



**UNIVERSITY OF ZENICA**  
Faculty of Mechanical Engineering  
Bosnia and Herzegovina



**UNIVERSITY ERLANGEN - NUREMBERG**  
Germany



**Asocijacija za kvalitet u Bosni i Hercegovini**  
**Quality Association of Bosnia and Herzegovina**

## **10<sup>th</sup> Research/Expert Conference with International Participation**



# **Final Program**

**SUPER SPONZOR**

**bh**

**May 17<sup>th</sup> - 20<sup>th</sup>, 2017.**  
**Hotel Stella, Neum**  
**Neum - Bosnia and Herzegovina**

**UNDER THE AUSPICES OF:**  
**Government of the Federation of Bosnia and Herzegovina**  
**Federal Ministry of Energy, Mining and Industry**  
**Federal Ministry of Development, Entrepreneurship and Crafts**  
**Federal Ministry of Education and Science**  
**Government of the Zenica –Doboj Canton**  
**City Zenica**

**SUPER SPONZOR**



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## **TEMATIKA SKUPA**

Naučno stručni skup će raditi na sljedeći način: plenarna sjednica (uvodni i pozivni radovi za globalne teme), simpozij (radovi po temama skupa) i po potrebi workshops (radni sastanci).

### **1. KVALITET U PRIVREDI**

Upravljanje kvalitetom (koncept, principi, alati i filozofija); Mjerenje karakteristika kvaliteta sistema i procesa; Metrologija; Kvalitet proizvoda i procesa; Kvalitet u održavanju; Upravljanje lancem snabdijevanja; Kvalitet i zaštita okoline; Inženjering kvaliteta; Ekonomika kvaliteta; Upravljanje rizicima; Troškovi kvaliteta i upravljanje troškovima kvaliteta. Poslovna izvrsnost.

### **2. KVALITET U OBRAZOVANJU**

Pedagoški standardi i norme; Metode i postupci provjere i praćenja znanja studenata (učenika); Metode i postupci ocjenjivanja kvaliteta nastavnog osoblja; Samoevaluacija institucija u obrazovanju; Bolonjski proces; Akreditacija i certifikacija nastavnih programa i institucija; Zakonska regulativa u području obrazovanja; Preporuke za kvalitet u obrazovanju IWA2; Akreditacija u visokom obrazovanju

### **3. KVALITET U JAVNOM SEKTORU**

Kvalitet u javnoj upravi; Kvalitet u zdravstvu; Kvalitet u komunalnim preduzećima; Kvalitet u poljoprivredi; Kvalitet u proizvodnji hrane; Saobraćaj i kvalitet, Aspekti kvaliteta u procesu pridruživanja BiH EU; Kvalitet u politici; Kvalitet u medijima; Kvalitet u turizmu

### **4. NORMATIVNA REGULATIVA U KVALITETU**

Međunarodni standardi ISO 9000 - Sistemi upravljanja kvalitetom, Međunarodni standardi ISO 14000 - Sistemi okolinskog upravljanja; Međunarodni standardi OHSAS 18000 - Obezbjedeње zdravlja i sigurnosti; HACCP, ISO 16949, ISO 22000-Upravljanje sigurnošću hrane, ISO 27000-Zaštita informacija, ISO 26000-društvena odgovornost, Stanje i trendovi u razvoju standarda. Informacioni sistemi kvaliteta; Međunarodne nagrade kvaliteta; Standardizacija; Državni program kvaliteta; Modeli TQM-a i njegova evolucija; Integrisani sistemi kvaliteta

## **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 17. do 20. maja 2017. godine u Hotelu Stella u Neumu - BiH.

Hotel Stella nalazi se u Neumu, gradiću smještenom na području turističke regije južnog Jadrana i jedinog izlaza Bosne i Hercegovine na more, mjesta posebnog mediteranskog ugođaja i šarma. Sam hotel smješten je u mirnoj uvali blizu obali mora, mjesto je posebnog primorskog ugođaja i raznih ugostiteljsko turističkih privlačnosti.

## CONFERENCE TOPICS

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

### 1. QUALITY IN BUSSINES

Quality management (Concept, Principles, Tools and Philosophies); System and Process Performance Measurements; Metrology; Quality of product and process; Quality in maintenance; Supply chain management; Environment protection quality; Quality Engineering; Quality Economics; Risk Control; Business Excellence

### 2. QUALITY IN EDUCATION

Pedagogical standards and norms; Methods and procedures for control and monitoring of student achievements; Methods and procedures of educational staff quality control; Educational institutions self-evaluation; The Bologna process; Accreditation and certification of educational programs and institutions; Legislation in the education; Recommendations for quality in education IWA2; Accreditation in Higher Education

### 3. QUALITY IN PUBLIC SECTOR

Quality in public institutions; Quality in health institutions; Quality in community enterprises; Quality in Agriculture; Quality in Food Processing Industry; Aspect of Quality in Process Accesion BiH in EU; Quality in politics; The quality of the media; Quality in Tourism

### 4. STANDARDS REGULATION IN QUALITY

International standards ISO 9000 - Quality Management System; International standards ISO 14000 - Environmental Management System; International standards ISO 18000 - Occupational Health and Safety; HACCP, ISO 16949-Automotive quality management systems, ISO 22000-Food safety management system, ISO 27000-Information security management standards, ISO 26000-Social Responsibility, Status and trends in the development of standards; Quality information systems; Quality awards; Standardization; National quality programs; TQM models and their evaluation; Integrated quality systems

## 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 17<sup>th</sup> to 20<sup>th</sup> May 2017 at the Hotel "Stella", Neum, Bosnia and Herzegovina.

Hotel Stella is situated in Neum, little mediterranean town on the southern coast of the Adriatic Sea, at the outskirts of the pearl of medieval architecture, the town of Dubrovnik. Neum is the only town in Bosnia and Herzegovina which has sea exit and it is a town of special mediterranean ambient and charm.

Hotel Stella it self, is situated near the beach, in the quiet part of Neum, about 500 meters away from the town center.

## KOTIZACIJA - CONFERENCE FEE

Kotizacija za autore i učesnike Skupa je 150,00 EURO (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**  
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With remark: Registration fee for QUALITY 2017, paper number Q17-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:**  
**ASA Banka d.d. Sarajevo, 134010000195769**  
**Općina: 103**  
**sa naznakom "Kotizacija za KVALITET 2017 „**  
**(na uplatnici navesti ime i prezime i oficijelni broj rada Q17-xxx)**

## KORESPONDENCIJA - CORRESPONDENCE

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## SMJEŠTAJ - ACCOMMODATION

Dear Colleague(s),  
Organizing Committee want to inform all possible participants and passengers to Neum, that **GRAND TOURS** travel agency is offering them following hotels for accommodation: „HOTEL STELLA“ Neum  
All reservation as well as additional information can be found on:

**www.grandtours.ba**  
**e-mail: ekskurzije@grandtours.ba**  
**tel: +387 32 406-406**  
**+387 61 713 392**



**CITY NEUM**



**HOTEL STELLA**



**HOTEL STELLA**

# SCHEDULE OF EVENTS

## **SRIJEDA - WEDNESDAY May 17<sup>th</sup>**

**18.00 – 20.00** Registracija učesnika i piće dobrodošlice  
Registration and Welcome Drink

## **ČETVRTAK - THURSDAY May 18<sup>th</sup>**

**08.45 – 09.45** Registracija učesnika  
Registration of Conference Participant

**09.50 – 10.00** Otvaranje Skupa - Conference Opening

**10.00 – 11.00** Uvodni referati - Keynote Paper Presentation

**11.00 – 11.30** Kafe pauza - Coffee Break

**11.30 – 13.00** Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

**13.00 – 16.00** Pauza za ručak - Lunch Break

**16.00 – 17.30** Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

**17.30 – 18.00** Kafe pauza - Coffee Break

**18.00 – 19.30** Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

**20.00 –** Večera - Dinner

## **PETAK - FRIDAY May 19<sup>th</sup>**

**09.00 – 10.30** Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations

**10.30 – 11.00** Kafe pauza - Coffee Break

**11.00 – 12.30** Prezentacija radova u dvije paralelne sekcije  
Two Parallel Sessions of Presentations



# SCHEDULE OF PAPER PRESENTATIONS

**ČETVRTAK - THURSDAY, May 18<sup>th</sup>**

**09.50 – 10.00 Otvaranje Skupa - Conference opening**

**10.00 – 11.00 Uvodni referati - Keynote Paper Presentation**

**Chairmen: S.Brdarević, N.Zaimović-Uzunović**

1. Quality Improvement Strategies  
One Common Goal – A Variety of Methods  
*Hamrol Adam (Poland)*
2. Evaluacija radne uspješnosti akademskog osoblja – Objektivni model  
Academic Staff Evaluation – Objective Model  
*Dedić Enes (B&H)*
3. Prezentacija sponzora

**ČETVRTAK - THURSDAY, May 18<sup>th</sup>**

**11.30 – 13.00 SESSION I**

**Chairmen: H.Bašić, M. Drljača**

1. Čimbenici kvalitete procesa zračnog transporta  
Quality Factors of the Process of Air transport  
*Drljača Miroslav (Croatia)*
2. Značaj primjene grupnog koncepta fleksibilne proizvodnje namještaja od masiva  
Importance of Applying the Concept of Group Flexible Production of Massive  
Wood Furniture  
*Hasanić Sanin, Obućina Murčo, Brdarević Safet (B&H)*
3. Primjena koncepta praćenja indeksa ukupne efikasnosti opreme s  
ciljem optimizacije proizvodnih procesa  
Application of Overall Efficiency Equipment Index Method for  
Production Process Optimization  
*Bašić Hazim, Brkić Muhamed, Softić Almira (B&H)*
4. An Overview of the Fuzzy Sets on Process Capability Analysis  
*İhsan Kaya (Turkey)*
5. Računarstvo u oblaku kao alat za razmjenu CAD podataka  
Cloud Computing as a Tool for CAD Data Intechange  
*Lemeš Samir (B&H)*

6. Projektiranje izolacije mehaničkih vibracija u funkciji osiguranja kvalitete  
Design of Isolation of Mechanical Vibrations in the Function of the Quality Assurance  
**Šaravanja Davorka, Grbešić Marko (B&H)**
7. Razvoj eksperimentalnog postrojenja za inženjerski dizajn  
vertikalnih vjetroturbina male snage  
Development of Experimental Facilities for Engineering  
Design of Low Power Vertical Axis Wind Turbines  
**Balić Senad, Bešlagić Ernad, Arifović Kemal, Bošnjak Armin (B&H)**

**ČETVRTAK - THURSDAY, May 18<sup>th</sup>**

**11.30 – 13.00 SESSION II**

**Chairmen: N. Zaimović-Uzunović, Lemeš S.**

1. Labour Market Expectations Towards Higher Education  
**Meszaros Attila (Hungary)**
2. Organic Pedagogical Model in the Higher Education  
**Baroti Eniko (Hungaria)**
3. Revised ESG – Additional Impetus for Development of Higher Education in B&H  
Novi ESG – dodatni impuls za razvoj visokog obrazovanja u BiH  
**Muhamedbegović Benjamin, Džanić Enis, Dedić Enes, Plančić Ibrahim (B&H)**
4. Komparativna analiza implemetacije ISO 9001:2015 standarda i ESG 2015  
Comparative Analysis of Implementing ISO 9001:2015 Standard and ESG 2015  
**Bajramović Esad, Mekić Ensar, Muhamedbegović Benjamin (B&H)**
5. Stilovi učenja kao važan faktor u razvoju i implementaciji adaptivnih edukacijskih  
hipermedijskih sistema - AEHS.  
Learning Styles as an Important Factor in Developing and Implementing Adaptive  
Educational Hypermedia Systems – AEHS  
**Kulaglič Suad (B&H)**
6. Quality Measuring: Validation of Educational Quality at  
Faculty of Logistics, University of Maribor  
**Kovše Špela, Jereb Borut (Slovenia)**
7. Kvalitetno obrazovanje za sve –unapređenje socijalne dimenzije Bolonjskog procesa  
Quality Education for all- Improving Social Dimension of the Bologna Process  
**Jovanović-Kranjec Milena (Serbia)**
8. The classroom quality work self-assessment and its importance  
**Jashari Hasan (Macedonia)**

1. Komparacija rezultata ocjene sposobnosti preciznog mjernog sata po vodiču za ocjenu MSA i VDA5  
Results Comparison of Capability Assessment of Precise Indicator by Guidebook MSA and VDA 5  
**Denjo Daut, Pobrić Senada, Zaimović-Uzunović Nermina, Pobrić Esad, Denjo Lejla (B&H)**
2. The Dependence of the Measurement Accuracy of Measured Item Orientation on the Contour Measuring Machine  
**Kuran Marek (Poland)**
3. Doprinos start-stop efekta mjernoj nesigurnosti mjerila protoka sa ručnim prekidanjem  
Contribution of Start-Stop Effect on Uncertainty Measurement of Manuel Ending Flow Meter  
**Zaimović-Uzunović Nermina, Rozić Miroslav (B&H)**
4. Uticaj strategije uzorkovanja na jednačinu referentne ravni merene na KMM  
The Effect of Sampling Strategy on the Equation of a Reference Plane Measured on a CMM  
**Štrbac Branko, Hadžistević Miodrag Klobučar Rok\*, Ačko Bojan\*, (Serbia, \*Slovenia)**
5. Pобољшanje kvaliteta čelične žice za armaturne mreže primjenom Matlab softvera  
Improvement of Wire Quality for Steel Meshes by Applying Matlab Software  
**Uzunović Faik, Žuna Šaban, Mahmutović Aida, Delić Alen (B&H)**
6. Quality of Electronic Services  
**Ramaj Vehbi, Lajqi Hysen, Ramaj Valbone, Qoqaj Aliismet (Kosovo)**
7. Kvalitet betonskih konstrukcija u BiH  
Quality of Concrete Structures in BiH  
**Hodžić Emir (B&H)**
8. Uticaj nadmorske visine staništa na sadržaj ukupnih antocijana u plodovima šumske jagode (*fragaria vesca* L.)  
The Influence of the Habitat's Altitude on the Content of Total Anthocyanins in the Fruits of Wild Strawberries (*Fragaria vesca* L.)  
**Bektić Sanida, Mustafić Maida, Huseinović Samira, Šabanović Elvedin (B&H)**

1. Primjenjivost e-udžbenika u osnovnoj školi: Studij slučaja na prostoru Srednjobosanskog kantona  
Applying of e-Books in Primary Schools: Case Study in the Area of Central Bosnia Canton  
*Kulašin Džemal, Huseinspahić Nezir, Debeljak Mario (B&H)*
2. Model organizacije stručnog seminara  
Model of Organization of the Seminar  
*Brdarević Safet, Jašarević Sabahudin, Brdarević Fikret, Đulić Emir (B&H)*
3. Effectiveness of Project-Based Learning in GIS Course  
*Blagojević Branko, Sikora Marjan (Croatia)*
4. Uloga preduzetništva u visokom obrazovanju – analiza preduzetničkih karakteristika studenata  
Role of Entrepreneurship in Higher Education – Analysis of Students' Entrepreneurial Characteristics  
*Arnaut Dino, Brdarević Safet, Brdarević Fikret (B&H)*
5. Jezički aspekt CLIL-a u obezbjeđenju kvaliteta na tehničkim fakultetima Univerziteta u Zenici  
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