



University of Belgrade
Technical faculty in Bor



XII International Symposium and
6th Student Symposium

"RECYCLING TECHNOLOGIES and
SUSTAINABLE DEVELOPMENT"



FINAL PROGRAMME

Hotel Jezero, Bor Lake, Serbia
13 – 15 September 2017

NATIONAL SCIENTIFIC COMMITTEE

Prof. Dr Milan Trumić, University of Belgrade, Technical faculty in Bor, Serbia, President

Prof. Dr Grozdanka Bogdanović, University of Belgrade, Technical faculty in Bor, Serbia, Vice President

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Prof. Dr Zoran Stević, University of Belgrade, Technical faculty in Bor, Serbia

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Dr Dejan Koželj, Rakita Exploration doo Bor, Serbia

Prof. Dr Radoje Pantović, University of Belgrade, Technical faculty in Bor, Serbia

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Prof. Dr Miodrag Žikić, University of Belgrade, Technical faculty in Bor, Serbia

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Dr Dragan Radulović, ITNMS Belgrade, Serbia

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Doc. Dr Zoran Štirbanović, University of Belgrade, Technical faculty in Bor, Serbia

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Doc. Dr Maja Trumić, University of Belgrade, Technical faculty in Bor

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Prof. Dr Damien Giurco, University of Technology Sydney, Australia
Dr Viktor Simončić, VIKOS, Croatia
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Prof. Dr Stojan Simić, University of East Sarajevo, Bosnia & Herzegovina
Prof. Dr Zdenka Zovko Brodarac, University of Zagreb, Croatia
Dr Slavomir Hredzak, Institute of Geotechnics of the Slovak Academy of Science, Slovakia
Prof. Dr Irena Grigorova, University of Mining and Geology "Stivan Rilski", Bulgaria

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Prof. Dr Grozdanka Bogdanović, University of Belgrade, Technical faculty in Bor, President
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B.Sc. Vladimir Nikolić, University of Belgrade, Technical faculty in Bor
B.Sc. Dragana Marilović, University of Belgrade, Technical faculty in Bor
M.Sc. Predrag Stolić, University of Belgrade, Technical faculty in Bor
B.Sc. Sandra Vasković, University of Belgrade, Technical faculty in Bor
Dobrinka Trujić, University of Belgrade, Technical faculty in Bor

WELCOMING ADDRESS

The Organizing Committee welcomes you to the XII International Symposium on Recycling Technologies and Sustainable Development and 6st Student Symposium "Recycling Technologies and Sustainable Development" and wishes you nice staying in Hotel Jezero, Bor Lake, Serbia and useful participation to conference work.

*President of the Organizing Committee
Prof. Dr Grozdanka Bogdanović*

LANGUAGE

The official languages of the Symposium will be English.

PRESENTATION

The work on the Symposium will be organized through plenary lecture and section lectures: Oral presentations and Posters, as follows:

- Plenary Lecture - 30 minutes*
- Oral presentation - limited to 10 minutes per paper*

Poster presentation on space of 70 cm x 100 cm will be available.

For oral presentation, personal computer and LCD Projector will be at author's disposal.

PUBLISHING

Selected papers presented at the Conference can be submitted in an extended form in Journal "RECYCLING AND SUSTAINABLE DEVELOPMENT" (<http://www.rsd.tfbor.bg.ac.rs>)

REGISTRATION FEE

The Symposium fee is 100 EUR + 20 % VAT. It includes admission to the Symposium sessions, Symposium Proceedings and the accompanying materials, conference dinner and refreshments during the Symposium.

The conference fee for the accompanying person is 60 EUR + 20 % VAT. It includes all items specified for the participants except the Conference Proceedings and the accompanying materials.

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

For domestic participants (in dinars payments):

Technical faculty in Bor

Account No: 840-1478666-37, with reference to 183.

For foreign participants payment in Euros is to be made according to the following instructions (for Euro payments):

SWIFT MESSAGE MT103 FOR MAKING PAYMENT IN EUR:

FIELD 32A: VALUE DATE-CURRENCY-AMOUNT

FIELD 50K: ORDERING CUSTOMER

FIELD 56A: DEUTDEFF

Intermediary /DE20500700100935930800

FIELD 57A: NBSRRSBG acc. with bank

FIELD 59: /RS35908500100000777745

Beneficiary TEHNICKI FAKULTET BOR

FIELD 70: Details of payments (Symposium on Recycling Technologies and Sustainable Development)

Participants of the 6st Student Symposium (6th SSRTOR) do not pay the Symposium fee and are eligible to take part at the Symposium and present their papers. Students first authors of the papers will get the Proceedings of the 6th SSRTOR and accompanying materials.

ACCOMODATION

Accommodation for the participants will be provided at Hotel "Jezero", Bor Lake. For all information about Hotel and reservations, use Hotel contacts:

phone: + 381 30 48 29 40

phone: + 381 30 48 23 40

official website: <http://www.hoteljezero.rs/?lang=en>

e-mail: office@hoteljezero.rs

EXCURSION

An excursion will be organized to the tourist sites near Bor Lake. if there will be interested participants.

EXIBITIONS

The Organizer will provide exhibition space in the Hotel hall to those companies, institutions and individuals who like to present theirs products, innovations and services, during the conference. Price of this arrangement is 200 EUR + 20 % VAT.

TIME AND VENUE

The XII RTSD will be held from 13th to 15th September 2017 at Hotel "Jezero", Bor Lake, about 200 km south-east from Belgrade, Serbia.

The Symposium office will be open on:

13th September 2017 from 8:00 to 19:00

14th September 2017 from 8:30 to 19:00

INFORMATION

Professor Dr Grozdanka Bogdanović

President of the Organizing Committee

Technical Faculty in Bor - University of Belgrade

Tel: + 381 30 424 555, Fax : + 381 30 421 749

rt-sd@tfbor.bg.ac.rs and gbogdanovic@tfbor.bg.ac.rs

GENERAL PROGRAMME

Wednesday, 13th September 2017

08:00 – 19:00 – Conference desk opening / Registration of participants
10:00 – 10:30 – Opening Ceremony XII RTSD (hall A)
10:30 – 12:00 – Plenary lecture (hall A)
12:00 – 12:15 – Sponsor presentation (hall A)
12:15 – 13:00 – Coffee break
13:00 – 15:00 – Lunch
15:00 – 16:30 – Session I (hall A)
16:30 – 17:00 – Coffee break
17:00 – 18:30 – Session II (hall A)
20:00 – 24:00 – Conference dinner

Thursday, 14th September 2017

08:30 – 18:00 – Conference desk working hours/ Registration of participants
09:00 – 11:00 – Session III (hall A)
11:00 – 11:15 – Sponsor presentation-SUPER LAB (hall A)
11:15 – 11:45 - Coffee break
11:45 – 12:00 - Opening Ceremony Student Symposium - 6.SSRTOR (hall A)
12:00 – 13:00 - Sessions I 6.SRTOR (hall A)
13:00 – 15:00 – Lunch
15:00 – 16:00 –Round table “Mine waste management - current issues”
16:30 – 17:00 – Coffee break
17:00 – 18:30 – Poster session XII RTSD and 6.SSRTOR (hall A)
18:30 – 19:00 - Closing ceremony of RTSD 2017 (hall A)

Friday, 15th September 2017

09:00 – 15:00 – Facultative excursion or Excursion to RTB Bor

PROGRAMME

OPENING CEREMONY XII RTSD

WEDNESDAY, 13TH SEPTEMBER 2017, 10:00 -10:30 (HALL A)

PLENARY LECTURES

WEDNESDAY, 13TH SEPTEMBER 2017, 10:30 -12:00 (HALL A)

CHAIRMEN: MILAN TRUMIĆ, GROZDANKA BOGDANOVIĆ, DEJAN TANIKIĆ

1. Zorana Naunović, Serbia

ECONOMIC AND ENVIRONMENTAL VIABILITY OF A MUNICIPAL WASTE TO ENERGY RECOVERY SYSTEM

2. Slavomír Hredzák, Marek Matik, Anton Zubrik, Michal Lovas, Katarína Štefušová, Miroslava Václavíková, Ingrid Znamenáčková, Silvia Dolinská, Olga Šestinová, Slovak Republic

COMPOSITION OF LOW-GRADE NICKEL ORE LEACHING RESIDUUM IN SLOVAKIA

3. Stojan Simić, Bosnia and Herzegovina

REDUCTION OF HARMFUL EMISSIONS IN ENVIRONMENT BY OPTIMIZATION OF HEAT ENERGY CONSUMPTION IN INDUSTRY AND ENERGETICS

SPONSOR PRESENTATION--Hall A

Wednesday, 13th September 2017, 12:00 – 12:15 (Hall A)

12:15 – 13:00 – Coffee break

SESSION I

WEDNESDAY, 13TH SEPTEMBER 2017, 15:00 - 16:30 (HALL A)

Chairmen: Zorana Naunović, Ilhan Bušatlić

I-1. Vladislav Ivanchenko and Yuri Chugunov, Ukraine

RECYCLING OF INDUSTRIAL WASTE IN THE VORTEX AIR-MINERAL FLOW - NEW TECHNOLOGY FOR THE PRODUCTION OF METALS, ORE CONCENTRATES AND BUILDING MATERIALS

I-2. Ksenija Milicević, Stephanie Kruse, Karoline Raulf, Bernd Friedrich, Germany

RECOVERY OF RARE EARTH OXIDES FROM NDFEB MAGNET GRINDING SLURRIES AND THEIR REUSE IN MOLTEN SALT ELECTROLYSIS

I-3. Jovica Sokolović, Zoran Štirbanović, Rodoljub Stanojlović, Zoran Marković, Serbia

ANALYSIS OF THE INDUSTRIAL RESULTS OF COPPER SLAG PROCESSING BY FLOTATION

I-4. G.V., Mitrofanova, V.A. Ivanova, A.V. Artemiev. Russia

EVALUATION OF THE POSSIBILITY OF USING PROCESS WATER FROM THE DRESSING PLANT WITHOUT SETTLING IN THE TAILINGS POND.

I-5. Ilhan Bušatlić, Šefkija Botonjić, Azra Halilović, Nadira Bušatlić, Amna Karić, Bosnia and Herzegovina

POSITIVE EXAMPLES OF WASTEWATER TREATMENT EFFECTIVENESS IN "NATRON-HAYAT" MAGLAJ FACTORY

I-6. Ana Popović, Aleksandar Marinković, Jelena Rusmirović, Vladimir Pavićević, Bojan Janković, Serbia

RECYCLING OF PVC WITH PLASTICIZERS OBTAINED BY CHEMICAL RECYCLING FROM PET

I-7. Tihomir Kovačević, A. Božić, J. Rusmirović, M. Stamenović, V. Alivojvodić, N. Tomić, A. Marinković, Serbia

POLYURETHANE PRODUCTS BASED ON POLYOLS SYNTHESIZED FROM WASTE POLY(ETHYLENE TEREPHTHALATE)

16:30 – 17:00 – Coffee break

SESSION II

WEDNESDAY, 13TH SEPTEMBER 2017, 17:00 - 18:30 (HALL A)

Chairmen: Maja Trumić, Stojan Simić

II-1. Dragana V. Medić, Boban R. Spalović, Mile D. Dimitrijević, Ivan N. Đorđević, Uroš S. Stamenković, Serbia

PRETREATMENT CATHODE MATERIAL FROM SPENT Li-ION BATTERIES

II-2. Yıldırım İsmail Tosun, Turkey

RECOVERY OF HEMATITE FROM THE COAL BOILER'S BOTTOM ASH BY COLUMN FLOTATION – OPTIMUM CONCENTRATION PLANT DESIGN

II-3. Milan M. Petrov, Ljubisa D. Andrić, Dragan Radulović, Serbia

FLOTOEXTRACTION OF BLUE WATER

II-4. Zoran Štirbanović, Milica Đorđević, Novka Živadinović, Jovica Sokolović, Ivana Jovanović, Daniela Urošević, Serbia

OPTIMIZATION OF SMELTER SLAG FLOTATION IN FLOTATION PLANT BOR

II-5. Mira Cocić, Mihovil Logar, Visa Tasić, Snezana Dević, Saša Cocić, Serbia

THE POSSIBILITY OF USING THE FINAL FLOTATION WASTE FOR OBTAINING THE GLASS-CERAMICS

II-6. Vojka Gardić, Radmila Marković, Nobuyuki Masuda, Jelena Petrović, Stefan Đorđević, Jovica Sokolović, Dragana, Serbia, Japan

SLUDGE LEACHABILITY AFTER LIME NEUTRALISATION OF ACID MINE DRAINAGE FROM SARAKA AND ROBULE LOCATIONS

II-7. Ljiljana Avramović, Radojka Jonović, Radmila Marković, Atsushi Shibayama, Kazutoshi Haga, Han Baisui, Daniela Urošević, Serbia, Japan

SEPARATION OF COPPER AND IRON USING LIX-984N BY THE SOLVENT EXTRACTION

20:00 – 24:00 Conference dinner

SESSION III

THURSDAY, 14TH SEPTEMBER 2017, 09:00 - 11:00 (HALL A)

Chairmen: Cipriana Sava, Jovica Sokolović

III-1. Section lectures

Sladana Č. Alagić, Serbia

VARIOUS ROLES OF PLANTS IN HEAVY METAL PHYTOREMEDIATION FROM POLLUTED SOILS

III-2. Miodrag Žikić, Mira Martinović, Saša Stojadinović, Jovica Sokolović, Dejan Tanikić, Serbia

RECLAMATION OF VELIKI KRIVELJ MINE WASTE DUMP SARAKA POTOK – SUCCESSFULNESS ANALYSIS

III-3. Predrag Stolić, Danijela Milošević, Serbia

IMPROVING OF E-WASTE MANAGEMENT USING DATA SCIENCE ELEMENTS

III-4. Slavica Miletić, Dejan Bogdanović, Dragan Milanović, Vesna Conić, Zdenka Stanojević Šimšić, Serbia

AHP ANALYSIS OF ORGANIZATIONAL CULTURE OF SUSTAINABLE BUSINESS IN MINING COMPANY

III-5. Milan Gorgievski, D. Božić, V. Stanković, D. Manasijević, V. Grekulović, M. Marković, Serbia

PHYSICO-CHEMICAL CHARACTERIZATION OF THE OAT STRAW BY DTA-TGA AND SEM-EDX ANALYSIS

III-6. Dragan S. Radulović, Milan Petrov, Maja Trumić, Milan Trumić, Grozdanka Bogdanović, Ljubiša Andrić, Serbia

POSSIBILITY OF USING LIMESTONE FROM "GIGOVIĆI"-ULCINJ DEPOSIT AS FILLER IN VARIOUS INDUSTRY BRANCHES

III-7. Suzana Dragulović, Dragana Božić, Vesna Conić, Silvana Dimitrijević, Danijela Simonović, Zdenka Stanojević Šimšić, Dana Stanković, Serbia

PRODUCTION OF SILVER – SULPHATE FOR CATALYSIS OF THE SULPHIDE MINERALS PROCESS

III-8. Cipriana Sava, Gheorghe Pinteală, Romania

ASPECTS REGARDING ENVIRONMENTAL PROTECTION AND SUSTAINABLE SPORT FISHING IN ROMANIA

SPONSOR PRESENTATION-SUPER LAB)/Hall A

Thursday, 14th September 2017, 11:00 – 11:15 (Hall A)

OPENING CEREMONY STUDENT SYMPOSIUM – 6th SSRTOR (HALL A)

Thursday, 14th September 2017, 11:45 – 12:00 (Hall A)

Sessions 1 -6th SSRTOR

Thursday, 14th September 2017, 12:00 - 13:00 (Hall A)

Chairmen:Katarina Balanović, Filip Glišić

S-1. Dušan Jakšić

CHEMICAL CHARACTERIZATION OF GRANULATES PRODUCED FROM MECHANICAL TREATMENT OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

S-2. Katarina Balanović

WASTE WATERS FROM COPPER MINE MAJDANPEK

S-3. Filip Glišić

DETERMINATION OF ORGANIC CARBON, ANALYTICAL DETERMINATION OF AMMONIA AND TOTAL NITROGEN IN COMPOST

S-4. Nenad Simović

TREATMENT OF SMELTING SLAG WITH THE AIM TO PRODUCE COPPER GRIT

S-5. Vladana Đurđević, Ivan Todorov, Nada Nikolić

MECHANICAL AND BIOLOGICAL TREATMENT OF MUNICIPAL WASTE

S-6. Ivan Todorov , Vladana Đurđević

PRODUCTION OF UNSATURATED POLYESTER RESIN FROM RECYCLED POLY(ETHYLENE TEREPHTHALATE)

13:00 – 15:00 – Lunch

Thursday, 14th September 2017, 15:00 - 16:00 (Hall A)

ROUND TABLE “MINE WASTE MANAGEMENT - CURRENT ISSUES“

in cooperation with Association of Young Researchers Bor

16:30 – 17:00 – Coffee break

POSTER SESSION XII RTSD and 6TH SSRTOR

THURSDAY, 14TH SEPTEMBER 2017 17:00 -18:30 (HALL A)

Chairmen: Marina Stamenović, Zoran Štirbanović, Dragana Marilović, Vladimir Nikolić

P-1. Žaklina Tasić, Marija Petrović Mihajlović, Ana Simonović, Milan Radovanović, Snežana Milić, Milan Antonijević, Serbia

ANTIBIOTICS AS POTENTIAL CORROSION INHIBITORS FOR COPPER

P-2. Slađana Č. Alagić, Mile D. Dimitrijević, Snežana B. Tošić, Maja M. Nujkić, Boban R. Spalović, Serbia

THE POTENTIALS OF THE GRAPEVINE AND PEACH TREE FOR THE APPLICATION IN ZINC PHYTOREMEDIATION: A COMPARATIVE ANALYSIS

P-3. Yıldıırım İsmail Tosun, Turkey

RECYCLING AND CONCENTRATION OF IRON SLIME WASTES AS BY PRODUCT OF IRON WORKING FOUNDRIES AND FLY SLAG WASTE OF BLAST FURNACE

P-4. Yıldıırım İsmail Tosun, Turkey

MODELLING OF THE CAPITAL COST FOR LOW GRADE IRON ORE CONCENTRATION AND RECYCLING PLANT - ASSESMENT ON THE WASTE QUALITY OF FURNACE

P-5. Jelena Čarapić, Miloš Čabarkapa, Vladan Milošević, Dejan Todorović, Branislav Ivošević, Sonja Milićević, Serbia

INFLUENCE OF THE COOLING PROCESS ON THE SLAG PROPERTIES

P-6. Ivana Jovanović, Slađana Krstić, Jasmina Negrojević, Sanja Petrović, Dragan Milanović, Serbia

EFFECT OF CLASSIFIED FLY ASH ON THE SETTING TIME OF CEMENT MIXTURES

P-7. Grozdanka Bogdanović, Dejan Antić, Maja Trumić, Milan Trumić, Velizar Stanković, Serbia

AGITATION LEACHING OF A LOW-GRADE COPPER ORES

P-8. Maja Trumić, Milan Trumić, Nevena Munćan, Dragan Radulović, Serbia

FLOTATION SEPARATION OF THERMAL HEAT TREATED ABS AND PS PLASTICS

P-9. Daniela Urošević, Slađana Krstić, Vesna Krstić, Zoran Štirbanović, Serbia

MINERALOGICAL-PETROLOGICAL ANALYSIS OF IRON ORE FROM SURFACE MINE "DUGE NJIVE", BORANJA

P-10. Vladimir Pavićević, Darko Radosavljević, Ana Popović, Marina Stamenović, Vesna Alivojvodić, Aleksandra Božić, Serbia

TECHNICAL CRITERIA FOR INFRASTRUCTURE PROJECTS – CONDITION FOR SUSTAINABLE DEVELOPMENT

P-11. Vladimir Nikolić, Milan Trumić, Maja Trumić, Ljubiša Andrić

MODERN DIRECTIONS OF USING NATURAL ZEOLITES IN THE WORLD

P-12. Zoran Stević, Ilija Radovanović, Vojkan Nikolić, Miša Stević, Oleksandr Bondarenko; Serbia, Ukraine

HIGH-FREQUENCY WOOD DRYING SYSTEM WITH HIGH ENERGY EFFICIENCY

P-13. Ljubiša Obradović, Jasmina Stevanović, Radmila Marković, Suzana Stanković, Serbia

CHARACTERIZATION OF THE DRAINAGE WASTEWATER FROM DAM 1A AND 3A ON VELIKI KRIVELJ TAILING DUMP

P-14. Grozdanka Bogdanović, Žaklina Tasić, Nikola Pičorušević, Andjelija Bogdanović, Serbia

THE APPLICATION OF MEMBRANE FILTRATION PROCESSES IN WASTEWATER TREATMENT

P-15. Dragana Marilović, Maja Trumić, Milan Trumić, Grozdanka Bogdanović, SERBIA

INFLUENTIAL PARAMETERS ON DEINKING FLOTATION EFFICIENCY

P-16. Dragana Z. Marković-Nikolić, Milorad D. Cakić, Aleksandar Lj. Bojić, Goran S. Nikolić, Serbia

KINETIC AND THERMODYNAMIC STUDIES ON ORTHOPHOSPHATE BIOSORPTION USING THE QUATERNARY AMMONIUM MODIFIED LAGENARIA VULGARIS SHELL

P-17. Dragana Marković-Nikolić, Ljubiša Balanović, Aleksandar Bojić, Milorad Cakić, Dragan Cvetković, Goran S. Nikolić, Serbia•

STRUCTURAL AND BIOSORPTION CHARACTERISTICS OF THE CATIONIC SURFACTANT-MODIFIED LAGENARIA VULGARIS SHELL

P-18. Ljiljana Trumbulović, Marko Pavlović, Dragan Radulović, Milan Petrov, Ljubisa Andrić, Serbia

DANGEROUS PRODUCTS IN HOUSEHOLDS

P-19. Ljiljana Trumbulović, Marko Pavlović, Dragan Radulović, Milan Petrov, Ljubisa Andrić, Serbia

PHARMACEUTICAL WASTE MANAGEMENT

SP-1. Bojan Vojinović, Nena Blegić

PRODUCTION OF ALUMINUM FROM PRIMARY AND SECONDARY RAW MATERIALS

SP-2. Nemanja Andrejević

RECYCLING OF TETRAPACK PACKAGING

SP-3. Nenad Simović

ZEOLITES AS ADSORBENTS OF HEAVY METAL IONS FROM WASTEWATER

SP-4. Veljko Vasilić, Stefan Spasić

COMPOSTING IN HOME CONDITIONS

SP-5. Katarina Balanović

THE IMPORTANCE AND POSSIBILITIES OF OBTAINING LEAD FROM SECONDARY RAW MATERIALS

SP-6. Marko Radić, Bojan Tomić

TECHNOLOGICAL PROCESS OF ASPHALT RECYCLING

SP-7. Miljan Marković

BIOSORPTION – POSSIBLE ALTERNATIVE TO CONVENTIONAL TECHNOLOGIES FOR THE REMOVAL OF HEAVY METALS FROM WASTEWATERS

SP-8. Stefan Spasić, Veljko Vasilić

DEINKING PROCESS

18:30 – 19:00 – Closing ceremony of RTSD 2017 (hall A)

