



**PROGRAMUL SIMPOZIONULUI /
PROGRAM OF THE SYMPOSIUM**

INTERNATIONAL SYMPOSIUM

ISB-INMA TEH

**AGRICULTURAL AND MECHANICAL
ENGINEERING**

- 2013 -

1 - 3 Noiembrie 2013 / 1st - 3rd November 2013

**Sala de Festivități (AN 010) / Festivity Hall (AN 010)
Universitatea Politehnică din București / Polytechnic University of Bucharest**

1 November

- 15⁰⁰ - 16⁰⁰ - Primire și înregistrare participanți / *Receiving of participants*
- 16⁰⁰ - 18³⁰ - Cuvânt de deschidere (Sala AN-010) / *Inaugural speech (Room AN-010)*
Prezentare lucrare în plen / *Plenary Session Presentation*
- **Mihnea Cosmin COSTOIU** - Ministru delegat pentru Învățământ Superior, Cercetare Științifică și Dezvoltare Tehnologică;
 - **Gigel PARASCHIV** - Secretar de Stat Învățământ Superior, Ministerul Educației Naționale;
 - **Tudor PRISECARU** - Secretar de Stat pentru Cercetare, Ministerul Educației Naționale;
 - **Daniel BOTĂNOIU** - Secretar de Stat, Ministerul Agriculturii și Dezvoltării Rurale;
 - **George DARIE** - Rector, U.P. București;
 - **Anton HADĂR** - vicepreședinte Senat U.P. București;
 - **Sorin CÎMPEANU** - Rector, USAMV București;
 - **Gheorghe VOICU** - Decan al facultății ISB, U.P. București;
 - **Ion PIRNĂ** - Director General, INMA București;
 - **NEACȘU Florin** - Director General Adj. - NHR AGROPARTNERS SRL;
 - **Alexandru MOGA** - Manager ROMTERM;
 - **Nicolae SITARU** - Președinte SC ELSIT COM SRL, jud Ialomita;
 - **Gheorghe RĂDOI** - SC GENERAL LEASING SA Slobozia, jud Ialomita.
- 18³⁰ – ... - Masă festivă / *Dinner Party*

2 November

- 9⁰⁰ - 9¹⁵ - Primire și înregistrare participanți / *Receiving of participants*
- 9¹⁵ – 10⁵⁰ - Prezentare lucrări științifice pe secțiuni /
The presentation papers on the sections
- 10⁵⁰ - 11¹⁰ - Pauză / *Break*
- 11¹⁰ – 13¹⁵ - Prezentare lucrări științifice pe secțiuni /
The presentation papers on the sections
- 13¹⁵ – 15¹⁵ - Prânz / *Lunch*
- 15¹⁵ – 18⁰⁰ - Vizită INDAGRA-2013 / Turul București /
Visit INDAGRA-2013 / Tour Bucharest
- 19⁰⁰ – ... - Cina festivă / *Dinner Party*

3 November

- 9⁰⁰ – 10⁰⁰ - Prezentare lucrări științifice pe secțiuni /
The presentation papers on the sections
- 10⁰⁰ - 10¹⁵ - Pauză cafea / *Coffee break*
- 10²⁰ – 13³⁰ - Excursie la Ferma Pomicolă Istrița și la Stațiunea pentru
Viticultură și Vinificație Pietroasa (Buzău)
*Trip to Fruit Farm Istria and to Station for Viticulture and Winemaking
Pietroasa (Buzău)*
- 13³⁰ - 15³⁰ - Prânz la Pensiunea Casa Matei / *Lunch Casa Matei*

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SECTION 1 - POWER AND MACHINERY (Hall D005 - Fac. I.S.B.)		SECTION 2 - MECHANICS (Hall D117 - Fac. I.S.B.)	
Chairman: Prof. Ph.D. Eng. PIRNĂ Ion Assoc. Prof. Ph.D. Eng. BIRIȘ Sorin-Ștefan		Chairman: Prof. Ph.D. Eng. ENESCU Nicolae / Assoc. Prof. Ph.D. Eng. CARP-CIOCĂRDIA Crăița Prof. Ph.D. Eng. MAGHEȚI Ioan	
RESEARCHES ON HAY VENTILATION WITH AIR HEATED IN A SOLAR PANEL / CERCETĂRI PRIVIND VENTILAREA FĂNULUI CU AER ÎNCĂLZIT ÎN PANOU Ph.D. Eng. Nedelcu A., Ph.D. Eng. Pirnă I., Ph.D. Eng. Ciupercă.R., Eng. Zaica A., Eng. Pruteanu A.M. INMA Bucharest / Romania; Tel: 0212693250; E-mail: nedelcuus@yahoo.com	9 ¹⁵ +9 ⁴⁰	TESTING IN SIMULATED AND ACCELERATED REGIME OF RESISTANCE STRUCTURES / TESTAREA ÎN REGIM ȘIMULAT SI ACCELERAT A STRUCTURILOR DE REZISTENȚĂ Ph.D. Stud. Eng. Matache M. ¹⁾ , Ph.D. Stud. Eng. Persu I. ¹⁾ , Prof. Ph.D. Eng. Voicu Gh. ²⁾ , Ph. Manea I. ³⁾ , Assoc. Prof. Ph.D. Eng. Biriș S.Șt. ²⁾ , Assoc. Prof. Ph.D. Eng. Lazar S. ⁴⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ P.U. Bucharest / Romania; ³⁾ SC Softronic SRL Craiova / Romania; ⁴⁾ University of Novi Sad / Serbia Tel: 0727-957693; E-mail: matache@inma.ro	9 ¹⁵ +9 ⁴⁰
SCIENTIFIC RESEARCHES ON THE QUALITATIVE WORKING INDEXES OF THE SOWING BODY OF A MODERN TECHNICAL HOEING PLANTS SOWING EQUIPMENT / CERCETĂRI EXPERIMENTALE ASUPRA INDICILOR CALITATIVI DE LUCRU REALIZAȚI DE SECȚIA DE SEMĂNAT A UNUI ECHIPAMENT TEHNIC MODERN PENTRU SEMĂNAT PLANTE PRĂȘITOARE Ph.D. Eng. Marin E. ¹⁾ , Eng. Bolintineanu Gh. ¹⁾ , Ph.D. Eng. Sorică C. ¹⁾ , Ph.D. Eng. Manea D. ¹⁾ Assoc. Prof. Ph.D. Eng. Herak D.S. ²⁾ , Ph.D. Stud. Eng. Croitoru Ș. ³⁾ , Prof. Ph.D. Eng. Bădescu M. ³⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Czech University of Life Sciences Prague / Czech; ³⁾ University of Craiova / Romania Tel: +40 21.269.32.69; Fax: +40 21.269.32.73; E-mail: emarin@inma.ro, marin_43eu@yahoo.com	9 ⁴⁰ +10 ⁰⁵	INCREASING SAFETY AND SECURITY IN TRANSPORTATION BY TESTINGS OF PROTECTIVE STRUCTURES / CRESTEREA SIGURANTEI SI SECURITATII IN TRANSPORT PRIN TESTARI ALE STRUCTURILOR DE PROTECTIE Ph.D. Stud. Eng. Persu C. ¹⁾ , Ph.D. Stud. Eng. Matache M. ¹⁾ , Assoc. Prof. Ph.D. Eng. Biriș S.Șt. ²⁾ , Assoc. Prof. Kostadinov G. ³⁾ , Eng. Vlăduț V. ¹⁾ , ¹⁾ INMA Bucharest / Romania; ²⁾ P.U. Bucharest / Romania; ³⁾ RILRAM Sofia / Bulgaria Tel: 0264-401675; E-mail: Persucatalin@yahoo.com	9 ⁴⁰ +10 ⁰⁵
EXPERIMENTS REGARDING THE INFLUENCE OF WORKING PARAMETERS ON HOEING CROPS SOWING / EXPERIMENTĂRI PRIVIND INFLUENȚA PARAMETRILOR DE LUCRU ASUPRA PRECIZIEI DE SEMĂNAT A CULTURILOR DE PLANTE PRĂȘITOARE Ph.D. Stud. Eng. Cujbescu D. ¹⁾ , Eng. Bolintineanu Gh. ¹⁾ , Prof. Ph.D. Eng. Voicu Gh. ²⁾ , Assoc. Prof. Ph.D. Eng. Bungescu S. ³⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ P.U. Bucharest / Romania; ³⁾ USAMVB Timisoara / Romania Tel: 0740-272076; E-mail: dcujbescu@yahoo.com	10 ⁰⁵ +10 ³⁰	OPTIMIZATION OF THE DOSING PUMP FUNCTIONAL PARAMETERS USED FOR AGRICULTURAL CROPS FERTIGATION / OPTIMIZAREA PARAMETRILOR FUNCȚIONALI A POMPEI DE DOZARE UTILIZATĂ LA FERTIRIGAREA CULTURILOR AGRICOLE Ph.D. Eng. Biolan I. ¹⁾ , Ph.D. Eng. Visan A.L. ²⁾ , Eng. Vulpe G. ¹⁾ , Eng. Biolan C. ¹⁾ , Ph.D. Eng. Brăcăcescu C. ²⁾ ¹⁾ I.N.C.D.I.F."ISPIF" Bucharest / Romania; ²⁾ INMA Bucharest / Romania E-mail: iliebiolan@gmail.com.	10 ⁰⁵ +10 ³⁰
THEORETICAL STUDY ON FEEDING THE TANGENTIAL THRESHING SYSTEM OF CONVENTIONAL COMBINE HARVESTERS / STUDIU TEORETIC PRIVIND ALIMENTAREA CU MASA VEGETALĂ A APARATULUI DE TREIER TANGENTIAL AL COMBINELOR DE RECOLTAT CEREALE Ph.D. Eng. Ivan Gh. INMA Bucharest / Romania Tel: 021.269.32.55; Fax: 021.269.32.73; E-mail: geoivan2006@yahoo.com	10 ³⁰ +10 ⁵⁰	COMPARATIVE STUDY OF STRUCTURAL ANALYSIS APPLIED TO AGRICULTURAL AND MANUFACTURED MACHINE PARTS WITH SOLIDWORKS SOFTWARE AND AUTODESKINVENTOR / STUDIU COMPARATIV DE ANALIZA STRUCTURALA APLICATA LA ORGANE DE MASINI AGRICOLE SI REALIZAT CU PROGRAMELE SOLIDWORKS SI AUTODESKINVENTOR Eng. Sfiru R., Ph.D. Eng. Constantin N., Eng. Ludig M., Math. Petru C., Ph.D. Eng. Muraru V. INMA Bucharest / Romania Tel: 021.269.32.76 E-mail: raluca_sfiru@yahoo.com	10 ³⁰ +10 ⁵⁰
COMPARATIVE ANALYSIS OF DISTRIBUTION UNIFORMITY WHEN APPLYING PHYTO-SANITARY TREATMENTS OF DIFFERENT PRESSURE IN FIELD CROPS / ANALIZA COMPARATIVA A UNIFORMITĂȚII DE DISTRIBUȚIE LA APLICAREA TRATAMENTELOR FITO-SANITARE ÎN CULTURILE DE CÂMP LA PRESIUNI DIFERITE Ph.D. Stud. Eng. Roșu (Nitu) M. ¹⁾ , Ph.D. Eng. Manea D. ¹⁾ , Eng. Cujbescu D. ¹⁾ , Ph.D. Stud. Eng. Dumitracu A. ¹⁾ ¹⁾ INMA Bucharest / Romania E-mail: rosumihaelan@yahoo.com	10 ³⁰ +11 ¹⁰ Cofee break	WAYS TO OPTIMISE THE APPLICATIONS OF ELECTROMAGNETIC WAVES IN AGRICULTURE AND FOOD INDUSTRY / DIRECTII IN OPTIMIZAREA APLICATIILOR UNDELOR ELECTROMAGNETICE IN AGRICULTURA SI INDUSTRIA ALIMENTARA Eng. Ludig M., Math. Cârdei P., Ph.D. Eng. Muraru V. INMA Bucharest / Romania Tel: 0264.401675; E-mail: petru_cardei@yahoo.com	10 ³⁰ +11 ¹⁰ Cofee break
RESEARCHES ON REDUCING OF LOSSES AT FODDER HARVESTING WITH THE WINDROVERS / CERCETARI PRIVIND REDUCEREA PIERDERILOR LA RECOLTAREA FURAJELOR CU VINDROVERELE Eng. Bogdanof G. ¹⁾ , Ph.D. Eng. Eng. Păun A. ¹⁾ , Assoc. Prof. Ph.D. Eng. Ertekin.C. ²⁾ , Eng. Neagoe V. ¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Akdeniz University / Turkey Fax: 021/269.32.73; E-mail: gbogdanof@gmail.com	11 ¹⁰ +11 ³⁵	THEORETICAL ASPECTS REGARDING AIRFLOW, BY THE SEED LAYER ON THE SURFACE OF THE VEHICLE PNEUMATIC VIBRATORS / ASPECTE TEORETICE PRIVIND CIRCULAȚIA CURENTULUI DE AER, PRIN STRATUL DE SEMINȚE DE PE SUPRAFAȚA MAȘINII PNEUMO-VIBRATOARE Prof. Ph.D. Eng. Căsândroi T., Eng. Buciuman F.V. Polytechnic University Bucharest, Engineering Biotechnical Systems Faculty / Romania Tel: 0728833188; E-mail: florina_buciuman@yahoo.com	11 ¹⁰ +11 ³⁵ Cofee break
STUDIES FOR THE REALIZATION OF A PNEUMATIC SOWING SMALL SEED WAFERS / STUDII PRIVIND REALIZAREA UNUI ECHIPAMENT PNEUMATIC PENTRU SEMĂNATUL SEMINTELOR MICI ÎN ALVEOLE Prof. Ph.D. Eng. Sărăcin I. ¹⁾ , Ph.D. Eng. Pandia O. ²⁾ , Lect. Ph.D. Bozga I. ²⁾ , Ph.D. Eng. Ganea I. ³⁾ ¹⁾ University of Craiova, Faculty of Agriculture / Romania; ²⁾ University of Agricultural Sciences and Veterinary Medicine Bucharest / Romania; ³⁾ INMA Bucharest / Romania	12 ⁰⁰ +12 ²⁵	THEORETICAL CONTRIBUTIONS TO THE DRIVE OF CEREAL CLEANING TECHNICAL EQUIPMENTS ENDOWED WITH NON BALANCED VIBRATION GENERATING SYSTEMS / CONTRIBUȚII TEORETICE LA ACȚIONAREA ECHIPAMENTELOR TEHNICE DE CURĂȚIRE A CEREALELOR CU SISTEME GENERATOARE DE VIBRAȚII CU MASE NEECHILIBRATE Ph.D. Eng. Brăcăcescu C. ¹⁾ , Assoc. Prof. Ph.D. Eng. Chavdar V. ²⁾ , Ph.D. Eng. Vișan Al. ¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ University of Rousse / Bulgaria Tel: 021-269.32.50; E-mail: bracacescu@inma.ro	12 ⁰⁰ +12 ²⁵
MECHANIZED HARVESTING OF MEDICINAL AND AROMATIC PLANTS / RECOLTAREA MECANIZATA A PLANTELOR MEDICINALE SI AROMATICE Eng. Muscalu A. ¹⁾ , Biol. Pruteanu A. ¹⁾ Prof. Ph.D. Eng. David L. ²⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ P.U. Bucharest / Romania Tel: 021/269.32.50; Fax: 021/269.32.73; E-mail: amuscalis@yahoo.com	12 ²⁵ +12 ⁵⁰	REDUCTION OF SANITARY INDICATOR MICROORGANISMS IN ANAEROBIC DIGESTION OF POULTRY LITTER IN COMBINATION WITH SILAGES / РЕДУКЦИЯ НА ПАТОГЕННИ МИКРООРГАНИЗМИ ПРИ МЕЗОФИЛЕН ПРОЦЕС НА АНАЕРОБНО РАЗГРАЖДАНЕ НА ТОРОВА ПОСТЕЛА ОТ ПИЛЕТА-БРОЙЛЕРИ В КОМБИНАЦИЯ СЪС СИЛАЖИ Popova T. ¹⁾ , Prof. Ph.D. Marinova S. ²⁾ , Zaharinov B. ³⁾ , Kaleva M. ¹⁾ , Baykov B. ³⁾ , Kirov V. ¹⁾ , Assist. Prof. Ph.D. Petrova V. ²⁾ ¹⁾ University of Forestry, Faculty of Veterinary Medicine, Sofia / Bulgaria; ²⁾ Institute of soil Science "Nikola Pushkarov, Sofia / Bulgaria; ³⁾ New Bulgarian University, h.c. "Ovcha Kupel", Sofia / Bulgaria; ⁴⁾ Trakia University, Stara Zagora / Bulgaria Tel: +359-866-53-15-50, E-mail: dr_tpopova@abv.bg	12 ²⁵ +12 ⁵⁰

SECTION 3 - RENEWABLE ENERGY AND ENVIRONMENT (Hall D101 - Fac. I.S.B.)		SECTION 4 - FOOD INDUSTRY	
Chairman: Prof. Ph.D. Eng. PARASCHIV Gigel / Assoc. Prof. Ph.D. Eng. MAICAN Edmond Prof. MARINOVA Svetla		Chairman: Prof. Ph.D. Eng. VOICU Gheorghe / Ph.D. Ch. POPESCU Carmen PhD. Eng. VLADUȚ Valentin	
SELECTION OF SUITABLE SITES FOR THE CONSTRUCTION OF BIOGAS PLANTS / ИЗБОР НА ПОДХОДЯЩИ ПЛОЩАДКИ ЗА ПОСТРОЯВАНЕ НА БИОГАЗОВИ ИНСТАЛАЦИИ Prof. Marinova S., Assist. Prof. Ph.D. Kolchakov V., Assist. Prof. Ph.D. Ivanov P., Assist. Prof. Ph.D. Petrova V., Assoc. Prof. Karadjova H. Institute of Soil Science, Agrotechnologies and Plant Protection "N. Poushkarov" E-mail: svetla_mar@mail.bg	9 ¹⁵ +9 ⁴⁰	BENDING-SHEARING PROPERTIES OF CERTAIN ROSE FLOWER (ROSA HYBRIDA L.) VARIETIES / BAZI GÜL (ROSA HYBRIDA L.) ÇEŞİTLERİNİN EĞİLME-KESME ÖZELLİKLERİ Ph.D. Kabas O. Bati Akdeniz Agricultural Research Institute, Antalya/Turkey Tel: 090 242 429 73 31; E-mail: onderkabas@hotmail.com	9 ¹⁵ +9 ⁴⁰
COMPARATIVE ASSESSMENT OF SLUDGE FROM DIFFERENT PLACES OF TREATMENT IN WASTEWATER PLANT IN SOFIA REGARD TO THEIR USE IN AGRICULTURE / СРАВНИТЕЛНА ОЦЕНКА НА УТАЙКИТЕ ПОЛУЧЕНИ ОТ РАЗЛИЧНИ МЕСТА НА ТРЕТИРАНЕ В ПРЕЧИСТВАТЕЛНАТА СТАНЦИЯ ЗА ОТПАДЪЧНИ ВОДИ ГР.СОФИЯ С ОГЛЕД ИЗПОЛЗВАНЕТО ИМ В ЗЕМЕДЕЛИЕТО Prof. Marinova S. ¹⁾ , Prof. Kathijotes N. ²⁾ , Assoc. Prof. Zlatareva E. ¹⁾ , Prof. Stoicheva D. ¹⁾ , Assis. Prof. Kolchakov V. ¹⁾ ¹⁾ Institute of Soil Science, Agrotechnologies and Plant Protection "N. Poushkarov" Sofia / Bulgaria ²⁾ Cyprus University of Technology, Department of Civil Engineering and Geomatics / Cyprus E-mail: svetla_mar@mail.bg	9 ⁴⁰ +10 ⁰⁵	THE EFFECT OF ULTRASOUND TREATMENT ON SELECTED MAIZE AND BUCKWHEAT EXTRUDATES PARAMETERS / WPŁYW ULTRADŹWIĘKÓW NA WYBRANE PARAMETRY EKSTRUDATÓW KUKURYDZIANYCH I GRZYCHANYCH PhD. Eng. Żelaziński T., PhD. Eng. Ekielski A., PhD. Stud. Eng Zdanowska P., PhD. Stud. Eng. Florczak I. Warsaw University of Life Sciences, Faculty of Production Engineering, Warsaw / Poland Tel: +48 22 59 345 00; e-mail: tomasz_zelazinski@sggw.pl	9 ⁴⁰ +10 ⁰⁵
CHARACTERISTICS OF GREENHOUSE GAS EMISSION FROM THE AGRARIAN SECTOR OF BULGARIA AND ROMANIA AS CLIMATE CHANGE MITIGATION FACTORS / ХАРАКТЕРИСТИКА НА ЕМИСИИТЕ НА ПАРНИКОВИ ГАЗОВЕ ОТ АГРАРНИЯ СЕКТОР НА БЪЛГАРИЯ И РУМЪНИЯ КАТО ФАКТОР ЗА ИЗМЕНЕНИЕ НА КЛИМАТА Prof. Ph.D. Totka Mitova, Assist. Prof. Ph.D. Vera Petrova N. Poushkarov Institute of Soil Science, Agrotechnologies and Plant Protection, Sofia / Bulgaria Tel: +359 2 824 61 41; E-mail: tmitova@mail.bg	10 ⁰⁵ +10 ³⁰	DEVELOPMENT DIRECTIONS REGULATING THE PESTICIDES SUSTAINABLE USE AT NATIONAL AND EUROPEAN LEVEL / DIRECTII DE EVOLUTIE IN REGLEMENTAREA UTILIZARII DURABILE A PESTICIDELOR LA NIVEL EUROPEAN SI NATIONAL PhD. Stud. Eng. Nagy E.M. ¹⁾ , Eng. Cota C. ¹⁾ , PhD. Eng. Cioica N. ¹⁾ , PhD. Eng. Ranta O. ²⁾ , PhD. Stud. Eng. Toderasc P. ¹⁾ ¹⁾ INMA Bucharest - Cluj Napoca Branch / Romania; ²⁾ USAMV Cluj-Napoca / Romania Tel/fax: 0264-418162; nagy@inma.ro	10 ⁰⁵ +10 ³⁰
COMPARATIVE CHARACTERISTICS AND EVALUATION OF DIGESTATE FROM BIOGAS PRODUCTION WITH PARTICIPATION OF PIG MANURE AND WASTE FROM MARKETS / СРАВНИТЕЛНА ХАРАКТЕРИСТИКА И ОЦЕНКА НА БИОШЛАМ ПОЛУЧЕН ПРИ ПРОИЗВОДСТВО НА БИОГАЗ С УЧАСТИЕ НА СВИНСКИ ТОР И ОТПАДЪЦИ ОТ ПАЗАРИТЕ Assoc. Prof. Ph.D. Elena Zlatareva, Assist. Prof. Ph.D. Vera Petrova, Assist. Prof. Ph.D. Plamen Ivanov, Prof. Ph.D. Svetla Marinova N. Poushkarov Institute of Soil Science, Agrotechnologies and Plant Protection, Sofia / Bulgaria Tel: +359 2 824 61 41; E-mail: zlatareva.as@abv.bg	10 ³⁰ +10 ⁵⁰	THE EFFECT OF EXTRUDATE FINENESS ON THE SHAPE OF PARTICLES OBTAINED / WPŁYW STOPNIA ROZDOBNIENIA EKSTRUDATU NA KSZTAŁT UZYSKANYCH CZĄSTEK PhD. Eng. Ekielski A., PhD. Eng. Żelaziński T., PhD. Stud. Eng Zdanowska P., PhD. Stud. Eng. Florczak I. Warsaw University of Life Sciences, Faculty of Production Engineering, Warsaw / Poland Tel: +48 22 59 345 00; E-mail: adam_ekielski@sggw.pl	10 ³⁰ +10 ⁵⁰
ECOLOGICAL ASSESSMENT OF DIFFERENT RAW MATERIALS FOR BIOGAS / ЕКОЛОГИЧНА ОЦЕНКА НА РАЗЛИЧНИ СУРОВИНИ ЗА ПРОИЗВОДСТВО НА БИОГАЗ Shindarska Z. ¹⁾ , Zaharinov B. ²⁾ , Petrova V. ³⁾ , Ivanov P. ³⁾ , Kostadinova G. ⁴⁾ , Kirov V. ¹⁾ , Baykov B. ²⁾ ¹⁾ University of Forestry, Sofia / Bulgaria; ²⁾ New Bulgarian University, Sofia / Bulgaria ³⁾ ISSAPP "Nikola Pushkarov, Sofia / Bulgaria; ⁴⁾ Trakia University, Stara Zagora / Bulgaria E-mail: zshindarska@hotmail.com	10 ³⁰ +11 ¹⁰ Cofee break	RESEARCHES ON AUTOMATION OF WEIGHING AND SACKING PROCESS OF FINISHED AGRICULTURAL PRODUCTS / CERCETĂRI PRIVIND AUTOMATIZAREA PROCESULUI DE CÂNTĂRIRE ŞI AMBALARE ÎN SACI A PRODUSELOR AGRICOLE FINITE Eng. Milea D. ¹⁾ , Ph.D.Stud.Eng. Matache M. ¹⁾ , Ph.D.Eng. Brăcăcescu C. ¹⁾ , Assoc. Prof. Ph.D. Eng. Atanasov At. ²⁾ , Ph.D.Eng. Păun A. ¹⁾ , Eng. Găgeanu I. ¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ University of Rousse / Bulgaria Tel: +40 740.485.717/137; E-mail: mileadumitru57@yahoo.com	10 ³⁰ +11 ¹⁰ Cofee break
TECHNICAL AND COMMERCIAL CONDITIONS FOR DIESEL ENGINE ALTERNATIVE SUPPLY WITH VEGETABLE OILS / CONDIȚII TEHNICE ŞI COMERCIALE LA ALIMENTAREA ALTERNATIVĂ A MOTOARELOR DIESEL CU ULEIURI VEGETALE PhD. Eng. Nicolescu M.A. ¹⁾ , Eng. Ghilvacs M.I. ¹⁾ , Prof. Ph.D. Eng. Mihaylov N. ²⁾ , Eng. Grigore I. ¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ University of Rousse / Bulgaria E-mail: m_a_nicolescu@yahoo.com	11 ¹⁰ +11 ³⁵	STUDIES ON PROCESSES OF HYDRIC EROSION IN OLT COUNTY AREAS / STUDII PRIVIND PROCESUL DE EROZIUNE HIDRICĂ DIN AREALELE JUDEȚULUI OLT Lect. Ph.D. Nijloveanu D., Lect. Ph.D. Bozga I., Lect. Ph.D. Tița V. University of Agricultural Sciences and Veterinary Medicine, Bucharest, Romania Faculty of Management, Economic Engineering in Agriculture and Rural Development, Slatina Branch Tel: 0726148524; E-mail: nijloveanu_daniel@yahoo.com	11 ³⁰ +11 ⁵⁰
INTEGRATED TECHNOLOGY FOR OBTAINING AGRIPELLETS / TEHNOLOGIE INTEGRATĂ DE OBTINERE A AGRIFEȚILOR PhD. Stud. Eng. Voicea I. ¹⁾ , PhD. Stud. Eng. Danciu A. ¹⁾ , Ress.Assist. Dr. Selvi K.Ç. ²⁾ , PhD. Eng. Vlăduț V. ¹⁾ , Prof. Ph.D. Eng. Voicu Gh. ³⁾ , Prof. Ph.D. Eng. Paraschiv G. ³⁾ , Eng. Ghilvacs M. ¹⁾ ¹⁾ INMA Bucharest / Romania; ²⁾ Ondokuz Mayıs University / Turkey; ³⁾ P.U. Bucharest / Romania Tel: 0752161780; E-mail:voicea_iulian@yahoo.com	11 ³⁵ +12 ⁰⁰	CAPITALIZATION POSIBILITIES OF SAFFLOWER SEEDS IN CONDITIONS FROM ROMANIA / POSIBILITATI DE VALORIFICARE A SEMINTELOR DE SOFRANEL ÎN CONDIȚIILE DIN ROMÂNIA PhD. Ch. Popescu C. ¹⁾ , Biol.Pruteanu A. ²⁾ , Eng. Muscalu A. ²⁾ , Lect. Wang L. ³⁾ , Eng. Ch. Găgeanu G. ²⁾ ¹⁾ S.C. HOFIGAL S.A. / Romania; ²⁾ INMA Bucharest / Romania; ³⁾ Shanxi Agricultural University, Shanxi / China Tel: 021/269.32.50; Fax: 021/269.32.73; E-mail: pruteanu_augustina@yahoo.com	11 ⁵⁰ +12 ¹⁰
SELECTION OF HYDROLYTIC MICROORGANISMS FROM SOIL ABLE TO PERFORM BIODEGRADATION OF ORGANIC WASTE / SELECȚIONAREA MICROORGANISMELOR HIDROLITICE DIN SOL CU PROPRIETATEA DE BIODEGRADARE A DEȘEURILOR ORGANICE Lect. Ph.D. Ferdeș M., Lect. Ph.D. Eng. Ipate G. Polytechnic University Bucharest / Romania Tel: 0729 821 256; E-mail: marianaferdes@yahoo.com	12 ⁰⁰ +12 ²⁵	NEW SOURCES OF PHYTOTHERAPEUTIC AND NUTRACEUTICAL PRODUCTS FROM ENERGETICAL PLANTS IN ROMANIA / NOI SURSE DE PRODUSE FITOTERAPEUTICE ŞI NUTRACEUTICE DIN PLANTE ENERGETICE ÎN ROMÂNIA PhD. Ch. Popescu C. ¹⁾ , Eng. Muscalu A. ²⁾ , Biol.Pruteanu A. ²⁾ ¹⁾ S.C. HOFIGAL S.A.; ²⁾ INMA Bucharest Tel: 021/269.32.50; Fax: 021/269.32.73; E-mail: amuscalis@yahoo.com	12 ¹⁰ +12 ³⁰
NANOSTRUCTURED ZEOLITES – AN EFFICIENT SOLUTION FOR BOTH ENVIRONMENTAL ENGINEERING AND AGRICULTURE APPLICATIONS / ZEOLIȚI NANOSTRUCTURATI - SOLUȚIE EFICIENTĂ CU APLICATII IN INGINERIA MEDIULUI ŞI AGRICULTURĂ Lect. Ph.D. Eng. Covaliu I.C., Prof. Ph.D. Eng. Paraschiv G. University Polytechnic of Bucharest, Faculty of Biotechnical Systems Engineering / Romania Tel: +40 722.791.791; E-mail: cristina_covaliu@yahoo.com	12 ²⁵ +12 ⁵⁰	PHYSICAL PROPERTIES OF THE CRIST FRACTIONS AT THE SECOND REDUCTION PASSAGE OF A MILLING PLANT / PROPRIETĂȚILE FIZICE ALE FRAȚIILOR DE MĂCINIȘ LA AL DOILEA PASAJ DE MĂCINARE AL UNEI MORI DE GRĂU As. Ph.D. Stud. Eng. Constantin G.A., Prof. Ph.D. Eng. Voicu Gh., Lect. Ph.D. Eng. Stefan E.M., Prof. Ph.D. Eng. Paraschiv G., Lect. Ph.D. Eng. Mușuroi G. Universities Polytechnic Bucharest, Faculty of Biotechnical Systems Engineering / Romania Tel: 0727651064; E-mail: gabriel_alex99@yahoo.com	12 ³⁰ +12 ⁵⁵
	12 ⁵⁰ +13 ¹⁵	FLOATING STATION FOR REAL-TIME MONITORING OF RIVERS' WATER QUALITY / STAȚII FLOTABILE PENTRU MONITORIZAREA ÎN TIMP REAL A CALITĂȚII APEI RĂURILOR Eng. Vilcu C. ¹⁾ , Prof. Ph.D. Eng. Vpicu Gh. ²⁾ , Prof. Ph.D. Eng. Paraschiv G. ³⁾ , Ph.D. Eng. Lehr C. ³⁾ , Ph.D. Eng. Vlad G. ⁴⁾ , Ph.D. Eng. Romulius P. ⁴⁾ , Ph.D. Stud. Viaduca I. ⁴⁾ ¹⁾ INCD Turbomotoare COMOTI, Bucharest / Romania; ²⁾ P.U. Bucharest / Romania; ³⁾ INCD ECOIND, Bucharest / Romania; ⁴⁾ ICPE BISTRITA SA, Bistrita-Năsăud / Romania Tel: 0720.392341; E-mail: constantin.valcu@comoti.ro	12 ⁵⁵ +13 ¹⁵

	13 ¹⁵ – 15 ¹⁵	- Lunch / Prânz
	15 ¹⁵ – 18 ⁰⁰	- Vizită INDAGRA-2013 / Turul oraşului Bucureşti / Visit INDAGRA-2013 / Tour of Bucharest city
	19 ⁰⁰ – ...	- Cina festivă / Dinner Party

INTERNATIONAL SYMPOSIUM *ISB-INIMATEH* 3 November 2013

SECTION 1 - POWER AND MACHINERY		SECTION 2 - MECHANICS	
Chairman: Prof. Ph.D. Eng. PIRNĂ Ion Assoc. Prof. Ph.D. Eng. BIRIŞ Sorin-Ştefan		Chairman: Prof. Ph.D. Eng. ENESCU Nicolae Prof. Ph.D. Eng. MAGHEȚI Ioan	
THEORETICAL ARGUMENTATION OF CUTTING PART PARAMETERS OF A WINDROVER / ARGUMENTAREA TEORETICĂ A PARAMETRILOR ORGANULUI DE TĂIERE AL UNUI VINDROVER Phd. Eng. Cerempei V. Institute of Agricultural Machinery "Mecagro", Chisinau / Moldova E-mail: institut@mecagro.md	9 ⁰⁰ +9 ¹⁵	DEFINITION OF A TRAJECTORY OF MOVEMENT AND FORCES ACTING ON THE COULTER OF THE SECTION FOR PLANTING SEEDLINGS WITH A MECHANISM OF IT MOVEMENT / ВИЗНАЧЕННЯ ТРАЄКТОРІЇ ПЕРЕМІЩЕННЯ І СИЛ, ЩО ДІЮТЬ НА СОШНИК РОЗСАДОСАДИЛЬНОЇ СЕКЦІЇ З МЕХАНІЗМОМ ЇЇ ПЕРЕМІЩЕННЯ Usenko M., Voitovich V. Lutsk National Technical University / Ukraine Tel: +38(0332)74-61-03; Fax: +38(0332)77-48-40; E-mail: rector@lutsk-ntu.com.ua	9 ⁰⁰ +9 ¹⁵
THEORETICAL ARGUMENTATION OF STEMS DRIVING AND EVACUATING PARAMETERS OF WINDROVER WORKING PART / ARGUMENTAREA TEORETICĂ A PARAMETRILOR ORGANULUI DE ANTRENARE ŞI EVACUARE A TULPINILOR UNUI VINDROVER Phd. Eng. Cerempei V. Institute of Agricultural Machinery "Mecagro", Chisinau / Moldova E-mail: institut@mecagro.md	9 ¹⁵ +9 ³⁰	REASONING OF PARAMETERS OF ROLLER WITH SPIRAL GROOVE OF FLAX PULLING MECHANISM / ОБҐРУНТУВАННЯ ПАРАМЕТРІВ ВАЛЬЦЯ З ГВИНТОВИМ ПАЗОМ ЛЬОНОБРАЛЬНОГО АПАРАТА Dudarev I., Zabrodotska L., Kirchuk R., Taraymovich I. Lutsk National Technical University / Ukraine Tel: +38(0332)74-61-03; Fax: +38(0332)77-48-40; E-mail: rector@lutsk-ntu.com.ua; i_dudarev@ukr.net	9 ¹⁵ +9 ³⁰
RESULTS OF COMBINING RESEARCHES IN CONDITION OF CENTRAL SERBIA / REZULTATI ISPITIVANJA KOMBAJNA U USLOVIMA CENTRALNE SRBIJE Prof. Ph.D. Eng. Barać S., Prof. Ph.D. Eng. Djikić A., Prof. Ph.D. Eng. Biberdžić M., MPh. Milenković B., MPh Vuković A. University of Priština - Kosovska Mitrovica, Faculty of Agriculture, Lešak / Serbia Tel: +3812888261; E-mail: sbarac@eunet.rs	9 ³⁰ +9 ⁴⁵	INVESTIGATION OF THE RADIUS OF BENDING FOR FLEXIBLE SCREW SECTIONAL CONVEYER / ДОСЛІДЖЕННЯ РАДІУСА ЗГИНУ ГНУЧКОГО ГВИНТОВОГО КОНВЕЄРА З СЕКЦІЙНИМИ ЕЛЕМЕНТАМИ Gevko I.B., Lyashuk O.L., Rogatinska L.R., Zolotuy R.Z., Lyubachivskyy R.O. Ternopil Ivan Pul'uj National Technical University, Ternopil, Ukraine E-mail: Oleg-lashyk@rambler.ru	9 ³⁰ +9 ⁴⁵
RESEARCH ON AGRICULTURE SURVEY AND EVALUATION UAV NAVIGATION SYSTEM / 农业调查评估无人机导航系统研究 Prof. Ph.D. LIU Ming, Lec. WANG Haijun Key Laboratory of Aviation Information Technology in Universities of Shandong (Binzhou University) / China Tel: 0543-3196345; E-mail: hitwordben@126.com	9 ⁴⁵ +10 ⁰⁰ 10 ⁰⁰ +10 ¹⁵ Coffee break	PRELIMINARY ASSESSMENT OF A COMPANY'S PROFITABILITY / STABILIREA PRELIMINARĂ A RENTABILITĂȚII UNEI SOCIETĂȚI COMERCIALE Stud. Manole B. ¹⁾ , Assist. Ph.D. Eng. Voicu P. ²⁾ , Ph.D. Stud. LU Jintao ³⁾ ¹⁾ Essex University, European Studies and Modern Languages / Great Britany; ²⁾ P.U. Bucharest / Romania; ³⁾ School of Management, Northwestern Polytechnical University / China Tel: 0727-378361; E-mail: beatrice.mnl@gmail.com	10 ⁰⁰ +10 ¹⁵ Coffee break
SECTION 3 - RENEWABLE ENERGY AND ENVIRONMENT		SECTION 4 - FOOD INDUSTRY	
Chairman: Prof. Ph.D. Eng. PARASCHIV Gigel Prof. MARINOVA Svetla		Chairman: Prof. Ph.D. Eng. VOICU Gheorghe PhD. Eng. VLĂDUT Valentin	
BIOSYNTHESIS AND UTILIZATION OF PECTOLYTIC ENZYMES FROM ASPERGILLUS NIGER IN AGRO-FOOD INDUSTRY ABND WASTE TREATMENT / BIOSINTEZA SI UTILIZAREA ENZIMELOR PECTOLITICE DIN ASPERGILLUS NIGER IN INDUSTRIA AGROALIMENTARA SI TRATAREA DESEURILOR Lect. Ph.D. Ferdeş M., Lect. Ph.D. Eng. Ipate G. Polytechnic University Bucharest / Romania Tel: 0729 821 256; E-mail: marianaferdes@yahoo.com	9 ⁰⁰ +9 ¹⁵	SCREENING OF OPTIMAL CONCENTRATIONS OF DISPERSANT (NACOL C) AND DIESEL TO ENHANCE GROWTH, MULTIPLICATION AND METABOLIC ACTIVITY OF MARINE ENDOGENOUS MICROBIOTA / SELECTAREA CONCENTRAȚIEI OPTIME DE DISPERSANT (NACOL C) SI DE MOTORINA PENTRU STIMULAREA CRESTERII, MULTIPLICARII CELULARE SI ACTIVITATII METABOLICE A MICROBIOTEI MARINE ENDOGENE Ph.D. Stud. Manea M. ¹⁾ , Prof. Ph.D. Ardelean I. ^{1), 2)} Doctoral School, Ovidius Univ. Constanta ¹⁾ , Institute of Biology Bucharest, Romanian Academy, Department of Microbiology ²⁾ Tel: 0721852930; E-mail: mihaela_manea84@yahoo.com	9 ⁰⁰ +9 ¹⁵
A FUZZY CONTROL BASED DISSOLVED OXYGEN MONITORING SYSTEM IN AQUACULTURE / 基于模糊控制的水产养殖中溶解氧监控系统的研究 Lect. HUANG Dazhi, Lect. HU Aiying, Prof. CHEN Shufa, Stud. WANG Zhuozhuo - School of Mechanical Engineering in Huaihai Institute of Technology / China Tel: 0518-85895332; E-mail: 2004000013@hhit.edu.cn	9 ¹⁵ +9 ³⁰	OPTIMIZATION OF RURAL RESIDENTIAL AREA LOCATION BASED ON SCLP MODEL WITH A MAXIMUM FARMING RADIUS CONSTRAINT / 基于耕作距离约束下最小设施模型的村庄聚落区位优化 Lect. WANG Lihuan ¹⁾ , R.Assoc. WANG Qing-ri ²⁾ , Lect. XIN Guoming ¹⁾ , Lect. GUO Yonglong ^{1,3)} , Assoc.Prof. YUAN Shaofeng ⁴⁾ , Lect. Ph.D. Eng. VOICU Paula ⁵⁾	9 ¹⁵ +9 ³⁰
DEVELOPMENT AND EXPERIMENT ON AUTOMATIC GRADING EQUIPMENT FOR KIWI XU Lijia, YOU Zhikun, WU Sheng, ZHAO Hui, WU Lin College of Information and Engineering Technology, Sichuan Agriculture University, Ya'an / China Email: lijiaxu13@163.com	9 ³⁰ +9 ⁴⁵	¹⁾ Shanxi Agricultural University, Shanxi / China; ²⁾ China Land Surveying and Planning Institute, Beijing / China; ³⁾ Nanjing Agricultural University, Jiangsu / China; ⁴⁾ Zhejiang Gongshang University, Zhejiang / China; ⁵⁾ P.U. Bucharest / Romania Tel: 03546288331; E-mail: 13044727@qq.com	

10²⁰+13³⁰: Excursie la Ferma Pomicolă Istrița și la Stațiunea pentru Viticultură și Vinificație Pietroasa (Buzău) / Trip to Fruit Farm Istria and to Station for Viticulture and Winemaking Pietroasa (Buzău)
13³⁰+15³⁰: Prânz / Lunch