

UNIVERSITY OF BELGRADE, SERBIA

TECHNICAL FACULTY IN BOR



**IV INTERNATIONAL
SYMPOSIUM ON
ENVIRONMENTAL AND
MATERIAL FLOW
MANAGEMENT – EMFM2014**

P R O G R A M

**Hotel «JEZERO»
Bor, Serbia
31st October – 2nd November 2014**

ORGANIZED BY:

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

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

LANGUAGE

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

THE CONFERENCE WORK

The conference 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
2007, as well as a LCD projector.

PARTICIPATION FEES

The registration fee for the conference 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 conference is finished),
banquet dinner and refreshments during the breaks and
admission to the conference.

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 and 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 «JEZERO»

Two days full board arrangement: single room (1/1): 70 -75 EUR
Two days full board arrangement: double room/per person (1/2):
60 – 65EUR

**Room reservations should be made before 27th of October
2014!**

Hotel has its own parking lot.

Reception: +381(30)482-940

Reservation:+381(30)482-340

Fax: +381(30)482-440

E-mail: prodaja@hoteljezero.rs
office@hoteljezero.rs

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

ALTERNATIVE ACCOMMODATION IN BOR

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

Hotel Albo Bor

Tel/fax. 030/24 96 962, 24 96 964

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

office@hotel-albo.rs

Srpska Kruna

Brestovačka banja 19216

2/2, 3/3, 2/APP

+381 30 477 078, +381 30 477 079

www.brestovackabanja.co.rs

bbanjaskruna@gmail.com

Klub RTB Bor

Brestovačka banja 19216

+381 30 477 009, +381 30 477 010

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

The conference will be held from 31st October – 2nd November 2014 at the Hotel Lake, at Lake Bor.
The Conference Office will be opened by the following schedule:

October 31, 2014 from 17⁰⁰ to 20⁰⁰
November 1, 2014 from 8⁰⁰ to 20⁰⁰
November 2, 2014 from 8⁰⁰ to 11⁰⁰

INFORMATION

Djordje Nikolić

emfm@emd.edu.rs and emfm.tfbor@gmail.com
Mobile tel. number: +381 64 066 58 88

OPŠTI PROGRAM / GENERAL PROGRAM

Petak 31.10.2014. (Friday 31.10.2014)

Dolazak gostiju – Arrival of participants
17⁰⁰-20⁰⁰ Registracija učesnika (Registration)

Subota 01.11.2014. (Saturday 01.11.2014)

08⁰⁰-09⁰⁰ Prijem i registracija učesnika (Registration)
(Konferencijska sala / Conference room)
09⁰⁰-09³⁰ Otvaranje konferencije (Official opening)
09⁴⁵-10³⁰ Plenarna predavanja - Plenary lectures
10³⁰-11⁰⁰ Kafe pauza (Coffee break)
11⁰⁰-13³⁰ Rad po sekcijama - Conference sessions
13³⁰-15⁰⁰ Ručak (Lunch)
15⁰⁰-17⁰⁰ Poseta kompaniji RTB - Visit to RTB Company

(Konferencijska sala / Conference room)
17⁰⁰-18³⁰ Rad po sekcijama - Conference sessions
18³⁰-19⁰⁰ Kafe pauza (Coffee break)
19⁰⁰-20⁰⁰ Rad po sekcijama - Conference sessions
21⁰⁰ Svečana večera (Banquet dinner)

Nedelja 02.11.2014 (Sunday 02.11.2014)

(Konferencijska sala / Conference room)
09⁰⁰-9³⁰ Zatvaranje skupa (Official closure)
10⁰⁰-13⁰⁰ Fakultativni izlet (Optional excursion)

INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT - EMFM14

01.11.2014. 09⁰⁰-11³⁰

(Konferencijska sala / Conference room)
Predsedavajući/Chairman: Ž.Živković, D. Živković, Š. Goletić

09⁰⁰-09³⁰: Otvaranje Konferencije – Official opening
(Konferencijska sala / Conference room)

Pozdravni govor/ Opening note:

- 1. Dragana Živković**, president of the Scientific Board
- 2. Šefket Goletić**, co-president of the Scientific Board
- 3. Klaus Helling**, co-president of the Scientific Board
- 4. RTB Copper smelter representative**
- 5. Representative of the Environmental office of the municipality Bor**
- 6. Peter Schulte**, project manager of Resita Network

09⁴⁵-10³⁰ Plenarna predavanja – Plenary lectures
(Konferencijska sala / Conference room)

1. Šefket Goletić, Mustafa Imamović, Nusret Imamović
Faculty of Mechanical Engineering University of Zenica, Bosnia and Herzegovina

IMPACT OF METALLURGICAL PLANTS ON ENVIRONMENT AND MEASUREMENT OF PROTECTION

2. Kai Schlachter, Klaus Helling
Trier University of Applied Sciences, Environmental Campus Birkenfeld, Germany

SUSTAINABILITY AT UNIVERSITIES EXEMPLIFIED BY THE ENVIRONMENTAL CAMPUS BIRKENFELD

3. Ivan Mihajlović, Nada Štrbac, Predrag Đorđević, Živan Živković

University of Belgrade, Technical faculty in Bor, Engineering management department, Serbia

DETERMINING THE OPTIMAL CONDITIONS OF THE INDUSTRIAL WASTE TREATMENT USING FACTORIAL EXPERIMENTAL DESIGN

Diskusija / Discussion

Kafe pauza/ Coffee Break

INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT - EMFM14

01.11.2014. 11⁰⁰-13³⁰

(Konferencijska sala / Conference room)
Predsedavajući / Chairman: D. Živković, A. Pakina, Š. Goletić

1. Alla Pakina, Mikhail Slipenchuk

Department of Environmental Management; Lomonosov Moscow State University, Moscow, Russia

ENVIRONMENTAL FLOWS MANAGEMENT AND SYSTEMS OF ENVIRONMENTAL-ECONOMIC ACCOUNTING

2. Pál-Fám F., Pál-Fám M., Farkas S., Kazinczi G.

Kaposvár University, Institute of Plant Science, Kaposvár, Hungary

UNIQUE LANDSCAPE VALUES OF SOUTH BALATON REGION, HUNGARY

3. Milan Topić, Hubert Biedermann

Chair of Economic and Business Management, Montanuniversitaet Leoben, Austria

PLANNING OF INTEGRATED/SUSTAINABLE SOLID WASTE MANAGEMENT (ISWM) – MODEL OF INTEGRATED SOLID WASTE MANAGEMENT IN REPUBLIKA SRPSKA/BIH

4. Kristina Smiljković

Faculty of Occupational Safety, Niš, Serbia

SLEIPNER PROJECT

5. Biljana Jovanović, Milana Popović, Boban Todorović

RTB Bor – Copper Smelter and Refinery Bor, Serbia

ARSENIC AS ENVIRONMENTAL POLLUTANT

6. Djordje Novković, Nikola Maričić, Mirosljub Jevtić

Faculty of Technical Sciences at Kosovska Mitrovica; Serbia

IMPROVEMENT OF PICO HYDROPOWER PLANT ON THE RADOVLJANSKA RIVER

7. Nebojša Denić, Boban Spasić, Momir Milić

Fakultet informacionih tehnologija, Serbia

SOFTWARE IN FUNCTION ENVIRONMENT THROUGH SAMPLING OF WATER QUALITY

8. Jovan Sredojević, Maja Krajišnik

Mašinski fakultet u Zenici, Univerzitet u Zenici, Bosnia and Herzegovina

PROCESS OF WASTE TYRES PYROLYSIS

9. Miomir Jovanović¹, Vojislav Tomić¹, Danijel Marković¹, Goran Radoičić¹, Miodrag Arsić²

¹Mechanical Faculty University of Niš, Department of Transport and Logistics; ²Electronic Faculty University of Niš, Serbia

NEW SOLUTION FOR CONTACT SPEED MEASUREMENT OF MINING SKIPS MACHINES

Diskusija / Discussion

10. Ostakh Sergey V.¹, Oksana Mironova S.²

¹Gubkin Russian State University of Oil and Gas; ²The Foundation "National Center for Environmental Management and Cleaner Production for the oil and gas industry"; 119991, Russia, Moscow, Leninsky Prospect, 65, Russia

ECOENGINEERING ALGORITHMIZATION OF OIL LENSES EXTRACTION

11. Pasqua L'Abbate¹, Michele Dassisti¹, Claudio Pattara²

¹Polytechnic of Bari, ²University of Pescara, Italy

LIFE CYCLE ASSESSMENT OF POLYESTER FABRIC - ITALIAN CASE STUDY

12. Nada Štrbac¹, Miroslav Sokić², Dragana Živković¹, Vladislav Matković², Branislav Marković²

¹University of Belgrade, Technical Faculty, Bor, Serbia; ²Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia

ENVIRONMENTALLY FRIENDLY COMPLEX SULPHIDE-BARITE ORE TREATMENT BY LEACHING IN FERRIC CHLORIDE SOLUTION

13. Danijela Glušac¹, Tatjana Glušac²

¹Novi Sad Business School, Serbia; ²Faculty of Law in Novi Sad, Serbia

INSURANCE AND ENVIRONMENTAL PROTECTION

14. Milica Arsić, Živan Živković, Danijela Voza

Technical Faculty in Bor, University of Belgrade, Serbia

EVALUATION OF AIR QUALITY IN BELGRADE URBAN AREA

15. Lidija Gomidželović¹, Dragana Živković², Dragan Manasijević², Vladan Čosović³, Nadežda Talijan³

¹Mining and Metallurgy Institute Bor; ²University in Belgrade, Technical Faculty in Bor; ³University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Serbia

INNOVATIVE APPROACH TO DEVELOPMENT OF NEW GOLD-BASED ECO SOLDER ALLOY

16. Aca Jovanović¹, Andreas Jungmann²

¹Technical Faculty in Bor, and GLOBEX Engineering and Construction d.o.o Beograd, Serbia; ²Technical University of Aachen (RWTH), Faculty of Georesources and Materials, Unit Mineral processing, Aachen, Germany and CALA

DRY PROCESSES OF RECOVERY OF THE METAL AND PRODUCTION OF CONSTRUCTION MATERIAL FROM STEEL AND FERROCHROMIUM SLAG

Diskusija / Discussion

Ručak / Lunch

INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT - EMFM14

01.11.2014. 17⁰⁰-18³⁰

(Konferencijska sala / Conference room)

Predsedavajući/Chairman: I. Mihajlović, Y. Yazovskikh, G. Pavlovska

1. Yevgeniya Yazovskikh¹, A. Mokronosov²

¹Ural Federal University named after the first President of Russia B.N. Yeltsin; Yekaterinburg, Russia; ²Russian State Professional and Pedagogical University; Yekaterinburg, Russia

SUSTAINABLE COMPETITIVENESS OF UNIVERSITIES IN TERMS OF GLOBALIZATION AND INTERNATIONALIZATION OF HIGHER EDUCATION

2. J. V. Milojković, M. D. Stojanović, M. L. Mihajlović, M. S. Petrović, T. D. Šoštarić, J. T. Petrović, M.R. Stanojević

Institute for Technology of Nuclear and Other Mineral Raw Materials, Serbia

SORPTION OF Pb(II) FROM AQUEOUS SOLUTION BY A POWDER MIXTURE OF MYRIOPHYLLUM SPICATUM AND BENTONITE

3. Marija Petrović, Tatjana Šoštarić, Jelena Milojković, Marija Mihajlović, Zorica Lopičić, Jelena Petrović, Marija Stanojević, Mirjana Stojanović

Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia

BIOSORPTION OF METHYLENE BLUE ONTO CORN COB

4. Marija Savić, Djordje Nikolić, Živan Živković

University of Belgrade, Technical Faculty in Bor, Serbia

MULTI-CRITERIA OPTIMIZATION OF BATCH COMPOSITION FOR THE HYDROMETALLURGICAL PROCESS OF ZINC PRODUCTION

5. Džafer Dautbegović, Šefket Goletić

University of Zenica, Faculty of Mechanical Engineering, Zenica, Department for Environmental Engineering, Bosnia and Herzegovina

COMPARISON OF HANDLING WITH SECONDARY RAW MATERIALS IN GERMANY AND BOSNIA AND HERZEGOVINA ON THE EXAMPLE FROM WASTE PAPER COLLECTING

6. Natalia B. Safronova¹, Irina S. Petrova², Myltzev Michail¹

¹Institute of sectoral Management, The Russian Presidential Academy of National Economy and Public Administration. 119571, Moscow, Russia; ²Department of Management, Business School, Lomonosov Moscow State University, Russia

TRENDWATCHING AS AN EFFECTIVE TOOL FOR SUSTAINABLE ENTREPRENEURSHIP

7. Gorica Pavlovska¹, Vezirka Jankuloska², Bratica Temelkoska³

^{1,2}Faculty of Technology and Technical Sciences, Veles, University "St Kliment Ohridski", Bitola, Macedonia; ³Faculty of Mechanical Engineering, Vinica, University "Goce Delcev", Stip, Macedonia

CHEMICAL TREATMENT OF WATER FOR STEAM BOILERS IN MINING POWER COMPLEX "OSLOMEJ" IN KICEVO

8. Srdjan Glisovic, Zarko Jankovic, Evica Stojiljkovic

University of Nis, Faculty of Occupational Safety, Serbia

NETWORKING SMES FOR THE ENVIRONMENT – THE ROLE AND SIGNIFICANCE OF SUSTAINABLE DISTRICT LOGISTICS APPROACH

9. Aleksandra Mitovski¹, Nada Štrbac¹, Dragana Živković¹, Ljubiša Balanović¹, Dragan Manasijević¹, Miroslav Sokić², Vesna Grekulović¹, Radmilo Nikolić¹

¹University of Belgrade, Technical Faculty in Bor, Bor, Serbia; ²ITNMS, Belgrade, Serbia

A COMPARATIVE REVIEW OF PYROMETALLURGICAL AND HYDROMETALLURGICAL PROCESSES OF COPPER PRODUCTION FROM E-WASTE BASED ON ENVIRONMENTAL AND ECONOMIC PARAMETERS

Diskusija / Discussion

Kafe pauza/ Coffee Break

10. Slobodan N. Bracanović

Ekonomski fakultet Priština, Kosovska Mitrovica, Serbia

MANAGEMENT TECHNOLOGY, SYNTHETIC SUBSTANCES AND ECOLOGY STABILITY

11. Snežana Šerbula¹, Ana Ristić¹, Srećko Manasijević², Natalija Dolic³

¹Technical Faculty in Bor, University of Belgrade, Serbia; ²Lola Institute, Belgrade, Serbia; ³Faculty of Metallurgy, University of Zagreb, Sisak, Croatia

FILTRATING SECTION WASTEWATER OF THE COPPER MINE IN MAJDANPEK AND ITS INFLUENCE ON THE RIVER VELIKI PEK

12. Angelina Taneva-Veshoska, Slavica Trajkovska, Marija Ivanova-Gugovska

Institute for Research in Environment, Civil Engineering and Energy, Skopje, Macedonia

SUSTAINABLE DEVELOPMENT IN MACEDONIAN ORGANISATIONS

13. Danijela Voza, Milovan Vuković, Milica Arsić

Technical faculty in Bor, Serbia

WATER QUALITY ANALYSIS OF MORAVA RIVER, SERBIA

14. Ivana Mladenović-Ranisavljević¹, Stanko Žerajić¹, Ljiljana Takić¹, Nenad Živković²

¹University of Niš, Faculty of Technology, Leskovac, Serbia; ²University of Niš, Faculty of Occupational Safety, Niš, Serbia

COMPARISON OF WQI MODELS

15. Radmilo Nikolic, Aleksandra Fedajev, Dejan Riznić

University of Belgrade, Technical Faculty in Bor, Serbia

NATURAL RESOURCE MANAGEMENT AS A FUNCTION OF SUSTAINABLE DEVELOPMENT IN MODERN CONDITIONS

16. Miloš Papić¹, Milovan Vuković²

¹Faculty of Technical Sciences, Čačak, University of Kragujevac, Čačak, Serbia; ²Technical Faculty Bor, University of Belgrade, Serbia

ANALYSIS OF FERTILITY AS AN ASPECT OF SUSTAINABLE DEVELOPMENT OF SOIL IN ČAČAK BASIN

17. Đorđe Nikolić, Nada Štrbac, Aleksandra Mitovski, Predrag Đorđević, Ivan Mihajlović

University of Belgrade, Technical Faculty in Bor, Serbia

AN INTEGRATED FUZZY AHP AND TOPSIS APPROACH FOR RANKING COPPER CONCENTRATES

18. Ivana Ilić, Milovan Vuković

University of Belgrade, Technical faculty in Bor, Serbia

DETERMINING THE MOST POLLUTED SECTION OF BELGRADE-NIŠ HIGHWAY USING GIS APPLICATION

19. Dejan Riznić¹, Radmilo Nikolić¹, Goran Stojanović²

¹University of Belgrade, Technical Faculty, Bor, Serbia; ²Student Center, Bor, Serbia

THE ECONOMICS OF CLIMATE CHANGE AND MANAGING THE RISK CAUSED BY THE CLIMATIC CHANGES AT LOCAL LEVEL

20. Alseddig Ahmed Almadani

Megatrend University, Department of Economics, Belgrade, Serbia, Bani Walid, Libya

CORPORATE ENVIRONMENTAL RESPONSIBILITY

Diskusija / Discussion

21⁰⁰ Svečana večera / Banquet dinner

INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL AND MATERIAL FLOW MANAGEMENT - EMFM14

02.10.2014. 09⁰⁰-9³⁰

(Konferencijska sala / Konferencijska sala / Conference room)

Predsedavajući/Chairman: D. Živković, Š. Goletić, I. Mihajlović

09⁰⁰-9³⁰ Zatvaranje skupa (Official closure)

10⁰⁰-13⁰⁰ Fakultativni izlet (Optional excursion)

13³⁰ – 15⁰⁰ Ručak i odlazak učesnika – Lunch and departure of participants

PUBLICATIONS:

All papers and reports presented at the Conference 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).

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.

W E L C O M E !!!