>1)</sup> , Găgeanu I. <sup>1)</sup> , Petrescu G. <sup>2)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> DFR Systems / Romania Tel: 0752161780; E-mail: <a href="mailto:voicea_iulian@yahoo.com">voicea_iulian@yahoo.com</a>	15 <sup>40</sup> -15 <sup>45</sup>
<b>ENERGY WILLOW, SALIX VIMINALIS, IMPORTANT SOURCE OF BIOMASS. DETERMINING THE OPTIMAL CHOPPING REGIME FOR DISC TYPE CUTTERS / SALCIA ENERGETICĂ, SALIX VIMINALIS, SURSĂ IMPORTANTĂ DE BIOMASĂ DETERMINAREA REGIMULUI OPTIM DE TOCARE LA APARATELE TIP DISC</b> Găgeanu P., Găgeanu I. <sup>*</sup> , Milea D. INMA Bucharest / Romania E-mail: <a href="mailto:iulia.gageanu@gmail.com">iulia.gageanu@gmail.com</a>	15 <sup>45</sup> -15 <sup>50</sup>	<b>RESEARCHES REGARDING THE PROCESSING OF SUGAR BEET PULPE TO OBTAIN ANIMAL FEED / CERCETĂRI PRIVIND PRELUCRAREA PULPEI DE SFECLĂ DE ZAHĂR ÎN VEDEREA OBȚINERII FURAJELOR</b> Nagy E.M. <sup>1)</sup> , Cota C. <sup>1)</sup> , Cioica N. <sup>1)</sup> , Gyorgy Z. <sup>1)</sup> , Fehete-Tutunaru L. <sup>2)</sup> , Deac T. <sup>2)</sup> , <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> Technical University of Cluj Napoca, Mechanical Faculty Tel: 0748165302; E-mail: <a href="mailto:nagy_m2002@yahoo.co.uk">nagy_m2002@yahoo.co.uk</a>	15 <sup>45</sup> -15 <sup>50</sup>
<b>CONSIDERATIONS ON NEW FRUIT-GROWING PRODUCTS, PRACTICES AND TECHNOLOGIES WITH POTENTIAL TO BE INTRODUCED ON THE ROMANIAN MARKET / CONSIDERAȚII PRIVIND NOI PRODUSE, PRACTICI ȘI TEHNOLOGII POMICOLE CU POTENTIAL DE A FI INTRODUSE PE PIATA DIN ROMÂNIA</b> Cristea O.-D., Coman. M., Muraru S., Muraru-Ionel C., Muraru V., Marin E., Popescu M. IND-AGRO-POL competitiveness pole / Romania (Building INMA-ITA), Tel. +40742226193; Email: <a href="mailto:indagropol1@gmail.com">indagropol1@gmail.com</a> ; <a href="mailto:comelia.muraru.ionel@gmail.com">comelia.muraru.ionel@gmail.com</a>	15 <sup>50</sup> -15 <sup>55</sup>	<b>BACTERIAL INOCULANTS WITH BENEFICIAL EFFECTS ON TOMATO SEEDLINGS / INOCULANȚI BACTERIENI CU EFECT BENEFIC ASUPRA RĂSADURILOR DE TOMATE</b> Boiu-Sicuia O.A. <sup>1,2)</sup> , Barbu L. <sup>1,2)</sup> , Dinu S. <sup>1)</sup> , Pruteanu A. <sup>3)</sup> <sup>1)</sup> Research-Development Institute for Plant Protection Bucharest / Romania; <sup>2)</sup> University of Agronomic Sciences and Veterinary Medicine in Bucharest, Faculty of Biotechnology / Romania; <sup>3)</sup> INMA Bucharest / Romania Tel: 0720789435; E-mail: <a href="mailto:sicuia_oana@yahoo.com">sicuia_oana@yahoo.com</a>	15 <sup>50</sup> -15 <sup>55</sup>
<b>TECHNOLOGICAL SYSTEM FOR FISH INTENSIVE BREEDING IN POLYCULTURE SYSTEM AND THE COMPLEX USE OF AQUATIC BIORESOURCES (PLANTS) / SISTEM TEHNOLOGIC DE CREȘTERE INTENSIVĂ A PEȘTELOR ÎN SISTEM DE POLICULTURĂ ȘI VALORIFICAREA COMPLEXĂ A BIORESURSELOR (PLANTELOR) ACVATICE</b> Voicea I. <sup>1)</sup> , Moga I.C. <sup>2)</sup> , Dumitru D.N. <sup>1)</sup> , Persu C. <sup>1)</sup> , Neagoe M. <sup>1)</sup> , Pruteanu A. <sup>1)</sup> , Arsenoia V.N. <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> DFR Systems / Romania; <sup>3)</sup> USAMV Iasi / Romania Tel: 0752161780; E-mail: <a href="mailto:voicea_iulian@yahoo.com">voicea_iulian@yahoo.com</a>	15 <sup>55</sup> -16 <sup>00</sup>	<b>METHODS TO USE THE ENTOMOPATHOGENIC FUNGI AS BIO-INOCULANTS OF PHYTOSANITARY INTEREST / METODE DE VALORIFICARE A FUNGILOR ENTOMOPATOGENI CA BIOINOCULANȚI MICROBIENI DE INTERES FITOSANITAR</b> Țane M.C. <sup>1,2)</sup> , Cojanu D. <sup>1,2)</sup> , Fătu A.C. <sup>1)</sup> , Andrei A.M. <sup>1)</sup> , Marin E. <sup>3)</sup> , Mircea C. <sup>3)</sup> <sup>1)</sup> RDIPP Bucharest / Romania; <sup>2)</sup> UASVM Bucharest, Faculty of Agriculture / Romania; <sup>3)</sup> INMA Bucharest / Romania Tel: 0786087131; E-mail: <a href="mailto:cristina.tane@icdpp.com">cristina.tane@icdpp.com</a>	15 <sup>55</sup> -16 <sup>00</sup>
<b>CONSIDERATIONS ON TECHNOLOGIES AND EQUIPMENT FOR BAMBOO CULTIVATION / CONSIDERAȚII PRIVIND TEHNOLOGIILE ȘI ECHIPAMENTELE PENTRU CULTIVAREA BAMBUSULUI</b> Cristea L., Marin E., Cristea O., Neagoe M. <sup>1)</sup> INMA Bucharest; <sup>2)</sup> INCDDTP Bucharest; <sup>3)</sup> SCDL Buzău / Romania E-mail: <a href="mailto:larisacristea91@yahoo.ro">larisacristea91@yahoo.ro</a>	16 <sup>00</sup> -16 <sup>05</sup>	<b>INNOVATIVE TECHNOLOGICAL SOLUTIONS FOR EFFICIENT BIOLOGICAL WASTEWATER TREATMENT / SOLUȚII TEHNOLOGICE INOVATIVE PENTRU EPURAREA BIOLOGICĂ A APELOR UZATE</b> Moga I.C. <sup>1)</sup> , Moraru E. <sup>2)</sup> , Donțu O.G. <sup>2)</sup> , Besnea D. <sup>2)</sup> , Doroftei B.I. <sup>1)</sup> , Isitman A. <sup>3)</sup> , Petrescu G. <sup>1)</sup> <sup>1)</sup> DFR Systems SRL / Romania; <sup>2)</sup> University "Politehnica" of Bucharest, Faculty of Mechanical and Mechatronics Engineering / Romania; <sup>3)</sup> Arges Aritma Makina / Turkey Tel: 0727850098; E-mail: <a href="mailto:corinamoga@yahoo.com">corinamoga@yahoo.com</a>	16 <sup>00</sup> -16 <sup>05</sup>
<b>CONSIDERATIONS ON THE PRECISION MOBILE IRRIGATION / CONSIDERAȚII PRIVIND IRIGAREA MOBILĂ DE PRECIZIE</b> Popescu M. <sup>1)</sup> , Manea D. <sup>1)</sup> , Popa R. <sup>1)</sup> , Popa V. <sup>1)</sup> , Manole T. <sup>2)</sup> , Jinga V. <sup>2)</sup> <sup>1)</sup> INMA Bucharest / Romania; <sup>2)</sup> ICDPP Bucharest / Romania Tel: 021.269.32.50; E-mail: <a href="mailto:manea_dragos_05@yahoo.com">manea_dragos_05@yahoo.com</a>	16 <sup>05</sup> -16 <sup>10</sup>	<b>TECHNOLOGIES FOR WASTEWATER DISINFECTION / TEHNOLOGII DE DEZINFECȚIE A APEI UZATE</b> Papa M. <sup>1)</sup> , Ungureanu N. <sup>1)</sup> , Vlăduț V. <sup>2)</sup> , Zăbavă B. <sup>1)</sup> , Biriș S.Ș. <sup>1)</sup> <sup>1)</sup> University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering, Romania; <sup>2)</sup> INMA Bucharest, Romania Phone: 0724086492 / E-mail: <a href="mailto:nicoletaung@yahoo.com">nicoletaung@yahoo.com</a>	16 <sup>05</sup> -16 <sup>10</sup>
<b>TECHNOLOGY FOR HEMP CULTIVATION AND FIBER EXTRACTION / TEHNOLOGIA DE CULTIVARE A CÂNEPII ȘI EXTRAȚIA FIBRELOR</b> Mihalache D.B., Petre A.A., Vanghele N.A. <sup>1)</sup> , Matache A. <sup>*</sup> INMA Bucharest / Romania Tel: 0212693259; E-mail: <a href="mailto:mihalache65@gmail.com">mihalache65@gmail.com</a>	16 <sup>10</sup> -16 <sup>15</sup>	<b>EUROPEAN ASH (FRAXINUS EXCELSIOR L.) STANDS IN THE SOUTHERN CARPATHIANS / ARBORETELE DE FRASIN (FRAXINUS EXCELSIOR L.) DIN CARPAȚII MERIDIONALI</b> Dincă L. <sup>1)</sup> , Constandache C. <sup>1)</sup> <sup>1)</sup> "Marin Drăcea" National Institute for Research and Development in Forestry Tel: 0724012688; E-mail: <a href="mailto:dinka.lucian@gmail.com">dinka.lucian@gmail.com</a>	16 <sup>10</sup> -16 <sup>15</sup>

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<p><b>AERODYNAMICS FOR A TRAILER ADAPTED TO ROAD TRANSPORT OF ANIMALS / AERODINAMICA PENTRU O REMORCA ADAPTATĂ TRANSPORTULUI RUTIER DE ANIMALE</b> Scurtu I.L.<sup>1)</sup>, Jurco A.N.<sup>1)</sup> <sup>1)</sup> Technical University of Cluj-Napoca, Faculty of Automotive, Mechatronics and Mechanical Engineering / Romania; Tel: 0761140448; E-mail: <a href="mailto:liviu.scurtu@auto.utcluj.ro">liviu.scurtu@auto.utcluj.ro</a></p>	16 <sup>67</sup> -17 <sup>00</sup>	<p><b>SUBMERSIBLE CLEANING SYSTEMS FOR FLOATING NURSERIES / SISTEME DE CURATARE SUBMERSIBILE A VIVIERELOR FLOTABILE</b> Ștefan V., Popa L., Alexandru I., Nedelcu A., Ciupercă R., Zaica A., Zaica A.I. INMA Bucharest / Romania E-mail: <a href="mailto:valle_vali@yahoo.com">valle_vali@yahoo.com</a></p>	16 <sup>67</sup> -17 <sup>00</sup>
<p><b>DETERMINING THE QUALITATIVE WORKING INDICES OF A DISC HARROW / DETERMINAREA INDICIILOR CALITATIVI DE LUCRU AI UNEI GRAPE CU DISCURI</b> Bolintineanu Gh., Cujbescu D., Persu C., Găgeanu I. INMA Bucharest / Romania Tel: 0723935254; E-mail: <a href="mailto:bolintineanu_gh@yahoo.com">bolintineanu_gh@yahoo.com</a></p>	17 <sup>00</sup> -17 <sup>03</sup>	<p><b>MODERN TRENDS IN THE SELECTION OF SMART EQUIPMENTS, INTENDED FOR THE APPLICATION OF PHYTOSANITARY TREATMENTS / TENDINȚE MODERNE ÎN SELECȚIA ECHIPAMENTELOR INTELIGENTE, DESTINATE APLICĂRII TRATAMENTELOR FITOSANITARE</b> Vlăduțoiu L.C.<sup>1)</sup>, Grigore A.I., Persu C., Cristea M., Grigore I., Cujbescu D., Dumitru I., Petre A.A.) INMA Bucharest / Romania Tel: 0749281500; E-mail: <a href="mailto:laurentiuvladutoiu82@gmail.com">laurentiuvladutoiu82@gmail.com</a></p>	17 <sup>00</sup> -17 <sup>03</sup>
<p><b>CONSIDERATIONS ON THE ADVANTAGES OF INCREASING THE SURFACES CULTIVATED IN ECOLOGICAL SYSTEM IN ROMANIA, COMPARED TO THE CLASSIC-INTENSIVE CULTIVATED SURFACES / CONSIDERATII PRIVIND AVANTAJELE CREȘTERII SUPRAFETELOR CULTIVATE IN SISTEM ECOLOGIC IN ROMANIA, COMPARATIV CU SUPRAFETELE CULTIVATE IN SISTEM CLASIC-INTENSIV</b> Grigore A.I. <sup>1)</sup>, Petre A.A.<sup>1)</sup>, Grigore I.<sup>1)</sup>, Vladutoiu L. <sup>1)</sup>, Cristea M. <sup>1)</sup> <sup>1)</sup>INMA Bucharest / Romania Tel: 0734319749; E-mail: <a href="mailto:igrigore44@gmail.com">igrigore44@gmail.com</a></p>	17 <sup>03</sup> -17 <sup>06</sup>	<p><b>TECHNICAL CONSIDERATIONS ON THE FLATTENING PROCESS OF CEREAL GRAINS WITH HIGH HUMIDITY FOR USE AS FORAGE / CONSIDERAȚII TEHNICE ASUPRA PROCESULUI DE APLATIZARE A CEREALELOR BOABE CU UMIDITATE RIDICATĂ ÎN VEDEREA UTILIZĂRII CA NUTREȚ</b> Zaica A.<sup>1)</sup>, Ciupercă R.<sup>1)</sup>, Nedelcu A.<sup>1)</sup>, Popa L-D.<sup>2)</sup>, Zaica Al.<sup>1)</sup>, Popa L.<sup>1)</sup>, Ștefan V.<sup>1)</sup>, Vișan A-L.<sup>1)</sup>, Teliban G.<sup>3)</sup> <sup>1)</sup> INMA Bucharest / Romania, <sup>2)</sup> S.C.D.A. Secuieni / Romania, <sup>3)</sup> University of Agricultural Sciences and Veterinary Medicine of Iasi / Romania Tel: 0728977317; E-mail: <a href="mailto:acanpeanu@yahoo.com">acanpeanu@yahoo.com</a></p>	17 <sup>03</sup> -17 <sup>06</sup>
<p><b>RESEARCHES ON THE TESTING OF HEAVY DISC HARROW WITH INTEGRATED DRIVETRAIN FOR 80 - 100 HP TRACTORS / CERCETĂRI PRIVIND ÎNCERCAREA GRAPEI CU DISCURI GREA CU TREN DE TRANSPORT INTEGRAT DESTINATĂ TRACTOARELOR DE 80 – 100 CP</b> Bolintineanu Gh. INMA Bucharest / Romania E-mail: <a href="mailto:gh_bolintineanu@yahoo.com">gh_bolintineanu@yahoo.com</a></p>	17 <sup>06</sup> -17 <sup>09</sup>	<p><b>EVALUATION OF INNOVATION MANAGEMENT IN THE AGRI-FOOD FIELD FOR SUSTAINABLE DEVELOPMENT/ EVALUAREA MANAGEMENTULUI INOVĂRII DIN DOMENIUL AGRO-ALIMENTAR PENTRU DEZVOLTARE SUSTENABILĂ</b> Dulgheru A., Muraru-Ionel C., Berevoianu B., Sfaru R., Muraru S., Cosnita D. INMA Bucharest / Romania E-mail: <a href="mailto:adulgheru2003@yahoo.com">adulgheru2003@yahoo.com</a></p>	17 <sup>06</sup> -17 <sup>09</sup>
<p><b>CONSIDERATIONS ON THE TYPES OF AUTOMATED GREENHOUSES USED WORLDWIDE - REVIEW / CONSIDERAȚII PRIVIND TIPURILE DE SERE AUTOMATIZATE UTILIZATE PE PLAN MONDIAL - REVIEW</b> Dumitru I., Persu C., Cristea M., Iuga D., Stroescu Gh., Sirbu F.D., Grigore I., Oprescu M.R. INMA Bucharest / Romania E-mail: <a href="mailto:dumitru.iulian2016@gmail.com">dumitru.iulian2016@gmail.com</a></p>	17 <sup>09</sup> -17 <sup>12</sup>	<p><b>EXPERIMENTAL RESEARCH ON THE WORK PROCESS OF THE DENTAL MILLS / CERCETĂRI EXPERIMENTALE PRIVIND PROCESUL DE LUCRU AL FREZELOR DENTARE</b> Sărăcin I.A. <sup>1</sup> Voicu Gh<sup>1</sup>, Filip I.<sup>1</sup>. University "POLITEHNICA" Bucharest / Romania, Tel: 0762 945919, E-mail: <a href="mailto:saracinalex@gmail.com">saracinalex@gmail.com</a></p>	17 <sup>09</sup> -17 <sup>12</sup>
<p><b>COMPARATIVE ANALYSIS OF THE TYPES OF MATERIALS USED IN THE CONSTRUCTION OF GREENHOUSES / ANALIZA COMPARATIVĂ A TIPURILOR DE MATERIALE FOLOSITE LA CONSTRUCȚIA SERELOR</b> Iuga D. E. <sup>1)</sup>, Bolintineanu Gh.<sup>1)</sup>, Găgeanu I.<sup>1)</sup>, Vlăduțoiu L.<sup>1)</sup>, Dumitru I.<sup>1)</sup>, Oprescu M.R.<sup>1)</sup>, Stroescu Gh.<sup>1)</sup>, Sirbu F.<sup>1)</sup> INMA Bucharest / Romania E-mail: <a href="mailto:dorin.iuga@gmail.com">dorin.iuga@gmail.com</a></p>	17 <sup>12</sup> -17 <sup>15</sup>	<p><b>FERTILIZATION ALGORITHM IN AGRICULTURE/ ALGORITM DE FERTILIZARE ÎN AGRICULTURA</b> Condruz P., Berevoianu B., Muraru V., Dulgheru A., Muraru S., Sfaru R. INMA Bucharest / Romania E-mail: <a href="mailto:paula.condruz91@gmail.com">paula.condruz91@gmail.com</a></p>	17 <sup>12</sup> -17 <sup>15</sup>

<p><b>RESEARCHES ON A DRAWBAR FUNCTIONAL MODEL TESTING IN THE LABORATORY / CERCETARI PRIVIND TESTAREA UNUI MODEL FUNCTIONAL DE BARA DE TRACTIUNE IN LABORATOR</b></p> <p>Epure M. <sup>*1</sup>, Matache A. <sup>1)</sup>, Persu C. <sup>1)</sup>, Dumitru C. <sup>1)</sup>, Păunescu C. <sup>2)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>University of Bolton / Great Britany  E-mail: <a href="mailto:mary_epure1@yahoo.com">mary_epure1@yahoo.com</a></p>	17 <sup>15</sup> -17 <sup>18</sup>	<p><b>EVALUATION OF NATURAL RESOURCES IN THE AREA OF SANDY SOILS RELATED TO THE REQUIREMENTS OF ASPARAGUS BEAN / EVALUAREA RESURSELOR NATURALE DIN ZONA SOLURILOR NISIPOASE ÎN RAPORT CU CERINȚELE PLANTELOR DE FASOLIȚĂ</b></p> <p>Drăghici R. <sup>1)</sup>, Drăghici I. <sup>1)</sup>, Diaconu A. <sup>1)</sup>, Croitoru M. <sup>1)</sup>, Matei Gh. <sup>2)</sup>, Ciurescu G. <sup>1)</sup>, Dima M. <sup>1)</sup>  <sup>1)</sup>SCDCPN Dăbuleni / Romania; <sup>2)</sup>University Craiova / Romania  E-mail: <a href="mailto:retadraghici@yahoo.com">retadraghici@yahoo.com</a></p>	17 <sup>15</sup> -17 <sup>18</sup>
<p><b>HIGH-TECH TECHNOLOGIES USED IN THE MODERN BEEKEEPING / TEHNOLOGII HIGH-TECH FOLOSITE ÎN APICULTURA MODERNĂ</b></p> <p>Constantinescu M. <sup>*1)</sup>, Vlăduț V. <sup>1)</sup>, Muscalu A. <sup>1)</sup>, Atanasov At. <sup>2)</sup>, Ivaylo H. <sup>2)</sup>, Lyubomir L. <sup>2)</sup>, Dochev V. <sup>3)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>University of Ruse / Bulgaria; <sup>3)</sup>Agricultural Institute Shumen / Bulgaria  Email: <a href="mailto:mihai_c@inma.ro">mihai_c@inma.ro</a></p>	17 <sup>21</sup> -17 <sup>24</sup>	<p><b>THE CURRENT STAGE OF THE USE OF AQUATIC PLANTS SPECIFIC TO FISH POLYCULTURE SYSTEM / STADIUL ACTUAL AL UTILIZĂRII PLANTELOR ACVATICE SPECIFICE SISTEMULUI POLICULTURA PISCICOL</b></p> <p>Neagoe M. <sup>*1)</sup>, Voicea I. <sup>1)</sup>, Pruteanu A. <sup>1)</sup>, Gageanu I. <sup>1)</sup>, Moga I.C. <sup>2)</sup>, Arsenoia V. <sup>3)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>DFR Systems / Romania; <sup>3)</sup>USAMV Iasi / Romania  Tel: 0728249572; E-mail: <a href="mailto:mikyscorpio@yahoo.com">mikyscorpio@yahoo.com</a></p>	17 <sup>21</sup> -17 <sup>24</sup>
<p><b>THE DEVELOPMENT OF AN INNOVATIVE TECHNOLOGY FOR SWEET SORGHUM CULTIVATION IN THE PEDOCLIMATIC CONDITIONS FROM THE CENTER OF MOLDOVA / DEZVOLTAREA UNEI TEHNOLOGII INOVATIVE DE CULTIVARE LA SORGUL ZAHARAT PENTRU CONDIȚIILE PEDOCLIMATICE DIN CENTRUL MOLDOVEI</b></p> <p>Isticioaia S. <sup>1)</sup>, Troțuș E. <sup>1)</sup>, Popa D. <sup>1)</sup>, Leonte A. <sup>1)</sup>, Vlăduț V. <sup>2)</sup>, Voicea I. <sup>2)</sup>, Ganea I. <sup>2)</sup>, Matei G. <sup>3)</sup>  <sup>1)</sup>Agricultural Research and Development Station Secuieni, Neamț; <sup>2)</sup>INMA Bucharest / Romania; <sup>3)</sup>University of Craiova / Romania  Tel: 0743-719.350, 0233-745.137; E-mail: <a href="mailto:simonapochi@yahoo.com">simonapochi@yahoo.com</a></p>	17 <sup>24</sup> -17 <sup>27</sup>	<p><b>INFLUENCE OF SUNFLOWER SOWING IN STRIPS, USING THE ELS4 AGGREGATE, ON THE SUNFLOWER BIODIVERSITY IN AMZACEA, CONSTANȚA COUNTY / INFLUENȚA SEMĂNĂTULUI FLORII SOARELUI ÎN BENZI CU AJUTORUL AGREGATULUI ELS4 ASUPRA BIODIVERSITĂȚII DIN CULTURA DE FLOAREA SOARELUI LA AMZACEA, JUDEȚUL CONSTANȚA</b></p> <p>Manole T. <sup>1)</sup>, Jinga V. <sup>1)</sup>, Manole D. <sup>2)</sup>, Marin E. <sup>3)</sup>, Popescu M. <sup>3)</sup>  <sup>1)</sup>Research-Development Institute for Plant Protection, Bucharest / Romania; <sup>2)</sup>S.C. Sport Agra SRL Amzacea, Constanța county / Romania; <sup>3)</sup>INMA Bucharest / Romania  E-mail: <a href="mailto:traian.manole@gmail.com">traian.manole@gmail.com</a></p>	17 <sup>24</sup> -17 <sup>27</sup>
<p><b>PERSPECTIVES OF CONSERVATIVE ALTERNATIVES IN THE TECHNOLOGY OF TOMATO CROP / PERSPECTIVELE ALTERNATIVELOR CONSERVATIVE ÎN TEHNOLOGIA CULTURII DE TOMATE</b></p> <p>Țane C.M. <sup>1,2)</sup>, Cojanu D.N. <sup>1,2)</sup>, Vasile F.I. <sup>3)</sup>, Eng. Niță A. <sup>3)</sup>, Pantazi L. <sup>3)</sup>, Muscalu A. <sup>4)</sup>  <sup>1)</sup>Research - Development Institute for Plant Protection; <sup>2)</sup>University of Agronomical Sciences and Veterinary Medicine, Faculty of Agriculture; <sup>3)</sup>Vegetable Research and Development Station Buzau; <sup>4)</sup>INMA Bucharest / Romania  Tel: +40 786087131; e-mail: <a href="mailto:tane.cristina@icdpp.ro">tane.cristina@icdpp.ro</a></p>	17 <sup>27</sup> -17 <sup>30</sup>	<p><b>RESEARCH ON THE EFFICIENCY OF FUNGICIDES AND FOLIAR FERTILIZERS IN THE CASE OF SWEET CHERRY IN DOBROGEA / CERCETĂRI PRIVIND EFICACITATEA FUNGICIDELOR ȘI A FERTIZANȚILOR FOLIARI LA CIRESȘ ÎN DOBROGEA</b></p> <p>Jalobă D. <sup>*1)</sup>, Grădiliă M. <sup>1)</sup>, Jinga V. <sup>1)</sup>, Marin E. <sup>2)</sup>  <sup>1)</sup>Research-Development Institute for Plant Protection / Bucharest / Romania; <sup>2)</sup> INMA Bucharest/Romania  Tel: 0726997649; E-mail: <a href="mailto:daniel.jaloba@icdpp.ro">daniel.jaloba@icdpp.ro</a></p>	17 <sup>27</sup> -17 <sup>30</sup>
<p><b>INNOVATIVE TECHNOLOGY FOR SUNFLOWER CROP IN THE ARID CONDITIONS OF DOBROGEA / TEHNOLOGIE INOVATIVĂ PENTRU CULTURA FLORII SOARELUI ÎN CONDIȚIILE ARIDE DIN DOBROGEA</b></p> <p>Jinga V. <sup>1)</sup>, Manole D. <sup>2)</sup>, Manole T. <sup>1)</sup>, Popescu M. <sup>3)</sup>, Marin E. <sup>3)</sup>  <sup>1)</sup>Research-Development Institute for Plant Protection Bucharest / Romania; <sup>2)</sup>S.C. Sport Agra SRL Amzacea, Constanța county / Romania; <sup>3)</sup>INMA Bucharest / Romania  Tel: + 4021-2693231; E-mail: <a href="mailto:vasilejinga23@gmail.com">vasilejinga23@gmail.com</a></p>	17 <sup>30</sup> -17 <sup>33</sup>	<p><b>INFLUENCE OF DIFFERENT ABIOTIC PARAMETERS ON ANTAGONISTIC POTENTIAL OF TRICHODERMA SPP. STRAINS AGAINST STORED GRAIN PHYTOPATHOGENS / INFLUENȚA FACTORILOR ABIOTICI ASUPRA POTENȚIALULUI ANTAGONISTIC AL UNOR TULPINI DE TRICHODERMA SPP. FAȚĂ DE PATOGENII CEREALELOR DEPOZITATE</b></p> <p>Dudoiu R. <sup>1)</sup>, Petrisor C. <sup>1)</sup>, Fatu V. <sup>1)</sup>, Lupu C. <sup>1)</sup>, Laza E. <sup>2)</sup>  Research-Development Institute for Plant Protection, Bucharest / Romania; <sup>2)</sup>INMA Bucharest / Romania  E-mail: <a href="mailto:roxana.dudoiu@icdpp.ro">roxana.dudoiu@icdpp.ro</a></p>	17 <sup>30</sup> -17 <sup>33</sup>
<p><b>CONSIDERATIONS ON THE CHARACTERIZATION OF JERUSALEM ARTICHOKE FLOUR, DEPENDING ON THE SOIL TYPE / CONSIDERAȚII PRIVIND CARACTERIZAREA FĂINEI DE TOPINAMBUR, FUNCȚIE DE TIPUL DE SOL</b></p> <p>Vlăduț V. <sup>1)</sup>, Găgeanu I. <sup>1)</sup>, Apostol L. <sup>2)</sup>, Matei Gh. <sup>3)</sup>, Popa D. <sup>4)</sup>, Isticioaia S. <sup>4)</sup>, Ungureanu N. <sup>5)</sup>, Biriș S.Șt. <sup>5)</sup>, Zelazinski T. <sup>6)</sup>, Epure M. <sup>1)</sup>, Dumitru C. <sup>1)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>IBA Bucharest / Romania; <sup>3)</sup>University Craiova / Romania; <sup>4)</sup>SCDA Secuieni / Romania; <sup>5)</sup>University "POLITEHNICA" Bucharest / Romania; <sup>6)</sup>Warsaw University of Life Sciences / Poland  E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	17 <sup>33</sup> -17 <sup>36</sup>	<p><b>INNOVATIVE ASSOCIATION OF MEDICINAL SPECIES WITH POTENTIAL FOR USE IN FOOD SUPPLEMENTS WITH IMMUNOMODULATORY EFFECTS / ASOCIERE INOVATIVĂ DE SPECII MEDICINALE CU POTENȚIAL DE UTILIZARE ÎN FORMULE CU ACȚIUNE IMUNOMODULATOARE</b></p> <p>Ciupercă O.T. <sup>1)</sup>, Țebrencu C.E. <sup>2)</sup>, Onisei T. <sup>2)</sup>, Răducanu A.E. <sup>2)</sup>  <sup>1)</sup>CCPPM Plantavorel SA Piatra Neamț / Romania; <sup>2)</sup> IBA Bucharest / Romania  Tel: 0233210308; E-mail: <a href="mailto: oanaciuperca@yahoo.com">oanaciuperca@yahoo.com</a></p>	17 <sup>33</sup> -17 <sup>36</sup>
<p><b>RESEARCH ON THE PRIMARY PREPARING OF JERUSALEM ARTICHOKE TUBERS TO BE USED AS FLOUR / CERCETĂRI PRIVIND PREGĂTIREA PRIMARĂ A TUBERCULILOR DE TOPINAMBUR ÎN VEDEREA VALORIFICĂRII SUB FORMĂ DE FAINĂ</b></p> <p>Vlăduț V. <sup>1)</sup>, Grigore A.I. <sup>1)</sup>, Găgeanu I. <sup>1)</sup>, Neagoe M. <sup>1)</sup>, Vanghele N. <sup>1)</sup>, Apostol L. <sup>2)</sup>, Matei Gh. <sup>3)</sup>, Popa D. <sup>4)</sup>, Isticioaia S. <sup>4)</sup>, Ungureanu N. <sup>5)</sup>, Biriș S.Șt. <sup>5)</sup>, Paraschiv G. <sup>5)</sup>, Epure M. <sup>1)</sup>, Dumitru C. <sup>1)</sup>  <sup>1)</sup>INMA Bucharest / Romania; <sup>2)</sup>IBA Bucharest / Romania; <sup>3)</sup>University Craiova / Romania; <sup>4)</sup>SCDA Secuieni / Romania; <sup>5)</sup>University "POLITEHNICA" Bucharest / Romania  E-mail: <a href="mailto:valentin_vladut@yahoo.com">valentin_vladut@yahoo.com</a></p>	17 <sup>36</sup> -17 <sup>39</sup>	<p><b>OPTIMIZATION OF GEOMETRIC PARAMETERS OF SCARIFIERS TO REDUCE THE SOIL - TOOL INTERACTION FORCES / OPTIMIZAREA PARAMETRILOR GEOMETRICE AI SCARIFICATOARELOR PENTRU REDUCEREA FORȚELOR DE INTERACȚIUNE SOL - SCULĂ</b></p> <p>Ghereș M.I. <sup>1)</sup>, Fecete-Tutunaru L.V. <sup>1)</sup>, Găspăr F. <sup>1)</sup>, Deac Teodora <sup>1)</sup>, Burnete N. <sup>1)</sup>, Todoruț I.-A. <sup>1)</sup>  <sup>1)</sup> Technical University of Cluj-Napoca, Faculty of Automotive Engineering, Mechatronics and Mechanics, Department of Automotive Engineering and Transportations / Romania,  *Tel: 0040 264 401676; E-mail: <a href="mailto:Marius.Gheres@auto.utcluj.ro">Marius.Gheres@auto.utcluj.ro</a></p>	17 <sup>36</sup> -17 <sup>39</sup>
<p><b>THE CONCEPT OF AN INNOVATIVE EQUIPMENT FOR THE SUPERFICIAL PROCESSING OF THE SOIL / CONCEPTIA UNUI ECHIPAMENT INOVATOR PENTRU PRELUCRAREA SUPERFICIALA A SOLULUI</b></p> <p>Constantin N., Muraru V., Berevoianu B., Muraru S., Dulgheru A., Cosnita D.  INMA Bucharest / Romania  E-mail: <a href="mailto:nicu.constantin49@yahoo.com">nicu.constantin49@yahoo.com</a></p>	17 <sup>39</sup> -17 <sup>42</sup>	<p><b>GUIDANCE AND CONTROL OF AUTONOMOUS ROBOT IN AGRICULTURAL FIELD / CONTROLUL MISCĂRII UNUI ROBOT AUTONOM INTR-UN CAMP AGRICOL</b></p> <p>Nanu S. <sup>*</sup>, Negirla P. <sup>*</sup>, Bungescu S. <sup>**</sup>  <sup>*</sup>Politehnica University Timisoara, Faculty of Automation and Computer Science / Romania; <sup>**</sup> The Banat's University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timișoara, Faculty of Agriculture / Romania  Tel: 0726713893; E-mail: <a href="mailto:sorin.nanu@upt.ro">sorin.nanu@upt.ro</a></p>	17 <sup>39</sup> -17 <sup>42</sup>
<p><b>INNOVATIVE TECHNICAL EQUIPMENT FOR HARVESTING HEMP / ECHIPAMENT TEHNIC INOVATIV PENTRU RECOLTAREA CULTURII DE CÂNEPĂ</b></p> <p>Bogdanof G., Paun A., Ciuperca R.  INMA Bucharest / Romania  E-mail: <a href="mailto:gbogdanof@gmail.com">gbogdanof@gmail.com</a></p>	17 <sup>42</sup> -17 <sup>45</sup>	<p><b>CHARACTERISTICS OF FLORAL DIVERSITY OF RE-CULTIVATED SOIL / ХАРАКТЕРИСТИКА ФЛОРИСТИЧЕСКОГО РАЗНООБРАЗИЯ РЕКУЛЬТИВИРОВАННОЙ ПОЧВЫ</b></p> <p>Andrusevich Kateryna V. <sup>1)</sup>, Zadorozhna Galina O. <sup>2)</sup>, Benseihoub A. <sup>3)</sup>  <sup>1)</sup>Dnieper-Orilskiy' Nature Reserve, Dnipropetrovsk region / Ukraine; <sup>2)</sup>Department of Biochemistry and Physiology, Oles Honchar Dnipro National University / Ukraine; <sup>3)</sup>Badji Mokhar University, Annaba / Algeria  E-mail: <a href="mailto:zadorojhnayagalina@gmail.com">zadorojhnayagalina@gmail.com</a></p>	17 <sup>42</sup> -17 <sup>45</sup>

<p><b>PHYSICO-CHEMICAL AND MICROBIOLOGICAL ANALYSIS OF JUICE EXTRACTED FROM SWEET SORGHUM / ANALIZĂ FIZICO-CHIMICĂ ȘI MICROBIOLOGICĂ A SUCULUI EXTRAS DIN SORGUL DULCE</b> Mihăilă G.L. Biriș S.Șt., Gheorghită N.E. University "Politehnica" of Bucharest, Faculty of Biotechnical Systems Engineering / Romania E-mail: <a href="mailto:m_georgiana.11391@yahoo.com">m_georgiana.11391@yahoo.com</a></p>	17 <sup>45</sup> -17 <sup>48</sup>	<p><b>STUDY REGARDING INNOVATIVE SOLUTIONS IN THE FIELD OF ECOLOGICAL HEATING SYSTEMS OF SMART AGRICULTURAL FARMS / STUDIU PRIVIND SOLUTII INOVATIVE IN DOMENIUL SISTEMELOR DE INCALZIRE ECOLOGICA A FERMELOR AGRICOLE SMART</b> Cristea O. D.<sup>1</sup>, Matescu M.<sup>1</sup>, Dulgheru A.<sup>1</sup>, Muraru S.<sup>1</sup>, Berevoianu B.<sup>1</sup>, Barbu L.N.<sup>2</sup> <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>ICDPP Bucharest / Romania Tel: 0761062624, E-mail: <a href="mailto:diana10.cristea@gmail.com">diana10.cristea@gmail.com</a></p>	17 <sup>45</sup> -17 <sup>48</sup>
<p><b>THE CORRELATION BETWEEN THE NUMBER OF KNIVES ON THE IMPELLER, IMPELLER SPEED AND SHIFTING GRAPPLE SPEED / CORELAȚIA DINTRE NUMĂRUL CUȚITELOR ROTORULUI, VITEZA ACESTUIA ȘI SCHIMBAREA VITEZEI DISPOZITIVULUI DE PRINDERE</b> Iordache V.<sup>1</sup>, Saracin I.<sup>1</sup>, Iordache S.<sup>2</sup>, Saracin I.<sup>2</sup>, Pandia O.<sup>3</sup> <sup>1</sup>University of Craiova / Romania; <sup>2</sup>UP Bucharest / Romania; <sup>3</sup>USAMV Bucharest / Romania E-mail: <a href="mailto:valentin_jordache@yahoo.com">valentin_jordache@yahoo.com</a></p>	17 <sup>48</sup> -17 <sup>51</sup>	<p><b>THEORETICAL STUDIES ON THE IMPROVEMENT OF THE TECHNICAL EQUIPMENT FOR PLANTING TUBERS OF SPECIES WITH ENERGY POTENTIAL FOR BIOMASS / STUDII TEORETICE PRIVIND PERFECTIONAREA ECHIPAMENTELOR TEHNICE DE PLANTAT TUBERCULI DE SPECII CU POTENȚIAL ENERGETIC PENTRU BIOMASĂ</b> Cristea L.-C., Marin E., Voicea I.-F., Cristea O.-D., Neagoe M. INMA Bucharest / Romania E-mail: <a href="mailto:larisacristea91@yahoo.ro">larisacristea91@yahoo.ro</a></p>	17 <sup>48</sup> -17 <sup>51</sup>
<p><b>MECHANO-HYDRAULIC CONTROL MECHANISM FOR DIFFERENTIAL PISTON INJECTION DEVICES / MECANISM DE COMANDA MECANO- HIDRAULICA PENTRU DISPOZITIVELE DE INJECTIE CU PISTON DIFERENTIAL</b> Sovaiala Gh.<sup>1</sup>, Matache G.<sup>1</sup>, Anghel A.<sup>1</sup>, Popescu A.I.<sup>1</sup>, Necula C.<sup>1</sup>; Manea D.<sup>2</sup> <sup>1</sup>IHP Bucharest / Romania; <sup>2</sup>INMA Bucharest / Romania Tel.: 021-336.3991; E-mail: <a href="mailto:sovaiala.ihp@fluidas.ro">sovaiala.ihp@fluidas.ro</a></p>	17 <sup>51</sup> -17 <sup>54</sup>	<p><b>THE ROLE OF ETHYLENE IN DISEASE RESISTANCE / HASTALIK DAYANIMINDA ETİLENİN ROLÜ</b> Süreyya Gülfem ALTUNBAY Sugar Institute, Plant Nutrition and Soil Department, Ankara, TURKEY E-mail: <a href="mailto:sureyyagulfem@hotmail.com">sureyyagulfem@hotmail.com</a></p>	17 <sup>51</sup> -17 <sup>55</sup>
<p><b>RESEARCH ON THE MANUFACTURE OF A DOUBLE AXLE TRAILER FOR AGRICULTURAL PRODUCTS TRANSPORTATION / CERCETĂRI ÎN VEDEREA REALIZĂRII UNEI REMORCI BIAȘ DESTINATĂ TRANSPORTULUI PRODUSELOR AGRICOLE</b> Popa L.<sup>1</sup>, Marin E.<sup>1</sup>, Barbu G.<sup>2</sup>, Ungureanu V.<sup>2</sup>, Enache St.<sup>2</sup>, Zaica A.<sup>1</sup>, Zaica Al., Ștefan V., Nedelcu A., Ciupercă R. <sup>1</sup>INMA Bucharest / Romania; <sup>2</sup>SC FORTIMPEX Iași / Romania Tel: 0726234242; E-mail: <a href="mailto:lucretia_popa@yahoo.com">lucretia_popa@yahoo.com</a></p>	17 <sup>54</sup> -17 <sup>57</sup>	<p><b>INCREASING THE PROTECTION DEGREE OF AGRICULTURAL CROPS BY ESTABLISHING AGROFORESTRY CURTAINS / CREȘTEREA GRADULUI DE PROTECȚIE A CULTURILOR AGRICOLE PRIN ÎNFIINȚAREA PERDELELOR AGO-FORESTIERE</b> Bogdanof G., Zaica Al., Păun A., Zaica A., Milea D., Vișan A., Vișan G. INMA Bucharest / Romania E-mail: <a href="mailto:gbogdanof@gmail.com">gbogdanof@gmail.com</a></p>	17 <sup>54</sup> -17 <sup>57</sup>
<p><b>TRANSLATIONAL COMPACTION SYSTEMS USED IN THE COLLECTION AND TRANSPORT OF WASTE / SISTEME DE COMPACTARE PRIN TRANSLAȚIE UTILIZATE ÎN COLECTAREA ȘI TRANSPORTUL DEȘEURILOR</b> Lazea M., Voicu Gh., Constantin G., Zăbavă B., Tudor P. University "POLITEHNICA" Bucharest / Romania E-mail: <a href="mailto:mircealazea2005@yahoo.com">mircealazea2005@yahoo.com</a></p>	17 <sup>57</sup> -18 <sup>00</sup>		17 <sup>57</sup> -18 <sup>00</sup>

<p><b>Workshop: The current state of "SMARTIRRIG" project results (2019)</b> Chairman: MANEA Dragoș / PĂUN Anișoara</p>	(ground floor, Library Hall – INMA Bucharest)	15 <sup>30</sup> -17 <sup>00</sup>
<p><b>Workshop: Technological transfer of INMA research results</b> Chairman: MATACHE Mihai / VLĂDUȚ Valentin</p>	(ground floor, Scientific Conseil Hall – INMA Bucharest)	15 <sup>30</sup> -17 <sup>00</sup>

## INTERNATIONAL SYMPOSIUM *ISB-INMA TEH* 1 November 2019

9<sup>00</sup>-12<sup>00</sup> – INMA Bucharest laboratories visit and lunch at "La Giř" Restaurant