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MINISTRY OF EDUCATION AND SCIENCE

University of Chemical Technology and Metallurgy

CONFERENCE AGENDA

Second International Conference on Bioactive, Organic and Inorganic Advanced Materials and Clean Technologies

27 – 29 April 2026, Sofia, Bulgaria

BiOrgaMCT

Contract №: BG-RRP-2.004-0002-C01, „BiOrgaMCT" (Bioactive organic and inorganic materials and clean technologies). Procedure: BG-RRP-2.004 – Creation of a network of research universities in Bulgaria under the National Recovery and Resilience Plan

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Day 1 [27 April 2026] Park Hotel Vitosha			
09:00 - 09:30	**Conference Registration** [Park Hotel Vitosha, Vitosha Hall Lobby]		
09:30 - 10:00	**Opening** [Park Hotel Vitosha, Vitosha Hall]		
10:00 - 10:45	**Keynote speaker: Prof. D.Sc. Ashok Vaseashta,** *Spinning the Threads of Innovation: Biopolymer-Based Electrospun Nanofibers for Healing, Regeneration, and Beyond*		
10:45 - 11:00	**Coffee break** [Park Hotel Vitosha, Vitosha Hall Lobby] **Demonstration of Zeiss Axioscope 5 Smart Laboratory Microscope by AQUACHIM representative**		
11:00 - 12:30	**First Session (Oral presentations)**		
Topic Chairperson	**New generation materials** [Vitosha Hall 1] **Prof. Plamen Petkov**	**Light-responsive materials** [Vitosha Hall 2] **Dr. Anton Georgiev**	**Biologically active molecules** [Moreni Hall] **Prof. Dancho Danalev**
Speakers	**Prof. Delia Brauer** *Bioactive Glasses – the Effect of Their Structure on Properties and Applications* **Prof. Lalla Btissam Drissi** *Light-Responsive Carbon Nanostructures: Bridging Biomedical and Energy Applications* **Prof. Dumitru Tsiulyanu** *Investigation of electrical conduction and moisture sensing abilities of tellurium-sodium nitrate nanocomposites* **Prof. Petrica Vizureanu** *β-Alloys, A New Class of Materials for Biomedical Engineering* **Dr. Daniel Merker** *Diamond Thin Films as Biointerfaces* **Dr. Dimitar Dimitrov** *In-situ synthesis of AuNPs, encapsulated in nanosized silica using green reagents*	**Prof. Sylvain Achelle** *Photoluminescence of Platinum (II) Complexes with Diazine-based ligands* **Prof. Carlos Lodeiro** *From Molecular Emitters to Smart Hybrid Platforms: Translating Optical Sensing from the Lab to Real-World Applications* **Dr. Kosuke Nakashima** *Rearrangement of C2-Spirooxindoles: Conversion to the 2-Hydroxyhemi-indigo and Chromenoindole* **Prof. Ivo Piantanida** *One molecule to bind them all: organic dyes simultaneously targeting DNA, RNA or proteins, for each target giving a selective response*	**Prof. Manuel Graça** *Smart Doping: How Iron Oxide Transforms the Bioactivity and Antibacterial Profile of 45S5 Glass* **Prof. Anna Ermakova** *Nanodiamonds for nanoscale sensing* **Dr. Aneliya Kostadinova** *Chitosan-based nanocomposites enriched with plant extract in a model of diabetic wound healing in vitro* **Dr. Aura Tintaru** *NMR study of drug loaded nanocarriers* **Prof. Petar Todorov** *Synthesis, spectral analysis and molecular docking of new caffeic and cinnamic acid-conjugated hemorphin analogs with potential biological activity* **Prof. Jana Tchekalarova** *Pharmacological evaluation of novel N- and C-modified peptide analogues of VV-hemorphin-5 and VV-hemorphin-7 as potential agents with anti-seizure activity*

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12:30 - 14:00	**Lunch break [Park Hotel Vitosha Restaurant]**		
14:00 - 15:30	**Second Session (Oral presentations)**		
Topic Chairperson	**New generation materials** [Vitosha Hall 1] **Prof. Dumitru Tsiulyanu**	**Light-responsive materials** [Vitosha Hall 2] **Prof. Carlos Lodeiro**	**Biologically active molecules** [Moreni Hall] **Prof. Jana Tchekalarova**
Speakers	**Dr. Andrei Sandu** *Obtaining and Characterization of Low Carbon Footprint Materials* **Prof. Marina Ciobanu** *Thermal effects and glass transition temperature of AsS_3 -GeS_4 ternary* **Prof. Luis Costa** *Polymer composites for smart thermal management and protection in energy systems* **Trayana Dolchinkova** *Optical properties of InP/ZnS quantum dots sensitized thin azo polymer films* **Prof. Şaban Atapek** *Investigation of Electrochemical Corrosion Behavior of SiMo-SiNb Ductile Cast Irons* **Tsvetelina Liubenova** *SEM and EDX Study of Zinc-Magnesium and Zink-Cobalt Phosphate Coatings on Mild Steel Surfaces*	**Dr. Atanas Kurutos** *Emerging colorimetric and fluorimetric smart materials* **Dr. Peter Šebej** *Substituent Effects on Cyanines: Role of Chain Length and Position* **Dr. Rebecca Strada** *A Study of the Deexcitation Pathways in Semicroconaine Dyes* **Desislava Marinova** *Determinants of Z-Isomer Stability in Phthalylhydrazones: Dual Light- and Acid-Controlled Switching* **Eckhart Kornejew** *Customized Polyaspartic–Polyurea Systems for Surface Coating* **Prof. Hua Li / Rui Yang** *Fabrication of Visible-Light Active Ce-Doped Bi2O3 Coatings via Single-Step Solution Precursor Plasma Spraying*	**Prof. Dancho Danalev** *Biologically active peptides - potential for new medical drugs* **Dr. Rossitsa Hristova** *Design, Synthesis, and Biological Evaluation of Novel Methyl-Substituted Pyrrole Hydrazones as Selective Melanoma Agents* **Prof. Emilia Naydenova** *Anticancer Activity of novel Analogues of Aurein 1.2 Containing Non-Proteinogenic Amino Acids in in vitro models of Osteosarcoma and Glioblastoma* **Prof. Nelly Georgieva** *Study on the effects of incorporation of unnatural amino acids in more than one position in the Temporin A molecule* **Dr. Boryana Borisova** *Novel heterocyclic PDE4 Inhibitors: a promising strategy for anti-inflammatory drug discovery* **Dilyana Dimitrova** *Synthesis and evaluation of Temporin A analogues modified with unnatural amino acids as potential antimicrobial agents*
15:30 - 16:30	**Coffee break & Poster Presentations [Vitosha Hall Lobby & Moreni Hall Lobby]**		

16:30 - 17:30	**Flash Poster Presentations**		
	New generation materials [Vitosha Hall 1] **Prof. Andriana Surleva**	**Light-responsive materials** [Vitosha Hall 2] **Desislava Marinova**	**Biologically active molecules** [Moreni Hall] **Dilyana Dimitrova**
	Dr. Ondrej Bošák *Electrical and dielectric properties of barium vanadate glasses with ZnO* **Prof. Vilma Petkova** *Induced defects and disorders in crystal structure of dry milled activated fluor apatite* **Dr. Pavlina Koleva** *Doped and undoped thin films obtained by spray pyrolysis technique* **Sofia Slavova** *Theoretical and Experimental Study on the Luminescence Properties of Europium(III)–2-carbamido-/2-acetyl-1,3-indandione Complexes* **F.B. Yılmaz Güler** *Investigation of Corrosion Behavior in AlCoCrFeNix Alloys Produced by Spark Plasma Sintering* **Irem Erçel** *Assessment of the properties of AA2024-T3 aircraft alloy after anodic polarization in biocompatible organic acid electrolytes* **Rui Yang** *Structural Optimization and Antifouling and Anti-corrosion Performance Enhancement of Epoxy Coatings Based on Zeolitic Imidazolate Frameworks Materials*	**Dr. Boris Martinov** *Antibacterial silicone coatings incorporating GO, RGO, ZnO, and Ag nanoparticles* **Dr. Anelya Petrina** *Structural study and bioactivity of solid state synthesized biogenic hydroxyapatite* **Dr. Daniela Angelova** *Sustainable Valorization of Polystyrene Waste into Activated Carbon for Water Treatment* **Kalina Krumova** *Preparation of Zirconium-Containing Barium Titanate Oxide Glass-Ceramics – Phase Composition, Microstructure and Electric Properties* **Dr. Hristo Georgiev** *Composition and morphology of the newly formed phases on the surface depending on the conditions of the in vitro bioactivity test* **Dr. Ekaterina Serafimova** *From Farm to Table and Back Again: Circular Valorization of Biomass Ash and Sewage Sludge into Sustainable Material Blends* **Dr. Tina Tasheva** *Structure and in vitro bioactivity of novel composites based on biogenic hydroxyapatite and borate glasses*	**Dr. Nikolay Yavorov** *Eco-friendly functional paper coating for conservation efficiency* **Jakub Štrojsa** *Tuning Aggregation-Induced Emission via Solvent Polarity in Triazine Derivatives* **Jakub Valuš** *The Impact of Donor–Acceptor Interactions on the Aggregation and Emission Behavior of Chromophores* **Hristo Lalkovski** *Effect of temperature on the luminescent properties of sol – gel prepared Eu 3+ doped SiO_2 –B_2O_3 glasses* **Dr. Polya Miladinova** *Synthesis of heterocyclic reactive dyes for cotton with possibility for application as inhibitors of corrosion*	**Dr. Temenuzhka Radoykova** *Antioxidant phenolic compounds from lignocellulosic waste materials and their application for polymer stabilization* **Dr. Veronica Nemska** *Antibacterial activity of new rimantadine derivatives against Bacillus subtilis NBIMCC 3562 and Escherichia coli NBIMCC 8785* **Elena Velichkova** *Titan based organic-inorganic gels, containing Temporin A and analogs* **Milica Vidić** *Preliminary chemical analysis and assessment of the antioxidant potential of Satureja horvatii Šilić (Lamiaceae) herb extracts prepared using natural deep eutectic solvents* **Dr. Darya Ilieva** *Evaluation of the parameters of a spectrophotometric method for the Quantitative determination of an antimicrobial ingredient in commercial products*

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Day 2 [28 April 2026] Park Hotel Vitosha			
09:30 - 10:00	**Conference Registration** [Park Hotel Vitosha, Vitosha Hall Lobby]		
10:00 - 10:45	**Keynote speaker: Dr. Olivier Siri,** *Azacalixarene: An Ever-Growing Macrocycle*		
10:45 - 11:00	**Coffee break** [Park Hotel Vitosha, Vitosha Hall Lobby] **Demonstration of Zeiss Axioscope 5 Smart Laboratory Microscope by AQUACHIM representative**		
11:00 - 12:30	**Third Session (Oral presentations)**		
Topic Chairperson	**New generation materials** [Vitosha Hall 1] **Dr. Christian Girginov**	**Light-responsive materials** [Vitosha Hall 2] **Dr. Kosuke Nakashima**	**Biologically active molecules** [Moreni Hall] **Prof. Stela Georgieva**
Speakers	**Prof. Perica Paunovic** *Graphene-Modified Conductive Polymer Based Composite Films for EMI Shielding Purpose* **Dr. Alberto López-Grande** *Thermodynamic model for the structure of Nd doped phosphate laser glasses* **Prof. Ruzha Harizanova** *Zirconium Modified Barium Titanate Crystallized from Oxide Glasses: Phase Composition and Microstructure* **Dr. Neda Neykova** *Effect of the passivation layer in perovskite solar cells* **Prof. Tomasz Czujko** *Innovative materials for hydrogen storage - expectations and reality* **Prof. Carmen Ristoscu** *Composite Coatings Synthesized by Laser Methods for Improved Bone Repair and Enhanced Antimicrobial Protection*	**Dr. Stefano Luigi Oscurato** *All-optical metrology using azopolymer surface-relief gratings* **Dr. Sheelbhadra Chatterjee** *Cooperative switching in a dihydropyrene-dithienylethene (DHP-DTE) hybrid photo switchable system* **Dr. Marcella Salvatore** *Light-Based System for Multifunctional Azopolymer Surface Design* **Prof. Filip Bures** *Boosting Photosynthesis by Light-Emitting Materials* **Dr. Jiří Tydlitát** *Triphenylamine Derivatives: From Emissive Solutions to Emissive Aggregates*	**Dr. Fatos Rexhepi** *Integrated FTIR and Chemometric Approach for Detecting Non-Local Adulteration in Styrian Pumpkin Seed Oil* **Dr. Xiaomei Liu** *Decoy EPS Layers for Trapping and Killing Bacteria* **Dr. Yoana Stoyanova** *Application of membrane filtration and spray drying for valorisation of spent lavender* **Dr. Nevena Lazarova-Zdravkova** *Membrane-Assisted Recovery and Spray Drying of Bioactive Compounds from Spent Lavender Biomass* **Dr. Diyan Tochev** *Phenolic compounds in secondary products from wine production of mavrud*

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12:30 - 14:00	**Lunch break [Park Hotel Vitosha Restaurant]**		
14:00 - 15:30	**Fourth Session (Oral presentations)**		
Topic Chairperson	**New generation materials** [Vitosha Hall 1] **Prof. Ruzha Harizanova**	**Light-responsive materials** [Vitosha Hall 2] **Prof. Sylvain Achelle**	**Electrochemical methods for material studies** [Moreni Hall] **Prof. D.Sc. Martin Bojinov**
Speakers	**Petar Takov** *Manganese Ferrite Containing Glasses-Ceramics – Phase Composition, Microstructure and Electric Properties* **Dr. Johan Alauzun** *Synthesis of mesoporous hybrid materials as sorbent or catalyst support by non-hydrolytic sol-gel* **Dr. Ognen Pop-Georgievski** *Self-assembled monolayers: From versatile surface modification platforms for sensing to hole transporting layers for solar cell applications* **Dr. Stephan Kozhukharov** *Anodization of AA2024-T3 aircraft alloy in environmentally friendly electrolytes*	**Dr. Stevan Gavranović** *Advanced SCLC Model: A Guide for Analysis of the Fermi Level Shift in the Bandgap of Halide Perovskites* **Prof. Laurent Arurault** *Tuning thermo-optical properties of anodic films* **Prof. Christian Brosseau** *Electromagnetism of Functional Biomaterials* **Dr. Ivo Crnolatac** *More (polarized) light on biomolecular binding, probing molecular interactions with Fluorescence Anisotropy* **Dr. Ventsislav Bakov** *Exploring 1,8-naphthalimide AIEgens for Advanced Sensing Applications* **Prof. Desislava Staneva** *Self-disinfecting textiles modified with fluorescent hyperbranched polymers via antimicrobial photodynamic therapy*	**Prof. D.Sc. Martin Bojinov** *In-situ electrochemical studies of corrosion of low-alloyed steel in simulated steam generator coolants* **Dr. Nikoleta Ivanova** *Molecular Dynamics Investigation of Small Molecule Adsorption on Magnetite Surfaces* **Dr. Vasil Karastoyanov** *Corrosion and anodic oxidation of Alloy 690 in simulated primary coolant of a small modular reactor studied by in-situ electrochemical impedance spectroscopy* **Dr. Yoanna Penkova** *Electrochemically synthesized copper-tungsten oxides as photo-cathodes for photo-electrochemical water splitting* **Lyuben Borislavov** *Time Series Machine Learning Models for Organic Electrode Materials*
15:30 - 16:30	**Coffee break & Poster Presentations [Vitosha Hall Lobby & Moreni Hall Lobby]**		
16:30 - 19:00	**Sofia Free tour**		

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Day 3 [29 April 2026] Park Hotel Vitosha			
09:30 - 10:00	**Conference Registration** [Park Hotel Vitosha, Vitosha Hall Lobby]		
10:00 - 10:45	**Keynote speaker: Dr. Christine Baudequin,** *C-H functionalization: an efficient route for the synthesis of bioactive compounds and fluorescent heterocycles*		
10:45 - 11:00	**Coffee break** [Park Hotel Vitosha, Vitosha Hall Lobby] **Demonstration of Zeiss Axioscope 5 Smart Laboratory Microscope by AQUACHIM representative**		
11:00 - 12:00	**Fifth Session (Oral presentations)**		
Topic Chairperson	**New generation materials** [Vitosha Hall 1] **Prof. Perica Paunovic**	**Light-responsive materials** [Vitosha Hall 2] **Dr. Atanas Kurutos**	**Biologically active molecules** [Moreni Hall] **Prof. Petar Todorov**
Speakers	**Prof. Michael Herzog** *Recycling Innovations for Sustainable Material Management* **Prof. Christian Dreyer** *Functional Integration for Urban and Vertical Farming and Beyond* **Dr. Vivian Müller** *Composite Innovation for a Circular and Resilient Future* **Dr. Milan Klikar** *Affecting the optoelectronic properties of tripodal chromophores using various fluorine-based terminal substituents*	**Dr. Wojciech Stępniowski** *Electrochemical oxidation of copper and copper alloys: mechanism, challenges, and applications* **Dr. Andreas Bernaschek** *Investigation of New Approaches for UV-Curable Synthetic Resins and Non-Newtonian Fluids (STF)* **Dr. Kiril Dimitrov** *Sustainable Functional Integration of Chitosan-Based Components in Composites: Development and Applications*	**Dr. Kameliya Anichina** *Advances in the Design and Synthesis of Benzimidazole-based Anti-Trichinella Spiralis Agents* **Prof. Stela Georgieva** *Application of the Biologically Active Compound Cefixime for Selective Voltammetric Determination of Nitrite in Water via Diazotization–Coupling Reaction on a GC Electrode* **Dr. Janna Mateeva** *Study on solvent effects in the dissolution of rosa damascena concrete for rose absolute production*
12:00 - 12:15	**Closing remarks** [Vitosha Hall 1]		
12:15 - 13:30	**Lunch break [Park Hotel Vitosha Restaurant]**		

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Poster Sessions – 27 April and 28 April, 15:30 - 16:30

New generation materials [Vitosha Hall Lobby]

N1: Dr. Eduard Stefanov
Mercury removal from technical sulfuric acid

N2: Dr. Vanya Lilova
Effect of the photocatalyst aggregation on the photocatalytic reaction rate concentration dependence

N3: Dr. Vesislava Toteva
Processing of cotton textile waste for sustainable synthetic fuel production: pretreatment, enzymatic hydrolysis and product characterization

N4: Prof. Vilma Petkova
Microstructural properties of self-compacting cement mortars with water reducer admixture and mineral additions

N5: Prof. Marian Kubliha
Electrical and dielectric properties of sulfide-based solid electrolytes with Na ionic conductivity

N6: Dr. Petr Kostka
Tellurite glasses co-doped with rare earths and chromium

N7: Kalina Ivanova
Study on the Antimicrobial Behavior of TiO_2/ZnO/CuO Sol-Gel Powders

N8: Stefani Petrova
Photoactive cotton fabrics on the basis of Ho doped TiO_2 nanoparticles for self-cleaning

N9: Dr. Boyan Yordanov
Structure and mechanical properties of tool steel D3 alloyed with silicone nitride nanomodifier

N10: Dr. Biserka Lucheva
Lead Recovery from Lead Cake by Combined Chlorination Roasting and Leaching Process

N11: Alexander Tzintzarov
Synthesis and characterization of chitosan-T. parthenium and L. nobilis composites

N12: Dr. Jan Pospisil
Advanced SCLC Model: A Guide for Analysis of the Fermi Level Shift in the Bandgap of Halide Perovskites

N13: Dr. Georgi Chernev
Nano modified inorganic-organic surface agents for protection of concrete products

N14: Dr. Iskren Spiridonov
Recyclable paper packaging with increased barrier properties

N15: Maria Sabeva
Synthesis, characterization and antibacterial properties of sol-gel derived ZnO/ collagen materials

N16: Dr. Kostadinka Sezanova
Synthesis and characterization of Cu-modified β-$Ca_3(PO4)_2$ as a biomaterial for application in medicine

N17: Taras Kavetskyy
Kinetics of photopolymerization of soybean oil-based polymers

N18: Dr. Tsvetomila Lazarova
High Entropy Spinel Oxides:Synthesis, characterization and catalytic properties

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Poster Sessions – 27 April and 28 April, 15:30 - 16:30

Light-responsive and functional materials [Vitosha Hall Lobby]

L1: Blagovesta Katevska
Evaluation of deacidification product efficiency during accelerated thermal aging of document papers

L2: Dr. Marijana Radić Stojković
Structure-Selective Binding and Bioactivity of Chlorine-Substituted Cyanine Dyes with DNA, RNA, and Lipid Membranes

L3: Nina Vukadinović
Selective Targeting of DNA, RNA, and Lipid Membranes by Chlorine-Substitued Cyanine Dyes

L4: Dr. Lidija-Marija Tumir
Styryl Dyes with N-Phenylpiperazine Functionality: DNA, RNA and G-quadruplex Binding Ligands

Biologically active molecules [Moreni Hall Lobby]

B1: Dr. Diana Kichukova
Synthesis and characterization of zeolite with Bugarian herbals composites

B2: Dr. Darina Georgieva
Developing active packaging based on natural products

B3: Dr. Ivan Savić
Chemical profile and antiradical activity of leaf and flower extracts of nasturtium (Tropaeolum majus L.)

B4: Rositsa Antonova
Cannabinoids, Hydroxycannabinoids, and Cannabidiol: Chemistry, Pharmacology, and Clinical Potential

B5: Lilia Yordanova
Comparative Antibacterial Activity of $SiCu(OH)_2$ and $SiCuSO_4$ Nanomaterials

B6: Dayana Benkova
Chitosan-Encapsulated Tanacetum parthenium and Laurus nobilis Extracts as a Phytotherapeutic Approach Against Melanoma

B7: Denitsa Georgieva
Strain-Dependent DPPH and ABTS Radical-Scavenging Potential of Microalgae Strain Culture Supernatants

B8: Dr. Stanislava Vladimirova
Synthesis of new pyrroloquinoline compounds as potential biological active agents

B9: Silviya Hristova
Lignin and Catechin Synergistically Improve Antioxidant Functionality of Silk Fibroin Biomaterials

B10: Dr. Ariana Langari
Influence of extract of bay leaf and its chitosan-based composite on erythrocyte morphology and fluidity

B11: Prof. Zvezdelina Yaneva
Synergistic Antioxidant Performance of Lignin–Chitosan Nanocomposites: Experimental Evaluation and AI-Guided Optimization

B12: Dr. Veronika Karadjova
Synthesis and characterization of new metal complexes of Be(II) - peptide ligand

B13: Dr. Iliana Nikolova
Increasing the functionality of paper with natural products

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Poster Sessions – 27 April and 28 April, 15:30 - 16:30

Electrochemical methods for material studies **[Moreni Hall Lobby]**

E1: D.Sc. Maria Atanassova
Solvent extraction and separation of 3d-series metals with 4-acylpyrazolones

E2: Lama Mzek
New chelating ligands comprised of pyrazolone and carboxymethyl-bridged saturated N-heterocyclic moieties for solvent extraction of iron

E3: Georgi Vassilev
Redox processes in symmetric electrochemical cells for sodium-ion batteries

E4: Tsvetelina Gerasimova
Electrochemical Sodium Storage in Biowaste-Derived Hard Carbons

E5: Trajche Tushev
Carbon Composites with Nasicon Phosphosulphate with Improved Sodium Energy Storage

E6: Dr. Mariya Kalapsazova
Electrochemical insertion of sodium ions into hard carbons through the view of ex-situ EPR spectroscopy

E7: Viktor Yanev
Study Of Rare - Earth Metal Oxides As Additives To Li_3RuO_4 & Li_2RuO_3 To Improve Cycling Stability

E8: Rositsa Kukeva
In-situ EPR analysis of electrochemically decomposed organic electrolytes, ingredients in Na- and Li-ion batteries, supported by theoretical DFT calculations and complementary NMR analysis

E9: Dr. Martin Nedyalkov
Electrochemical pulverization of lithium ruthenates driven by oxygen activity activation

E10: Dr. Silva Stanchovska
Sodium titanates as negative electrodes in full sodium-ion cells

E11: Dr. Delyana Marinova
Bipolar organic matrices and their redox interaction with Li^+ and Na^+ ions in non-aqueous electrolyte

E12: Dr. Sonya Harizanova
Reduced graphene oxide as perspective additive for phosphate-pyrophosphate electrode materials

E13: Dr. Dimka Fachikova
Electrochemical characterization of advanced titanium alloys with biomedical applications

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Prof. Martin Bojinov, PhD, D.Sc – UCTM

Prof. Jana Tchekalarova, PhD – BAS

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