



**Faculty of Technology and Metallurgy, University of Belgrade
Center for Pulp, Paper, Packaging and Graphics in Serbia**

**Tehnološko-metalurški fakultet, Univerzitet u Beogradu
Centar celulozno-papirne, ambalažne i grafičke industrije Srbije**

PROGRAM

**22. MEĐUNARODNI SIMPOZIJUM IZ OBLASTI
CELULOZE, PAPIRA, AMBALAŽE I GRAFIKE
13-16. JUN 2017, Čigota, Zlatibor, Srbija**

**22nd INTERNATIONAL SYMPOSIUM IN THE FIELDS
OF PULP, PAPER, PACKAGING AND GRAPHICS
June 13th-16th, 2017, Čigota, Zlatibor, Serbia**

Official languages: Serbian and English; službeni jezici: srpski i engleski

CONTRIBUTORS – POKROVITELJI

- **MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGICAL DEVELOPMENT OF REPUBLIC SERBIA**, Belgrade, Serbia
- **CHAMBER OF COMMERCE AND INDUSTRY OF SERBIA**, Belgrade, Serbia
- **ACQUAFLEX s.r.l.**, Via Milano, Italy
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- **AQUABIOTEC ENGINEERING SARL**, Paris, France
- **AMF d.o.o.**, Medvode, Slovenia
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- **API GmbH**, Obertrum am See, Austria
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- **FANGL TECHNOLOGIES E.U.**, Bad Voeslau, Austria
- **FASIL A.D.**, Arilje, Serbia
- **KARTONVAL**, Sabac, Serbia
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- **KEMIRA KTM d.o.o.**, Ljubljana, Slovenia
- **METALAC A.D.**, Gornji Milanovac, Serbia
- **NATRON HAYAT D.D.**, Maglaj, Bosnia i Herzegovina
- **OMYA**, Gummern, Austria
- **PULP AND PAPER INSTITUTE**, Ljubljana, Slovenia
- **RMS d.o.o.**, Belgrade, Serbia
- **SCHÄFERROLLS, d.o.o.**, Kranj, Slovenia
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- **SUPERLAB**, Belgrade, Serbia
- **UMKA A.D.**, Umka, Serbia



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- **GAMA GRAPHIC STUDIO, Belgrade, Serbia**
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- **OMNI PACKAGING, Backa Palanka, Serbia**
- **PANGRAF, Stara Pazova, Serbia**
- **PANPACKING d.o.o., Pancevo, Serbia**
- **PRINT ONE d.o.o., Belgrade, Serbia**
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- **PRINTING HOUSE TIPOGRAFIK PLUS, Zemun, Serbia**
- **PRINTING HOUSE M-GRAF d.o.o., Trstenik, Serbia**
- **PRINTING HOUSE VERZAL d.o.o., Belgrade, Serbia**



TUESDAY, June 13th – UTORAK, 13.06.2017.

19:00-21:00 Notification of participants and distribution of materials (Hotel Cigota reception)
Prijava učesnika i podela materijala (Recepcija hotela Čigota)

WEDNESDAY, June 14th – SREDA, 14.06.2017.

08:00-09:00 Notification of participants and distribution of materials (Hotel Cigota reception)
Prijava učesnika i podela materijala (Recepcija hotela Čigota)

09:00-09:15 OPENING OF THE XXII SYMPOSIUM – OTVARANJE XXII SIMPOZIJUMA

09:15-12:00 Chairman – Predsedavaju: S. Jovanovic, G. Jankes, B. Jeftenić

09:15-09:45 Lecture 1 - Predavanje 1
STANJE INDUSTRIJE CELULOZE I PAPIRA U POSTKRIZNOM PRIVREDNOM AMBIJENTU SRBIJE
THE STATE OF CELLULOSE AND PAPER INDUSTRY IN THE POST-CRISIS ECONOMIC ENVIRONMENT IN SERBIA
Nataša Bogavac-Cvetković, Tamara Cvetković, Milanka Bogavac
Faculty of Business and Law, "Union - Nikola Tesla" University, Belgrade, SERBIA

09:45-10:15 Lecture 2 - Predavanje 2
CELULOZA: OD PRIRODE DO MATERIJALA VISOKIH PERFORMANSI
CELLULOSE: FROM NATURE TO HIGH PERFORMANCE MATERIALS
Mira Kostić, Matea Korica
Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, SERBIA

10:15-10:35 Lecture 3 - Predavanje 3
BUDUĆA TEHNOLOŠKA UNAPREĐENJA U PROIZVODNJI U FABRICI KARTONA UMKA
FUTURE TECHNOLOGICAL IMPROVEMENTS IN PRODUCTION IN CARDBOARD MILL UMKA
Saša Dobrić, Rade Krsmanović, Staniša Lukić

Umka Cardboard Mill, Umka, SERBIA

10:35-10:55

Lecture 4 – Predavanje 4

**ESTIMATION OF ENERGY SAVING POTENTIAL OF UKRAINIAN PULP AND PAPER INDUSTRY
PROCENA MOGUĆNOSTI UŠTEDE ENERGIJE U UKRAJINSKOJ INDUSTRIJI CELULOZE I PAPIRA**

Boldyryev S.¹, Ulyev L.², Samoylenko M.², Duic N.³

¹Centre for Sustainable Development of Energy, Water and Environment Systems, Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, CROATIA; ²National Technical University “Kharkiv Polytechnic Institute”, Kharkiv, UKRAINE; ³Department of Energy, Power Engineering and Environment, Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, CROATIA

10:55-11:15

Lecture 5 – Predavanje 5

**NAJNOVIJA TEHNOLOŠKA DOSTIGNUĆA INDUSTRIJE CTP UREĐAJA
THE LATEST TECHNOLOGY IMPROVEMENTS IN CTP INDUSTRY**

Dejan Đokić, Ivana Dizdarević, Mirko Milosavljević

CRON CTP, Beograd

11:15-11:35

Lecture 6 - Predavanje 6

**WASTEWATER TREATMENT IN PULP & PAPER INDUSTRY, NEW DEVELOPMENTS
TRETMAN OTPADNIH VODA U INDUSTRIJI CELULOZE I PAPIRA, NOVI RAZVOJ**

Alfred Helble¹, Dr. Andreas Rüdiger²

¹AH Consult dipl.-ing. Alfred Helble, Stuttgart, GERMANY; ²Aquabiotec Engineering, Paris, FRANCE

11:35-12:00

DISKUSIJA I PAUZA ZA KAFU – DISCUSSION AND COFFEE BREAK

12:00-:15:45

Chairman – Predsedavaju: S. Ibrahimfendic, P. Živkovic, V. Valent

12:00 -12:20

Lecture 7 – Predavanje 7

**ENERGETSKA EFIKASNOST U INDUSTRIJI SA OSVRTOM NA INDUSTRIJU PAPIRA
ENERGY EFFICIENCY IN THE INDUSTRY WITH A REVIEW ON THE PAPER INDUSTRY**

Mirjana Stameniće, Nikola Tanasić, Goran Jankes

Faculty of Mechanical Engineering University of Belgrade, SERBIA

Innovation Center of the Faculty of Mechanical Engineering, Belgrade, SERBIA

12:20-12:40

Lecture 8 – Predavanje 8

**ZAVISNOST BOJE PROIZVEDENOG CLUPAK PAPIRA OD STEPENA IZBJELJIVANJA CELULOZNOG VLAKNA
DEPENDANCE OF CLUPAK PAPER COLOR ON BLEACHING DEGREE OF THE CELLULOSE FIBER**

Husejin Duraković, Edina Husić, Almir Muftić

Natron-Hayat d.o.o., Maglaj, BOSNIA AND HERZEGOVINA

12:40-13:00

Lecture 9 – Predavanje 9

**KLJUČNI POKAZATELJI USPEŠNOSTI PROIZVODNJE SITA ZA INDUSTRIJU PAPIRA I CELULOZE
KEY PERFORMANCE INDICATORS FOR PRODUCTION OF THE SCREENS FOR PAPER AND PULP INDUSTRY**

Nada Bojić¹, Ninoslav Stojanović²

¹Woven Wire Cloth and Bearings Factory - Fasil a.d, Arilje; ²StandCert, Belgrade, SERBIA

13:00-13:20

Lecture 10 – Predavanje 10

**IMPROVING THE PAPER STRENGTH WITH MODIFIED UREA-FORMALDEHYDE OLIGOMERS
POVEĆANJE JAČINE PAPIRA MODIFIKOVANIM UREA-FORMALDEHIDNIM OLIGOMERIMA**

Natalia Zholnerovich, Natalia Chernaya, Irina Nikolaichik

Belarusian State Technological University, Minsk, BELARUS

13:20-13:40

Lecture 11 – Predavanje 11

**STUDIES ON BIOPOLYMERIC ADDITIVES FOR PAPERPAKING
PROUČAVANJE BIOPOLIMERNIH ADITIVA ZA PAPERINU AMBALAŽU**

Sedat Ondaral

Dep. of Pulp and Paper Technology, Forest Product Engineering, Faculty of Forestry, Technical University, Karadeniz (Black Sea), TURKEY

13:40-14:00

Lecture 12 - Predavanje 12

**UTICAJ PAKOVANJA U MODIFIKOVANOJ ATMOSFERI I VAKUUMU NA ODRŽIVOST ZLATIBORSKE PRŠUTE
INFLUENCE OF PACKAGING MATERIAL ON DRY-CURED SHEEP HAM SUSTAINABILITY**

Dragana Stanisavljević, Tanja Žugić-Petrović, Dragan Veličković, Vlada Miljojković, Danica Šošević, Predrag Ilić

College of Agriculture and Food Technology, Prokuplje, SERBIA

- 14:00-14:20** **Lecture 13 - Predavanje 13**
ZAKONSKA REGULATIVA U OBLASTI UPRAVLJANJA GRAĐEVINSKIM OTPADOM - NEOPHODNOST UPRAVLJANJA OTADOM U CPAG INDUSTRIJI
LEGISLATION IN THE FIELD OF CONSTRUCTION WASTE MANAGEMENT - NECESSITY OF WASTE MANAGEMENT IN PPPG INDUSTRY
Milena Lekić¹, Dejan Bojović², Vasilije Gašić³, Ivica Ristović¹
¹University of Belgrade, Faculty of Mining and Geology, SERBIA
²Serbian Demolition Association, Belgrade, SERBIA
³Kolubara Gradjevinar, Lazarevac, SERBIA
- 14:20-14:40** **Lecture 14 - Predavanje 14**
PREZENTACIJA FIRME SUPERLAB, BEOGRAD, SRBIJA
PRESENTATION OF THE SUPERLAB COMPANY, BELGRADE, SERBIA
Jelena Vučićević
Superlab, Novi Beograd, SERBIA
- 14:40-15:00** **Lecture 15 - Predavanje 15**
EFFECT OF PAPER SAMPLE-FORMING CONDITIONS ON DEFORMATIONAL BEHAVIOR OF PAPER
UTICAJ USLOVA FORMIRANJA UZORAKA PAPIRA NA DEFORMACIONO PONAŠANJE PAPIRA
Yakov Kazakov, Anastasiya Romanova
Northern (Arctic) Federal University Named after M.V. Lomonosov, Arkhangelsk, RUSSIA
- 15:00-15:20** **Lecture 16 - Predavanje 16**
SLUDGE FROM WASTE WATER TREATMENT AS ADDITIVE IN PRODUCTION OF RECYCLED PAPER FOR CORRUGATED PACKAGING SOLUTIONS
MULJ DOBIJEN TRETMANOM OTPADNIH VODA KAO ADITIV U PROIZVODNJI RECIKLIRANOG PAPIRA ZA REŠENJA AMBALAŽE OD TALAS KARTONA
Denislava Elenkova¹, Spas Ladzhov², Ivo Valchev¹
¹University of Chemical Technology and Metallurgy, Sofia; ²DS Smith Bulgaria, Padardzhik, BULGARIA
- 15:20-15:45** **DISKUSIJA – DISCUSSION**

THURSDAY, JUNE 15th – ČETVRTAK, 15.06.2017.

08:30-11:30 Chairman – Predsedavaju: M. Krgovic, Dj. Janackovic, P. Uskokovic

08:30-09:00 Lecture 17 – Predavanje 17

**STRATEŠKO REPOZICIONIRANJE INDUSTRIJE CELULOZE I PAPIRA U SRBIJI - KA ODRŽIVOSTI
STRATEGIC REPOSITIONING PULP AND PAPER INDUSTRY IN SERBIA - TOWARDS SUSTAINABILITY**

Petar Đukić

Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, SERBIA

09:00-09:20 Lecture 18 - Predavanje 18

**PERSPEKTIVE GLAVNIH TEHNIKA ŠTAMPE U ŠTAMPI AMBALAŽE
PERSPECTIVES OF MAIN PRINTING TECHNIQUES IN PACKAGING PRINTING**

Predrag Živković

Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, SERBIA

09:20-09:40 Lecture 19 – Predavanje 19

HYDROGEN PEROXIDE AND PERACETIC ACID – APPLICABLE SCIENCE IN OUR LIFE (OXIDATION, DISINFECTION AND CLEANING)

VODONIK-PEROKSID I PERSIRČETNA KISELINA – PRIMENJENA NAUKA U NAŠEM ŽIVOTU (OKSIDACIJA, DEZINFEKCIJA I ČIŠĆENJE)

Ivan Grčar

Belinka Perkemija d.o.o., Ljubljana, SLOVENIA

09:40-10:00 Lecture 20 - Predavanje 20

PRESENTATION OF THE SCHÄFERROLLS D.O.O., KRANJ, SLOVENIA

PREZENTACIJA FIRME SCHÄFERROLLS D.O.O, KRANJ, SLOVENIJA

Gregor Ažman, Marjan Urh

Schäferrolls d.o.o., Kranj, SLOVENIA

10:00-10:20 Lecture 21 – Predavanje 21

A NOVEL TEST METHOD FOR PREDICTING CRUSHING ELASTICITY IN MEDIUM FLUTING WITH HIGHER RELEVANCE THAN THE CURRENTLY USED METHODS LIKE CMT

NOVI METOD PREDVIĐANJA ELASTIČNOSTI LOMA U SREDNJIM FLUTINZIMA SA VEĆIM ZNAČAJEM OD UOBIČAJENIH METODA KAO ŠTO JE CTM

Thomas Füst

ABB AB, Lorentzen & Wettre Products, Kista, SWEDEN

10:20-10:40 Lecture 22 – Predavanje 22

PRIMJENA MINERALA IZ BOSNE I HERCEGOVINE KAO PUNILA U PROIZVODNJI PAPIRA
APPLICATION OF MINERALS FROM BOSNIA AND HERZEGOVINA AS FILLERS IN PAPER PRODUCTION

Salim Ibrahimefendić, Amra Tuzović, Marija Garić, Aldin Obućina

Faculty of Technical Studies, University of Travnik, BOSNIA AND HERZEGOVINA

10:40-11:00 Lecture 23 - Predavanje 23

OPTIMIZING PRINTED SURFACE
OPTIMIZACIJA POVRŠINE KOJA SE ŠTAMPA

Helena Peuranen

Kemira OYJ, Espoo, FINLAND

11:00-11:30 DISKUSIJA I PAUZA ZA KAFU – DISCUSSION AND COFFEE BREAK

12:00-14:00 ROUND TABLE – OKRUGLI STO

Moderators: M. Krgovic, Dj. Janackovic, J. Ercic , P. Uskokovic, V. Valent

- **KRATKO PREDSTAVLJANJE SVIH UČESNIKA**
BRIEF INTRODUCTION OF ALL PARTICIPANTS
- **STANJE U CELULOZNO – PAPIRNOJ, AMBALAŽNOJ I GRAFIČKOJ INDUSTRIJI**
SITUATION IN PULP, PAPER, PACKAGING AND GRAPHIC INDUSTRY

14:00-14:15 CLOSING OF SYMPOSIUM – ZATVARANJE SIMPOZIJUMA

14:30-18:30 EXCURSION – ACCORDING TO THE CHOICE OF PARTICIPANTS OF THE SYMPOSIUM:

Andric grad, Mokra Gora (Sargan, Mecavnik) or Sirogojno – Ethno village.

IZLET – PO IZBORU UČESNIKA SIMPOZIJUMA:

Andrićgrad, Mokra Gora (Šargan, Mećavnik) ili Sirogojno – Etno selo.

20:30-... CEREMONIAL DINNER – SVEČANA VEČERA

SCIENTIFIC BOARD OF SYMPOSIUM – NAUČNI ODBOR SIMPOZIJUMA

- Prof. Slobodan Jovanovic, Ph. D., Faculty of Technology and Metallurgy, (TMF) Belgrade, Serbia, chairman
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- Branko Dunjic Ph. D., Cleaner Production Centre of Serbia, TMF, Belgrade
- Aleksandar Nikolić, Ph.D., Electrical Engineering Institute Nikola Tesla, Belgrade, Serbia
- Marko Jagodic, BSc, DITP-Pulp and Paper Engineers and Technicians Association, Ljubljana, Slovenia
- Mateja Mesl, Mr. Sci., ICP - Pulp and Paper Institute, Ljubljana, Slovenia
- Prof. Diana Gregor Svetec, Ph. D., Faculty of Natural Sciences and Engineering, Ljubljana, Slovenia
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- Prof. Natasa Bogavac Cvetkovic, Ph. D., Union University - Nikola Tesla, Belgrade, Serbia
- Sefkija Bottonjic, Ph. D., Faculty of Metallurgy and Materials Science, Zenica, Bosnia & Herzegovina
- Prof. Rade Knezevic, Ph. D., Lepenka, Novi Knezevac, Serbia
- Prof. Salim Ibrahimefendic, Ph. D., Faculty of Biotechnology, Bihac, Bosnia & Herzegovina
- Prof. Milorad Krgovic, Ph. D., TMF, Belgrade, Serbia

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- Darko Radosavljevic, TMF, Belgrade
- Predrag Zivkovic, TMF, Belgrade
- Slobodan Jovanovic, TMF, Belgrade





ADDITIONAL INFORMATION

Place: ČIGOTA Hotel, Zlatibor (<http://www.cigota.rs>)

Location: ČIGOTA hotel on Zlatibor is situated at an altitude of 1,000 m, near Zlatibor Lake and King's Square.

Hotel's offer: Snack bar, cafe and confectionery, billiards hall, indoor pool 25mx12,5m, fitness hall, gym and outdoor sport stadiums, hydro and manual massage parlours, finnish sauna, steam bath with aroma therapy, hydro baths and solarium, beauty parlour and hairdresser, hotel boutiques and shops, congress hall, internet cafe, wireless internet, library, tv studio, club and gallery.

<http://www.cigota.rs>, tel: +381-31- 597 - 237, +381 31-597-597

e-mail: recepcija@cigota.rs, hotelcigota@gmail.com

Service: Half-board (breakfast and dinner - organized as breakfast buffet)

Price of accommodation (122din = 1 €):

- single rooms (1/1) in A BLOCK - 4.600,00 din;
- rooms with double bed (1/1F) in A and B BLOCK - 4.700,00 din.;
- two-bed rooms 1/2 in A BLOCK - 3.600,00 din.;
- three-bed apartment (1/3 AB) - 3.600,00 din.;

If apartment AB is used by one person, price is 50% higher, and if two persons use apartment price is 25% higher;

DODATNE INFORMACIJE

Mesto održavanja: Hotel ČIGOTA, Zlatibor (<http://www.cigota.rs>)

Lokacija: Hotel ČIGOTA na Zlatiboru nalazi se na nadmorskoj visini od 1.000 m, nadomak zlatiborskog jezera i Kraljevog trga.

Hotelska ponuda: aperitiv bar, poslastičarnica, kafe bilijar, zatvoreni bazen 25m x 12,5m, fitnes sala, teretana i otvoreni sportski tereni za male sportove, saloni za hidro i manuelnu masažu, finske saune, parno kupatilo sa aroma terapijom, hidro kade i solarijum, frizerski i kozmetički salon, hotelski butici i prodavnice, internet cafe, wireless internet, kongresna sala, biblioteka, TV studio, klub i galerija.

<http://www.cigota.rs>, tel: +381-31-597-597, +381-31-597-237.

e-mail: recepcija@cigota.rs, hotelcigota@gmail.com

Cene smeštaja:

Cene smeštaja na bazi polupansiona (švedski sto doručak i večera) u dinarima (122 din = 1 €) iznose:

- Smeštaj u 1/1 sobama A bloka je 4.600,00 dinara;
- Smeštaj u 1/1F sobama A i B bloka je 4.700,00 dinara;
- Smeštaj u 1/2 sobama A bloka je 3.600,00 dinara;
- Smeštaj u 1/3 AB apartmanima je 3.600,00 dinara;

Ukoliko dve osobe koriste apartman, cena se uvećava za 25%, a ako ga koristi jedna, za 50%;

