



UNIVERSITY OF ZENICA
Faculty of Mechanical Engineering
Bosnia and Herzegovina



ASSOCIATION „SOCIETY OF MAINTAINERS
IN BOSNIA AND HERZEGOVINA“

Četvrta Konferencija - The Fourth Conference

ODRŽAVANJE 2016

MAINTENANCE 2016

Final Program



Engineering
Source

GENERAL SPONZOR



BH TELECOM d.d. SARAJEVO

02 - 04 Juni, 2016.
Zenica - Bosnia and Herzegovina
Hotel Zenica

UNDER THE AUSPICES OF:
Government of the Federation of Bosnia and Herzegovina
Federal Ministry of Education and Science
Government of the Zenica –Doboj Canton
Ministry of Economy of the Government of the Zenica –Doboj Canton

GENERAL SPONZOR –
BH TELECOM d.d. SARAJEVO



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- Adnan Dedović, B.Sc.

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- Biju Nair, Arcelor Mittal Zenica
- Ružica Udovičić, Aluminij dd Mostar

CILJEVI KONFERENCIJE

Ciljevi Konferencije su:

- okupljanje ljudi koji se bave održavanjem sredstava za rad iz različitih aspekata i njihovo strukturno organizovanje,
- saopštavanje rezultata istraživanja na području održavanja, kako teorijskih tako i praktičnih,
- razmjena iskustava iz praktičnih aktivnosti održavanja,
- transfer znanja iz područja održavanja.

TEMATIKA SKUPA

Konferencija će raditi na slijedeći način: plenarna sjednica (uvodni i pozivni radovi za globalne teme), simpozij (radovi po temama skupa) i po potrebi workshops (radni sastanci). Konferencija obuhvata slijedeće tematske oblasti:

- | | |
|-------------------------------------|--|
| 1. Tehnologije održavanja | 11. Asset management |
| 2. Pouzdanost i održavanje | 12. Facility Management |
| 3. Logistika u održavanju | 13. Outsourcing |
| 4. Kvalitet i održavanje | 14. Upravljanje rizicima |
| 5. Nadzor i dijagnostika | 15. Ekologija i održavanje |
| 6. Menadžment i održavanje | 16. Upravljanje zalihama |
| 7. Informacijski sistemi održavanja | 17. Troškovi održavanja |
| 8. Nove tehnologije u održavanju | 18. Zaštita na radu |
| 9. Obrazovanje za održavanje | 19. Pokazatelji uspješnosti održavanja |
| 10. Ljudski resursi u održavanju | |

PREZENTACIJE

Prezentacije su ograničene na **10 minuta + 5 minuta** za diskusiju.

Autori-prezentatori za prezentacije mogu koristiti Power point aplikaciju.

VRIJEME I MJESTO ODRŽAVANJA SKUPA

Skup će se održati od 02 do 04 juna 2016. godine u Hotelu Zenica u Zenici - BiH.

Hotel Zenica je smješten u samom centru grada Zenice na Kamberovića polju. Nalazi se uz sami PSC "Džananović" - najmoderniji i najveći shopping centar u ovom dijelu Evrope, 50 m od najvećeg privrednog sajma u regionu "ZEPS", 30 m od najmodernijeg atletskog kompleksa u jugoistočnoj Evropi. Stotinjak metara udaljenosti od auto puta Doboj - Sarajevo (M17), omogućava jednostavnu i brzu saobraćajnu komunikaciju hotela.

Savremen, elegantan i otmjen ambijent zrači smirenošću i gostoprimstvom. Uz raznovrsnu ponudu i vrhunsku uslugu, profesionalno i uvijek srdačno osoblje, pobrinut će se da Vaš boravak bude ugodan, a sve želje ispunjene!

CONFERENCE OBJECTIVES

Conference objectives are:

- Gathering of people engaged in maintenance funds for the operation of various aspects and their structural organization,
- Communication of the results of research in the field of maintenance, as theoretical and practical,
- Exchange of experiences from practical maintenance activities,
- Transfer of knowledge in the field of maintenance.

CONFERENCE TOPICS

The Conference will be performed as follows: plenary session (Key papers concerned global topics), symposium (papers according to the conference topics) and workshops, when needed. The conference includes the following thematic areas:

- | | |
|--|---|
| 1. Technology maintenance | 11. Asset management |
| 2. Reliability and maintenance | 12. Facility Management |
| 3. Logistics in the maintenance | 13. Outsourcing |
| 4. Quality and maintenance | 14. Risk Management |
| 5. Monitoring and Diagnostics | 15. Ecology and Maintenance |
| 6. Management and maintenance | 16. Inventory Management |
| 7. Information systems maintenance | 17. Cost of maintenance |
| 8. New technologies in the maintenance | 18. Safety at work |
| 9. Education Maintenance | 19. Performance indicators of maintenance |
| 10. Human resources in maintaining | |

PAPER PRESENTATION

Presentation is limited to **10 minutes + 5 minutes** for discussion. Presenters can use PowerPoint slide shows.

CONFERENCE DATE AND VENUE

The conference will be held from 02nd to 04th June 2016 at the Hotel "Zenica", Zenica, Bosnia and Herzegovina.

Hotel Zenica is situated in the center of the town of Zenica on KAMBEROVICA field. It is located next to the PSC "Džananović" - the most modern and largest shopping mall in this part of Europe, 50 m from the largest commercial fair in the region, "ZEPS", 30 m from the most modern athletic complex in southeastern Europe. A hundred meters away from the highway Doboj - Sarajevo (M17), allows easy and fast communication traffic hotel. Modern, elegant and refined atmosphere radiates tranquility and hospitality. With a variety of supply and excellent service, professional and always friendly staff will ensure that your stay is pleasant, and all your wishes fulfilled!

KOTIZACIJA - CONFERENCE FEE

Kotizacija za autore i učesnike Skupa je 150,00 EUR (300 KM) (uključujući i članove naučnog odbora i predsjedavajuće sekcija). Kotizacija obuhvata: zbornik radova sa skupa sa pratećim materijalima, prisustvo svim sekcijama i prezentacijama, osvježenje i piće dobrodošlice.

The conference fee for authors and participants is 150,00 EUR (including members of the Scientific Committee, and session chairmen). The conference fee includes the following: a copy of conference proceedings and accompanying materials, admission to all sessions and presentations, refreshments, and welcome drink. The conference fee should be sent to:

Sparkasse Bank DD Bosnia and Herzegovina

71000 Sarajevo, Zmaja od Bosne 7

SWIFT CODE: ABSBBA22

IBAN: BA391990510008145233

In favour of: "INSTITUT ZA PRIVREDNI INŽINJERING ZENICA"

Fakultetska 1, 72000 Zenica, B&H

Payment Method: OUR

With remark: Registration fee for MAINTENANCE, paper No O16-xxx, name and surname)

Učesnici i autori iz Bosne i Hercegovine svoje kotizacije mogu uplatiti na sljedeći račun (300,00 KM):

Institut za privredni inženjering Zenica, račun kod:

IK Banka d.d. Zenica, 134-0100000-195769

Općina: 103

sa naznakom "Kotizacija za ODRŽAVANJE 2016 ,,

(na uplatnici navesti ime i prezime i oficijelni broj rada O16-xxx za autore)

KORESPONDENCIJA - CORRESPONDENCE

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SMJEŠTAJ - ACCOMMODATION

Dear Colleague(s),
Organizing Committee want to inform all possible participants and passengers to Zenica, that is offering them following hotel for accommodation:

„HOTEL ZENICA“ Zenica

All reservation as well as additional information can be found if you contact hotel directly.

Adresa: Kamberovića čikma b.b.
72000 Zenica, Bosna i Hercegovina

Tel: +387 32 209 600

Fax: +387 32 209 601

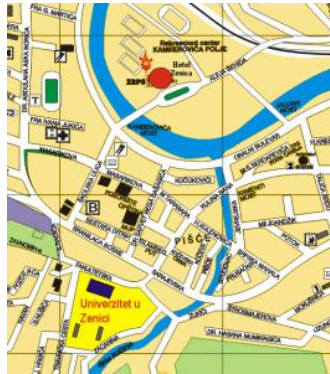
E-mail: info@hotelzenica.ba

Web: www.hotelzenica.ba

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HOTEL ZENICA



SCHEDULE OF EVENTS

ČETVRTAK - THURSDAY June 02nd

- 18.00 – 19.00 Registracija učesnika (Hotel ZENICA)
Registration of Conference Participant
- 19.00 – 20.00 Piće dobrodošlice - Welcome drink (Hotel ZENICA)

PETAK - FRIDAY June 03rd

- 08.30 – 09.30 Registracija učesnika
Registration of Conference Participants
- 09.30 – 11.00 Otvaranje Skupa - Conference Opening
Uvodni referati - Keynote Paper Presentations
- 11.00 – 11.30 Kafe pauza - Coffee Break
- 11.30 – 13.00 Prezentacija radova
Presentation of papers
- 13.00 – 14.00 Skupština Društva održavalaca BiH
- 14.00 – 15.00 Pauza za ručak - Lunch Break
- 15.00 – 17.00 Prezentacija radova
Presentation of papers
- 17.00 – 17.30 Kafe pauza - Coffee Break
- 17.30 – 19.00 Prezentacija radova
Presentation of papers

SUBOTA - SATURDAY June 04th

- 09.30 – 12.00 Radionica

SCHEDULE OF PAPER PRESENTATIONS

PETAK - FRIDAY, June 03rd

09.30 – 11.00 Otvaranje Skupa - Conference opening

Uvodni referati - Keynote Paper Presentation

Chairmen: Dr. S. Brdarević, Dr. Dž. Tufekčić

1. Uloga ultrazvučne tehnologije u pouzdanosti
Ultrasound in Reliability
Trobradović Haris (Croatia)
2. Defekt, otkaz i kvar
Defect, Failure and Breakdown
Halep Amir, Antunović Ranko (B&H)
3. Algoritam za identifikaciju parametara oštećenja kod grednih struktura na bazi sopstvenih frekvencija
The Algorithm for Damage Parameters Identification in Beam-Like Structures Based on Natural Frequencies
Ekinović Elma, Hodžić Nedim, Ekinović Sabahudin (B&H)
4. Prezentacija Generalnog sponzora BH Telecom d.d. Sarajevo

PETAK - FRIDAY, June 03rd

11.30 – 13.00 SESSION I

Chairmen: Dr. M. Imamović, Dr. S. Jašarević

1. Comparison of Two Damage Identification Methods Applied to Beam Structures
Ekinović Elma, Hodžić Nedim, Ekinović Sabahudin (B&H)
2. Održavanje sistema za rezanje abrazivnim vodenim mlazom
Maintenance of System for Abrasive Waterjet Cutting
Brdarević Safet, Jeleč Ajdin (B&H)
3. Primjena različitih metoda za određivanje uspješnosti održavanja
Application of Different Methods for Determining the Success of Maintenance
Karić Munir, Brdarević Safet, Jašarević Sabahudin (B&H)
4. Tehnička dijagnostika u funkciji mjerenja uspješnosti održavanja u BH Telecom d.d.
Technical Diagnostics in Function of Measuring Success of Maintenance the DD BH Telecom
Subašić Adnan, Jašarević Sabahudin, Brdarević Kenan (B&H)
5. Značaj funkcije održavanja i upravljanja virtualnih privatnih mreža
The Importance of Maintenance Function and Management of Virtual Private Networks
Delić Armin, Brdarević Fikret, Uzunović Nermin (B&H)

6. Položaj funkcije održavanja u Rudnicima mrkog uglja Banovići
Position Maintenance Functions for Brown Coal Mines Banovići
Avdić Hasan, Avdić Alma (B&H)
7. Uticaj funkcije održavanja na kvalitet glavnog procesa proizvodnje
Impact of the Maintenance Function on the Quality of the
Production Process
Jašarević Sabahudin, Papić Sejfo (B&H)

PETAK - FRIDAY, June 03rd

15.00 – 17.00 SESSION II

Chairmen: Dr. Dž. Tufekčić, Dr. D.Lisjak

1. Analiza pouzdanosti i rizika od otkaza popravljivih sistema
Reliability and Risk Analysis from Failure of Repairable Technical
Systems
Hasanović Mehmed, Tufekčić Džemo (B&H)
2. Periodično ispitivanje mašina i uređaja
Periodic Testing of Machinery and Equipment
Imamović Mustafa, Mandžuka Abaz, Jašarević Sabahudin (B&H)
3. Smanjenje gubitaka energije održavanjem izolacije i opreme za kondenzat
Reduction of Energy Losses Maintenance Isolation and Equipment Condensate
Fejzić Jasmin, Buljubašić Indira, Eljšan Sandira (B&H)
4. Modern challenges in the maintenance of fixed access telecommunications networks
Škaljo Namir, Delić Armin, Hamedović Šefik, Begović Alen (B&H)
5. Implementacija on-line laboratorijskog informacijskog sistema za praćenje stanja maziva
Implementation of On-Line LIMS System for Condition Monitoring
of Lubricants
Tič Vito (Slovenia)
6. Propisi za uvoz vozila u Bosni i Hercegovini i starosna struktura voznog parka u
Federaciji BiH u periodu 2008.-2015. godina
Regulations for Import Vehicles in Bosnia and Herzegovina and
Age Structure of Vehicle Fleet in Federation BiH in the Period
2008-2015
Barut Muhamed, Selimović Semir, Klisura Fuad, Agić Dragana (B&H)
7. Prediktivni model tehničke ispravnosti vozila
Predictive Roadworthiness of Vehicles Model
Lisjak Dragutin, Šiško Igor, Brckan Krešimir (Croatia)
8. Monitoring of the CO₂ Emissions in Tirana District from the Road Transport
Lorenc Malka, Klodian Dhoska (Albania, *Estonia)*

9. SCR tehnologija i Adblue® kao njen glavni čimbenik
SCR Technology and Adblue® its Main Factor
Dedović Adnan (B&H)
10. Primjena SAP ERP sistema u održavanju RiTE GACKO
Application SAP ERP Software in Maintenance of RiTE GACKO
Gojković Ranka, Gojković Vladimir (B/H)
11. Analiza procesa sagorijevanja čistog uglja u parnom kotlu bloka 6
Termoelektrane „Kakanj“
Analysis of Coal Combustion Process in Block 6 Boiler of the
Thermal Power Plant „Kakanj“
Hodžić Nedim, Ekinović Elma, Kahrman Almir (B&H)
12. Izazovi održavanja velike količine grafičkih podataka
Challenges in Maintenance of Big Data in Computer Graphics
Lemeš Samir (B&H)
13. Web aplikacija eDijagram
Web Application Edijagram (Ediagram)
Sućeska Suad (B&H)

PETAK - FRIDAY, June 03rd

17.30 – 19.00 SESSION III

Chairmen: Dr. S.Lemeš, Dr. F.Klisura

1. Evaluacija upotrebe LED kao izvora svjetlosti u saobraćajnoj signalizaciji
Evaluation of LED as a Light Source in Traffic Signaling
Sofić Amela, Šišić Adnan (B&H)
2. The Higher Education Systems Based on Behavioural Patterns and Enhancing
the Activity of Students
Baróti Enikő (Hungary)
3. The Humanistic Approach of Adult and Tertiary Education
Mészáros Attila (Hungary)
4. Novi način predgrijavanja papira u proizvodnji papirne harmonike
New Method of Preheating Paper in the Production Paper
Accordion
Duraković Jusuf (B&H)
5. Bazalt - sirovina za proizvodnju agregata za moderne pokrove cesta i
željezničkih pruga
Basalt - Raw Material for Production of Aggregate for Modern
Road and Rail Shroud
**Pavlović Marko, Sarvan Muhamed*, Klisura
Fuad*, Aćimović Zagorka (Serbia, * B&H)**

6. EOBD i ispitivanje izduvnih gasova motornih vozila (eko test)
EOBD and Vehicle Exhaust Gases Testing (Eco Test)
Mustafić Ibrahim, Klisura Fuad, Jašarević Sabahudin (B&H)
7. Modern Monitoring and Control Systems for Hydraulic Power Units
Lovrenc Darko (Slovenia)
8. Povremeni monitoring ležajeva procesnih ventilatora pomoću uređaja CMVA60ULS-EN-1
Occasional Monitoring of Process Fans Bearings Using the Device *CMVA60ULS-EN-1*
Alić Senad, Brdarević Safet, Imamović Mustafa, Spahić Eniz (B&H)
9. Predlog modela automatizovanog sistema katodne zaštite gasovoda u zoni dejstva različitih elektroenergetskih uticaja iz okruženja
Proposal Model of Automated System of Cathodic Protection Pipeline in Zone Effects of Different Power Influence in Environmental
Ilić Božo, Adamović Živoslav, Savić Branko (Serbia)
10. Metode optimizacije rada utovarno-istovarnih mjesta u transportu rasutih tereta
Methods of Optimization Work Loading and Unloading of Bulk Transport
Ahmić Ahmed, Mehanović Mustafa (B&H)
11. Održavanje u visokoškolskim institucijama-primjer Univerziteta u Zenici
Maintenance in Higher Education Institutions - An Example of the University of Zenica
Brdarević Safet, Emruli Derviš (B&H)

**Jašarević Sabahudin
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