



Asociația Pro
Universitatea „1 Decembrie 1918” din Alba Iulia



*1 Decembrie 1918" University of Alba Iulia, Balkan Environmental Association, Asociația Pro Universitatea „1 Decembrie 1918” din Alba Iulia, Department of Cell and Molecular Biology, "Iuliu Hațieganu" University of Medicine and Pharmacy, Cluj-Napoca, Romania, TÜVRheinland România, Environmental Science and Engineering Society, Alba Iulia City Hall, Alba County Council, Sebeș City Hall, Research-Development Resort for Viticulture and Wine Production - Blaj, Aiud City Hall, Association for Socio-Economical development - Alba

INTERNATIONAL U.A.B. – B.EN.A CONFERENCE

ENVIRONMENTAL & SUSTAINABLE ENGINEERING & DEVELOPMENT

ALBA IULIA, ROMANIA MAY 25-27th, 2017

CONFERENCE PROGRAMME

Thursday, May 25th, 2017 – UAB - BENA CONFERENCE

09.00 - 10.00 REGISTRATION OF PARTICIPANTS

(A9 Amphitheater, 11 – 13 N. Iorga Street, Alba Iulia)

10.00 - 10.30 OFFICIAL OPENING CEREMONY

10.30 - 11.00 IN MEMORIAM PROF.DR. F. K. VOSNIAKOS

M. Golumbeanu

B.EN.A. SCIENTIFIC NETWORK AND ITS JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY

11.00 - 11.30 - Coffee Break

11.30-12.30 PLENARY SESSION

Chairpersons: C. Zanbak, M. Popa, M. Mesic

Room: A9 Amphitheater

11.30-11.50 C. Zanbak (Turkey)

SAFETY AND SECURITY OF WATER QUALITY AND RESOURCES WITHIN THE CONTEXT OF SUSTAINABLE DEVELOPMENT

11.50-12.10 M. Mesic, Z. Zgorelec, I. Sestak, A. Percin (Croatia)

INFLUENCE OF NITROGEN FERTILIZATION TO NO₃-N CONCENTRATION IN SUBSURFACE DRAINAGE WATER

12.10-12.30 K. Papatheodorou (Greece)

ENVIRONMENTAL ENGINEERING FOR WATER RESOURCES: A PATH TO SUSTAINABILITY



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12.30 - 14.00 - Lunch (University Restaurant)

14.00 - 16.00 - PAPER PRESENTATION

14.00 - 18.00 - POSTER PRESENTATION

Section 1 - Sustainable Development and Environmental Protection

ASSOCIATED SECTIONS

SECTION 1	SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION
SECTION 5	EFFECTS OF POLLUTION ON HEALTH - CELL BIOLOGY AND MOLECULAR MEDICINE PERSPECTIVES
	<u>Chairpersons:</u> I. Malollari, I. Ionel, P. Sauer, Gh. Z. Nicula
	Room: A9 Amphitheater
14.00 - 14.10	<i>E. Hadjisolomou, K. Stefanides G. Papatheodorou, E.Papastergiadou (Greece)</i> ARTIFICIAL NEURAL NETWORKS AS MANAGEMENT TOOLS REGARDING THE NUTRIENTS CONTROL OF A SHALLOW GREEK HYPERTROPHIC LAKE
14.10 - 14.20	<i>J. Polcyn (Poland)</i> DETERMINANTS OF ENVIRONMENTAL GOVERNANCE IN SUSTAINABLE DEVELOPMENT
14.20 - 14.30	<i>S. Tsiaras, T. Samara, I. Spanos (Greece)</i> EXPLORING LINKAGES AMONG LAND USE CHANGE, ECOLOGICAL FOOTPRINT AND SUSTAINABLE DEVELOPMENT
14.30 - 14.40	<i>P. Sauer, J. Prášek (Czech Republic)</i> ANTHROPOGENIC INFLUENCE ON RIVER WATER CONTENT BY INDUSTRIAL ACTIVITIES IN RIVER BASINS: METHODOLOGY OF COMPLEX ASSESSMENT
14.40 - 14.50	<i>L.D. Robescu (Romania)</i> REDUCING WATER FOOTPRINT OF WASTEWATER TREATMENT PLANTS USING RENEWABLE ENERGY SOURCES
14.50 - 15.00	<i>M. Marcvar, S. Tiron, L. Stoica (Romania)</i> THE VERSATIL OZONE - FROM TOXIC ISSUES TO MEDICAL EFFICACY
15.00 - 15.10	<i>M. Orhan (Turkey)</i> A DIFFERENT APPROACH TO FORMING SUSTAINABLECITIES: CITTASLOW



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15.10 - 15.20

E. Tarakci Eren, T. Düzenli, D. Akyol, H. Tarakci (Turkey)

A STUDY ON PLANTATION OF TRABZON-SURMENE KUTLULAR SOLID WASTE LANDFILL SITE

15.20 - 15.30

N. Boja, F. Boja, A. Teusdea (Romania)

ENVIRONMENTAL IMPACT ASSESSMENT FOR USE IN SEEDBED PROCESSING A VIBRO-COMBINATORS SOIL TILLAGE

15.30 - 15.40

D. Vasović, G. Janačković, J. Malenović Nikolić, L. Milošević, S. Mušicki (Serbia)

PROMOTING REFLECTIVE PRACTICE IN RESOURCES PROTECTION AREA: A STEP TO FORECAST OUTCOMES IN UNCERTAINTY

15.40 - 15.50

M. Brajuskovic, D. Brajuskovic, D. Mijanovic, V. Spalevic (Montenegro)

INDICATORS OF THE REGIONAL DIFFERENCES IN THE AGEING POPULATION OF MONTENEGRO

15.50 - 16.00

V. Bocos – Bintintan (Romania)

ION MOBILITY SPECTROMETRY – A POWERFUL TRACE DETECTION TECHNIQUE APPLIED TO TOXIC INDUSTRIAL CHEMICALS AND TO PESTICIDES

16.00 - 16.10

C. Constantin, L. Stoica, G. Bacioiu, C. Munteanu (Romania)

DISSOLVED AIR FLOTATION (DAF) TECHNIQUE IN WATER QUALITY

14.30 - 16.00 - PARALLEL ACTIVITY OF THE ENVIRONMENTAL SCIENCE AND ENGINEERING SOCIETY (SNSIM)

Round table theme: ***“The situation of occupational codes in Romania in the field of environmental protection”***

Chairperson: A. Ozunu

Location: “Consiliul de Administratie” Room (Apor Palace)

16.10 - 16.30 - Coffee Break

16.30 - 18.00 - PAPER PRESENTATION



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ASSOCIATED SECTIONS

- SECTION 2** **FOOD SAFETY, FOOD QUALITY AND AUTHENTICATION OF FOOD PRODUCTS**
- SECTION 4** **AGRICULTURE, RENEWABLE ENERGY AND ENVIRONMENT MONITORING**
- Chairpersons: M. Dumitru, Y. Kurucu, C. Vac**
Room: A9 Amphitheater
- 16.30 - 16.40 **M. Dumitru, A.-D. Cărăbiș, N. Vrânceanu, C. Sîrbu, N. Mărin (Romania)**
USE OF ALFALFA IN RE-CULTIVATING THE DUMPS RESULTED FROM OPEN CAST MINING IN OLTENIA COALFIELD
- 16.40 - 16.50 **A. Turczak (Poland)**
DIFFERENCES IN ORGANIC CROP PRODUCTION OF CEREALS BETWEEN THE EUROPEAN UNION COUNTRIES
- 16.50 - 17.00 **K. Papatheodorou, K. Ntouros, A. Konstantinidis (Greece)**
REMOTE SENSING FOR CROP MANAGEMENT: A NEW SERVICE MARKET TO PROMOTE MODERNIZATION OF AGRICULTURE
- 17.00 - 17.10 **C. Atalay, E. Olhan, Y. Ataseven (Turkey)**
FACTORS AFFECTING ORGANIC FOOD CONSUMPTION: A CASE STUDY OF ANKARA
- 17.10 - 17.20 **S. Akdemir (Turkey)**
QUALITY CHANGES OF COLD STORED APPLE FOR EVAPORATIVE COOLING
- 17.20 - 17.30 **A. M. Ilea, A. Fițiu, S.C. Vac (Romania)**
STUDIES ON THE TECHNOLOGICAL CHARACTERISTICS OF MARIN BRANDY PRODUCTION FOR CERTIFICATION AS A LOCAL AND ORGANIC PRODUCT
- 17.30 - 17.40 **M. Prada, C. Bungău, D. E Popescu, R. Pancu, D. M. Țiț, S. Bungău (Romania)**
PARAMETRIC STUDIES ON EUROPEAN 20-20-20 ENERGY POLICY TARGETS IN A UNIVERSITY CAMPUS
- 17.40 - 17.50 **S. Akdemir, E. Bal (Turkey)**
EFFECT OF TWO DIFFERENT COOLING SYSTEMS ON QUALITY OF COLD STORED PEACHES
- 17.50 - 18.00 **D. Tanase Popa, I. Barna, O. Barna (Romania)**
GREEN MARKETING AND PERCEPTION OF ECOLOGICAL FOOD IN ROMANIA

19.30 - 22.30 Welcome dinner (ASTORIA RESTAURANT)

Departure to ASTORIA Restaurant at 19.15 from TRANSYLVANIA HOTEL



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Friday, May 26th, 2017 – UAB - BENA CONFERENCE

09.30-09.50

KEY SPEAKER

A. Vaseashta (USA)

STRATEGIES IN GLOBAL WATER POLLUTION MONITORING IN POLICY MAKING TOWARDS SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION

Room: A9 Amphitheater

10.00-11.30

B.EN.A General Assembly Meeting – PARALLEL ACTIVITY

Senate Room (Apor Palace)

10.00-11.30

AGENDA 2030, FOOD ISSUE AND EUROPEAN INTEGRATION SEMINAR, organized by Simone Cesaretti Foundation

Chairpersons: G. P.Cesaretti, Z. Andreopoulou, G. Quaranta

Room: A9 Amphitheater

10.00 -10.15

G. P. Cesaretti (Italy)

INTRODUCTION- THE AGENDA 2030 AND CIRCULAR ECONOMY

10.15-10.30

Z. Andreopoulou (Greece)

INTERNET OF THINGS: A NEW TOOL FOR SUSTAINABLE DEVELOPMENT GOALS

10.30-10.45

I. P. Borrelli (Italy)

THE FOOD ISSUE IN THE AGENDA 2030

10.45-11.00

R. Salvia (Italy)

THE AGRI FOOD SYSTEMS AND RURAL TERRITORIES IN THE CIRCULAR ECONOMY

11.00-11.15

M. Carmen de Angelis (Italy)

FOOD CONSUMPTION MODELS AND CIRCULAR ECONOMY

11.15-11.30

G. Quaranta (Italy)

CONCLUSIONS-THE EU POLICY FRAMEWORK TO SUPPORT CIRCULAR ECONOMY

11.30–11.50 - Coffee Break



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11.50 - 13.40 - PAPER PRESENTATION

11.50 - 17.00 - POSTER PRESENTATION (PARALLEL SECTION)

Section 2 - Food Safety, Food Quality and Authentication of Food Products

Section 3 - European Integration, Capacity Building and Market Economy

Section 4 - Agriculture, Renewable Energy and Environment Monitoring

Section 5 - Effects of Pollution on Health - Cell Biology and Molecular Medicine Perspectives

SECTION 1 SUSTAINABLE DEVELOPMENT AND ENVIRONMENTAL PROTECTION

Chairpersons: R. Serrao Santos, T. Zaharia, A. Vaseashta
Room: A9 Amphitheater

11.50 - 12.00	V. Nita, A. Spinu, M. Nenciu, T. Zaharia (Romania) THE PRINCIPLES OF SUSTAINABILITY ON THE PROCESS OF SITE SELECTION AND ALLOCATION ZONES FOR AQUACULTURE IN ROMANIA
12.00 - 12.10	L. Alexandrov, A.-D. Spinu, I. Nichersu, E. Marin, R. Mateescu, V. Nita, E. Vlasceanu, M. Golumbeanu (Romania) STAKEHOLDERS AND LAND – SEA INTERACTION ANALYSES. EFORIE STUDY CASE
12.10 - 12.20	A.-M. Gheorghe, A. Paiu, M. Mirea-Candea (Romania) MARINE KNOWLEDGE SHARING PLATFORM FOR FEDERATING RESPONSIBLE RESEARCH AND INNOVATION COMMUNITIES (MARINA)
12.20 - 12.30	R.C. Andrei (Guriencu), V. Cristea, L. Dediu, M. Crețu, A. Mogodan (Romania) EFFECTS OF TEMPERATURE ON THE ROUTINE METABOLIC RATES OF THE STERLET STURGEON JUVENILES (ACIPENSER RUTHENUS)
12.30 - 12.40	M. Matei, L. Laslo, N. Ciobotaru, M. Boboc, D. Dumitru, M. Ilie, A. M. Botofei (Romania) METHODS OF EVALUATING THE STATE OF DIVICI-POJEJENA WETLANDS ECOSYSTEM BASED ON PHYSICAL-CHEMICAL ANALYSIS AND SPATIAL MODELLING
12.40 - 12.50	F. Kurak Açıci, O. Aslan, O. Demirel (Turkey) EVALUATION OF TRABZON/SÜRMENE MEMIS AGA MANSION IN THE SCOPE OF SUSTAINABLE TOURISM
12.50 - 13.00	G. Ghita, M. Ilie, C. Tociu, F. Marinescu, A.-M. Anghel, E. Holban, M. Mincu, Gy. Deák (Romania) MODELLING AND SIMULATION OF WASTEWATER TREATMENT PROCESSES IN THE SEWAGE SYSTEM
13.00 - 13.10	G. Murariu, V. Hahuie, A. Murariu, L. Georgescu, C. Iticescu, M. A. Calin, M. Oniga, I. Soare (Romania) ASSESSMENT OF THE EFFICIENCY EXPLOITATION FOR WHITE POPLAR SPECIES USING AN OPTIMIZED MANAGEMENT SYSTEM. CASE STUDY - INDEPENDENTA FOREST



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13.10 - 13.20	D. Volosevici, I. G. Radulescu (Romania) DISSEMINATION OF THE EU ENVIRONMENTAL LEGISLATION AND STANDARDS THROUGH THE EUROPEAN AUTOMOTIVE MULTINATIONAL MANUFACTURERS
13.20 - 13.30	F. Balik Sanli, A. Delen (Turkey) ASSESSMENT OF VEGETATION INDICES FOR THE DETERMINATION OF AGRICULTURAL CROP TYPES
13.30 - 13.40	S. Ertas, Z. Sadiklar, S. Koç, Ö. Demirel (Turkey) SUSTAINABLE DEVELOPMENT CREATED BY KONYA/SILLE HAGIA ELENI CHURCH IN THE SCOPE OF TOURISM POTENTIAL
13.40 - 13.50	S. Mumcu, S. Yilmaz, D. Akyol (Turkey) WITH NATURE IN MIND: “GREEN METAPHORS” AS AN APPROACH TO REFLECT ENVIRONMENTAL CONCERNS AND AWARENESS IN LANDSCAPE DESIGN
13.50- 14.00	M. T. Esetlili, B. Ç. Esetlili, S. Czarnecki, M. Tepecik, Y. Kurucu, D. Anaç (Turkey), R.-A. Düring (Germany) MULTI-CRITERIA APPROACH TO DETERMINE POTENTIAL ORGANIC FARMING AREAS IN ALIAĞA BASIN WITH MULTI-PURPOSE USED LANDS

14.00 – 15.00 - LUNCH (University Restaurant)

15.00 – 16.40 - PAPER PRESENTATION

SECTION 4	AGRICULTURE, RENEWABLE ENERGY AND ENVIRONMENT MONITORING
	Chairpersons: Y. Pelovski, T. Negreanu-Pirjol, A. Bekteshi Room: A9 Amphitheater
15.00 - 15.10	E. Serafimova, Y. Pelovski, V. Petkova (Bulgaria) INTEGRATED TREATMENT OF WASTES FOR PRODUCTION OF SOIL CONDITIONER
15.10 - 15.20	Ö. Köksal, B. Altunkaynak, Y. Ataseven, C. Cevher, Z. Y. Ataseven, G. Gül Yavuz, U. Gül (Turkey) EVALUATING FACTORS AFFECTING ON FARMERS’ INFORMATION SOURCES IN AGRICULTURAL PRODUCTION PRACTICES IN TURKEY
15.20 - 15.30	A. F. Bira, G. Vlăsceanu, C. Ion, M. Zoltán (Romania) STUDIES ON THE EFFECTS OF COLLOIDAL SILVER IN PRESERVING SOME ORGANIC VEGETAL EXTRACTS
15.30 - 15.40	A.-M. Anghel, F. Marinescu, M. Ilie, G. Ghiță, P. Ionescu, I. Mărcuș, C. Tociu, M. Mițiu, L. Laslo, Gy. Deák (Romania) ADVANCED PROCESSING OF ENVIRONMENTAL DATA FOR ESTABLISHING THE ECOLOGICAL STATUS OF THE LOWER DANUBE WATER IN TERMS OF NUTRIENTS



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15.40 - 15.50

B. Czyżewski, A. Matuszczak (Poland), A. Muntean (Romania)
INFLUENCE OF AGRICULTURAL POLICY ON THE ENVIRONMENTAL SUSTAINABILITY OF EUROPEAN FARMING

15.50 - 16.00

I. Oroian, C. Predescu, A. Odagiu, I. Covrig, A. Opincariu, P. Burduhos (Romania)
MONITORING URBAN AIR POLLUTION WITH MICROELEMENTS USING TILLIA CORDATA L. A CASE STUDY: CLUJ-NAPOCA

16.00 - 16.10

R. Yilmaz, O. Yilmaz (Turkey)
THE IMPORTANCE OF GREEN ROOF IN URBAN ECOSYSTEMS

16.10 - 16.20

B. Akdemir, C. Sağlam, K. Bellitürk, Z. Makaraci, A.Y. Uruşan, E. Selçuk Atar (Turkey)
EFFECT OF SPATIAL VARIABILITY ON FERTILISER REQUIREMENT OF OLIVE ORCHARD CULTIVATED FOR OIL

16.20-16.30

H. Arısoy, Y. Ataseven (Turkey)
EVALUATING ENVIRONMENTAL CONSCIOUSNESS LEVEL OF FARMERS IN AGRICULTURAL PRACTICES IN TURKEY: A CASE STUDY OF KONYA

16.30-16.40

V. Mocanu, I. Moise, V. Voicu, S. Dumitru (Romania)
ASPECTS REGARDING THE SOIL ORGANIC MATTER ACCUMULATION UNDER FOREST VEGETATION FROM BABADAG TABLELAND

16.40 – 17.00 - Coffee Break

17.00 – 18.00 - Closing ceremony/Conclusions

19.30 – 22.30 - Dinner (Pub 13 RESTAURANT)



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Saturday, May 27th, 2017 – UAB - BENA CONFERENCE

09.30 - 17.00 - Study visit –Câlnic Fortress

Starting point – TRANSYLVANIA Hotel, at 9.30 o'clock

Sunday, May 28th, 2017 – UAB - BENA CONFERENCE

DEPARTURE OF PARTICIPANTS



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POSTER SESSION

Room: University Hall

Thursday, May 25th, 2017

Section 1. SUSTAINABLE DEVELOPMENT AND ENVIRONMENT PROTECTION

Chairpersons: N. Sdrula, C. Constantin, A. Kokkinakis, D. Vasovic, C. Rosu, M. Nenciu, D. Danuletiu, A. Socol

- P1. **A. Andjelkovic, R. Ristic, M. Janic, V. Djekovic (Serbia), V. Spalevic (Montenegro)**
GENESIS OF SEDIMENTS AND SILTATION OF THE ACCUMULATION "DUBOKI POTOK" OF THE BARAJEVSKA RIVER BASIN, SERBIA
- P2. **M. Mazilu, M. Andrei, D. Dumitescu, A. Baltălungă (Romania)**
ROMANIAN ECOTOURISM CERTIFICATION FOR THE SUSTAINABLE DEVELOPMENT
- P3. **A. Jean, Gh. H. Popescu, M. Gogonea, E. Nica, R. Ladaru, M. Zaharia (Romania)**
AN ECONOMIC CLUSTER ANALYSIS ON EU-28 ENVIRONMENTAL PROTECTION PARADIGM CHANGING
- P4. **M. Arseni, A. Roșu, L. Georgescu, G. Murariu, D. E. Constantin (Romania)**
ASSESSING FLOODED SURFACE AREA USING LANDSAT SATELLITE DATA ON SIRET RIVER DOWNSTREAM OF LOWER DANUBE
- P5. **D. Badulescu, A. Badulescu, D. P. Bac, T. Saveanu, A. Florea, D. Perticas (Romania)**
EDUCATION AND SUSTAINABLE DEVELOPMENT: FROM THEORETICAL INTEREST TO SPECIFIC BEHAVIOURS
- P6. **Ș. Baias, D. Ilieș, A. Ilieș, G. Herman, O. Gaceu, F. Măduța (Romania), J. Wendt (Poland)**
ENVIRONMENTAL EDUCATION IN PROTECTED AREAS. CASE STUDY FROM BIHOR COUNTY, ROMANIA
- P7. **M. A. Bara (Romania)**
RURAL COMMUNITIES FROM THE APUSENI MOUNTAINS
- P8. **M. A. Bara, N. Ludușan (Romania)**
SOCIAL IMPLICATIONS OF SALT EXPLOITATION OCNA MUREȘ (ROMANIA) FROM ANTIQUITY TO THE PRESENT
- P9. **E. Bekteshi (Albania)**
IMPACT OF WATER HARDNESS AS A RISK FACTOR IN THE FORMATION OF KIDNEY STONES

- P10. **J. Benedek (Hungary), K. Ivan (Romania)**
NIGHT-TIME LIGHTS VARIATION AND ECONOMIC PERFORMANCE
- P11. **I. P. Borrelli (Italy)**
THE ITALIAN POSITIONING ON AGENDA 2030: IS ITS AGRICULTURE REALLY SUSTAINABLE?
- P12. **I. D. Brăhăița, C. Baci, I. C. Pop, C. Roba, R. Mihăiescu, C. Modoi, R. M. Truță (Romania)**
USE OF LIMESTONE IN OPEN AS WELL AS IN CLOSED SYSTEM FOR TREATING ACIDIC WATER. LABORATORY STUDY
- P13. **I. G. Breaban (Romania)**
TRACE ELEMENTS ANALYSIS IN DIFFERENT MATRICES USING LA-ICP-MS
- P14. **M. Bruno (Italy)**
SUSTAINABLE TOURISM DEMAND: AN ITALIAN CASE STUDY
- P15. **L. Burtan, A. Vrînceanu, C. Sîrbu, T. Cioroianu, M. Dumitrașcu, M. Popovici (Romania)**
ECONOMIC ANALYSIS BETWEEN MINIMUM TILLAGE AND CONVENTIONAL SYSTEM
- P16. **D. A. Buzoianu (Romania)**
STUDY ON ENVIRONMENTAL POLICIES AND STRATEGIES IMPLEMENTED IN OIL AND GAS INDUSTRY
- P17. **G. P. Cesaretti, R. Misso (Italy)**
FOOD ISSUE AND CIRCULAR ECONOMY: A NEW STRATEGY FOR TERRITORIAL SUSTAINABILITY
- P18. **J. D. Chelaru, S. Achilov, D. Aylakov, L. M. Muresan (Romania)**
CORROSION INHIBITION OF CARBON STEEL IN WASTEWATER FROM PETROLEUM AND OIL INDUSTRY
- P19. **V. D. Constantin, A. V. Tașcu (Romania)**
THE IMPACT OF THE CAR FLEET RENEWAL PROGRAMME ON ENVIRONMENT PROTECTION IN ROMANIA
- P20. **N. Cotoian, L. C. Cotet, L. M. Mureșan (Romania)**
CORROSION BEHAVIOR OF Zn-GO AND Zn-rGO COATINGS ELECTRODEPOSITED ON STEEL
- P21. **V. D. Craia-Joldes, M. L. Dan, A. Kellenberger, N. Vaszilcsin (Romania)**
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Friday, May 26th, 2017

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