

INTERNATIONAL SYMPOSIUM
AGRICULTURAL ENGINEERING. SOIL - PLANT - TECHNICAL EQUIPMENT WITHIN THE CONTEXT OF
ECOLOGICAL AGRICULTURE AND ECONOMIC EFFICIENCY

28th October 2011, Bucharest, Romania

**MINISTRY OF EDUCATION, RESEARCH, YOUTH
AND SPORT**

INMA BUCHAREST

with support of:

ASAS – Romanian Academy of Agricultural and Forestry Sciences

PACTMAR – Romanian Constructors Society of Agricultural Machines

P.U. Bucharest (Faculty of Biotechnical Systems Engineering)

University of Craiova

SIMAR - Romanian Agricultural Mechanical Engineering Society

Society for Environmental Protection of Serbia

University of Rouse

RILRAM - Research Institute of Land Reclamation and Agricultural Mechanization

International Symposium

AGRICULTURAL ENGINEERING

SYMPOSIUM PROGRAMME

BUCHAREST, ROMANIA
28 October 2011

INTERNATIONAL SYMPOSIUM
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28th October 2011, Bucharest, Romania

Friday 28 October 2011

7³⁰ ÷ 8⁴⁵ Registration of participants

9.00- 9.30

Official Opening
Assembly Hall - ASAS Bucharest

Welcoming Addresses by:

Ph.D. Eng. Pirnă Ion - President of the Organizing Committee

9.30- 10.00

Welcoming Addresses by Supports Organizations

Prof. Ph.D. Eng. Paraschiv Gigel - *Faculty of Biotechnical Systems Engineering*

Acad. Prof. Ph.D. Sin Gheorghe - *President of ASAS – Romanian Academy of Agricultural and Forestry Sciences, Romania*

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10⁰⁰ ÷ 12²⁰ PAPER PRESENTATIONS

SECTION 1

Soil, Power and Machinery

(Time for report is 10 min)

Moderators: Ph.D. Eng. Pirnă Ion
Prof. Ph.D. Eng. Paraschiv Gigel
Scientific Secretary: Ph.D. Eng. Ganea Ion

1. Brătucu Gh., Păunescu C., Pasztor J.

Transylvania University Braşov / Romania

***ESTABLISHMENT OF THE OPTIMAL TECHNOLOGICAL VARIANT UNDER
ENERGETICALLY ASPECT FOR PREPARING THE GERMINATION BED IN GREENHOUSES***

2. Boja N., Boja F.

"Vasile Goldiș" Western University of Arad, Faculty of Engineering / Romania

***EXPERIMENTAL RESEARCHES REGARDING THE SOIL COMPACTION IN THE FORESTRY
NURSERIES***

3. Loghin Fl., Eng. Rus Fl.

Transylvania University Braşov / Romania

***DEVELOPMENT AND SIMULATION OF VIRTUAL PROTOTYPE OF SEED DRILLS
TRANSMISSION***

4. Brătucu Gh., Păunescu C., Căpăţină I.

Transylvania University Braşov / Romania

***OPTIMIZATION OF THE ENERGETICALLY CONSUMPTION OF THE CULTIVATORS FOR
OPEN CHANNELS IN GREENHOUSES THROUGH MATHEMATICAL MODELING***

10⁴⁰ - 11⁰⁰ Coffe Break

5. Brencu Molder L.¹⁾, Marin E.²⁾

¹⁾University from Craiova / Romania; ²⁾INMA Bucharest / Romania

***EXPERIMENTAL RESEARCHES OF COMPLEX TECHNICAL EQUIPMENT SOWING CORN IN
NARROW STRIPS***

6. Drăghia D.¹⁾, Bădescu M.²⁾, Mircea R.³⁾, Ciupercă R.⁴⁾

¹⁾Inspectorate Forestry Regime and Hunting – Râmnicu Vâlcea / Romania; ²⁾ University from Craiova;

³⁾INMA Bucharest / Romania

ROTARY MACHINE KINEMATICS WITH ARMS FOR SEEDLINGS PLANTED

7. Trajković R.¹⁾, Anđelković S.²⁾, Ivanović R.³⁾, Andjelković B.²⁾

¹⁾Faculty of Sciences, Kosovka Mitrovica / Serbia; ²⁾Institute for Forage Crops, Kruševac / Serbia;

³⁾Faculty of Sciences, Niš / Serbia

***THE EFFECT OF WATER FROM THE RIVER VETERNICA ON THE GERMINATION OF
SOME VEGETABLE CROPS SEED***

8. Sbîrnă L.S.¹⁾, Mateescu M.D.¹⁾, Sbîrnă S.²⁾, Moldovan C.S.³⁾, Ionescu C³⁾

¹⁾University of Craiova, Faculty of Chemistry / Romania; ²⁾Craiova Regional Environment Protection Agency / Romania; ³⁾University of Petroşani, Faculty of Mining / Romania

***EVALUATING BY SIMULATION THE IMPACT OF ACID RAIN ON CATIONS IN A
REDDISH-BROWN SOIL SAMPLED FROM COŞOVENI, DOLJ (ROMANIA)***

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9. Usenko M.

Lutsk National Technical University / Ukraine

AIRSCREW AS A STABILIZING DEVICE FOR SMALL AGGREGATES

10. Nagy M.¹⁾, Cota C.¹⁾, Cioica N.¹⁾, Fecete L.²⁾

¹⁾INMA Bucharest - Cluj Napoca Branch / Romania; ²⁾Technical University Cluj-Napoca / Romania

***MODELING OF THE GEOMETRICAL PARAMETERS OF ACTIVE BODY FOR THE SOIL
PROCESSING OF THE EQUIPMENT EXPLANT 500***

12⁰⁰ - 13⁰⁰ Lunch Break

13⁰⁰ ÷ 14²⁰ PAPER PRESENTATIONS

SECTION 2

Power Machinery, Irrigation, Phytosanitary Treatments

(Time for report is 10 min)

Moderators: Prof. Ph.D. Eng. Paraschiv Gigel

Ph.D. Eng. Voicu Emil

Scientific Secretary: Ph.D. Eng. Drâmbei Petronela

9. Aliyev Ch.

Azerbaijan Scientific Research institute of Forages, Meadows and Pastures / Azerbaijan

***FEATURES OF TECHNOLOGY FOR GROWING TOMATOES AND EGGPLANTS IN THE
REPUBLIC OF AZERBAIJAN***

10. Ganeva D., Pevicharova G.

Maritsa Vegetable Crops Research Institute / Bulgaria

"IZK Alya" NEW CHERRY TOMATO VARIETY

11. Nagy M.¹⁾, Cârdei P.¹⁾, Coța C.¹⁾, Fecete L.²⁾

¹⁾INMA Bucharest, Cluj Napoca Branch / Romania; ²⁾Technical University Cluj-Napoca / Romania

***METHOD OF ESTIMATING THE SOIL RESISTANCE FORCE TO SOIL WORKING MACHINE
PARTS WITH APPLICATIONS TO THE OPTIMIZATION OF WORKING REGIMES OF
MACHINES USED IN HORTICULTURE***

12. Ciupercă R.¹⁾, Drăghia D.²⁾, Lazăr G.¹⁾, Radu M.¹⁾, Bodea C.¹⁾, Grădinaru V.¹⁾

¹⁾INMA Bucharest / Romania; ²⁾Inspectorate Forestry Regime and Hunting – Râmnicu Vâlcea / Romania

INNOVATIVE TECHNOLOGY FOR WORKING SOIL AND PLANTING OF FOREST SAPLINGS

13. Gadjalska N., Petrova R., Markov E.

RILRAM Sofia / Bulgaria

QUALITY OF WATER USED FOR IRRIGATION

14. Tadjer J., Căzănescu S., Grancharova El.

RILRAM Sofia / Bulgaria

SUSTAINABLE CONTROL OF DANUBE WETLANDS

15. Sedlar Al., Bugarin R., Turan J., Đukić N.

University of Novi Sad, Faculty of Agriculture, Department of Agricultural Engineering / Serbia

***TEHNO-ECONOMIC ANALYSIS OF CLASSIC AND SELECTIVE PESTICIDE APPLICATION
IN APPLE AND APRICOT ORCHARDS***

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17. Knezevic J., Knezevic D., Ciric Sl., Sekularac A.

University of Pristina, Faculty of Agriculture, Lesak / Serbia

MEASURING OF THE EFFICIENCY OF SOME HERBICIDES ON SPRING BARLEY
AGROPHYTOCOENOSIS WEED VEGETATION

14²⁰ – 14⁴⁰ Coffe Break

14⁴⁰ ÷ 16⁵⁰ **PAPER PRESENTATIONS**

SECTION 3

Transport, Harvesting, Food Industry, Climatic Factors

(Time for report is 10 min)

Moderators: Ph.D. Eng. Vlăduț Valentin

Ph.D. Eng. Nicolescu Mihai

Scientific Secretary: Ph.D. Eng. Nedelcu Mihai

18. Simikić M., Savin L., Tomić M., Dedović N., Matić-Kekić S.

Faculty of Agriculture, University of Novi Sad / Serbia

INFLUENCE OF OBLIQUE TRACTION ON TRACTION PERFORMANCES OF A
WHEELED TRACTOR ON DIFFERENT SOIL SURFACES

19. Hermenean I.¹⁾, Mocanu V.¹⁾, Voicu E²⁾

¹⁾ICDP Braşov / Romania; ²⁾INMA Bucharest / Romania

EXPERIMENTAL RESEARCHES CONCERNING DYNAMICS AND ENERGETIC
OF WHEEL TRACTOR FOR SLOPES (4X4) – FRONT RAKE SYSTEMS

20. Bozhkov S., Badrikov E., Yankova V., Stefanov K., Mihov M.

Research Institute for Land Reclamation and Agricultural Mechanization – Sofia, Bulgaria

RESEARCH ON STABILITY AND DESIGNING OF PROTECTIVE STRUCTURE
OF TRANSPORT VEHICLE FOR SMALL FARMS

21. Căpăţină I, Brătucu Gh.

Transylvania University Brasov / Romania

RESEARCH REGARDING THE MECHANICAL TUBERS INJURY AT THE HARVESTING WORK

22. Chirilă C., Ţenu I.

University of Agricultural Sciences and Veterinary Medicine „Ion Ionescu de la Brad” Iaşi / Romania

CONSIDERATIONS ON THE OPTIMAL COMBINE ESTABLISHMENT,
DEPENDING ON SURFACE STRUCTURE

23. Voicu Gh., Constantin Gh., Ştefan E.M.

Polytechnic University of Bucharest / Romania

RELEVANT RHEOLOGICAL PROPERTIES OF BREAD DOUGH IN SMALL AMPLITUDE
OSCILLATORY DYNAMIC TESTS (SAOS)

15⁴⁰ – 16⁰⁰ Coffe Break

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24. Murad E., Safta V. V., Haraga G., Panțiru G. A., Fărăoanu C. E.

Polytechnic University of Bucharest / Romania

CONVECTIVE DRYER ENERGETICALLY COUPLED TO A GREENHOUSE

25. Păunescu C.G.

Transylvania University Braşov / Romania

***THE METHODOLOGY AND THE EQUIPMENTS USED FOR TRACKING THE CLIMATIC
FACTORS IN A POTATOES WAREHOUSE***

26. Marinova S., Pchelarova H., Toncheva R.

N. Poushkarov Institute of Soil Science, Sofia / Bulgaria

ATMOSPHERIC EMISSIONS RESULTING FROM LAND APPLICATION MANURE

27. Alovzat G.

Nakhchivan State University / Azerbaijan

THE SETTLEMENT METHODS OF WATER PROBLEMS IN ARID CLIMATE ZONES

28. Ćirić Sl., Knežević J., Andjelković S.

University of Priština, Faculty of Agriculture / Serbia

***BACTERIOLOGICAL AND SANITARY STATE OF RESERVOIR ĆELIJE WATER AT THE
CATCHMENT SITE***

16⁵⁰ – 17⁰⁰ Coffe Break

29. Burtea R.¹⁾, Vlăduţ V.¹⁾, Tudor A.²⁾, Voicea I.¹⁾, Găgeanu G.¹⁾

¹⁾INMA Bucharest / Romania; ²⁾P.U. Bucharest

***RESEARCHES REGARDING DETERMINATION OF LUBRICATING PROPERTIES OF A
BIODEGRADABLE OIL***

30. Brăcăcescu C.

INMA Bucharest / Romania

***THEORETICAL AND EXPERIMENTAL RESEARCHES REGARDING THE OPTIMIZATION OF
WORKING PROCESSES OF GRAVITY SEPARATORS AIMED AT CEREALS IMPURITIES***

31. Găgeanu P.¹⁾, Moşoiu C.²⁾, Zaica Al.¹⁾, Sandric M.²⁾

¹⁾INMA Bucharest / Romania; ²⁾IBA Bucharest / Romania

***HUMAN CAPITAL RECOVERY IN RURAL AREAS IN ROMANIA, BY ACQUIRING OF SKILLS AND
KNOWLEDGE WITH HIGH ADDED VALUE***

32. Pirnă I., Cristea O., Vlăduţoiu L., Ganea I.

INMA Bucharest / Romania

***IMPLEMENTATION IN ROMANIA OF INNOVATIVE CLUSTER CONCEPT IN THE FIELD OF
AGRICULTURE AND FOOD INDUSTRY***

33. Nedelcu D., Bădănoiu B., Niţu M.

INMA Bucharest / Romania

***ACHIEVING FLEXIBLE PROGRAMS OF LIFE-LONG TRAINING FOR PLANT AND ANIMAL
FARMS WORKERS***

17⁵⁰: DISCUSSION

Closing of the Symposium

Note. The time limit of presentation in scientific sessions is 10 minutes.
There will be a possible to use PowerPoint program
if you need it for your presentation.
