



ACADEMY OF SCIENCES AND ARTS
OF THE REPUBLIC OF SRPSKA



ALMA MATER
EUROPAEA



United Nations
Educational, Scientific and
Cultural Organization

State Commission of
Bosnia and Herzegovina
for UNESCO

**XII MEЂУНАРОДНИ НАУЧНИ СКУП
САВРЕМЕНИ МАТЕРИЈАЛИ 2019**

ПРОГРАМ РАДА

**XII INTERNATIONAL SCIENTIFIC CONFERENCE
CONTEMPORARY MATERIALS 2019**

PROGRAMME

Бања Лука, 1 – 3. септембар 2019. године
Banja Luka, September 1 to 3, 2019



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ОРГАНИЗАТОР НАУЧНОГ СКУПА
Академија наука и умјетности Републике Српске

СУОРГАНИЗАТОР
Alma Mater Europaea

ПОКРОВИТЕЉ НАУЧНОГ СКУПА
*Министарство за научнотехнолошки развој, високо образовање и
информационо друштво*

ОДРЖАВАЊЕ СКУПА СУ ПОМОГЛИ
*Електропривреда Републике Српске
Универзитетски Клинички центар Републике Српске
Комора доктора медицине РС
УНЕСКО
ЕХЕ д.о.о. Бања Лука*

ОРГАНИЗАЦИОНИ ОДБОР

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Академик Васкрсија Јањић, потпредсједник
Академик Рајко Кузмановић
Мр Срђан Рајчевић
Академик Бранко Шкундрић
Академик Неђо Ђурић
Проф. др Есад Јакуповић, дописни члан АНУРС-а
Проф. др Лудвик Топлак
Проф. др Зоран Рајилић
Проф. др Владо Ђајић
Проф. др Саша Вујновић

ORGANIZER OF THE CONFERENCE

Academy of Sciences and Arts of the Republic of Srpska

COORGANIZER

Alma Mater Europaea

UNDER THE PATRONAGE OF

*Ministry for Scientific and Technological Development, Higher Education
and Information Society*

THE SCIENTIFIC CONFERENCE HAS BEEN SUPPORTED BY

Power Utility of the Republic of Srpska

University Clinical Center of Republic of Srpska

The Republic of Srpska Medical Association

UNESCO

EHE, LLC Banja Luka

ORGANIZING COMMITTEE

Academician Dragoljub Mirjanić, president

Academician Vaskrsija Janjić, vice-president

Academician Rajko Kuzmanović

Srđan Rajčević, MSc

Academician Branko Škundrić

Academician Neđo Đurić

Prof. Esad Jakupović, Ph.D, corresponding member ASARS

Prof. Ludvik Toplak, Ph.D.

Prof. Zoran Rajilić, Ph.D.

Prof. Vlado Đajić, Ph.D.

Prof. Saša Vujnović, Ph.D.

НАУЧНИ ОДБОР

Академик Драгољуб Мирјанић, АНУРС
Академик Бранко Шкундрић, АНУРС
Академик Јован Шетрајчић, АНУРС
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Академик Милан Дамњановић, САНУ (Србија)
Академик Џералд Полак, (САД)
Академик Стане Пејовник (Словенија)
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Проф др Мартин Чаплин (Велика Британија)
Проф. др Ђуро Коруга (Србија)
Проф.др Лидија Матија (Србија)
Проф. др Миомир Павловић (Источно Сарајево)
Проф. др Перо Дугић (Бања Лука)
Проф. др Дубравка Марковић (Србија)

Научни скуп одржаће се у Великој сали АНУРС-а у Бањој Луци

SCIENTIFIC COMMITTEE

Academician Dragoljub Mirjanić, ASARS
Academician Branko Škundrić, ASARS
Academician Jovan Šetrajić, ASARS
Academician Tomislav Pavlović (Serbia)
Academician Nedo Đurić, ASARS
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Prof. Djuro Koruga, Ph.D. (Serbia)
Prof. Lidija Matija, Ph.D. (Serbia)
Prof. Miomir Pavlović, Ph.D. (East Sarajevo)
Prof. Pero Dugić, Ph.D. (Banja Luka)
Prof. Dubravka Marković, Ph.D. (Serbia)

*The scientific conference will take place in the Big Hall of the
ASARS in Banja Luka*

НЕДЕЉА, 1. СЕПТЕМБАР 2019. ГОДИНЕ

- Долазак и смјештај пленарних предавача у хотелу „Босна” у Бањој Луци
- Долазак и смјештај учесника научног скупа који живе изван Бање Луке у хотелима по избору

ПОНЕДЕЉАК, 2. СЕПТЕМБАР 2019. ГОДИНЕ

- 08.30 Регистрација учесника научног скупа (АНУРС)
09.00 Отварање конференције
09.20 Пленарна предавања
Промоција монографије „Електроенергетика у Србији и Републици Српској”
14.00 Постер презентације
15.00 Дискусија
Затварање конференције
Ручак у хотелу „Босна”
Одлазак учесника научног скупа

УТОРАК, 3. СЕПТЕМБАР 2019. ГОДИНЕ

10.00 - 13.30

ОКРУГЛИ СТО "УТИЦАЈ РАДОНА И ТОРОНА НА ЗДРАВЉЕ
СТАНОВНИШТВА"

УНЕСКО партиципацијски програм 2018-2019

SUNDAY, SEPTEMBER 1, 2019

- Arrival of the plenary speakers and accommodation in the hotel „Bosna” in Banja Luka
- Arrival of the participants and accommodation in the hotels optionally

MONDAY, SEPTEMBER 2, 2019

- 08.30 Registration of the participants in the ASARS
09.00 Opening of the Conference
09.20 Plenary session
Promotion of monography „Elektrenergetic in Serbia and Republic of Srpska”
14.00 Poster presentations
15.00 DISCUSSION
Closing ceremony
Lunch at the hotel „Bosna”
Departure of the participants

TUESDAY, SEPTEMBER 3, 2019

10.00 - 13.30

**THE ROUND TABLE "THE INFLUENCE OF RADON AND TORON
TO THE HEALTH OF POPULATION"
UNESCO PARTICIPATION PROGRAMME 2018-2019**

ПОНЕДЕЉАК, 2. СЕПТЕМБАР 2019. ГОДИНЕ

MONDAY, SEPTEMBER 2, 2019

**СВЕЧАНО ОТВАРАЊЕ СКУПА
OPENING CEREMONY
(09.00 – 09.20)**

- Скуп ће отворити и учеснике поздравити академик Рајко Кузмановић, предсједник АНУРС-а
Academician Rajko Kuzmanović, president of ASARS will give an opening speech
- Поздравни говор министра за научнотехнолошки развој, високо образовање и информационо друштво, Мр Срђана Рајчевића
Welcome side spechs – Minister for Scientific and Technological Development, Higher Education and Information Society
Srđan Rajčević, MSc
Поздравно обраћање гостију
Welcome speeches of the guests

РАДНИ ДИО СКУПА
WORKING SESSION
(09.20 – 15.10)

ПЛЕНАРНА ПРЕДАВАЊА
PLENARY SESSION
(09.20 – 13.40)

- 9.20 – 9.40 Slavko Mentus
Batteries as a tool against climate changes
- 9.40 – 10.00 Jean-Marie Dubois
Amorphous Al-Ce-Cu-Fe alloys: Glass formation and properties
- 10.00 - 10.20 Stane Pejovnik
Li-B alloys and borophene materials – current status
- 10.20 – 10.40 Spomenka Kobe
New processing re-based magnetic materials
- 10.40 – 11.00 Francesco Bochicchio
Italian experience on research and other activities on protection from radon exposure, in the European context
- 11.00 – 11.20 Пауза (Coffee break)
- 11.20 – 11.40 Nenad Filipović
In Silico clinical trials to design and safely test new drugs and medical devices in virtual patients - SILICOFCM and InSilc projects

- 11.40 – 12.00 Plamen Tsankov
Technical and Economic Development of the Photovoltaic Electricity in Bulgaria
- 12.00 – 12.20 Ljubomir Majdandžić
Contemporary materials and equipment for zero energybuildings
- 12.20 - 12.40 Vojislav V. Mitić
The submicro particles and organism's nature in the light of Brownian's motion
- 12.40 – 13.00 Duško Dudić
The concept of dielectric neural prosthesis
- 13.00 – 13.20 Jovan Vojinović
Contemporary medicaments and materials for treatment of caries in early childhood
- 13.20– 13.40 Predrag Dašić
Bibliometric and statistical analysis of categories in the field of "materials science" within SCI-E
- 13.40–14.00 Svetlana Stevović
Nanotechnology in the function of sustainable water use

ПОСТЕР ПРЕЗЕНТАЦИЈЕ POSTER SESSION

ПОНЕДЕЉАК, 2. СЕПТЕМБАР 2019. ГОДИНЕ

MONDAY, SEPTEMBER 2, 2019

(14.00 – 15.00)

1. Suzana Apostolov, Đendi Vaštag, Borko Matijević, Gorana Mrđan, Jelena Nakomčić
Study of the biological activity descriptors of the barbituric acid derivatives
2. Gorana Mrđan, Sanja Vlaisavljević, Đendi Vaštag, Suzana Apostolov, Borko Matijević
Study of the antioxidant potential of selected monothiocarbohydrazone derivatives
3. Savka Janković, Aleksandra Šmitran, Sanja Pržulj, Dragana Gajić, Mladena Malinović, Dijana Jelić
Antimicrobial and photocatalytical performances of doped and undoped nanoparticles of zinc oxide
4. Dijana Jelić, Aleksandra Šmitran, Sanja Pržulj, Savka Janković, Dragana Gajić, Mladena Malinović
Study of ferrum oxide nanoparticles doped with copper: antimicrobial and photocatalytical approach
5. Rada Petrović, Branko Škundrić, Jelena Penavin-Škundrić, Darko Bodroža, Zora Levi, Slavica Sladojević
Adsorption of diethyl ether from the gas phase on mordenite

6. Danijela Vuković, Slavica Maletić, Blanka Škipina, Adriaan Stephanus Luyt, Dragoljub Mirjanić i Duško Dudić
Dielectric, photodielectric and optical properties of pmma/Alq3 composites
7. Amela Greksa, Mladenka Novaković, Maja Đogo, Ivana Mihajlović, Mirjana Sekulić, Jasna Grabić
Assessment of heavy metals (Cu, Pb, Zn and Ni) in the stormwater runoff from the main streets of the city of Novi Sad
8. Ljiljana Suručić, Dijana Mihajlović, Bojana Marković, Zvezdana Sandić, Aljoša Stanković, Aleksandra Nastasović
Metal ions speciation by magnetic polymer/bentonite nanocomposite
9. Zvezdana Sandić, Bojana Marković, Dijana Mihajlović, Ines Miljanović, Ivan Stefanović, Jasna Džunuzović, Aleksandra Nastasović
Novel amino-functionalized magnetic polymer/bentonite composite for chromium removal from aqueous solutions
10. Aco Janićijević, Nemanja Stojanović, Srdan Divac, Aleksandra Kalezić-Glišović, Aleksa Maričić
Activation time dependent magnetization of the Fe/BaTiO₃ system with varying Constituent mass ratios
11. Milesa Srećković, Aco Janićijević, Milovan Janićijević, Sanja Jevtić, Zoran Latinović, Katarina Zarubica, Aleksandar Bugarinović
Application and modeling of laser invasive, modulation and diagnostical techniques in biomedicine

12. Ana Simović, Svetislav Savović, Alexandar Djordjevich, Branko Drljača, Aco Janičijević
Bandwidth of plastic-clad silica optical fibers with w-shaped refractive index profile
13. Siniša Vučenović, Jovan Šetrajčić, Dušan Ilić
Superconductivity of lanthanum hydride up to 250 K
14. Sandra Veljković, Vojislav V. Mitić
Synthesized diamonds thermal and electro conductivity bridging by fractal nature analysis
15. Svjetlana Sredić, Ljiljana Tankosić, Pavle Tančić, Zoran Nedić
Flocculation studies of natural quartz sample using anionic polyacrilamide
16. Ana Vesković, Jelena Kostić, Dušan Mladenović, Đura Nakarada
Application of EPR spectroscopy for in vitro studies of PLGA particles degradation
17. Matilda Lazić, Danijela Jašin
Influence of synthesis conditions on textural properties of AlFe pillared clays
18. Dane Marčeta, Vladimir Petković, Gordana Lakić Globočki
Production of wood energy by chipping
19. Mirjana Dragoljić, Branka Rodić-Grabovac, Ljubica Vasiljević, Vesna Matić, Ljiljana Simurdić
Identification of basic cannabinoids using gas chromatography technique with mass detector – method validation

20. Mirjana Dragoljić, Branka Rodić-Grabovac, Ljubica Vasiljević, Vesna Matić, Ljiljana Simurdić
Identification of basic cannabinoids using gas chromatography technique with mass detector – method validation
21. Ivana Radonjić, Tomislav Pavlović, Dragoljub Mirjanić, Darko Divnić
The influence of solar modules soiling on their energy efficiency
22. Zoran Ivić
Effects of spatial dispersion on self-induced transparency in two-level media
23. Branko Pejović, Duško Kostić, Mitar Perušić, Zoran Obrenović, Vladimir Damjanović
Graphic interpretation of exergy problem of ideal gas in characteristic thermodynamics diagrams
24. Ivan Živić, Dušanka Marčetić, Sunčica Elezović-Hadžić
Monte Carlo simulations of a polymer chain model on euclidean lattices
25. Zoran Rajilić, Nikola Stupar, Tatjana Vujičić, Sreten Lekić
Emergence of ordered motion of the oscillator driven by fluctuating force
26. Dušan Ješić, Pavel Kovač, Borislav Savković, Dražen Sarjanović D. Golubović
Comparatively testing of tribological characteristics of nodular cast iron austempered by classic and isothermal procedure

27. Darko Divnić, Dragoljub Mirjanić, Tomislav Pavlović,
Ivana Radonjić, Ljubiša Preradović
Analysis of software application in solar energy

28. Nikola Cekić
Glass facades in contemporary urbarchitecture

29. Dragoljub Mirjanić, Tomislav Pavlović, Esad Jakupović,
Darko Divnić
Methods of solar energy materials characterization

30. Tomislav Pavlović, Dragoljub Mirjanić, Ivana Radonjić,
Darko Divnić
*Comparative investigation of fixed and tracking PV solar power
plants energy efficiency*

31. Hana Stefanović, Slobodan Obradović, Nikola Davidović
*Some applications of new technologies in receive satellite
antenna positioning parameters evaluation*

32. Slobodan Obradović, Borivoje Milošević, Đurđe Milanović
*Algorithm for realization of energy efficient plan-parallel UV
reactor with a large number of individual sources of radiation*

33. Slobodan Obradović, Nikola Davidović, Borivoje Milošević,
Borislav Đorđević
*The influence of setting parameters on RAID 0 magnetic disk
array performance*

34. Dražan Jaroš, Goran Kolarević, Dragoljub Mirjanić
Application of radiation protection in the design of radiotherapy department
35. Goran Kolarević, Dražan Jaroš, Dragoljub Mirjanić
Radiation protection in the design of orthovoltage radiotherapy facility
36. Suad Obradović, Krsto Mijanović
The production of 1,5-dinitroxy-3-nitrosine pentane double reaction
37. Radoslav Grujić, Danica Savanović
Thermal analysis of food products using differential scanning calorimetry (DSC)
38. Igor Grujić, Branko Latinović, Brane Novaković
3D printing technologies: a novel possibilities of application in industrial production
39. Brane Novaković, Igor Grujić
Application google solutions for evaluation efficiency and cost of application quality and food safety management system
40. Gordana Broćeta, Marina Latinović, Žarko Lazić
Modeling abrasion resistance of self-compacting concrete
41. Marina Nikolić Topalović, Milenko Stanković
Evaluation of floor coverings from the ecological and economic aspect in the design stage

42. Petar Mali, Milan Pantić, Milica Pavkov-Hrvojević, Slobodan Radošević
Stripe phase of J1-J2 Heisenberg antiferromagnet on BCC lattice: GF method VS Z2XO(3) nonlinear sigma-model
43. Rade Biočanin, Slađana Mirjanić, Dražen Sarjanović, Mubina Čolaković
Modern materials for decontamination treatment and remediation of land in conditions of high-spoticated contamination
44. Sonja Ketin, Marko Andrejić, Mitar Lutovac, Rade Biočanin
Future of technology of polymerization production (polypropylene)
45. Vojkan Zorić
Resonance as new method in determining the age of paints
46. Milorad Tomić, Mihael Bučko, Marija Ridošić, Jelena Bajat
The effect of 4-hydroxy-benzaldehyde on Zn and Zn-Mn electrodeposition from ethaline
47. Marijana Kosanić, Tatjana Stanojković
Biomedical potential of selected mushroom species
48. Tatjana Botić, Mirko Petković, Pero Dugić, Aleksandra Šinik
Adsorbens regeneration from the tube oil reraffination process
49. Nedjo Đurić, Perica Đuran, Dijana Đurić, Milan Perišić, Milica Đurić
Corrosion of concrete and armature due to the process of carbonatization and sulfate corrosion

50. Dragan Despotović, Tanja Milešević, Strahinja Rogić
The use of bentonite on „Srbačko-Nožička ravan” floodplain
51. Dijana Đeordić, Dragoljub Mirjanić, Svetlana Pelemiš
Hydrogen implanted into metals-properties and application
52. Stojan Srbinoski
Benefits of new over older types of materials in the construction of sewer pipes
53. Stojan Srbinoski
Results and experience from the new test working of the station for the purification the fecal waste water in Volkovo
54. Mehmet Cetin
Post-modern view of design and planning materials a with landscape design
55. Dušan Ilić, Jovan Šetrajčić, Siniša Vučenović
Nanostructures as a mediums for the targeted drug delivery
56. Gordana Kuprešak, Tatjana Šljokavica, Jovan Vojinović
Fluoride varnishes as a solution for poor health of milk teeth in Sipovo municipality
57. Jovan Vojinović, Tatjana Šljokavica, Gordana Kuprešak
Use of composite materials for fixed restoration of lost tooth in a teenager

58. Ljubiša Petrov, Lidija Matija
Atomic force microscopy as a tool for testing biomedical samples and elimination probe artifacts
59. Valentina Matović, Jasna Trbojević-Stanković, Lidija Matija, Dušan Šarac, Aleksandra Vasić-Milovanović, Andrija Petrović, Nikola Stojiljković
Using NIR spectrum of spent hemodialysis fluid to predict serum iron level
60. Valentina Matović, Jasna Trbojević-Stanković, Lidija Matija, Dušan Šarac, Aleksandra Vasić-Milovanović, Andrija Petrović, Nikola Stojiljković
Predicting CRP level using nir spectrum of spent hemodialysis fluid
61. Željka Kojić, Olivera Dolić, Nataša Trtić, Nataša Knežević, Andrija Bošnjak
Efficacy of platelet -rich fibrin (PRF) in donor site healing after removal of free gingival graft (FGG)
62. Nataša Knežević, Željka Kojić, Olivera Dolić, Marija Obradović, Slava Sukara, Aleksandra Đeri
The efficiency of hydrogen peroxide in bleaching vital teeth
63. Tanja Jošić Tegeltija, Nataša Knežević, Ranka Knežević, Sanja Ilić
The effect of different materials for definitive obturation of root canal on postoperative pain, quality of endodontic filling and discoloration of teeth

64. Tijana Adamović, Nataša Trtić, Verica Pavlić, Valentina Veselinović, Ognjenka Janković, Renata Tamburić
Efficacy of local use of probiotics as an adjunct to non-surgical periodontal therapy
65. Ognjenka Janković, Smiljana Paraš, Radmila Arbutina, Irena Kuzmanović Radman, Tijana Adamović, Valentina Veselinović, Vladan Mirjanić
Evaluation of gingival microleakage in class II composite restorations: an in vitro study
66. Ognjenka Janković, Radmila Arbutina, Vladan Mirjanić
Cytotoxic effect of newly synthesized nanomaterials for potential dental application
67. Valentina Veselinović, Nataša Trtić, Tijana Adamović, Olivera Dolić, Radmila Arbutina, Nataša Knežević, Slava Sukara
Influence of chemical plaque control agents on the color stability of hybrid nanoceramics
68. Vesna Ljubojević
Digital imaging analysis of the extraembryonic structures
69. Djordje Mirjanić, Vladan Mirjanić, Jovan Vojinović
Analysis of protective effects of xylitol on tooth enamel
70. Radmila Arbutina, Nataša Trtić, Ognjenka Janković, Vladan Mirjanić, Valentina Veselinović
The hardest substance in human body and its wear off tooth enamel

71. Branislava Jeftić, Lidija Matija, Djuro Koruga
New approach to detection of abnormal cervical cells
72. Nemanja Vuković, Đorđe Antonijević, Vladimir Biočanin,
Dragan Ilić, Milica Gajić, Vukoman Jokanović
*Difference in contact angle values among calcium silicate and
calcium aluminate dental cements*
73. Svetlana Pelemiš, Srđan Vuković
Biomaterials in dentistry
74. Barbara Stanimirović, Tatjana Mamić, Sonja Đurić
Clinical significance of capillaroscopy in rheumatic diseases
75. Barbara Stanimirović, Dragi Stanimirović, Sonja Đurić,
Tatjana Mamić
*Diagnostic value of triple-phase bone scintigraphy in diagnosis of
osteomyelitis at children*
76. Srđan Vuković, Jelena Vulinović, Svetlana Pelemiš
Radon in the water
77. Goran Grahovac, Milomir Trivun, Bojan Guzina,
Goran Pašić
The impact of creatine monohydrate on body weight of swimmers
78. Mirjana Đermanović, Ljubica Bojanić
*Analysis of the contents of calcium, magnesium and total
hardness in purified water and water for injection*

79. Veljko Đukić, Ognjen Đukić

The health significance of aluminum in drinking water

80. Biljana Bepaljko

Economic utilization of surface and groundwater as natural resources in industry

TUESDAY, SEPTEMBER 3, 2019
10.00 - 13.30, Small Hall 1st floor

УТОРАК, 3. СЕПТЕМБАР 2019. ГОДИНЕ
10.00 - 13.30, мала сала I. спрат

ORAL PRESENTATIONS

THE ROUND TABLE "THE INFLUENCE OF RADON AND THORON TO
THE HEALTH OF POPULATION"

УСМЕНЕ ПРЕЗЕНТАЦИЈЕ

ОКРУГЛИ СТО "УТИЦАЈ РАДОНА И ТОРОНА НА ЗДРАВЉЕ
СТАНОВНИШТВА"

1. Gennaro Venoso
The Importance of Radon Research
2. Perko Vukotić, Ranko Zekić, Tomislav Anđelić,
Nikola Svrkota, Aleksandar Dlabac
*Radon survey in the buildings of pre-university education in
Montenegro*
3. Predrag Kolarž, Zdenka Stojanovska, Zoran Ćurguz, Zora Žunić
*Diurnal and spatial variations of radon and its influence on
ionization of the nearground atmospheric layer*
4. Zdenka Stojanovska, Zoran Ćurguz, Predrag Kolarž,
Zora S. Zunić
*The indoor radon and thoron concentrations in schools of Skopje
(Republic of North Macedonia) and Banja Luka (Republic of
Srpska) cities measured by raduet detectors*

5. Vanja Radolić, Marina Poje Sovilj, Denis Stanić, Igor Miklavčić
Radon concentrations in educational institutions (schools and kindergartens) in Republic of Croatia
6. Feriz Adrović, Ema Hankić
Measurement of radon activity concentration in building materials used in Bosnia and Herzegovina
7. Zoran Ćurguz, Zdenka Stojanovska, Rosaline Mishra, Balvindar K. Sapra, Ilja V. Yarmoshenko, Predrag Kolarž, Aco Janičijević, Zora S. Žunić
Long-term measurements of equilibrium equivalent radon and thoron progeny concentrations in Republic of Srpska dwellings
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