



АКАДЕМИЈА НАУКА И УМЈЕТНОСТИ
РЕПУБЛИКЕ СРПСКЕ



СРПСКА АКАДЕМИЈА
НАУКА И УМЕТНОСТИ



ALMA MATER
EUROPAEA
THE UNIVERSITY FOR LEADERSHIP

ТЕХНИЧЕСКИ УНИВЕРСИТЕТ
ГАБРОВО



United Nations
Educational, Scientific and
Cultural Organization

State Commission of
Bosnia and Herzegovina
for UNESCO

ХVII МЕЂУНАРОДНИ НАУЧНИ СКУП САВРЕМЕНИ МАТЕРИЈАЛИ 2024

ПРОГРАМ РАДА

ХVII INTERNATIONAL SCIENTIFIC CONFERENCE CONTEMPORARY MATERIALS 2024

PROGRAMME

Бања Лука, 5–7. септембар 2024. године
Banja Luka, September 5th to 7th, 2024

**XVII MEЂУНАРОДНИ НАУЧНИ СКУП
САВРЕМЕНИ МАТЕРИЈАЛИ 2024**

ПРОГРАМ РАДА

**XVII INTERNATIONAL SCIENTIFIC CONFERENCE
CONTEMPORARY MATERIALS 2024**

PROGRAMME

ОРГАНИЗАТОР НАУЧНОГ СКУПА

Академија наука и умјетности Републике Српске

СУОРГАНИЗАТОРИ

Српска академија наука и уметности

Alma Mater Europaea

Технички универзитет Габрово

ПОКРОВИТЕЉ НАУЧНОГ СКУПА

*Министарство за научнотехнолошки развој,
високо образовање и информационо друштво*

ОДРЖАВАЊЕ СКУПА СУ ПОМОГЛИ

УНЕСКО

Универзитетски Клинички центар Републике Српске

Хемофарм Стада Група

Комора доктора медицине РС

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Доц. др Љиљана Тадић Латиновић

ORGANIZER OF THE CONFERENCE

Academy of Sciences and Arts of the Republic of Srpska

COORGANIZERS

Serbian Academy of Sciences and Arts

Alma Mater Europaea

Technical University of Gabrovo

UNDER THE PATRONAGE OF

Ministry for Scientific and Technological Development,

Higher Education and Information Society

THE SCIENTIFIC CONFERENCE HAS BEEN SUPPORTED BY

UNESCO

University Clinical Center of Republic of Srpska

Hemofarm Stada Group

The Republic of Srpska Medical Association

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Željko Budimir, Ph.D.

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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)

ЧЕТВРТАК, 5. СЕПТЕМБАР 2024. 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

ПЕТАК, 6. СЕПТЕМБАР 2024. ГОДИНЕ

- 08.30 Регистрација учесника научног скупа (АНУРС)
- 09.00 Отварање конференције
- 09.20 Пленарна предавања
- 13.30 Постер презентације
- 14.30 Дискусија
Затварање конференције

СУБОТА, 7. СЕПТЕМБАР 2024. ГОДИНЕ

УНЕСКО ПАРТИЦИПАЦИЈСКИ ПРОГРАМ 2024–2025

Пројекат Регионална сарадња за изградњу равноправног, одрживог и зеленог друштва кроз оснивање лабораторије за испитивање ефикасности соларних електрана и семинари на тему околина, друштво и економски изазови

Округли сто

„Утицај врсте соларних панела на енергетску ефикасност соларних електрана“

- 9.00–13.00 Презентација учесника из Словеније, Хрватске, Босне и Херцеговине и Црне Горе
- 13.00–14.30 Ручак
- 14.30–18.30 Презентације учесника из Србије, Бугарске и Сјеверне Македоније
- 19.00 Вечера

THURSDAY, SEPTEMBER 5, 2024.

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

FRIDAY, SEPTEMBER 6, 2024.

- 08.30 Registration of the participants in the ASARS
- 09.00 Opening of the Conference
- 09.20 Plenary session
- 13.30 Poster presentations
- 14.30 Discussion
- Closing ceremony

SATURDAY, SEPTEMBER 7, 2024

UNESCO PARTICIPATION PROGRAMME 2024–2025

Project Regional Cooperation for Building Equitable, Sustainable and Greeners Ocieties Through Establishing Laboratory for Measuring Solar Energy Efficiency and Seminars on Environmental, Social and Economic Challenge

Round table

“The Impact of Type of Solar Panels on Energy Efficiency of Solar Plants”

- 9.00–13.00 Presentations of speakers from Slovenia, Croatia, Bosnia and Herzegovina and Montenegro
- 13.00–14.30 Lunch
- 14.30–18.30 Presentation of speakers from Serbia, Bulgaria and North Macedonia
- 19.00 Dinner

ПЕТАК, 6. СЕПТЕМБАР 2024. ГОДИНЕ

FRIDAY, SEPTEMBER 6, 2024

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 доц. др Жељка Будимира
Welcome speeches – Minister of Scientific and Technological Development, Higher Education and Information Society, Željko Budimir, Ph.D.
- Поздравно обраћање гостију
Welcome speeches of the guests

РАДНИ ДИО СКУПА
WORKING SESSION
(09.20 – 14.30)

ПЛЕНАРНА ПРЕДАВАЊА
PLENARY SESSION
(09.20 – 13.20)

- 9.20 – 9.40 Milan Damnjanović
Symmetry and Band Topology in Low-dimensional Crystals
- 9.40 – 10.00 Nenad Filipović
STRATIFYHF Platform: Artificial intelligence-based decision support system for risk stratification and early detection of heart failure in primary and secondary care
- 10.00 – 10.20 Spomenka Kobe
Sustainable Processing of Innovative Rare-Earth Magnets
- 10.20 – 10.40 Dragomir Vassilev, Plamen Tsankov
Climate Adaptation Activities for Higher Resilience in the Gabrovo Mountain Region
- 10.40 – 11.00 Zandra B. Rivera, Domenico Guida
Autonomous Mechatronic Platform AgriRover for Precision Agricultural Applications in Developing Countries
- 11.00 – 11.20 Coffee Break

- 11.20 – 11.40 Ljubomir Majdandžić
*Synergy in Food and Energy Production -
Agricultural Solar Power Plants*
- 11.40 – 12.00 Duško Dudić
Depositing electricity in Zeolite/water/oil electrolytes
- 12.00 – 12.20 Sanja J. Armaković
*Exploring the Role of Polymers in Water Purification:
Experiments, Modeling, and Machine Learning*
- 12.20 – 12.40 Nikolina Makivić
*Reversible Proton-coupled Charge Storage in
Nanostructured Amorphous and Anatase TiO₂*
- 12.40 – 13.00 Dijana Jelić
*Kinetics of Solid State Reactions:
Software Approach and Application*
- 13.00 – 13.20 Dušanka Marčetić
Linear Polymer as a First Step Toward Polymeric Material

ПОСТЕР ПРЕЗЕНТАЦИЈЕ

POSTER SESSION

(13.30–14.30)

1. Momir Đurović
Is Future determined by Science and Research?
2. Ivanka Milošević, Zoran Popović, Milan Damnjanović
Carbon Nanotubes as Thouless Charge Pumps
3. Zoran P. Popović, Milan Damnjanović, Ivanka Milošević
*Mechanical Deformation of Carbon Nanotubes
Followed by Local Electron Transfer*
4. Bogdan Milićević, Nenad Filipović
*Overview of the Electrophysiological
Models for the Left Ventricle Simulations*
5. Snježana Dupljanin, Olivera Šašić,
Zoran Lj. Petrović, Dragoljub Mirjanić
*Cross Sections and Transport Characteristics
of Electrons in Ammonia (NH_3)*
6. Ema Begović, Nevena Jokić, Gorana Mrđan,
Suzana Apostolov, Đeđi Vaštag, Borko Matijević
*Study of Intermolecular Interactions of Selected Asymmetrical
Thiocarbohydrazone Derivatives*
7. Darko Janković, Martin Ochsenhofe, Marina Simović Pavlović, Katarina
Nestorović, Svetlana Stojnović, Damir Jerković, Darko Vasiljević
Impact Analysis of High-Speed Projectiles on Granular Material
8. Ivan Petronijević, Dragana Cerović, Slavica Maletić, Marija Šuljagić,
Filip Marinković, Dušan Popović, Duško Dudić
*Dielectric Properties of IPP/Paraffin Wax Blends
Treated In L1CL Water solution*

9. Bojan Gorančić, Marija Mitrović, Regina Fuchs-Godec, Milorad Tomić
The Inhibitive Effect of Thymus Serpyllum Extract on Corrosion of Steel in Chloride Rich Environment
10. Maria Savanović, Stevan Armaković, Andrijana Bilić, Svetlana Pelemiš, Sanja Armaković
Environmental Efficiency of UV-Activated TiO₂-Modified Acrylic Self-Cleaning Surfaces
11. Andrijana Bilić, Sanja J. Armaković, Svetlana Pelemiš, Maria M. Savanović, Stevan Armaković
Exploring the Adsorption Potential of Carbon Nanotubes as Efficient Adsorbers for Drug Molecules
12. Borislav N. Malinović, Milica Govedarica, Tijana Đuričić, Draženko Bjelić
Removal of Azo Dyes From Textile Industry Wastewater Using Electrooxidation and Electro-Fenton Processes
13. Jovan P. Šetrajčić, Nikola R. Vojnović
Energy Spectra and Spatial Distribution of States of Free Carriers in Ultra-Thin Crystalline Films
14. Jovan P. Šetrajčić, Dušan I. Ilić
The Possibility of Appearing of Localized States of Elementary Charges In Ultra-Thin Crystalline Films
15. Jovan P. Šetrajčić, Stevo K. Jaćimovski
Energy States of Elementary Charges in Crystalline Films
16. Stevo K. Jaćimovski, Jelena Lamovec, Jovan P. Šetrajčić,
Spectra and Charge Carrier States of Graphene Nanoribbons
17. Daliborka Ivanović, Ivan Srnka, Marija Vujović
Mineral Trioxide Aggregate Application in Non Surgical Endodontic Treatment of Right Canine in Mandibular Fracture Line - Case Report

18. Neđo Đurić, Marko Đurić
Analysis of Geotechnical Conditions of the Terrain at the Silo Construction Location in the "Molaris" Kozluk Mill Complex, Zvornik
19. Dušan Ješić, Pavel Kovač, Borislav Savković, Branko Štrbac, Ildiko Mankova, Dražen Sarjanović
Research on the Economic and Energy Aspects of the Tribological Properties of Austempered Ductile Iron
20. Ljiljana Trumbulović, Snežana Aksentijević, Ivana Čeković, Branko Drndarević
Application of Cordierite Ceramics in Casting Technology
21. Željana Lojpur, Vladan Mičić, Nebojša Vasiljević, Mirko Petković
Examination of the Possibility of Obtaining Biodiesel from Unrefined Sunflower Oil
22. Marko Stajčić, Vladan Mičić, Nebojša Vasiljević, Mirko Petković, Svetlana Pelemiš
Examination of the Possibility of Obtaining Biodiesel From Sunflower Oil and Various Waste Edible Oils
23. Dragana Kostić, Mitar Perušić, Ljubiša Balanović, Srećko Stopić, Duško Kostić, Vladimir Damjanović, Dragana Kešelj, Slavko Smiljanić, Radislav Filipović
Analysis and Initial Qualitative Assessment of Red Mud in the Bayer Process
24. Dragana Malivuk Gak, Zoran Rajilić
Correlation Analysis of Force Parameters Assigned to Time Series Data
25. Sara Srebrenkoska, Vineta Srebrenkoska, Svetlana Risteska
Thermoplastic Unidirectional Laminates Based on Carbon Fibers: Automated Production and Mechanical Characterization
26. Branka Ružičić, Dragana Grujić, Blanka Škipina, Biljana Pećanin, Ana Velemir, Slavica Maletić, Sandra Dedijer
Spectrophotometric Characteristics of Printed Nonwoven Textile

27. Slavica Maletić, Ivan Petronijević, Dragana Cerović
Optical Properties and Effects of Effective Voltages on Dielectric Properties of Ferroelectric LiNbO₃
28. Nikola Cekić
Titanium Material on Facades of Frank Gehry
29. Vojkan Zorić, Radovan Radovanović
A New Approach to Determining Forgery of Documents use of Physical-Chemical Methods
30. Zoran Govedar
Criteria and Indicators of Forest Management in the Republic of Srpska
31. Biljana Pećanin, Branka Ružičić, Slavica Maletić, Dragana Cerović, Ivan Petronijević, Dragana Grujić, Blanka Škipina
Effect of Modified Bentonite on Permittivity and Dielectric Loss Tangent of Nonwoven Textiles
32. Valentina Novičić, Radislav Filipović, Mitar Perušić, Zoran Obrenović, Duško Kostić, Vladimir Damjanović, Vladislav Sekulić, Nebojša Vasiljević
Influence of Process Parameters on the Sorption Characteristics of Aluminum Hydroxide
33. Dušan Ješić, Pavel Kovač, Borislav Savković, A. Kekić, B. Nedić, B. Dudić, Mile Stoiljković, Dražen Sarjanović
The Study of the Influence of Lubricating Oil on the Tribomechanical System
34. Marina Simović Pavlović, Tijana Maksimović, Jelena Maksimović, Aleksandra Radulović, Darko Janković, Maja Panjako
Defining Phosphate Tungsten Bronze Structure Through the Fractal Dimension
35. Dušanka Marčetić, Dragoljub Mirjanić, Bojan Kovačević, Dijana Đukić, Svetlana Pelemiš, Darko Divnić
The Map of Solar Radiation for Five Municipalities Located in the Southeastern and Eastern Part of the Republic of Srpska

36. Milan Pantić
Excitation Spectrum in the Anisotropic XXZ Triangular Antiferromagnetic Model: Application To $Ba_3CoSb_2O_9$
37. Božidarka Arsenović
Some Issues of the Development and Application of Sustainable Aviation Fuel, Saf From the Aspect of CO_2 Emission Reduction
38. Jovan Škundrić, Darko Knežević, Indir Mujanić, Danilo Đurica, Marko Lazarević, Saša Laloš,
Analysis of Flow Phenomena Impact on Heat Exchange in an Air-Cooled Condenser
39. Vladislav Zdravković, Aleksandar Lovrić, Neda Sokolović, Nenad Šekularac
Adhesive Type Influence on the Compressive Strength of Beech LVL Reinforced with Carbon Fiber Fabric
40. Jana Prodanova, Aleksandra Kanevce, Ljupčo Kocarev
Understanding Public Sentiment and Topic Dynamics on Waste Management in the Balkans
41. Dragana Kešelj, Kika Stevanović, Milenko Aćimović, Ljubica Vasiljević, Marko Ivanović
Determination of Acetaldehyde Adsorption on Synthetic Zeolites and Characterization of Samples by FTIR Method
42. Srđan Vuković, Danijela Rajić, Aleksandar Vuković, Svetlana Pelemiš, Dragoljub Mirjanić
Capacity and Potential of Solar Power Plants in Bosnia and Herzegovina
43. Srđan Vuković, Danijela Rajić, Aleksandar Vuković, Svetlana Pelemiš, Dragoljub Mirjanić
Solar Energy and Sustainable Development

44. Aleksandra Janićijević, Fathya Shabek, Aco Janićijević
The Rate of Chemical Etching of the Polymer Detector LR115 as an Important Factor for the Detection of Ionizing Radiation
45. Valentina Lulić, Dušan Golubović, Borislav Savković,
Pavel Kovač, Dušan Ješić, Branislav Dudić,
Research of Energy Efficiency of Heat Pumps for Heating
46. Darko Divnić, Dragoljub Mirjanić, Esad Jakupović,
Zoran Ž. Avramović, Ivana Radonjić Mitić
Performance Degradation of Solar Photovoltaic Modules
47. Ivana Radonjić Mitić, Milutin Petronijević, Leonid Stoimenov,
Dragoljub Mirjanić, Lana Pantić, Darko Divnić
*Possibility of Producing Photovoltaic Electricity on
Balcony Fence in Pirot, Serbia*
48. Mileša Srećković, Aleksandra Janićijević, Aco Janićijević,
Aleksandar Bugarinović, Milovan Janićijević,
Srđan Milanović, Aleksandar Wells Hough
*Interaction of Elion Radiation with Materials and Modeling
of Materials Properties and Geometric Shapes*
49. Đorđe Mirjanić, Mileša Srećković, Vladan Mirjanić,
Svetlana Pelemiš, Aleksandar Bugarinović, Radovan Gospavić
*Interaction of Laser Beams with Materials
of Interest to Dentistry: History, Praxis and Trends*
50. Jelena Đorđević, Strahinja Milenković, Nenad Grujović, Fatima Živić
*Collagen-based biomaterials and their application
in reproductive medicine*
51. Milena Radenković Stošić, Sanja Stojanović, Stevo Najman
*Different Models of Implantation in the Study of Biomaterials
for Bone Tissue Engineering Applications*
52. Ivan Stevović
*Water Management and Environmental
Issue in Correlation to Food or Energy Production*

53. Zoran Čurguz, Dragoljub Mirjanić, Srđan Vuković
Indoor Radon Survey in Republic of Srpska and Dose Assessment
54. Ljubiša Petrov
Toxicity of Nanodimensional Materials as a Factor of Usability in Biomedical Engineering
55. Valentina Veselinović, Nataša Trtić, Olivera Dolić, Tijana Latinčić, Saša Marin, Aleksandra Đeri, Nataša Knežević, Vladan Mirjanić
The Influence of the Addition of TiO₂ Nanoparticles on Antimicrobial Activity and Surface Properties of Denture Base Polymethyl Methacrylate Material
56. Tatjana Ignjić, Goran Kolarević, Petar Janjić, Bojan Pavičar
Rapid Plan in Prostate Cancer Treatment Planning
57. Darija Knežević Ratković, Irena Kasagić-Vujanović
ION-Exchange Retention Models in the Analysis of Retention Mechanisms of Amitriptyline Hydrochloride and its Impurities in Hydrophilic Interaction Liquid Chromatography
58. Ana Micić, Aleksandra Delić, Ema Aleksić, Jasmina Milić, Jovana Milutinović
Orthodontic Treatment with Fixed Appliances and its Influence on the Periodontal Health
59. Bojan Pavičar, Andrej Milosavljević, Milomir Milaković, Tatjana Ignjić, Petar Janjić, Mihajlo Tovilović, Goran Kolarević, Dragoljub Mirjanić
Comparison of Image-Based Three-Dimensional Treatment Planning Using Acurostm bv and TG-43 Algorithm for Intracavitary Brachytherapy of Carcinoma Cervix
60. Zorana Stamenković, Vanja Stojić, Nemanja Marinković, Jovan Marković, Ivan Arsić, Nenad Nedeljković, Vladan Mirjanić
Combined Orthodontic - Surgical Treatment of Severe Skeletal Class III Malocclusion – Case Report

61. Jelena Najdanović, Vladimir Cvetković, Sanja Stojanović, Milena Radenković, Jelena Živković, Stevo Najman
The Influence of Mice Adipose-Derived Mesenchymal Stem Cells, Platelet-Rich Plasma and Bone Mineral Matrix on Ectopic Osteogenic Process
62. Zorana Stamenković, Jovan Marković, Ivan Arsić, Vanja Stojić, Nemanja Marinković, Nenad Nedeljković, Vladan Mirjanić
Therapy of Skeletal Open Bite and Skeletal Class III Using Bionator According to Balters Type III (Case Report)
63. Nataša Trtić, Saša Marin, Valentina Veselinović, Sanja Jovičić, Maja Barudžija, Nina Zubović, Marko Bulajić, Ivana Dujaković, Nikolina Spasojević, Branislav Stančević
Bone Animal Segment - Model for Human Bone Regeneration
64. Josipa Karij Trivunović, Vladan Mirjanić, Sanja Gnjato
Golden Ratio in Assessment of Facial Aesthetics
65. Josipa Karij Trivunović, Vladan Mirjanić, Sanja Gnjato
Stem Cells in Dental Medicine
66. Ognjenka Janković, Smiljana Paraš, Radmila Arbutina, Nataša Knežević, Sanja Ilić, Tijana Adamović, Sanja Gnjato, Sanja Subotić, Verica Protić Berić, Vladan Mirjanić
Clinical Evaluation of Three Different Self-Adhering Materials in Class I Restorations
67. Velibor Andrić, Nikola Marković, Maja Gajić-Kvasčev, Olivera Klisurić
Pattern Recognition Supported EDXRF Analysis of the Medieval Glass
68. Jovan Dašić, Predrag Dašić, Violeta Đorđević, Zvonko Petrović
Application of 3D/4D Printing for the Processing of Composites Materials
69. Predrag Dašić, Esad Jakupović
The Role of Artificial Intelligence Systems in the New Education of Engineers

70. Jelena Erić Obućina, Marina Karić
Maintenance of the Hydraulic System Regarding the Materials from Which its Components are Made
71. Marina Karić, Predrag Dašić, Jelena Erić Obućina
Experimental Identification of the Drying Process of Biomaterials using a Factorial Design of the Experiment
72. Radmila Lišanin, Mitar Lutovac, Jelena Medić, Danka Nišavić
Statistical Analysis of the Participation of Micropollutants in Wastewater in Serbia
73. Predrag Pravdić, Violeta Dorđević,
Jelena Erić-Obućina, Vladan Obućina
Modern Materials and Renewable Energy Sources
74. Predrag Pravdić, Violeta Dorđević,
Jelena Erić-Obućina, Vladan Obućina
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