

UNIVERSITY OF BELGRADE, SERBIA

TECHNICAL FACULTY IN BOR



**VI INTERNATIONAL  
SYMPOSIUM ON  
ENVIRONMENTAL AND  
MATERIAL FLOW  
MANAGEMENT – EMFM 2016**

**P R O G R A M**

**October 2-4, 2016**

**Hotel “ALBO”, Bor,  
Serbia**

**ORGANIZED BY:**

**UNIVERSITY OF BELGRADE,  
TECHNICAL FACULTY IN BOR**

Vojske Jugoslavije 12, 19210 Bor, Serbia  
Tel/fax: 030/424-547

**LANGUAGE**

The official symposium language will be English and Serbian,  
without simultaneous translation.

**THE CONFERENCE WORK**

The symposium work will be organized in plenary sessions and in  
oral sections. The presentation of papers is limited to 10 - 15  
minutes.

For the oral presentation the authors will be provided with a  
laptop with the Windows XP Professional operating system, Office  
2010, as well as a LCD projector.

**PARTICIPATION FEES**

The registration fee for the symposium participants is 100€ in  
dinar equivalent on the date of payment. The registration fee  
includes: The Book of abstracts with accompanying materials,  
Proceedings of full papers (after the symposium is finished),  
banquet dinner and refreshments during the breaks and  
admission to the symposium.

The registration fee should be paid through the following bank  
account:

SWIFT MESSAGE MT103

FIELD 32A: VALUE DATE-CURRENCY-AMOUNT

FIELD 50 K: ORDERING CUSTOMER

FIELD 57A: (Acc. With bank): NBSRRSBG

This is SWIFT (NBSRRSBG) Bank address: National Bank of  
Serbia, Bulevar Kralja Aleksandra 15, 11000 Belgrade

FIELD 59: (Beneficiary Customer)

/RS35908500100000777745

This is IBAN University of Belgrade, Technical faculty in Bor

Field 70: DETAILS OD PAYMENT

(The International Symposium on Environmental Management and  
Material Flow Management)

The payment confirmation should be send to  
[emfm.tfbor@gmail.com](mailto:emfm.tfbor@gmail.com) and [emfm@emd.edu.rs](mailto:emfm@emd.edu.rs).

Registration fee for domestic participants should be paid through  
the following bank account:

Tehnički fakultet u Boru:

Račun: 840-1478666-37

poziv na broj: 175

Registration fee can be paid with the registration (the same  
amount).

**ACCOMMODATION PRICES IN THE HOTEL «ALBO»Bor**

Two days full board arrangement  
in single room (1/1): 70 -75 EUR

Two days full board arrangement  
in double room/ per person (1/2): 60 – 65 EUR

Hotel has its own parking lot.

**Reception** + 381 30 24-96-962

**Reservation** + 381 30 24-96-964

**E-mail:** [office@hotel-albo.rs](mailto:office@hotel-albo.rs)

<http://www.hotel-albo.rs/>

**ALTERNATIVE ACCOMMODATION IN BOR**

For participants who do not reserve accommodation at the Hotel  
ALBO in Bor, we propose the following alternative accommodation  
in Bor:

**Hotel Jezero**

Tel. +381(30)482-940

<http://www.hoteljezero.rs/>

[office@hoteljezero.rs](mailto:office@hoteljezero.rs)

**Srpska Kruna**

Brestovačka banja 19216

2/2, 3/3, 2/APP

+381 30 477 078, +381 30 477 079

[www.brestovackabanja.co.rs](http://www.brestovackabanja.co.rs)

[bbanjaskruna@gmail.com](mailto:bbanjaskruna@gmail.com)

**Klub RTB Bor**

Brestovačka banja 19216

+381 30 477 009, +381 30 477 010

[www.rtbklub.rs](http://www.rtbklub.rs)

**WEATHER CONDITIONS**

Weather forecast for the town of Bor can be found at the web site  
<http://emfm.tf.bor.ac.rs/accommodation/>

## TIME AND VENUE

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The symposium will be held from 2<sup>nd</sup> October – 4<sup>th</sup> October 2016 at the hotel "ALBO" in Bor.

The Symposium Office will be opened by the following schedule:

October 2<sup>nd</sup>, 2016 from 17<sup>00</sup> to 20<sup>00</sup>

October 3<sup>rd</sup>, 2016 from 8<sup>00</sup> to 20<sup>00</sup>

October 4<sup>th</sup>, 2016 from 8<sup>00</sup> to 11<sup>00</sup>

## INFORMATION

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Djordje Nikolić

[emfm@emd.edu.rs](mailto:emfm@emd.edu.rs) and [emfm.tfbor@gmail.com](mailto:emfm.tfbor@gmail.com)

Mobile tel. number: +381 64 066 58 88

## OPŠTI PROGRAM / GENERAL PROGRAM

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### Nedelja 02.10.2016. (Sunday 02.10.2016)

Dolazak gostiju – Arrival of participants

17<sup>00</sup>-20<sup>00</sup> Registracija učesnika (Registration)

### Ponedjeljak 03.10.2016. (Monday 03.10.2016)

08<sup>00</sup>-09<sup>00</sup> Prijem i registracija učesnika (Registration)  
(Konferencijska sala / Conference room)

09<sup>00</sup>-09<sup>30</sup> Otvaranje konferencije (Official opening)

09<sup>30</sup>-11<sup>30</sup> Plenarna predavanja - Plenary lectures

11<sup>30</sup>-12<sup>00</sup> Kafe pauza (Coffee break)

12<sup>00</sup>-13<sup>30</sup> Rad po sekcijama - Conference sessions

13<sup>30</sup>-15<sup>00</sup> Ručak (Lunch)

(Konferencijska sala / Conference room)

15<sup>00</sup>-17<sup>00</sup> Rad po sekcijama - Conference sessions

17<sup>00</sup>-17<sup>30</sup> Kafe pauza (Coffee break)

17<sup>30</sup>-19<sup>00</sup> Rad po sekcijama - Conference sessions

20<sup>00</sup> Svečana večera (Banquet dinner)

### Utorak 04.10.2016 (Tuesday 04.10.2016)

(Konferencijska sala / Conference room)

09<sup>00</sup>-9<sup>30</sup> Zatvaranje skupa (Official closure)

10<sup>00</sup>-13<sup>00</sup> Fakultativni izlet (Optional excursion)

13<sup>30</sup> – 15<sup>00</sup> Ručak i odlazak učesnika – Lunch and departure of participants

## INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT – EMFM 2016

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**03.10.2016. 09<sup>00</sup>-11<sup>30</sup>**

**(Konferencijska sala / Conference room)**

**Predsedavajući/Chairman: Ž. Živković, I. Mihajlović, Š. Goletić, M. Ćosić**

**09<sup>00</sup>-09<sup>30</sup>: Otvaranje Konferencije – Official opening**

**(Konferencijska sala / Conference room)**

**Pozdravni govor/ Opening note:**

**1. Ivan Mihajlović, co-president of the Scientific Board**

**2. M. Ćosić, representative of the Environmental Campus in Birkenfeld**

**3. Šefket Goletić, co-president of the Scientific Board**

**4. RTB Copper smelter representative**

**5. Representative of the Environmental office of the municipality Bor**

**09<sup>30</sup>-11<sup>30</sup> Plenarna predavanja – Plenary lectures**

**(Konferencijska sala / Conference room)**

**1. Peter Schulte**

*Scientific Representative of the Institute for European Affairs INEA for the Scientific Cooperation of South-Eastern-Europe Universities*  
**CAN UNIVERSITIES ENHANCE THE ECONOMIC DEVELOPMENT OF REGIONS?**

**2. Šefket Goletić, Nusret Imamović, Džafer Dautbegović, Sanela Beganović**

*University of Zenica, Faculty of Mechanical Engineering Zenica, B&H*

**THE STUDY OF THE IMPACT OF ATMOSPHERIC POLLUTION ON THE AGRICULTURAL SOIL IN THE ENVIRONMENT OF IRONWORKS IN ZENICA**

**3. Kornélia Lazányi**

*Óbuda University, Keleti Faculty of Business and Management, Hungary*

**INNOVATION - THE ROLE OF TRUST**

**4. Milica Arsić, Živan Živković**

*University of Belgrade, Technical faculty in Bor*

**MODELLING THE PROCESS OF GROUND-LEVEL OZONE FORMATION AND ITS DISTRIBUTION IN URBAN AREAS**

## 5. Miljana Ćosić

*Trier University of Applied Sciences – Environmental Campus Birkenfeld Institute for Applied Material Flow Management – IfaS Department for European projects and fundraising*

**TOWARDS THE ZERO EMISSION COMMUNITIES, STUDY CASE OF THE COMMUNITY OF MORBACH**

*Diskusija / Discussion*

*Kafe pauza/ Coffee Break*

**INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT – EMFM2016**

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**03.10.2016. 12<sup>00</sup>-13<sup>30</sup>**

**(Konferencijska sala / Conference room)**

**Predsedavajući / Chairman: I. Mihajlović, K. Lazányi, Dž. Dautbegović**

**1. Džafer Dautbegović, Šefket Goletić**

*University of Zenica, Faculty of Mechanical Engineering, Zenica, Department for Environmental Engineering, B&H*

**THE SYSTEM OF RELOADING MUNICIPAL WASTE**

**2. Adrian Dumitru Tanțău, Maria Alexandra Nichifor**

*Bucharest University of Economic Studies*

**CONSUMER BEHAVIOR AND PERCEPTION ON THE RENEWABLE ENERGY INSTALMENTS. CASE STUDY: WIND ENERGY IN ROMANIA AND THE NETHERLANDS**

**3. Renata Stasiak-Betlejewska**

*Czestochowa University of Technology, Faculty of Management, Institute of Production Engineering, Poland*

**QUALITY ASSURANCE OF THE WASTEWATER TREATMENT PLANT IN RELATION TO ENVIRONMENTAL ASPECTS**

**4. Renata Stasiak-Betlejewska**

*Czestochowa University of Technology, Faculty of Management, Institute of Production Engineering, Poland*

**ANALYSIS OF THE QUALITY ISSUES RELATED TO THE WATER PRODUCTION PROCESS**

**5. Muvedet Šišić, Šefket Goletić, Nusret Imamović**

*ALBA Zenica d.o.o. B&H*

*Faculty of Mechanical Engineering in Zenica, B&H*

**EFFECT OF INITIAL RELATIONS C/N ON THE STABILITY OF THE PROCESS OF COMPOSTING SLUDGE FROM MUNICIPAL WASTEWATER TREATMENT PLANT**

**6. Danijela Voza, Milovan Vuković**

*University of Belgrade, Technical faculty in Bor*

**SERBIAN WATER QUALITY INDEX AS A TOOL FOR EFFECTIVE WATER QUALITY MANAGEMENT**

**7. Tatjana Živković, Vesna Stojanović**

*Belgrade City Authority, R&B College*

**LEGAL FRAMEWORK FOR ENVIRONMENTAL PROTECTION IN THE REPUBLIC OF SERBIA**

*D i s k u s i j a / Discussion*

**R u č a k / Lunch**

**INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT – EMFM2016**

**03.10.2016. 15<sup>00</sup>-17<sup>00</sup>**

*(Konferencijska sala / Conference room)*

*Predsedavajući/Chairman: P. Đorđević, R. Stasiak-Betlejewska, N. Imamović*

**1. Boris Agarski, Djordje Vukelic, Ferenc Kiss, Milana Ilic Micunovic, Borut Kosec, Igor Budak**

*Faculty of Technical Sciences, University of Novi Sad, Faculty of Technology, University of Novi Sad, Faculty of Natural Sciences and Engineering, University of Ljubljana*

**COMPARISON OF LIFE CYCLE ASSESSMENT TOOLS: SIMAPRO AND OPENLCA**

**2. Modrite Pelse, Lasma Aleksejeva**

*Latvia University of Agriculture*

**SUSTAINABLE AGRICULTURAL DEVELOPMENT IN LATVIA**

**3. Vehid Birdahić, Nusret Imamović**

*Ministry of Internal Affairs of Zenica-Doboj Canton*

*University of Zenica, Faculty of Mechanical Engineering in Zenica*

**LIFE CYCLE ASSESSMENT OF PRODUCTS EPS-F (EXPANDED POLY STYRENE) OF POLYSTYRENE**

**4. Aleksandra Jovanović, Miloš Mihajlović**

*Fakultet za pravo, bezbednost i menadžment*

*"KONSTANTIN VELIKI" Niš, Niška poslovna škola strukovnih studija, Niš*

**ENVIRONMENTAL MANAGEMENT - A PLATFORM FOR SUSTAINABLE DEVELOPMENT**

**5. Oludele Mayowa SOLAJA**

*Department of Sociology, Olabisi Onabanjo University, Ago-Iwoye, Nigeria*

**ECOPRENEURSHIP AND GREEN PRODUCT INITIATIVES (GPI): AN AGENDA FOR SUSTAINABLE DEVELOPMENT IN NIGERIA**

**6. Natalia B. Safronova, Irina Bazen, Elena Kalugina**

*Russian Presidential Academy of National Economy and Public Administration (RANEPA), Lomonosov Moscow State University Business School*

**YOUTH ENVIRONMENTAL ENTREPRENEURSHIP AS A FACTOR OF SUSTAINABLE ECONOMIC GROWTH**

**7. Aleksandra Jovanović, Maja Arsić Trajković, Miroslav Trajković**

*Fakultet za pravo, bezbednost i menadžment*

*"KONSTANTIN VELIKI" Niš, Niška poslovna škola strukovnih studija, Niš*

**WASTE AS A SOURCE RESOURCES**

**8. Alexey S. Budakov, Mikhail Myltsev**

*Institute of sectoral Management, The Russian Presidential Academy of National Economy and Public Administration (RANEPA)*

**THE ROLE OF COSTS AND ASSESSMENT OF THEIR ECONOMIC EFFICIENCY WHEN IMPLEMENTING ENERGY SAVING TECHNOLOGIES IN BLOCKS OF FLATS MANAGEMENT**

**9. Žarko Vranjanac, Dragan Spasić**

*Faculty of occupational safety in Nish*

**ECONOMIC EFFECTS OF COLLECTION AND PRIMARY RECYCLING OF PACKAGING WASTE FROM HYGIENE AND CLEANING PRODUCTS IN SERBIA**

**10. Kovačević Nikola, Nenad Miloradović**

*Faculty of engineering sciences – University in Kragujevac*

**POTENTIAL CONCEPTUAL SOLUTION FOR WAREHOUSING SYSTEMS THAT USE MANUAL PALLET RACKS - AUTOMATED PALLET RACK: DESIGN, FUNCTIONALITY, PURPOSE AND BENEFITS OF USING**

**11. Mostafa Abobaker, Faisal Mohamed, Mirolub Adzic, Naser Shteba, Giuma Shneba, Nouredine Toumi**

*Faculty of Mechanical Engineering, University of Belgrade, Libyan Authority for Science Technology and Research, Libya*

**INVESTIGATORY CFD STUDY OF EXHAUST GAS DISPERSION FROM POWER PLANT IN WEST-ZAWIA CITY IN LIBYA**

*Diskusija / Discussion*

*Kafe pauza/ Coffee Break*

**INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT – EMFM2016**

**03.10.2016. 17<sup>30</sup>-19<sup>00</sup>**

*(Konferencijska sala / Conference room)*

*Predsedavajući/Chairman: M. Arsić, A. Jovanović*

**1. Sanela Arsić, Đorđe Nikolić, Živan Živković**

*University of Belgrade, Technical Faculty in Bor*

**DEVELOPMENT SWOT-AHP HYBRID MODEL FOR PRIORITIZATION STRATEGY OF NATIONAL PARK DJERDAP**

**2. Bojan Stojčević, Živan Živković, Đorđe Nikolić**

*High technical school of professional education, Zvečan, Serbia*

**University of Belgrade, Technical Faculty in Bor, Serbia AHP APPLICATION FOR WIND FARM SITE SELECTION: CASE KOSTOLAC**

**3. Aleksandra Fedajev, Radmilo Nikolić, Danijela Durkalić**

*University of Belgrade, Technical Faculty in Bor*

**USAGE OF RENEWABLE ENERGY SOURCES IN THE FUNCTION OF SUSTAINABLE ECONOMIC DEVELOPMENT OF TRANSITION COUNTRIES**

**4. Radmila Janković, Jelena Jovkić**

*University of Belgrade, Technical Faculty in Bor, Engineering Management Department*

**ENVIRONMENTAL AWARENESS IN COMPANIES OF EASTERN SERBIA**

**5. Ivica Nikolić, Isidora Milošević, Ivan Mihajlović, Predrag Đorđević**

*University of Belgrade, Technical Faculty in Bor, Management Department, Bor, Serbia*

**MULTI-CRITERIA RANKING OF TECHNOLOGY PROCESS IN HEAVY INDUSTRY**

**6. László Dóka**

*Obuda University, Keleti Faculty of Business and Management*

**AN ALTERNATIVE, ENVIRONMENT FRIENDLY WAY OF OPERATION OF THE COPPERMINE IN BOR**

**7. András Vass, Péter Szikora**

*Obuda University, Keleti Faculty of Business and Management*

**THE IMPORTANCE OF REGULAR ASSESSMENT IN THE HIGHER EDUCATION OF HUNGARY**

## **PUBLICATIONS:**

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All papers and reports presented at the Symposium will be published in the Book of Proceedings of the International Symposium on Environmental and Material Flow Management.

Selected papers will be published in special issue of the journal Serbian Journal of Management, after additional revision ([www.sjm06.com](http://www.sjm06.com)).

Selected papers from the conference will also be published in the scientific journal: Acta Oeconomica Universitatis Selye published by Faculty of Economics at J. Selye University in Komárno, Slovakia.

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*W E L C O M E !!!*

### **8. Réka Svébis, János Varga**

*Obuda University, Keleti Faculty of Business and Management*

#### **THE IMPORTANCE OF INNOVATION MANAGEMENT**

### **9. Sanela Arsić, Ivan Mihajlović, Peter Schulte**

*University of Belgrade, Technical Faculty in Bor, Institute for European Affairs in Essen, Germany*

#### **SIGNIFICANCE OF CORPORATE SOCIAL RESPONSIBILITY AND ITS MOST IMPORTANT DIMENSIONS**

### **10. Goran Stojanović, Dejan Bogdanović**

*University of Belgrade, Technical Faculty in Bor*

#### **DEVELOPMENT OF HYBRID MODELS IN PHASE MULTIPLE-CRITERIA FOR PRIORITIZATION RELIABILITY ENVIRONMENT SUPPLIERS MINING SYSTEMS**

### **10. Indira Popadić**

*University of Belgrade, Technical Faculty in Bor*

#### **INNOVATIVE SUPPLIER PRIORITIZATION FUZZY MODEL DEVELOPMENT - A CASE STUDY OF THE SERBIAN ANIMAL FEED PRODUCTION COMPANY**

### *Diskusija / Discussion*

### **20<sup>00</sup> Svečana večera / Banquet dinner**

## **INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT – EMFM2016**

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**04.10.2016. 09<sup>00</sup>-9<sup>30</sup>**

*(Konferencijska sala / Konferencijska sala / Conference room)*

*Predsedavajući/Chairman: P. Đorđević, M. Arsić,*

**09<sup>00</sup>-9<sup>30</sup> Zatvaranje skupa (Official closure)**

**10<sup>00</sup>-13<sup>00</sup> Fakultativni izlet (Optional excursion)**

**13<sup>30</sup> – 15<sup>00</sup> Ručak i odlazak učesnika – Lunch and departure of participants**