

PROGRAMME

International Scientific Conference "Physics-Engineering-Technology"

22-24 April 2026, DoubleTree by Hilton Plovdiv Center, Plovdiv, Bulgaria

| Hour | Wednesday 22.04.2026 | | Hour | Thursday 23.04.2026 | | | Hour | Friday 24.04.2026 |
|------------------------|-------------------------------------|---------------------|-------------|--|-------------|----------------------|-------------|-------------------------------------|
| | Conference Hall <i>Evmolpia</i> | Hall Puldin | | Hall Puldin | Hour | Hall Philippopolis | | Hall Puldin |
| (All day) 8:30-9:30 | Registration | | (All day) | Registration | | | (All day) | Registration |
| 9:30-9:45 | Opening ceremony | | 9:00-9:45 | Roumyana Hadjiiska | 9:00-9:45 | Ionut Geonea | 9:00-9:45 | Tinko Eftimov |
| | | | 9:45-10:30 | Ece Asilar | 9:45-10:30 | Cristian Copilusi | 9:45-10:30 | Vasil Angelov |
| 9:45-10:30 | Yuri Dekhtyar | | 10:30-10:45 | Coffee break | 10:30-10:45 | Coffee break | 10:30-10:45 | Coffee break |
| 10:30-11:15 | Cosmin Mihai Mirițoiu | | 10:45-11:20 | Edi Muratov/ Georgi Mitev | 10:45-11:20 | Antoniya Petrova | 10:45-11:30 | Stoil Ivanov |
| 11:15-12:00 | Ionut Geonea | | 11:20-12:05 | Diana Adliene | 11:20-11:55 | Elena Tolstosheeva | 11:30-12:05 | Plamena Marcheva |
| 12:00-13:00 | Lunch | | 12:05-13:05 | Lunch | 12:00-13:00 | Lunch | 12:05-13:05 | Lunch |
| 13:00-13:45 | | Rajesh Kaluri | 13:05-13:50 | Lubomir Kovachev | 13:00-13:25 | Viktor Yotov | 13:05-13:40 | Aneliya Dakova- Mollova |
| 13:45-14:30 | | Srinivas Koppu | 13:50-14:25 | Maria-Gabriela Zheleva | 13:25-14:10 | Stefan Nikolov | 13:40-14:15 | Pavlina Miteva |
| 14:30-15:15 | | Erukala Suresh Babu | 14:25-15:00 | Atanas Terziyski | 14:10-14:35 | Sitsiliya Popova | 14:15-14:40 | Boris Dobrev |
| | | | | | 14:35-15:00 | Tsvetelina Gencheva | | |
| 15:15-15:30 | Coffee break | | 15:00-15:15 | Coffee break | 15:00-15:15 | Coffee break | 14:40-15:05 | Kristiyan Grozev |
| 15:30-16:15 | | Anjan Biswas | 15:15-15:50 | Pavlin Groudev | 15:15-15:50 | Stoyanka Kostadinova | 15:05-15:20 | Coffee break |
| | | | 15:50-16:15 | Tsanka Dikova | 15:50-16:15 | Gyeongmo Min | 15:20-15:55 | Obaidullah Akhund Zada |
| 16:15-17:00 | | Nikolay Nedyalkov | 16:15-16:40 | Tsanka Dikova | 16:15-16:40 | Jeongwoo Park | 15:55-16:20 | Miroslav Simov |
| | | | 16:40-16:55 | EAZ Ltd. | | | 16:20-16:45 | Miroslav Yugov |
| 17:00-19:00 | Poster session and Welcome drink | | 17:00-19:00 | Social program / Free afternoon | | | 16:45-17:10 | Delko Zlatanski/ Krasimir Petkov |
| | | | 20:00 | Official dinner/ Best Young Scientist Poster Awards | | | 17:10-17:25 | Closing ceremony |

Section A: *Physics, Mathematics and Material Science*
 Section B: *Engineering, Communications and Electronics*
 Section C: *Educational Technologies*

Section D: *Bioengineering and Biosensors*
 Industrial Presentations
 Poster session

Invited speakers

DAY 1: Wednesday 22.04.2026

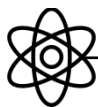
Conference Hall Evmolpia

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| 08:30 – 09:30 (All day) | Registration | |
| 09:30 – 09:45 | Opening ceremony | |
| Session Chair: Assoc. Prof. Todorka Dimitrova | | |
| 09:45 – 10:30 | Yuri Dekhtyar | Electricity as the driving force of biology |
| 10:30 – 11:15 | Cosmin Mihai Mirițoiu | Mechanical properties for some bio-based composites |
| 11:15 – 12:00 | Ionut Geonea | Dynamic finite element and experimental strain analysis of a passenger-car rear axle |
| 12:00 – 13:00 | Lunch | |
| 17:00 – 19:00 | Poster session and Welcome drink | |

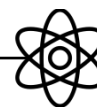
Hall Puldin

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| (All day) | Registration | |
| Session Chair: Assoc. Prof. Stoil Ivanov | | |
| 13:00 – 13:45 | Rajesh Kaluri | Emotion data analytics in assistive learning platforms: A review for inclusive education |
| 13:45 – 14:30 | Srinivas Koppu | Self-supervised feature learning for Alzheimer's MRI classification: DINOv2 with XAI-driven explanations |
| 14:30 – 15:15 | Erukala Suresh Babu | Enhancing IoT security: A consortium blockchain with ECDH-ECDSA approach for securing Zigbee networks |
| 15:15 – 15:30 | Coffee break | |
| 15:30 – 16:15 | Anjan Biswas | Quasi-stationary optical <i>Gaussons</i> with arbitrary intensity |
| 16:15 – 17:00 | Nikolay Nedyalkov | Pulsed laser deposition: Efficient method for formation of novel functional materials |
| 17:00 – 19:00 | Poster session and Welcome drink in Conference Hall Evmolpia | |

POSTER SESSION



Section A «Physics, Mathematics and Material Science»



Poster presentations:

A-P1: Adriana Georgieva, Margarita Georgieva, Krasi Panayotova, Gergana Peeva, Ralica Koleva, Zhelyazko Kisov, STUDY OF CERAMIC COMPOSITE MATERIALS IN WASTEWATER TREATMENT

A-P2: Akintayo Daniel Omojola, Anwuli Christiana Tobi, John Uruemuesiri Tobi, Esu Okon Esu, VERIFICATION OF IAEA REFERENCE MATERIALS WITH A POCKET-SIZED GAMMA SPECTROSCOPY DEVICE

A-P3: Krastena Nikolova, Tinko Eftimov, L. Makedonski, COMPARATIVE SPECTRAL ANALYSIS OF UNCONVENTIONAL VEGETABLE OILS WITH APPLICATIONS IN COSMETICS

A-P4: G. Hristozova, E. Marekova, I. Zinicovscaia, S. Marinova, TRENDS IN ATMOSPHERIC DEPOSITION OF METALS AND METALLOIDS IN BULGARIA: FINDINGS FROM THE 2020/2022 ICP VEGETATION SURVEY

A-P5: Vanesa Koycheva, Sofia Milenkova, Velizar Gochev, Maria Marudova, INFLUENCE OF MASTIC GUM CONCENTRATION ON THE PHYSICOCHEMICAL AND MECHANICAL PROPERTIES OF POLY(E-CAPROLACTONE) FILMS

A-P6: T. Dikova, I. Parushev, D. Dzhendov, S. Mitkov, V. Dunchev, S. Peev, INFLUENCE OF SINTERING TEMPERATURE ON STRUCTURE AND STRENGTH OF β -TRICALCIUM PHOSPHATE BIOCERAMIC OBTAINED BY FREEZE DRYING PROCESS

A-P7: Victorien Ewane Ewan, Julius Zlatev, Tinko Eftimov, POWER OVER FIBER WITH PULSE WIDTH MODULATION FOR ELECTRONIC DEVICES

A-P8: P. Ralova, M. Milanova, P. Vitanov, Hr. Dikov, K. Kirilov, VLS GROWTH OF GaSb NANOSTRUCTURES ON A $\text{TiO}_2/\text{Ag}/\text{TiO}_2$ NANOLAMINATE STRUCTURE USING Ag NANOPARTICLES AS A CATALYST

A-P9: Valentin Kichukov, Stefan Dosev, Liliya Vulkova, Anelia Dakova-Mollova, Zahari Peshev, Tanja Dreischuh, COMPARATIVE CHARACTERIZATION OF THE KLETT-FERNALD AND ANSMANN APPROACHES FOR RETRIEVING AND PROFILING OPTICAL PROPERTIES OF ATMOSPHERIC AEROSOLS FROM LIDAR DATA

A-P10: E. Hikova, P. Kolev, P. Veselinov, J. Karadjov, SURFACE PLASMON RESONANCE AS A SENSITIVE PLATFORM FOR RAPID CARBENDAZIM DETECTION

A-P11: Petar Kolev, Petar Veselinov, Evdokiya Hikova, Anna Atanasova, Vihar Mankov, CHANNIELED POLARIMETRY FOR HYDROGEN DETECTION

A-P12: Yulian Tumbarski, Ivan Ivanov, Magdalena Stoyanova, Petya Ivanova, Tinko Eftimov, Samia Fouzar, Krastena Nikolova, ENVIRONMENTAL EFFECTS ON PHENOLIC FLUORESCENCE SIGNATURES IN *SATUREJA HORTENSIS L.*

A-P13: Siwar Louati, Tinko Eftimov, Larbi Talbi, SELECTIVE MODE EXCITATION USING PERIODIC OPTICAL FIBER STRUCTURES

A-P14: Maria Marudova, Sofia Milenkova, Asya Viraneva, Anelia Bivolarska, Ivica Dimov, Mariya Choneva, Elisaveta Apostolova, Vesela Kokova, Temenuzhka Yovcheva, CHITOSAN–POLYVINYL ALCOHOL FILMS ENRICHED WITH MARRUBIUM PEREGRINUM EXTRACT: A PROMISING BIOMATERIAL FOR WOUND HEALING APPLICATIONS

A-P15: Emanuil Petkov, Hristo Kisov, Nikolay Petkov, PULSED LASER EVAPORATION: AN EFFECTIVE TECHNOLOGY FOR CREATING NANOSTRUCTURED COATINGS FOR HYDROGEN DETECTION

A-P16: Elizabeth Ivanova, Valentin Petrov, Ginka Exner, NANOINDENTATION AS AN ADVANCED AND POWERFUL METHOD FOR STUDYING MECHANICAL CHARACTERISTICS OF NON-OXIDE NONLINEAR SINGLE CRYSTALS

A-P17: Georgi Tankovski, Rayna Hadzhikinova, Ivan Bodurov, CHARACTERIZATION OF GELATIN-ISOMALT COMPOSITES FOR GUMMY CONFECTIONERY APPLICATIONS

A-P18: Georgi Vladimirov, Ekaterina Iordanova, Georgi Yankov, Viktoria Atanasova, Dimitar Filipov, SPECTRAL CHARACTERIZATION OF MICROPLASTICS IN AQUATIC ENVIRONMENTS: FROM LABORATORY ANALYSIS TO FIELD MONITORING

A-P19: P. Ivanova, K. Raykov, M. Dimitrova, M. Mitov, E. Hasan, E. Vasileva, B. Guillermin, J. P. Gunn, RETARDING FIELD ANALYSER MEASURING THE ION TEMPERATURE IN THE DIVERTOR OF THE WEST TOKAMAK

A-P20: T. Tabakova, M. Gabrovska, D. Nikolova, I. Ivanov, T. Parvanova-Mancheva, H. Kolev, P. Tzvetkov, K. Tenchev, G. Zarkova, INSIGHTS INTO THE ROLE OF GOLD IN THE WGS PERFORMANCE OF CuZnAl LDH-DERIVED CATALYSTS

A-P21: M. Gabrovska, D. Nikolova, T. Parvanova-Mancheva, T. Tabakova, P. Tzvetkov, K. Tenchev, G. Zarkova, SCALE UP SYNTHESIS CO-PRECIPIATION TECHNOLOGY OF CuZnAl LAYERED DOUBLE HYDROXIDES AS CATALYSTS FOR ONE-STEP LOW-TEMPERATURE WATER-GAS SHIFT REACTION

A-P22: Anka S. Georgieva-Hristeva, Todorka L. Dimitrova, Vanya Slavova, LASER-BASED UV LED TREATMENT OF RADISH SEEDS: EFFECTS ON GERMINATION AND EARLY SEEDLING DEVELOPMENT

A-P23: T. Parvanova-Mancheva, D. Nikolova, M. Gabrovska, S. Todorova, I. Yordanova, RAPID ELEMENTAL ANALYSIS OF CATALYSTS USING X-RAY FLUORESCENCE (XRF) TECHNIQUE

A-P24: D. Nikolova, M. Gabrovska, I. Ivanov, T. Parvanova-Mancheva, T. Tabakova, P. Tzvetkov, K. Tenchev, G. Zarkova, ENGINEERING NEXT-GENERATION CuOZnOAl₂O₃ CATALYSTS FOR HIGH-PURITY HYDROGEN PRODUCTION THROUGH Re-DOPING

A-P25: R. Radnev, T. Dimitrova, ENHANCED DYNAMIC MODELLING OF THE HYDROACCUMULATOR SYSTEM FOR KOZLODUY NPP UNIT 6 FULL-SCOPE SIMULATOR

A-P26: Z. Geshkova, I. Hristova, S. Todorova, CHARACTERIZATION OF Co-Ce/SiO₂ CATALYST WITH CO-TPR AND H₂-TPR MEASUREMENTS

A-P27: I. Hristova, S. Todorova, Z. Geshkova, SYNTHESIS OF SUPPORTED Co-Ce CATALYSTS FOR PREFERENTIAL CO OXIDATION IN H₂-RICH STREAMS: IMPLEMENTATION OF A 20 g BATCH SCALE-UP STRATEGY FOR CATALYST PRODUCTION

A-P28: S. Todorova, I. Hristova, B. Grahovski, Z. Geshkova, Hristo G. Kolev, Daniela B. Karashanova, EFFECT OF PREPARATION METHOD ON Co-Ce/SiO₂ CATALYSTS FOR PREFERENTIAL CO OXIDATION IN HYDROGEN-RICH GASES



Poster presentations:

B-P1: Dimitar Mitov, SATCOM AVIONICS VERIFICATION AND VALIDATION: V-MODEL, SAFETY & SECURITY STANDARDS, AND CRA COMPLIANCE

B-P2: Lubomir Angelov, Nikolay Tyutyundzhiev, Hristo Nitchev, PHOTOVOLTAIC SYSTEMS AND THEIR APPLICATION IN MODERN SMART GRIDS

B-P3: Anton Bashev, Velko Rupetsov, INVESTIGATION OF THE SURFACE ROUGHNESS OF PLA AND PETG PARTS AFTER REMOVING DIFFERENT SUPPORT MATERIALS (PVA AND SUPPORT FOR PLA/PETG)

B-P4: Kristian Nikolov, Tinko Eftimov, Virginija Vitola, Katrina Krizmane, Awa Sowa, Koffi Kouamé, SMARTPHONE-READABLE PHOSPHORESCENT RGB TIME DECAY ENCODED TAGGANTS WITH WHITE LED EXCITATION

B-P5: Yaovi Ahadjitse, Kristian Nikolov, Awa Sowa, Tinko Eftimov, EXCITATION DEPENDENT LUMINESCENT RGB ENCODED LABELS FOR SECURE AUTHENTICATION IN IOT APPLICATIONS

B-P6: Nikolai Paunkov, Rumen Popov, Anatoliy Parushev, Angel Chekichev, Daniela Shehova, THREE-DIMENSIONAL MEASUREMENT AND ANALYSIS OF MAIN, EDGE, AND LEAKAGE MAGNETIC FLUXES USING A 3D HALL SENSOR MLX90393 AND AN EPSTEIN APPARATUS

B-P7: Stanislav Asenov, Angel Chekichev, POWER QUALITY ASSESSMENT OF GRID-CONNECTED PHOTOVOLTAIC SYSTEMS IN BUILDINGS WITH DISTRIBUTED RENEWABLE ENERGY

B-P8: Stanislav Asenov, Hristo Kanevski, NEXT-GENERATION AUTOMOTIVE NETWORKING: FROM CAN AND LIN TO ETHERNET BASED ARCHITECTURES

B-P9: Nikola Mitov, DIGITAL TWIN MODEL ARCHITECTURE FOR FUNCTIONAL SAFETY VERIFICATION OF A BRAKE-BY-WIRE SYSTEM: AN EMPIRICAL APPROACH

B-P10: Velislava Raydovska, Emil Velev, MATLAB-BASED VIRTUAL BRIDGE MODEL FOR PARAMETER ESTIMATION OF POLARIZING DIELECTRICS

B-P11: Stefan Stefanov, AN ADAPTIVE FRAMEWORK FOR SECURE DATA MIGRATION IN CLOUD COMPUTING ENVIRONMENTS

B-P12: Stefan Stefanov, AN EFFECTIVE SECURITY FRAMEWORK FOR DATA MIGRATION IN CLOUD COMPUTING

B-P13: Isra Elfatih Salih Edrees, NEURAL NETWORK-BASED APPROACH FOR TERRAIN-FOLLOWING FLIGHT CONTROL

B-P14: Ekaterina Grozeva, Elena Tolstosheeva, Rumen Popov, FREQUENCY ANALYSIS OF THE BUZZING CHARACTERISTICS OF A BEE COLONY USING A MICROPHONE IN RELATION TO ENVIRONMENTAL CHANGES

B-P15: Nikolay Toshev, Hristo Kanevski, EXPERIMENTAL VALIDATION OF A KINEMATIC BRAKING DISTANCE MODEL UNDER VARYING ROAD CONDITIONS AND ABS STATES

B-P16: Emil Velev, Velislava Raydovska, Miroslav Aleksiev, Petar Georgiev, EXPERIMENTAL STUDY OF 3D PRINTED LATTICE STRUCTURES OF 1.4548 STEEL

B-P17: Emil Velev, Velislava Raydovska, Miroslav Aleksiev, Petar Georgiev, EXPERIMENTAL STUDY OF THE QUALITY OF 3D PRINTED MARAGING STEEL 1.2709

B-P18: Antonya Ilieva, Megi Dakova, ADDRESSING TECHNICAL, PRACTICAL, AND ADMINISTRATIVE LEGAL CHALLENGES IN OCCUPATIONAL MEDICINE PRACTICE

B-P19: Anna Bekyarova-Tokmakova, Megi Dakova, AN INTEGRATED FRAMEWORK FOR INVESTMENT ASSESSMENT IN FTTH PASSIVE OPTICAL NETWORKS



Section C «Educational Technologies»



Poster presentations:

C-P1: Gergana Dimitrova, Margarita Ruseva, Megi Dakova, Aygun Erturk-Mincheva, INDUSTRY 5.0 – EDUCATION 5.0: HOW TECHNOLOGIES ARE TRANSFORMING HIGHER EDUCATION

C-P2: Ekaterina S. Pisanova, CORPUSCULAR-WAVE DUALISM OF THE PARTICLES: COMMON MISCONCEPTIOS AND A CONCEPT MAP DESIGN

C-P3: Slavi Lyubomirov, Snezha Shotarova, Serghei Staicov, INTEGRATING SIMULATION TECHNOLOGIES INTO REMOTE ACCESS LABORATORIES

C-P4: Dragia Ivanov, Hristina Petrova, Stefan Nikolov, GRAPHIC REPRESENTATION OF DIRECT CURRENT LAWS



Section D «Bioengineering and Biosensors»



Poster presentations:

D-P1: Blagovesta Midyurova, Antoniya Petrova, Stefka Atanassova, Lyudmila Angelova, Ivaylo Belovski, Todor Mihalev, Elena Koleva, NEAR-INFRARED SPECTROSCOPY AND AQUAPHOTOMICS FOR RAPID MONITORING OF LAKE VAYA WATER PURIFICATION

DAY 2: Thursday 23.04.2026

Conference Hall Puldin

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| All day | Registration | |
| Session Chair: Assoc. Prof. Mariana Shopova | | |
| 09:00 – 09:45 | Roumyana Hadjiiska | The CMS muon system from Run-2 and Run-3 to future High Luminosity LHC phase |
| 09:45 – 10:30 | Ece Asilar | Methods to search for heavy stable charged particles in Phase II using the upgraded muon system of CMS experiment at LHC at CERN |
| 10:30 – 10:45 | Coffee break | |
| 10:45 – 11:20 | Edi Muratov/ Georgi Mitev | Radiation monitoring system for the gas electron multiplier detectors of the CMS experiment at the CERN Large Hadron Collider |
| 11:20 – 12:05 | Diana Adliene | The future of radiation protection: Modular and adaptive neutron shielding for high-energy particle facilities |
| 12:05 – 13:05 | Lunch | |
| Session Chair: Prof. Maria Marudova-Zsivanovits | | |
| 13:05 – 13:50 | Lubomir Kovachev | Optics of broadband laser pulses, polarization forces and application to laser driven nuclear fusion |
| 13:50 – 14:25 | Maria-Gabriela Zheleva | Envelope-driven sub-tunnel ionization by longitudinal polarization optical forces in femtosecond laser fields |
| 14:25 – 15:00 | Atanas Terziyski | Development of a multichannel gamma spectrometer for environmental radiation monitoring |
| 15:00 – 15:15 | Coffee break | |
| Session Chair: Assoc. Prof. Roumyana Hadjiiska | | |
| 15:15 – 15:50 | Pavlin Groudev | Investigation of fuel cladding failure prevention in a spent fuel pool |
| 15:50 – 16:15 | Tsanka Dikova | Specific features of the surface morphology of Ti6AL4V alloy fabricated via selective laser sintering |
| 16:15 – 16:40 | Tsanka Dikova | Surface morphology of SLS-fabricated Ti6AL4V alloy after heat treatment and sand blasting |
| 16:40 – 16:55 | Industrial Presentation | EAZ Ltd. |
| 17:00 – 19:00 | Social program / Free afternoon | |
| 20:00 | Official dinner/ Best Young Scientist Poster Awards | |

Hall Philippopolis

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| All day Registration | | |
| Session Chair: Prof. Dimitar Tokmakov | | |
| 09:00 – 09:45 | Ionut Geonea | Structural optimization and prototype development of a new lower-limb exoskeleton for human gait rehabilitation |
| 09:45 – 10:30 | Cristian Copilusi | Center-of-mass considerations in the design of a pediatric exoskeleton: Approaches and challenges |
| 10:30 – 10:45 Coffee break | | |
| 10:45 – 11:20 | Antoniya Petrova | Assessment of the influence of zeolite in soils on cucumber plant growing using near-infrared spectroscopy and aquaphotomics |
| 11:20 – 11:55 | Elena Tolstosheeva | Paneurhythmy inspired walking as a natural heart-mind coherence booster: A pilot study |
| 12:00– 13:00 Lunch | | |
| Session Chair: Assoc. Prof. Ekaterina Pisanova | | |
| 13:00 – 13:25 | Viktor Yotov | Real-time electrical impedance analysis for studying key properties of cell cultures |
| 13:25 – 14:10 | Stefan Nikolov | The tea leaves paradox |
| 14:10 – 14:35 | Sitsiliya Popova | Evolution of visualisation in physics education (1996–2026) |
| 14:35 – 15:00 | Tsvetelina Gencheva | Ecosystems of non-formal astronomy education: comparative analysis of models in Bulgaria and leading global practices (2000–2026) |
| 15:00 – 15:15 Coffee break | | |
| Session Chair: Prof. Zhelyazka Raykova | | |
| 15:15 – 15:50 | Stoyanka Kostadinova | New approach in teaching thermodynamics in secondary school |
| 15:50 – 16:15 | Gyeongmo Min | Designing and evaluating a structure-preserving document pipeline for enhanced automated review of science examinations using LLMs |
| 16:15 – 16:40 | Jeongwoo Park | Exploring pre-service elementary teachers' model construction of plane-mirror image formation using an AR-HMD learning environment |
| 17:00 – 19:00 Social program / Free afternoon | | |
| 20:00 Official dinner/ Best Young Scientist Poster Awards | | |

DAY 3: Friday 24.04.2026

Conference Hall Puldin

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| All day Registration | | |
| Session Chair: Assoc. Prof. Aneliya Dakova-Mollova | | |
| 09:00 – 09:45 | Tinko Eftimov | Long period fiber gratings as highly sensitive platforms for biochemical sensing applications |
| 09:45 – 10:30 | Vasil Angelov | On the 4-body problem of classical electrodynamics |
| 10:30 – 10:45 Coffee break | | |
| 10:45 – 11:30 | Stoil Ivanov | A new approach to the modeling and analysis of multilayer multimode anisotropic waveguides |
| 11:30 – 12:05 | Plamena Marcheva | Semilocal convergence of Super-Halley method for the simultaneous approximation of polynomial zeros |
| 12:05 – 13:05 Lunch | | |
| Session Chair: Prof. Dr.Sc. Lubomir Kovachev | | |
| 13:05 – 13:40 | Aneliya Dakova-Mollova | Cnoidal waves and optical solitons in nonlinear dispersive media |
| 13:40 – 14:15 | Pavlina Miteva | $\lambda^{(3)}$ diffraction in medium with dispersion |
| 14:15 – 14:40 | Boris Dobrev | Optical vortex structures in a medium with spatially dependent linear refractive index |
| 14:40 – 15:05 | Kristiyan Grozev | Determination of optical constants and depth-dependent inhomogeneity in ZrO ₂ thin films deposited with and without ion-assisted deposition |
| 15:05 – 15:20 Coffee break | | |
| Session Chair: Assoc. Prof. Stanislav Asenov | | |
| 15:20 – 15:55 | Obaidullah Akhund Zada | Comparative investigation of concrete strength, durability, and its effect with and without admixture |
| 15:55 – 16:20 | Miroslav Simov | Restoration of working surfaces of injection molds by sandblasting |
| 16:20 – 16:45 | Miroslav Yugov | Transition from manual to automated soldering of electronic components in the automotive industry: A comparative analysis through OEE |
| 16:45 – 17:10 | Delko Zlatanski/ Krasimir Petkov | Design and construction of a DC current measurement device based on a Hall effect sensor |
| 17:10 – 17:25 Closing ceremony | | |

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