



**TRAINING CENTER
BULGARIAN ACADEMY OF SCIENCES**



4th Interdisciplinary PhD Forum with International Participation

**16 – 19 May 2023
Sandanski, Bulgaria**

AGENDA

Organizers:

Training center of the Bulgarian Academy of Sciences

Career center of TC-BAS

www.edu.bas.bg

TUESDAY 16th May 2023**Big Conference Hall**

13.00-16.00	REGISTRATION	
16.00-16.15	OFFICIAL FORUM OPENING Acad. Julian Revalski, President of BAS Corresponding Member, DSci Evdokia Pasheva, Director of the Training center - BAS	
16.15-17.45	SESSION: BIODIVERSITY, BIORESOURCES, AND ECOLOGY Moderator: Assoc. Prof. Ina Aneva, PhD	
16.15-16.30 Blagovesta Dimitrova	Institute of Biodiversity and Ecosystem Research - BAS	<i>Passive acoustic monitoring of two common anuran species across natural and agricultural habitats</i>
16.30-16.45 Dimitar Kaynarov	National Museum of Natural History - BAS	<i>List of butterflies and moths (Lepidoptera, Macrolepidoptera) from Annex II of the EEC 92/43 Habitat Directive in Rila Mountain, SW Bulgaria</i>
16.45-17.00 Nedyalka Atsenova	Institute of Biodiversity and Ecosystem Research - BAS	<i>Ancient DNA and its application to understand past</i>
17.00-17.15 Radoslav Stanchev	Institute of Biodiversity and Ecosystem Research - BAS	<i>Distribution patterns and wetland importance for the Northern Pintail (Anas acuta) populations wintering in Bulgaria based on mid-winter bird census in the period 1977 – 2021</i>
17.15-17.30 Vanya Stoycheva	National Institute of Geophysics, Geodesy and Geography - BAS	<i>Regulating ecosystem services in urban ecosystems – a review in the context of urban planning</i>
17.30-17.45 Vladislava Dishliyska	Institute of Microbiology "Stefan Angelov" - BAS	<i>Improved production of cold-active catalase from the psychrotolerant fungus Penicillium griseofulvum during submerged cultivation</i>
17.45-18.15	Lecture: "MOBILITY OPPORTUNITIES FOR PHD AND POST- DOCTORAL STUDENTS WITHIN THE ERASMUS+ PROGRAMME" Lecturer: Cvetomir Yonchev, Jr. Expert at the Department of International Relations at the BAS Moderator: Corresponding Member, DSci Evdokia Pasheva	
18.30-19.30	WELCOME COCKTAIL	
19.30-20.30	DINNER	
WEDNESDAY 17th May 2023 Big Conference Hall		
07.30-08.30	BREAKFAST	
08.45-10.30	SESSION: CULTURAL-HISTORICAL HERITAGE AND NATIONAL IDENTITY Moderator: Assoc. Prof. Elka Traykova, PhD	

8.45-9.00 Aksel Boshnakov	University of National and World Economy	<i>Japan's foreign policy: transformations in security policy</i>
9.00-9.15 Bozhidar Todorov	"National Archaeological Institute with Museum - BAS, Paul Valéry University Montpellier 3, France "	<i>Soil and micromorphological studies of modern ground cover and sediments from archaeological contexts. Rescue archaeological investigations at Site No. 12, along the route of the "Hemus" freeway, Ugarchin municipality, Lovech region</i>
9.15-9.30 Chaya Koleva	Institute for Historical Studies - BAS	<i>The representation of Soviet Union in the French Media</i>
9.30-9.45 Denitsa Sandeva	National Archaeological Institute with Museum - BAS	<i>Non-destructive archaeological research in the municipality of Kubrat – objectives, methods, and results</i>
9.45-10.00 Elitza Popova	Autonomous University of Barcelona, Spain	<i>Outlines for the translation & reception of Italian poet Eugenio Montale in Bulgaria</i>
10.00-10.15 Iliya Eliyas	Sofia University "St. Kliment Ohridski"	<i>Agrarianism and ideology A comparative analysis of the genesis of the ideologies between Bulgaria and the United States</i>
10.15-10.30 Lachezar Velinov	Institute of Art Studies - BAS	<i>Animation Primer</i>
10.30-11.00	COFFEE BREAK	
11.00-12.00	<u>SESSION:</u> CULTURAL-HISTORICAL HERITAGE AND NATIONAL IDENTITY Moderator: Assoc. Prof. Elka Traykova, PhD	
11.00-11.15 Marian Karagoyzov	Institute of Balkan Studies - BAS	<i>Turkey and the War in Ukraine</i>
11.15-11.30 Svenja Simon	Saarland University, Germany	<i>Iron Age Gold and Silver Art in Thrace between the Aegean and the Lower Danube - Technology - Typology - Function</i>
11.30-11.45 Vladimir Vlaev	Institute of Art Studies - BAS	<i>Reflections of the experimental in the work of Bulgarian composers</i>
11.45-12.00 Zhivko Valkov	University of National and World Economy	<i>Impact of the processes of colonization and decolonization on the development of Africa-historical aspects and contemporary challenges</i>
12.00-12.45	Lecture: "TYROSYL-TRNA SYNTHETASE HAS A NON-CANONICAL FUNCTION IN ACTIN BUNDLING" Guest speaker: Prof. Albena Jordanova, PhD Principal Investigator at Center for Molecular Neurology, VIB, Belgium Head of Molecular Neurogenomics lab <u>Moderator:</u> Corresponding Member DSci Evdokia Pasheva	
13.00-14.00	LUNCH	
14.00-14.30	<u>SESSION:</u> ENERGY RESOURCES AND ENERGY EFFICIENCY	

	Moderator: Prof. DSci Sevdalina Dimitrova	
14.00-14.15 Eva Marinovska	Sofia University "St. Kliment Ohridski"	<i>Application of 3D Reservoir Geological Models for Enhanced Oil Recovery (EOR) on carbonates (Doirentsi Fm) and sandstones (Kostina Fm) in various gas -condensate-oilfields, Bulgaria</i>
14.15-14.30 Zhan Zhelev	Institute of Mechanics - BAS	<i>Mathematical modelling of a vibration energy harvester</i>
14.30-15.30	SESSION: NANOSCIENCES NEW MATERIALS, AND TECHNOLOGIES Moderator: Prof. Margarita Popova, PhD	
14.30-14.45 Apostol Apostolov	Institute of Chemical Engineering - BAS	<i>Developing green extraction methods for separation of maleic and fumaric acid</i>
14.45-15.00 Ina Anastasova	Institute of Polymers - BAS	<i>Bio-based electrospun fibers from chitosan Schiff base and polylactide and their antibacterial and anticancer activities</i>
15.00-15.15 Marieta Belcheva	Institute of Microbiology "Stefan Angelov" - BAS	<i>New composites based on activated carbon and metal nanoparticles</i>
15.15-15.30 Stiliyana Stoyanova	Institute of Mechanics - BAS	<i>Effects of carbon nanofillers of PVDF nanocomposites on the electrical resistivity and crystallinity</i>
15.30-16.00	COFFEE BREAK	
16.00-16.45	Lecture: "MODELING SUBJECTIVE EVALUATIONS" Guest speaker: Prof. Alexander Todorov, PhD Leon Carroll Marshall Professor of Behavioral Science and Rosett Faculty Fellow The University of Chicago Booth School of Business, USA Perception and Judgment Lab Moderator: Corresponding Member DSci Evdokia Pasheva	
16.45-18.00	POSTER SESSION – 1 (odd numbers)	
18.30-20.00	DINNER	
WEDNESDAY 17th May 2023 Small Conference Hall (parallel sessions)		
07.30-08.30	BREAKFAST	
9.15-10.30	SESSION: INFORMATION AND COMMUNICATION SCIENCES AND TECHNOLOGIES Moderator: Assoc. Prof. Ivan Georgiev, PhD	
9.15-9.30 Gabriela Kotseva	Institute of Information and Communication Sciences and Technologies - BAS	<i>Overview and analysis of new technologies relevant to the lifestyle of the blind man</i>
9.30-9.45 Ivaylo Georgiev	Institute of Robotics - BAS	<i>3D printed humanoid hand</i>
9.45-10.00 Ivo Gudinov	Institute of Robotics - BAS	<i>Artificial intelligence system to counter hybrid threats</i>

10.00-10.15 Maria Pashinska-Gadzheva	Institute of Mathematics and Informatics - BAS	<i>Optimization and Parallelization of Algorithms Connected to Coding Theory</i>
10.15-10.30 Maya Staikova	Institute of Information and Communication Sciences and Technologies - BAS	<i>Labyrinth with Cody Rocky</i>
10.30-11.00	COFFEE BREAK	
11.00-11.15 Melania Berbatova	Sofia University "St. Kliment Ohridski"	<i>Large language models for Bulgarian language</i>
11.15-11.30 Ventsislav Polimenov	Institute of Mathematics and Informatics - BAS	<i>Application of Artificial Intelligence Algorithms for Identification of Leaf Areas from Satellite Imagery</i>
11.30-12.00	<u>SESSION:</u> CLIMATE CHANGE, HAZARDS AND NATURAL RESOURCES <u>Moderator:</u> Prof. Denitsa Borisova, PhD	
11.30-11.45 Gatien Morin	Geological Institute - BAS	<i>Trace element composition of crude oils from Northern Bulgaria</i>
11.45-12.00 Tsvetan Parov	Space Research and Technology Institute - BAS	<i>Solar-atmospheric interactions in the karst geosystem of the deepest and longest cave in Bulgaria „Kolkina dupka”, spreading Under „Ponor” mountain</i>
13.00-14.00	LUNCH	
<u>THURSDAY 18th May 2023</u> Big Conference Hall		
07.30-08.30	BREAKFAST	
08.45-09.30	Lecture: "WHAT'S WRONG WITH THE SOCIAL SCIENCES TODAY?" Guest speaker: Prof. Sari Hanafi, PhD Professor of Sociology Director of Center for Arab and Middle Eastern Studies and Chair of the Islamic Studies program at the American University of Beirut <u>Moderator:</u> Corresponding Member DSci Evdokia Pasheva	
09.30-11.00	<u>SESSION:</u> MAN AND SOCIETY <u>Moderator:</u> Prof. DSci Ergyul Tair	
9.30-9.45 Alexander Tcherpokov	Institute for the State and the Law - BAS	<i>The Rule of Law principle as a substantive component of legal consciousness</i>
9.45-10.00 Ivo Hinov	Institute for the State and the Law - BAS	<i>Trying in absentia - the collusion between case-law of the Court of Justice of the European Union (CJEU) and the Bulgarian Supreme Court (BSC)</i>
10.00-10.15 Juliana Hicheva	Institute of Philosophy and Sociology - BAS	<i>Poetics of visual expression in art between the 19th and 20th centuries</i>

10.15-10.30 Lillyana Georgieva	Sofia University "St. Kliment Ohridski"	<i>Shadow Economy in Bulgaria and the EU: Assessing Socio-Demographic Characteristics</i>
10.30-10.45 Margarita Oysolova	Institute for the state and the Law - BAS	<i>Establishing and Implementing the European Union's (EU) Network and Information Security (NIS) Directive: The Bulgarian Experience</i>
10.45-11.00 Martin Petrushev	Institute for Literature - BAS	<i>The habit of repetitive thinking</i>
11.00-11.30	COFFEE BREAK	
11.30-13.00	SESSION: MAN AND SOCIETY Moderator: Prof. DSci Ergyul Tair	
11.30-11.45 Nikola Ganev	Institute for Population and Human Studies - BAS	<i>Migration movements of Bulgarian citizens in North Macedonia (1991 - 2021)</i>
11.45-12.00 Nikolina Nikolova	University of National and World Economy	<i>Empowering growth and resilience through coaching and values</i>
12.00-12.15 Petar Topurov	Institute for the state and the Law - BAS	<i>The failed but necessary legislative reforms to the Protection Against Domestic Violence Act</i>
12.15-12.30 Petya Kolchakova	Institute for the State and the Law - BAS	<i>The law changes about the obligation to pay a vignette fee and administrative criminal liability in case of violation</i>
12.30-12.45 Plamen Petkov	Institute for Population and Human Studies - BAS	<i>Validation of the NPI-40 Narcissism Questionnaire</i>
12.45-13.00 Vanya Slavova	Institute for Population and Human Studies - BAS	<i>School-based Pyd Programs: determinants and perspectives</i>
13.00-14.00	LUNCH	
14.00-15.30	SESSION: BIOMEDICINE AND QUALITY OF LIFE Moderator: Corresponding Member, DSci Nina Atanassova	
14.00-14.15 Alexander Tzintzarov	Institute of Molecular biology "Roumen Tzanev" - BAS	<i>Primary phytochemical analysis of <i>S.nigra</i> fruit extracts for a precise evaluation of their biological activity</i>
14.15-14.30 Ariana Langari	Institute of Biophysics and Biomedical Engineering - BAS	<i>Changes of ultrastructural and morphometric features of erythrocytes from patients with early pregnancy loss and preeclampsia. Potential markers for early diagnostics</i>
14.30-14.45 Blagovesta Boneva	Institute of Microbiology "Stefan Angelov" - BAS	<i>Local effect of <i>Crocus Sativus</i> extract evaluated in a mouse model of osteoarthritis</i>
14.45-15.00 Borislava Borisova	Institute of Biophysics and Biomedical Engineering - BAS	<i>Surface biofunctionalization by layer-by-layer assembly of polyelectrolyte multilayers for biomedical applications</i>

15.00-15.15 Desislava Dyulgerova- Nikolova	Institute of Biology and Immunology of Reproduction "Acad. Kiril Bratanov" - BAS	<i>Intracytoplasmic morphologically selected sperm injection (IMSI) improves the embryo quality on day 3</i>
15.15-15.30 Desislava Krushovlieva	Institute of Neurobiology - BAS	<i>Spontaneously hypertensive rats versus Wistar Kyoto and Wistar rats: an assessment of the impact of anxiety and motor activity on cognitive performance</i>
15.30-16.00	COFFEE BREAK	
16.00-17.00	<u>SESSION:</u> BIOMEDICINE AND QUALITY OF LIFE <u>Moderator:</u> Corresponding Member DSci Nina Atanassova	
16.00-16.15 Zlatina Vlahova	Institute of Molecular biology "Roumen Tzanev" - BAS	<i>Activity of newly synthesized DNA intercalating heterocyclic fused naphthalimides against various human cell lines</i>
16.15-16.30 Luiza Lorena Pires Ramos	University of Antwerp, Belgium	<i>Investigation of inherited neuropathies with long-read sequencing</i>
16.30-16.45 Nikola Ralchev	Institute of Microbiology "Stefan Angelov" - BAS	<i>Targeted suppression of allergen-specific B lymphocytes in humanized Rag2- γc- house dust mite allergy model</i>
16.45-17.00 Penyo Ivanov	Institute of Molecular biology "Roumen Tzanev" - BAS	<i>Rearrangements in the global chromatin organisation during intermittent fasting by calorie restriction</i>
17.00-18.00	<u>POSTER SESSION – 2 (even numbers)</u>	
18.30-20.00	DINNER	
20.00-	Bulgarian traditional music night at YUVIGI KHAN tavern with live folklore performances (optional)*	
<u>FRYDAY 19th May 2023</u> Big Conference Hall		
07.30-08.30	BREAKFAST	
08.45-9.45	<u>SESSION:</u> BIOMEDICINE AND QUALITY OF LIFE <u>Moderator:</u> Corresponding Member DSci Nina Atanassova	
8.45-9.00 Petya Ivanova	Institute of Neurobiology - BAS	<i>The Role of melatonin in the pathogenesis of Alzheimer's diseases</i>
9.00-9.15 Emiliya Stoyanova	Institute of Microbiology "Stefan Angelov" - BAS	<i>Immunotherapeutic potential of mollusk hemocyanins in murine model of melanoma</i>
9.15-9.30 Simeon Dimitrov	Institute of Microbiology "Stefan Angelov" - BAS	<i>Screening of novel nitrofuranyl amides for their in vitro antimycobacterial activity and in vivo evaluation of their pharmacological potential</i>

9.30-9.45 Yuliia Mariienko	Institute of Biology and Immunology of Reproduction "Acad. Kiril Bratanov" - BAS	<i>Time-lapse in vitro model for assessment of SARS-CoV-2 severity using ORF3a induced cell death</i>
10.00-10.45	Lecture: "PUBLISH YOUR SCIENCE IN HIGH IMPACT SOURCES" Guest speakers: Vivien Vereczki <i>Customer consultant in the Eastern-Central European region, Elsevier and Christiane Fiorin</i> <i>ScienceDirect's Book Expert Advisor, Elsevier</i> Moderator: Asst. Prof. Viktoriya Nedeva-Atanasova, PhD	
10.45-11.30	Lecture: "FROM IDEAS TO UNICORNS: THE PRACTICAL ASPECTS OF TECHNOLOGY TRANSFER" Guest speaker: Ivaylo Ivanov <i>Director of Founder Institute Eastern Europe</i> Moderator: Asst. Prof. Shazie Yusein-Myashkova, PhD	
11.30-12.00	OFFICIAL FORUM CLOSURE AND AWARD CEREMONY Corresponding Member DSci Evdokia Pasheva, Director of the Training center – BAS	
12.00-13.00	TAKE AWAY LUNCH BOXES	

Important information: check-in 14.00/check-out 12.00

***The Bulgarian traditional music night at YUVIGI KHAN tavern is optional and at an additional price. For more details and to reserve a place for the night please ask organizing committee during REGISTRATION.**

