



ROMANIAN ACADEMY OF TECHNICAL SCIENCES
THE GENERAL ASSOCIATION OF THE ENGINEERS IN ROMANIA
“CONSTANTIN BRÂNCUȘI” UNIVERSITY OF TÂRGU – JIU
FACULTY OF ENGINEERING

PROGRAM

NATIONAL SCIENTIFIC CONFERENCE
WITH INTERNATIONAL PARTICIPATION

“CONFERENG 2021”

November 26th - 27th 2021

TÂRGU – JIU

ROMANIA

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Honorary member of the Romanian Academy of Scientists

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Sciences

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Assoc. prof. PhD Roxana Gabriela POPA, "Constantin Brancusi" University of Targu-Jiu

Assoc. prof. PhD Viorica Mariela UNGUREANU, "Constantin Brancusi" University of Targu-Jiu

Lecturer PhD Cornel HAȚIEGAN, Babeș-Bolyai University of Cluj-Napoca

Lecturer PhD Mihaela Dorica STROIA, Babeș-Bolyai University of Cluj-Napoca

Lecturer PhD Lenuta CÎNDEA, Babeș-Bolyai University of Cluj-Napoca

Lecturer PhD Cristian TUFIȘI, Babeș-Bolyai University of Cluj-Napoca

Lecturer PhD Alin NIOAȚĂ, "Constantin Brancusi" University of Targu-Jiu

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Lecturer PhD Gheorghe GÎLCĂ

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Lecturer PhD Irina Ramona PECINGINĂ

Lecturer PhD Alin STĂNCIOIU

Lecturer PhD Emil Cătălin ȘCHIOPU

Lecturer PhD Adina TĂTAR

CONFERENCE SCHEDULE

Friday, November 26th, 2021

800 - 1000 - Registration

1000 - 1030 - Opening ceremony (Conference room: A016 Engineering Faculty UCB)

1030 -1045 - Coffee break

1045 - 1400 - Conference sessions (works presentations by sections)

1400 - 1530 - Lunch

1600 - 1900 - Conference sessions (works presentations by sections)

THE SECTIONS OF THE CONFERENCE

1. Control system, electronics, information technology and cyber security
2. Environmental engineering and sustainable development
3. Engineering and management in public alimentation and agrotourism
4. Energy and Power engineering
5. Mechanical engineering, materials and manufacturing systems
6. Quality management

Saturday, November 27th, 2021

09.00 - 10.00: Visit in research laboratories of the faculty

11.00 - 18.00: Program for visiting the touristic objectives and sites in Târgu-Jiu

Section 1

Control system, electronics, information technology and cyber security

Conference room: A014

Date 26. 11. 2021

Hours : 10⁴⁵ - 14⁰⁰

Chairman: Assoc. prof. PhD. Florin Grofu, “Constantin Brâncuși” University from Târgu- Jiu

Tehcnical secretariat: Lecturer PhD. Gheorghe Gîlca, “Constantin Brâncuși” University from Târgu Jiu

1. ABOUT MODELING LARGE ITEM WITH SHEET METAL LOFT FEATURE IN SOLIDWORKS

Cătălin Iancu, “Constantin Brâncuși” University of Târgu-Jiu, ROMANIA

Yury Gutsalenko, Nat. Tech. Univ. “Kharkov Polytech. Inst.”, Kharkov, UKRAINE

2. SYSTEM DESIGN FOR IMPROVING OUR HOME COMFORT

M.D. Stroia, Babeș-Bolyai University of Cluj-Napoca, Reșița, ROMÂNIA

C. Hațiegan, Babeș-Bolyai University of Cluj-Napoca, Reșița, ROMÂNIA

Cristinel Popescu, Universitatea Constantin Brâncuși, Târgu-Jiu, ROMANIA

S. V. Bugar, Atos it solutions and services, Timișoara, ROMÂNIA

3. MODAL ANALYSIS OF THIN CIRCULAR PLATES WITH DIFFERENT BOUNDARY CONDITIONS

Codruța Oana Hamat, University Babes-Bolyai, Cluj-Napoca, ROMANIA

Cristian Tufisi, University Babes-Bolyai, Cluj-Napoca, ROMANIA

Cristinel Popescu, University Constantin Brâncuși, Târgu-Jiu, ROMANIA

Cornel Hațiegan, University Babes-Bolyai, Cluj-Napoca, ROMANIA

4. DESIGN OF A TWO-AXIS LEVELLING DEVICE

Alexandru Predica, Babeș-Bolyai University, Cluj-Napoca, ROMANIA

Ion-Cornel Mituletu, Babeș-Bolyai University, Cluj-Napoca, ROMANIA

Cristian Tufiși, Babeș-Bolyai University, Cluj-Napoca, ROMANIA

5. CONTROL OF A VEHICLE THROUGH A SMARTPHONE APPLICATION

Stelică Timofte, Babeș-Bolyai University Cluj, ROMANIA

Lenuța Cîndea, Babeș-Bolyai University Cluj, ROMANIA

Cornel Hațiegan, Babeș-Bolyai University Cluj, ROMANIA

- 6. DAMAGE ASSESSMENT OF BEAMS USING AN ARTIFICIAL NEURAL NETWORK AND NATURAL FREQUENCIES**
Cristian Tufisi, University Babes-Bolyai, Cluj-Napoca, ROMANIA
Gilbert-Rainer Gillich✉, University Babes-Bolyai, Cluj-Napoca, ROMANIA
Cristinel Popescu, University Constantin Brâncuși, Târgu-Jiu, ROMANIA
Mario Ardeljan, University Babes-Bolyai, Cluj-Napoca, ROMANIA
- 7. THE EFFECT OF THE INTERMEDIATE SUPPORT POSITIONS ON THE DYNAMIC BEHAVIOR OF A CONTINUOUS BEAM WITH 3 SPANS AND FREE ENDS**
Zeno-Iosif Praisach, Babeș-Bolyai University, Cluj-Napoca, ROMÂNIA
Gilbert-Rainer Gillich, Babeș-Bolyai University, Cluj-Napoca, ROMÂNIA
Dorel Ardeljan, Babeș-Bolyai University, Cluj-Napoca, ROMÂNIA
Dan-Alexandru Pîrșan, Babeș-Bolyai University, Cluj-Napoca, ROMÂNIA
Constantin-Viorel Pașcu, Babeș-Bolyai University, Cluj-Napoca, ROMÂNIA
- 8. Z TRANSFORM FOR FRACTIONAL DISCRETE-TIME SYSTEMS WITH MULTIPLICATIVE NOISE AND MEAN SQUARE STABILITY**
Viorica Mariela Ungureanu, Constantin Brâncuși University of Târgu Jiu, ROMANIA
- 9. A NOTE ON NONAUTONOMOUS DISCRETE SYSTEMS IN TERMS OF GROUPOIDS**
Mădălina-Roxana Buneci, Constantin Brâncuși University of Târgu Jiu, ROMANIA
- 10. STUDY ON THE USE OF IFS IN MEDICAL DIAGNOSIS**
Iuliana Carmen Bărbăcioru, Constantin Brâncuși University of Târgu Jiu, ROMANIA
- 11. DESIGN AND IMPLEMENTATION OF A 4 AND 5-BIT LFSR**
Iulia Iarina Ungureanu Iulia Iarina, Technical University of Cluj Napoca, ROMANIA
Viorica Mariela Ungureanu, Constantin Brâncuși University of Târgu Jiu, ROMANIA

Conference room: A014

Date 26. 11. 2021

Hours : 1600 - 1800

Chairman: Prof. PhD. Cătălin Iancu, *“Constantin Brâncuși” University from Târgu- Jiu*

Tehcnical secretariat: Lecturer PhD. Gheorghe Gîlca, *“Constantin Brâncuși” University from Târgu Jiu*

12. HELICOPTER LIFT TEST SYSTEM

Florin Grofu, Constantin Brâncuși” University from Târgu Jiu, ROMANIA

Răzvan Marcuș, Constantin Brâncuși” University from Târgu Jiu, ROMANIA

13. E-truck@ro

Răzvan Marcuș, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

Florin Grofu, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

14. USING OF PROXIMITY SENSORS TO CONTROL BIOMIMETIC STRUCTURES

Marian Ionescu, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

Ilie Borcosi, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

**15. TIME SERIES PREDICTION WITH MACHINE LEARNING TECHNIQUES. PART I
– GENERAL INTRODUCTION TO TIME SERIES AND MACHINE LEARNING
TECHNIQUES USED FOR FORECASTING**

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Lucica Anghelescu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Mihai Cruceru, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA, ROMÂNIA

Cristinel Racocanu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Adriana Tudorache, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Marius Eremia Vlaicu Popa, Complexul Energetic Oltenia, ROMÂNIA

**16. TIME SERIES PREDICTION WITH MACHINE LEARNING TECHNIQUES. PART II
– RECURRENT NEURAL NETWORKS MODELS APPLIED TO FORECASTING
ROMANIA’S ENERGY CONSUMPTION**

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Lucica Anghelescu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Mihai Cruceru, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA, ROMÂNIA

Cristinel Racocanu, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Adriana Tudorache, University “Constantin Brâncuși” of Tg-Jiu, ROMÂNIA

Marius Eremia Vlaicu Popa, Complexul Energetic Oltenia, ROMÂNIA

17. DATABASE OPERATIONS IN C# WITH SQL CONNECTION

Gheorghe Gîlcă, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

**18. A PRACTICAL EXAMPLE OF IMPLEMENTING A DISTRIBUTED DATABASE
APPLICATION**

Adrian Runceanu, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

Gheorghe Gîlcă, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

Section 2

Environmental engineering and sustainable development

Conference room: A015

Date 26. 11. 2021

Hours : 10⁴⁵ - 14⁰⁰

Chairman: Prof. PhD. Mihai Cruceru, *"Constantin Brâncuși" University of Târgu- Jiu*

Technical secretariat: Lecturer PhD. Emil - Cătălin Șchiopu, *"Constantin Brâncuși" University of Târgu Jiu*

1. USE OF COAL COMBUSTION PRODUCTS FOR REDUCING CONCRETE CORROSION. PART 1. METHODS

Mihai Cruceru, University Constantin Brâncuși of Tg-Jiu, ROMANIA

Lucica Anghelescu, University Constantin Brâncuși of Tg-Jiu, ROMANIA

Bogdan Diaconu, University Constantin Brâncuși of Tg-Jiu, ROMANIA

2. USE OF COAL COMBUSTION PRODUCTS FOR REDUCING CONCRETE CORROSION. PART 2. RESULTS

Mihai Cruceru, University Constantin Brâncuși of Tg-Jiu, ROMANIA

Bogdan Diaconu, University Constantin Brâncuși of Tg-Jiu, ROMANIA

Lucica Anghelescu, University Constantin Brâncuși of Tg-Jiu, ROMANIA

3. LIGNITE EXPLOATATION IN LUPOAIA OPEN PIT AND ITS IMPACT ON ENVIRONMENTAL WATERS

Corina Maria Iladie, Universitatea din Petroșani Mine, Petrol și Gaze

4. EVALUATION OF THE NOISE LEVEL FOR THE PREPARATION OF EXPERIMENTAL CONCRETE BATCHES ON THE SC IMPEX LUMY NICO SRL COMPANY PLATFORM

Emil - Cătălin Șchiopu, *"Constantin Brâncuși" University from Târgu Jiu, ROMANIA*

Nicolaie Crețu, SC IMPEX LUMY NICO SRL, Târgu Jiu, ROMANIA

5. REDUCTION OF GREENHOUSE GAS EMISSIONS

Cristinel Racoceanu, Professor, *"Constantin Brâncuși" University of Târgu Jiu*

6. REDUCTION OF NITROGEN OXIDE EMISSIONS BY ORGANIZING COMBUSTION

Cristinel Racoceanu, Professor, *"Constantin Brâncuși" University of Târgu Jiu*

7. INNOVATIVE PRODUCTS FROM ADEQUATELY PROCESSED INDUSTRIAL WASTE - I

Luminița Georgeta Popescu, Constantin Brancusi University of Targu Jiu, ROMANIA

Ghita Gheorghe· SC REFAROM SA

8. INNOVATIVE PRODUCTS FROM ADEQUATELY PROCESSED INDUSTRIAL WASTE - II

Luminița Georgeta Popescu, Constantin Brancusi University of Targu Jiu, ROMANIA

Sabin Cristian Dimulescu· SC DSC DIMECOSAB SRL

9. EFFECTS OF UV RADIATION ON THE SKIN. THE IMPORTANCE OF FOTOPROTECTION

Daniela Cîrțînă, „Constantin Brâncuși“ University of Târgu-Jiu, ROMÂNIA

10. ASSESSMENT OF THE ECOLOGICAL IMPACT OF NEW TECHNOLOGIES, THROUGH NOISE MEASUREMENTS AT THE LIMIT OF THE FUNCTIONAL AREA OF THE COMPANY'S PROPERTY SC DSC DIMECOSAB SRL

Violeta Ramona Cazalbașu, Constantin Brancusi University of Targu Jiu, ROMANIA

Sabin Cristian Dimulescu· SC DSC DIMECOSAB SRL

Section 3

Engineering and management in public alimentation and agrotourism

Conference room: A011

Date 26. 11. 2021

Hours : 10⁴⁵ - 14⁰⁰

Chairman: Assoc. Prof. PhD. Roxana-Gabriela Popa, "*Constantin Brâncuși*"

University of Târgu- Jiu

Technical secretariat: Lecturer PhD. Irina-Ramona Pecingină, "*Constantin Brâncuși*"

University of Târgu Jiu

1. THERMAL PHENOMENA IN DRYING SEEDS ON FLUID BED

Corina Cernăianu, University of Craiova, Craiova, ROMÂNIA

Eugenia Stăncuț, University of Craiova, Craiova, ROMÂNIA

2. DETERMINATION OF VITAMIN C IN FOOD BY THE TITRATION OF IODINE

Violeta Ramona Cazalbașu, "Constantin Brâncuși" University of Tg - Jiu, ROMANIA

3. STUDY ON THE ESTABLISHMENT AND MAINTENANCE OF A THYME CULTURE

Irina-Ramona Pecingină, "Constantin Brâncuși" University of Târgu Jiu, ROMANIA

4. STUDY ON THE ESTABLISHMENT OF A SEA BUCKTHORN PLANTATION

Irina-Ramona Pecingină, "Constantin Brâncuși" University of Târgu Jiu, ROMANIA

5. BIOSAFETY ASSESSMENT OF FOOD PRODUCTS DERIVED FROM GENETICALLY MODIFIED PLANT CROPS IN RELATION WITH ALLERGENIC POTENTIAL

Delia Nica-Badea, Constantin Brancusi University Targu – Jiu, Romania

Aniela Balacescu, Constantin Brancusi University Targu – Jiu, Romania

6. MEDICINAL PLANTS FROM THE SPONTANEOUS FLORA OF GORJ COUNTY USED IN THE PROMOTION OF AGROTOURISM

Roxana-Gabriela Popa, Constantin Brâncuși University from Târgu Jiu, ROMANIA

7. STUDY ON RECOVERY OF ROSEHIPS IN AGRITOURISM PENSIONS

Roxana – Gabriela Popa, Constantin Brâncuși University from Târgu Jiu, ROMANIA

8. INTRODUCTION TO PRECISION AGRICULTURE

Stefan Ghimisi, Constantin Brâncuși University of Targu Jiu, ROMÂNIA

9. QUALITY CONDITIONS FOR DYES, ESSENCES AND FOOD CONDITIONS

Șchiopu Emil - Cătălin, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Section 4

Energy and Power engineering

Conference room: A010

Date 26. 11. 2021

Hours : 10⁴⁵ - 14⁰⁰

Chairman: Assoc. Prof. PhD. Cristinel Popescu, “Constantin Brâncuși” University of Târgu- Jiu

Technical secretariat: Lecturer PhD. Adriana Tudorache, “Constantin Brâncuși” University of Târgu Jiu

1. STUDY ON THE PROTECTION AGAINST DEFECTS OF THE HIGH VOLTAGE OVERHEAD POWER LINE RESITA – IAZ

Mihaela Molnar, Babes -Bolyai University, Cluj Napoca, ROMANIA
Eugen Răduca, Babes -Bolyai University, Cluj Napoca, ROMANIA
Cristinel Popescu, “Constantin Brâncuși” University, Târgu Jiu, ROMANIA
Nicolae Șușară, Reșița, ROMANIA

2. TWIN-BUCK CONVERTER WITH ZERO-VOLTAGE TRANSITION

Eugen RĂDUCA, Babes -Bolyai University, Cluj Napoca, ROMANIA
Mihaela Molnar, Babes -Bolyai University, Cluj Napoca, ROMANIA
Alexandru Jurma, Nuremberg, GERMANY

3. EXPERIMENTAL STUDY OF THE PROCESS OF ELECTRICAL DISCHARGE DIAMOND GRINDING WITH CHANGING POLARITY OF ELECTRODES

Roman Strelchuk, Nat. Tech. Univ. “Kharkov Polytech. Inst.”, Kharkov, UKRAINE
Alexander Shelkovoy, Nat. Tech. Univ. “Kharkov Polytech Inst.”, Kharkov, UKRAINE
Cătălin Iancu, “C-tin Brâncuși” Univ. of Tg-Jiu, Targu Jiu, ROMANIA
Yury Gutsalenko, Nat. Tech. Univ. “Kharkov Polytech. Inst.”, Kharkov, UKRAINE
Volkov Oleg, Nat. Tech. Univ. “Kharkov Polytech. Inst.”, Kharkov, UKRAINE

4. SETTING THE WELDING PARAMETERS IN ORDER TO OPTIMIZE THE WORKING INTERVAL OF THE WELDING PROCESS

Cîndea Lenuța, Babeș-Bolyai University Cluj, ROMANIA
Cristinel Popescu, Universitatea Constantin Brâncuși, Târgu-Jiu, ROMANIA
Hațiegan Cornel, Babeș-Bolyai University Cluj, ROMANIA

5. MATHEMATICAL MODEL OF THE ELECTRIC ARC. THE IMPACT OF THE WELDING ARC AND THE CALORIC POWER ON THE WELDED SEAM.

Hațiegan Cornel, Babeș-Bolyai University Cluj, ROMANIA

Cîndea Lenuța, Babeș-Bolyai University Cluj, ROMANIA

Cristinel Popescu, Universitatea Constantin Brâncuși, Târgu-Jiu, ROMANIA

6. EFFECTS OF ACIDIC WATER CONTAINING TAILINGS ON THE INSULATION OF ELECTRICAL CABLES

Hațiegan Cornel, Babeș-Bolyai University Cluj, ROMANIA

Predus Marius Florian, Babeș-Bolyai University Cluj, ROMANIA

Cristinel Popescu, Universitatea Constantin Brâncuși, Târgu-Jiu, ROMANIA

7. CONSIDERATIONS REGARDING THE USE OF NANOTECHNOLOGIES IN THE ENERGY SECTOR

Adina Tătar, University „Constantin Brâncuși”, Tg-Jiu, ROMANIA

Nicoleta Mihuț, University „Constantin Brâncuși”, Tg-Jiu, ROMANIA

Dragoș Păsculescu, University of Petroșani, Petroșani, ROMANIA

Georgi Velez, Technical University of Gabrovo, BULGARIA

8. SULPHUR REMOVAL IN COAL-FIRED POWER PLANTS. PART I: SULPHUR EMISSIONS ASSESMENT METHODOOGY

Lucica Anghelescu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Mihai Cruceru, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

9. SULPHUR REMOVAL IN COAL-FIRED POWER PLANTS PART II: BEFORE AND AFTER IMPLEMENTATION

Lucica Anghelescu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Mihai Cruceru, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

10. PARTIAL CAPACITIES AND OPERATING CAPACITY OF A SHIELDED THREE-PHASE CABLE BY MEANS OF COMPLEX POTENTIAL – CASE STUDY

Adriana Tudorache, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

Josef Timmerberg, Jade University, Wilhelmshaven, GERMANY

Daniela Cîrțînă, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

Llviu Marius Cîrțînă, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

11. CONSIDERATIONS ON INTEGRATE WATER RESOURCE MANAGEMENT OF HYDROPOWER POTENTIAL MOTRU – JIU

Cristina Ionici, University “Constantin Brâncuși”, Târgu-Jiu, ROMANIA

12. ASPECTS REGARDING THE VARIATION BETWEEN THE ELECTRICITY CONSUMPTION OF THE INTERNAL SERVICES AND THE CHARGING LOAD OF THE ENERGY GROUPS WITH THE UNIT POWER OF 330 MW

Cristinel Popescu, Universitatea Constantin Brâncuși, Târgu-Jiu, ROMANIA

Section 5

Mechanical engineering, materials and manufacturing systems

Conference room: A016

Date 26. 11. 2021

Hours : 10⁴⁵ - 14⁰⁰

Chairman: Prof. PhD. Liviu Marius Cîrîţină, *“Constantin Brâncuşi” University from Târgu- Jiu*

Tehcnical secretariat: Lecturer PhD. Constanţa Rădulescu, *“Constantin Brâncuşi” University from Târgu Jiu*

1. DEFFECTS OCCURRING IN THE ROLLING STOCK OF THE CYLINDRICAL ROLLERS TYPE AND THEIR REMEDY

Tiberiu Manescu, University Aurel Vlaicu, Arad, ROMANIA

Cristian Tufisi, University Babes-Bolyai, Cluj-Napoca, ROMANIA

Gilbert-Rainer Gillich, University Babes-Bolyai, Cluj-Napoca, ROMANIA

2. RESEARCHES CONCERNING TO MINIMIZE VIBRATIONS WHEN PROCESSING NORMAL LATHE

Zoltan-Iosif Korka, Babeş-Bolyai University Cluj, ROMANIA

Dan Pîrşan, Babeş-Bolyai University Cluj, Reşiţa, ROMANIA

Cristinel Racocceanu, “Constantin Brâncuşi” University of Târgu Jiu, ROMANIA

3. POSSIBILITIES TO COMBINE THE HYDROGEN WITH HEAT PUMPS IN HEATING SYSTEMS OF BUILDINGS

Marius Savu Lolea, University of Oradea, Oradea, ROMANIA

Andrea Amalia Minda, Babeş-Bolyai University, Cluj Napoca, ROMANIA

Emeric Remus Szabo, University of Oradea, ROMANIA

Mircea Vasile Ambro, Technical University, Cluj Napoca, ROMANIA

Daniela Tabita Negrea, University of Oradea, ROMANIA

4. A MODERN METHOD FOR THE LOCAL PROTECTION OF PARTS DURING PLASMA NITRIDING

Marius Bibu, “Lucian Blaga” University of Sibiu, ROMANIA

Florin Ciofu, “Lucian Blaga” University of Sibiu, ROMANIA

5. METHOD FOR LOCAL PROTECTION IN PLASMA NITRIDING OF PARTS THAT PRESENT NON-FUNCTIONAL SURFACES

Marius Bibu, "Lucian Blaga" University of Sibiu, ROMANIA

Florin Ciofu, "Lucian Blaga" University of Sibiu, ROMANIA

6. ANTI-VIBRATION ISOLATION OF AN ELEVATOR FROM A MULTI-STOREY CAR PARK. STUDY OF THE SYSTEM'S OWN PULSATIONS.

Edward Rășchitor, University POLITEHNICA of Bucharest, ROMANIA

Carmen Elisabeta Radu, University POLITEHNICA of Bucharest, ROMANIA

Iosif Tempea, University POLITEHNICA of Bucharest, ROMANIA

Viorel Popescu, University POLITEHNICA of Bucharest, ROMANIA

7. ASPECTS OF THE TECHNOLOGY OF THE PROCESS ASSEMBLY BY COLD WELDING

Alin Nioață, "Constantin Brâncuși" University of Tg-Jiu, ROMANIA

Florin Ciofu, "Lucian Blaga" University of Sibiu, ROMANIA

8. BEHAVIOR OF ELECTRODEPOSITED COMPOSITE LAYERS AT THE APPLICATION OF A HEAT TREATMENT

Minodora-Maria Pasăre, "Constantin Brâncuși" University of Târgu Jiu, ROMANIA

Cătălina Ianăși, "Constantin Brâncuși" University of Târgu Jiu, ROMANIA

9. PULSED LASER DEPOSITION METHOD USED IN THE DEPOSITION OF THIN LAYERS ON THE SURFACE OF METALLIC MATERIALS

Mihut Nicoleta-Maria, Constantin Brâncuși University of Târgu Jiu, ROMANIA

Tătar Adina Milena, Constantin Brâncuși University of Târgu Jiu, ROMANIA

Georgi Velez, Technical University of Gabrovo, BULGARIA

10. TECHNICAL EXPERTISE OF TIE RODS I AND II - ASSEMBLIES OF THE COAL EXTRACTION MACHINE

Liviu Marius. Cîrțînă, University „Constantin Brâncuși”, from Târgu-Jiu, ROMÂNIA

Constanța Rădulescu, University „Constantin Brâncuși”, from Târgu-Jiu, ROMÂNIA

Alin Stăncioiu, University „Constantin Brâncuși”, from Târgu-Jiu, ROMÂNIA

11. ANALYSIS OF THE VARIATION OF THE CUTTING TOOL WEAR DUE TO THE MODIFICATION OF THE FUNCTIONAL GEOMETRY OF THE TOOLCUTTER DURING PROCESSING.

Mădălin Tomescu, Lucian Blaga University of Sibiu, ROMANIA,

Cosmin Ionescu, Energy High School of Târgu-Jiu, ROMANIA

Conference room: A016

Date 26. 11. 2021

Hours : 1600 - 1800

Chairman: Lecturer PhD. Alin Nioață, *"Constantin Brâncuși" University from Târgu- Jiu*

Tehcnical secretariat: Lecturer PhD. Constanța Rădulescu, *"Constantin Brâncuși" University from Târgu Jiu*

12. REEL REHABILITATION OF THE ELECTRIC POWER CABLE FROM M5A COAL REMOVAL MACHINE

Alin Stăncioiu, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

Liviu Marius Cîrțînă, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

Constanța Rădulescu, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

13. REHABILITATION OF THE LADDER LIFTING MECHANISM OF THE M5A COAL REMOVAL MACHINE

Alin Stăncioiu, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

Liviu Marius Cîrțînă, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

Constanța Rădulescu, Constantin Brâncuși University, Târgu-Jiu, ROMANIA

14. REHABILITATION MOVEMENT MECHANISM OF M5A COAL REMOVAL MACHINE

Liviu Marius Cîrțînă, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Alin Stăncioiu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Constanța Rădulescu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

15. REHABILITATION MOVEMENT MECHANISM OF M5A COAL REMOVAL MACHINE

Liviu Marius Cîrțînă, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Alin Stăncioiu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Constanța Rădulescu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

16. TECHNICAL EXPERTISE OF THE WHEEL WITH CUPS MECHANISM OF THE COAL EXTRACTION MACHINE

Constanța Rădulescu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Liviu Marius Cîrțînă, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Alin Stăncioiu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

**17. TECHNICAL EXPERTISE OF THE MECHANISM - WHEEL WITH CUPS FROM
OF THE COAL EXTRACTION MACHINE**

Constanța Rădulescu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Liviu Marius Cîrțînă, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Alin Stăncioiu, "Constantin Brâncuși" University, Târgu-Jiu, ROMANIA

Section 6

Quality management

Conference room: A112

Date 26. 11. 2021

Hours : 10⁴⁵ - 12¹⁵

Chairman: Prof. PhD. Ștefan Ghimiș, “Constantin Brâncuși” University of Târgu- Jiu

Technical secretariat: Lecturer PhD. Lucica Anghelescu, “Constantin Brâncuși”
University of Târgu Jiu

1. STUDY OF RELIABILITY AND EFFICIENCY OF AUTOMOTIVE FUSES SAMPLES

Georgi Tsonev Velez, Technical University of Gabrovo, Gabrovo, BULGARIA

Petar Kolev Petrov, Technical University of Gabrovo, Gabrovo, BULGARIA

Adriana Tudorache, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

Adina Tătar, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

2. NON-DESTRUCTIVE ANALYSIS METHODS USED TO VERIFY THE LOAD- BEARING STRUCTURE OF THE EQUIPMENT USED IN THE OLTENIA MINING INDUSTRY

Rodica David, Constantin Brâncuși University of Târgu-Jiu, ROMANIA

3. EXCAVATION AND STORAGE COAL MINING EQUIPMENT BEHAVIOR IN OPERATION. "STANDARD DEFECTS" OBSERVED IN THE LOAD-BEARING STRUCTURES

Rodica David, Constantin Brâncuși University of Târgu-Jiu, ROMANIA

Florin Vîlceanu, PROTECHNO METAL SRL

4. IMPROVING THE OPERATIONAL STRATEGY OF INDUSTRIAL ENTERPRISES

Cristina Suciu, University of Petrosani, Petrosani, ROMANIA

Alina Daniela Handra, University of Petrosani, Petrosani, ROMANIA

Andrei Cristian Rada, University of Petrosani, Petrosani, ROMANIA

Marius Daniel Marcu, University of Petrosani, Petrosani, ROMANIA

5. INDUSTRIALIZATION 4.0 - THE DIGITAL REVOLUTION WHICH REDEFINES PRODUCTION

Cristina Suciu, University of Petrosani, Petrosani, ROMANIA

Alina Daniela Handra, University of Petrosani, Petrosani, ROMANIA

Andrei Cristian Rada, University of Petrosani, Petrosani, ROMANIA

Ilie Uțu, University of Petrosani, Petrosani, ROMANIA