

23th May 2024 (Thursday)

8:00 - 8:45	REGISTRATION	
8:45 - 9:00	Opening of the 23 rd International Workshop for Young Scientists "BioPhys Spring 2024" prof. J. Horabik, prof. C. Sławiński and Scientific Committee Members	
9:00 - 9:30	OPENING LECTURE prof. Anna Jarosz-Wilkolażka INNOVATIONS IN IMMOBILIZATION TECHNIQUES FOR ENZYMES AND MICROORGANISMS IN BIOPROCESSES	in pers.
Session 1 9:30 - 10:20	Energy from renewable sources (Part 1) Chairman - prof. J. Horabik	in pers.
9:30 - 9:40	Tantowi Muchtar Hasibuan , O.R. Syawaly, N. Nugraha, D. Rusirawan, M.H. Arnaldo, F. Hadiatna, D. Fauziah, I. Farkas EXPERIMENTAL STUDY INFRASTRUCTURE OF POLYSILAZANE TEMPERED MONOCRYSTALLINE PHOTOVOLTAIC MODULE 50 WP: INITIAL DESIGN IMPLEMENTATION	online
9:40 - 9:50	Jojo Hidayat , W. Budiawan, N.M. Nursam, D. Rusirawan DEVELOPMENT OF INTERCONNECTION DYE-SENSITIZED SOLAR MODULES	online
9:50 - 10:00	Kisto , D. Rusirawan, I. Farkas STUDY OF THE ELECTRICITY SOURCES EFFECTIVENESS TO REDUCE POLYESTER PRODUCTION COSTS	online
10:00 - 10:10	Maytham Hasan Machj , I. Farkas, J. Buzas MODELLING THE PERFORMANCE OF DOUBLE PASS SOLAR AIR COLLECTORS	online
10:10 - 10:20	Mohammed Ali THE IMPACT OF THE DISTANCE BETWEEN THE WALL AND THE PHOTOVOLTAIC MODULE ON THE POWER OUTPUT IT GENERATES	online
10:20 - 10:30	Martin Kozelka , J. Šafránková, V. Beránek, M. Libra, V. Poulek AGRIVOLTAICS: A POSSIBILITY FOR SUSTAINABLE DEVELOPMENT	in pers.
10:30 - 10:50	Coffee break & poster session	
Session 2 10:50 - 11:50	Biophysics and microbiology (Part 1) Chairman - prof. M.Libra	in pers.
10:50 - 11:00	Lukman Hakim , D. Mulyadi, D. S. Pertiwi ENHANCING VEGETATIVE GROWTH AND YIELD OF RICE PLANTS THROUGH THE INCLUSION OF BIOACTIVATOR, BIOREMEDIATION AGENTS, N-FIXING BACTERIA, AND P-SOLUBILIZING BACTERIA	online
11:00 - 11:10	Marlena Szymańska , M. Czemińska, A. Jarosz-Wilkolażka, I. Krzemińska THE INFLUENCE OF BACTERIAL EXTRACELLULAR POLYMERIC SUBSTANCES ON THE GROWTH PROCESSES OF UNICELLULAR ALGAE	in pers.
11:10 - 11:20	Prival Sisodia , A. Gryta, J. Panek, D. Siegięda, M. Maćik, M. Pylak, K. Oszust, S. I. Pathan, G. Pietramellara, M. Frąć SHAPING THE BACTERIAL AND FUNGAL MICROBIOME IN LEGUME-CEREAL INTERCROPPING	in pers.
11:20 - 11:30	Natalia Kutryieva-Nowak , A. Leszczuk, A. Nowak, A. Nosalewicz, A. Zdunek PHYSIOLOGICAL CHANGES IN TOMATO FRUIT DURING STORAGE IN STRESSFUL OXYGEN CONDITION	online
11:30 - 11:40	Magdalena Marciniak , J. Cieśla, J. Cybulska, A. Zdunek BEHAVIOUR OF MACROMOLECULES OF WATER-SOLUBLE ONION POLYSACCHARIDES IN THE AQUEOUS SOLUTION	online
11:40 - 11:50	Daria Barańska , J. Panek, M. Frąć EXPLORING BACTERIAL STRAINS FOR IMPROVEMENT OF QUALITY, SHELF-LIFE, AND RESISTANCE OF MICROGREENS	in pers.
Session 3 11:50 - 12:20	Biophysics and microbiology (Part 2) Chairman - prof. D. Rusirawan	in pers.
11:50 - 12:00	Adam Furtak , A. Szafranek-Nakonieczna, A. Pytlak MORE THAN JUST AN ACTIVE INGREDIENT - THE ROLE OF ADJUVANTS IN SHAPING THE RESPONSE OF THE SOIL MICROBIOTA TO A HERBICIDE	in pers.
12:00 - 12:10	Patrycja Pekala , M. Szymańska-Chargot, M. Kurzyna-Szklarek, J. Cybulska, A. Zdunek DEGREE OF ACETYLTATION OF PLANT CELL WALL POLYSACCHARIDES DURING APPLE RIPENING AND STORAGE	in pers.
12:10 - 12:20	Klaudia Zawadzka , Oszust K., Gryta A., Panek J., Pylak M., Lipa T., Frąć M. PHENOTYPIC ANALYSIS OF MICROBIAL COMMUNITIES IN APPLES AFFECTED BY BULL'S EYE ROT CAUSED BY NEOFABRAEA SP.	in pers.
12:20 - 13:10	Lunch time	
Session 4 13:10 - 14:20	Modern machinery and technical solutions (Part 1) Chairman - prof. I. Farkas	in pers.
13:10 - 13:20	Ratislav Kollárik , I. Vitázek ENHANCING DRIVER WELL-BEING: INNOVATIONS IN VEHICLE MICROCLIMATE CONTROL	online
13:20 - 13:30	Miloš Láznicka , J. Kumhálová, F. Kumhála POSSIBILITIES OF USING SAR DATA WITH NDVI	in pers.
13:30 - 13:40	Lukas Vacho , V. Madola, L. Tóth IMPACT OF SELECTED COLOURS MATERIAL TYPES ON THE MEASURED DISTANCE BY THE URG04LX LASER SCANNER	online
13:40 - 13:50	Lucia Boszorádová , M. Baráth, M. Kotus, V. Madola MECHANICAL PROPERTIES OF POLYMER COMPOSITE EFFECTED BY HEAT TREATMENT	online
13:50 - 14:00	Martina Hajková , L. Boszorádová, M. Baráth, M. Kotus INVESTIGATING THE TRIBOLOGICAL BEHAVIOR OF VARIOUS HARDFACING ALLOYS	online
14:00 - 14:10	Matěj Kohútek GUIDANCE OF AUTONOMOUS ROBOTIC SYSTEMS USING SIGNALS FROM SENSORS	in pers.
14:10 - 14:20	Aschenaki Altaye , P. Víg, I. Farkas EXAMINING THE PERFORMANCE OF COUNTERFLOW HEAT EXCHANGER FOR DIFFERENT GEOMETRIES WITH ANSYS CFX	in pers.
14:20 - 14:40	Coffee break	

Session 5	Energy from renewable sources (Part 2)	
14:40 - 16:05	Chairman - prof. L. Kubik	online
14:40 - 14:55	Istvan Farkas RECENT DEVELOPMENTS IN SOLAR THERMAL ENERGY: A GLOBAL PERSPECTIVE	in pers.
14:55 - 15:05	Nucha Anggraeni , I. Seres, I. Farkas MEASURING LIGHT SPECTRUM IN SEMI-TRANSPARENT PHOTOVOLTAIC TO OPTIMISE ENERGY CONVERSION	in pers.
15:05 - 15:15	Teklebrhan Negash , I. Seres, I. Farkas THE ROLE OF RESIDENTIAL PV ON LARGE-SCALE PHOTOVOLTAIC INTEGRATION	in pers.
15:15 - 15:25	Diki Permana , M.A. Mahardika, D. Rusirawan, I. Farkas FULL-TIME OPERATION OF PCM INTEGRATED SOLAR ORGANIC RANKINE CYCLE	in pers.
15:25 - 15:35	Piroska Vig EXAMINATION OF THE POLARIZATION AND SPECTRUM OF REFLECTED LIGHT AT SOLAR CELL	in pers.
15:35 - 15:45	QuanKun Zhu , I. Farkas, J. Buzas EXPERIMENTAL EVALUATION OF THE PERFORMANCE OF AN INDIRECT SOLAR DRYER	in pers.
15:45 - 15:55	Fares Touaref , I. Seres, I. Farkas ADVANCING SOLAR DESALINATION THROUGH A PORTABLE THERMOSOLAR CYLINDRO-PARABOLIC COLLECTOR	online
15:55 - 16:05	Halefom Kidane , I. Farkas, J. Buzás ENHANCING SOLAR AIR HEATER EFFICIENCY THROUGH COMPUTATIONAL FLUID DYNAMICS ANALYSIS	online
Session 6	Physics and informatics in agriculture	
16:05 - 16:45	Chairman - prof. J. Horabik	in pers.
16:05 - 16:15	Karolina Bielak , M. Beczek, A.Bieganowski THE CURRENT STATE OF KNOWLEDGE ON HOW MICROORGANISMS ARE TRANSPORTED BY SPLASH	in pers.
16:15 - 16:25	Maciej Kozyra , K. Lamorski, C. Stawiński COMPARISON OF DENOISING METHODS FOR UNSATURATED HYDRAULIC CONDUCTIVITY CALCULATED BY THE INSTANTANEOUS PROFILE METHOD USING REFERENCE DATA	in pers.
16:25 - 16:35	Vladimír Madola , L. Boszorádová, P. Hlaváč, M. Baráth, L. Vacho THE POTENTIAL OF INDUSTRY 4.0 IN PHYSICS RESEARCH	online
16:35 - 16:45	Jiří Marčan EXPLORING OF CONTEXT BETWEEN GROWING PLANTS AND CHANGE IN SOIL WITH USING INTERNET OF THING	in pers.
16:45 - 17:15	Istvan Seres , P. Vig EXPERIMENTS WITH ELECTROMAGNETISM	in pers.
17:15 - 17:20	Snack break	
17:20 -	Tour of the Lublin Old Town with dinner	

24th May 2024 (Friday)

Session 7	Modern machinery and technical solutions (Part 2)	
9:00 - 10:05	Chairman - prof. I. Seres	in pers.
9:00 - 9:15	Dani Rusirawan , I. Farkas INDONESIA RENEWABLE ENERGY SITUATION: REVIEW ON SOLAR ENERGY AND ITS CURRENT UTILIZATION	in pers.
9:15 - 9:25	M. Dhiaz Adristian , D. Rusirawan, A. Taufik VIBRATION ANALYSIS ON GAS TURBINE	on line
9:25 - 9:35	Mulyadi Dadang Mulyadi , N. Idayanti, N. Sudrajat, T. Kristiantoro, D. Rusirawan CHARACTERISTICS OF NDFEB BONDED MAGNETS FOR LOW SPEED GENERATORS	on line
9:35 - 9:45	A.M.M.B. Parenrengi , U.A. Albayumi, D.Rusirawan SYSTEM OF AGRIVOLTAIC: DEVELOPMENT OF SUB-SYSTEM ARDUINO MICROCONTROLLER AND PROGRAMMABLE LOGIC CONTROLLER	on line
9:45 - 9:55	Alfiando F. Adiguna , D. Rusirawan, A. Taufik RELIABILITY CENTERED MAINTENANCE STUDY ON DIESEL ENGINE	on line
9:55 - 10:05	Yohanes Antun , D. Rusirawan, A.Taufik RELIABILITY ASSESSMENT OF GAS TURBINE	on line
10:05 - 10:25	Coffee break	
Session 8	Modern machinery and technical solutions (Part 3)	
10:25 - 11:05	Chairman - prof. I. Farkas	in pers.
10:25 - 10:35	Limam Hartawan , D. Rusirawan, I. Farkas INCREASING COMMUNICATION RANGE OF AUTOMATIC SPRINKLER	online
10:35 - 10:45	Mochamad Ghatar Herlangga Sarvyso Muham , D. Rusirawan, A. Taufik INTEGRITY ASSESSMENT OF PIPING VIBRATION	online
10:45 - 10:55	Rifqi Samsudin , D. Rusirawan, A.Taufik RELIABILITY CENTERED MAINTENANCE STUDY ON GAS ENGINE	online
10:55 - 11:05	Gabriel Vendj , D. Rusirawan, A.Taufik RELIABILITY CENTERED MAINTENANCE (RCM) FOR STEAM TURBINE	online
11:05 - 11:25	Coffee break	
Session 9	Physical properties of agromaterials	
11:25 - 12:10	Chairman - prof. J. Horabik	in pers.
11:25 - 11:40	Lubomir Kubík , V. Madola FRACTAL ANALYSIS OF THE PELLET STRUCTURE	online
11:40 - 11:50	Jga Piasecka , E. Ostrowska-Ligeza, A. Wiktor, A. Górka EXTRACTION METHOD INFLUENCE ON THERMAL PROPERTIES OF BLACKBERRY SEED OIL	in pers.
11:50 - 12:00	Tianjing Ren , A. Ukalska-Jaruga, B. Smreczak, A. Cai DISSOLVED ORGANIC CARBON IN CROPLAND SOILS: A GLOBAL META-ANALYSIS OF MANAGEMENT EFFECTS	online
12:00 - 12:10	Daniela Kunecová , D. Husár D., V. Vozárová ENERGY ASSESSMENT OF THE SELECTED HAZARDOUS WASTE	online
12:10 - 12:20	Angelika Gryta , P. Boguta, J. Rutkowska, A. Adamczuk, K. Skic THE EFFECT OF DIFFERENT PYROLYSIS TEMPERATURES AND BIOMASS TYPES ON THE ELEMENTAL COMPOSITION OF BIOCHAR	in pers.
12:20 - 12:30	Martyna Krysa , M. Szymańska-Chargot, Zdunek A. SMART FOOD PACKAGING – PH RESPONSIVE BIOCOMPOSITES	in pers.
12:30 - 12:50	Closing BPS 2024 (conclusions, remarks)	
12:50 - 13:40	Lunch time	