

PROGRAM/AGENDA

Sesions: Wednesday: W1, W2, W3 & W4; Thursday: T1, T2, T3 & T4, Friday: F

<i>Hour</i>	12 June 2024, Wednesday Venue: New Technology Innovation Centre of the University of Life Sciences in Lublin - CIW, ul. Głęboka 28, Lublin
8.00-9.00	Registration of participants CIW, room 103 (first floor)
9.00-9.20	Opening of the Symposium
9.20-11.00	Sesja (Session) W1 –Chairpersons: Giacomo Scarascia-Mugnozza & Bruno Huyghebaert
9.20-9.35	ESG: Carbon and biodiversity a problem or an opportunity for smart agriculture? José Rafael Marques da Silva
9.35-9.50	Evaluation of changes in performance of bioethanol fuel cells Adam Ekielski, Maciej Joński, Tomasz Żelaziński
9.50-10.05	A new result-oriented Agri-Environmental and Climate Measure to improve the Organic Carbon status of agricultural soils in Wallonia (Belgium) Esther Goidts, Caroline Chartin, Brieuc Hardy Grégory Henrard1, Alexis Donceel1, Clémence Mariage, Gilles Colinet, Florence Ferber, Louis Gourlez de la Motte, Laurent Sertheyn, Frédéric Vanwindekens and Bruno Huyghebaert
10.05-10.20	The long-term effect of traffic and tillage on soil health, crop growth and yield, and farming economics in the UK Magdalena Kaczorowska-Dolowy, A.B. Prada Barrio, A. Millington, E. Pope, Edward Dickin, David R. White, Richard J. Godwin and P.A. Misiewicz
10.20-10.35	Future Farming – considering different local conditions Rainer Fuge
10.35-10.50	Time for presentation of companies
10.50-11.00	Discussion and closing of the session
11.00-11.30	Coffee break
11.30	Session W2 – Chairpersons: Jose Rafael Marques da Silva & Adam Ekielski
11.30-11.45	Agricultural Unmanned Ground Vehicle (UGV): A brief overview Alessia Farella, Francesco Paciolla, Tommaso Quartarella and Simone Pascuzzi
11.45-12.00	PATAT'UP: towards a low-input potato Ferial Ben Abdallah, Florine Decruyenaere, Charlotte Bataille, Vincent César, Fabienne Rabier and Vincent Berthet
12.00-12.15	Evaluating Heavy Metal Contamination in the Rehova Cu-mine Area for Sustainable Soil Management Arta Dollani, Enkeleda Shkurta, Fatbardh Sallaku and Seit Shallari
12.15-12.30	The energy future of the Lublin region: Modern strategies for the use of renewable energy sources Emilia Osmólska and Monika Stoma
12.30-12.40	Improved design of the working body of a flexible sectional screw conveyor Simone Pascuzzi, Volodymyr Bulgakov, Valerii Adamchuk, Oleksandra Trokhaniak, Janusz Nowak, Adolfs Rucins, Zinoviyy Ruzhilo, Francesco Paciolla
12.40-12.50	Theory of Operation of a Safety Finger Coupling Applied in the Drive of a Screw Conveyor for Bulk Agricultural Materials Volodymyr Bulgakov, Simone Pascuzzi, J. Olt, A. Almeida, O. Trokhaniak, Janusz Nowak, Ye. Ihnatiev, Z. Kiernicki, Tommaso Quartarella
12.50-13.00	Investigation of the Parameters of a Conveyor for Transportation of Bulk Agricultural Materials with a Bladed Working Body Volodymyr Bulgakov, Simone Pascuzzi, Oleksandra Trokhaniak, Adolfs Rucins, Janusz Nowak, Mykola Klendii and Alessia Farella
13.00	Closing of the session
13.00-13.10	Zdjęcie grupowe przed budynkiem CIW/Group photo (in front of the CIW building)
13.10-14.10	Lunch (CIW)
14.10	Paralell Sessions - W3 (room 103) – Chairpersons: Jean-Paul Douzals & Enkeleda Shkurta
14.10-14.25	UVC Rays devices mounted on autonomous terrestrial rovers: A brief overview Tommaso Quartarella, Alessia Farella, Francesco Paciolla and Simone Pascuzzi
14.30-14.45	Consumption of plant protection products as an indicator of agriculture intensity Ewa Matyjaszczyk
14.45-15.00	LATEST - EU Erasmus+ project on Local-focused AgTech Education for Successful Agricultural Transitions Paula A. Misiewicz, E. Marraccini, E. Maiulini, P. Ceccon, E. Gallmann, C. Hoffmann, M. Medici, C. Paulus, V. Vidric and M. Crook
15.00-15.15	Process of Selecting Corn Cob Cores During Grain Harvesting Dawid Wojcieszak, Tomasz Garbowski, Artur Pawłowski and Jacek Przybył
15.15-15.30	Assessment of the suitability of selected apple cultivars for production of cloudy juice Agata Blicharz-Kania and Anna Pecyna

15.30-15.45	Health safety assessment of water from dug and deep wells for nitrogen compounds Luiza Kubisiak-Banaszkiewicz, Wioletta Żukiewicz-Sobczak, Agnieszka Starek-Wójcicka and Paweł Sobczak
15.45-15.50	Measurement of Soil Density Asparuh Atanasov, Svilen Stoyanov and Stefan Tenev
15.50-15.55	Assessment of The Use of Drive Units of Agricultural Tractors Used on a Selected Farm in The Lublin Voivodeship Paweł Krzaczek and Ewa Stamirowska-Krzaczek
15.55-16.00	Evaluation of Engine Oil Degradation: Enhancing Cost Efficiency in Vehicle Fleet Maintenance Wojciech Gołębiowski, Artur Wolak and Grzegorz Zajac
16.00-16.05	Innovations in Corn planting: A Comparison of Strip-Till, No-Till, and Traditional Technologies in the Context of Climate Adaptation and Sustainable Development Katarzyna Łyp-Wrońska, Krystian Nowak and Agnieszka Dudziak
16.05-16.10	Monitoring and evaluation of the moisture retention of leached chernozem under different types of tillage Atanas Z. Atanasov, Plamena D. Nikolova and Boris I. Evstatiev
16.10-16.15	Sustainable development and food production from insects Zbigniew Kobus, Monika Krzywicka, Eva Ivanišová, Anna Pecyna, Alicja Bosacka and Katarzyna Kozłowicz
16.15-16.30	Discussion and closing of the session
14.10	Paralell Sessions - W4 (room 102) – Chairpersons: Gerhard Moitzi & Vivianne Planchon
14.10-14.25	A Romanian standpoint on minimum tillage soil system and prospects for an Sustainable Agriculture: A Review Cătălin Bogdan, Ovidiu Ranta, Alexandru Bogdan Ghețe, Ovidiu Marian and Irimie Gheorghe Claudiu Andraș
14.30-14.45	Soil Compaction and Maize Yield in Various Plowing Systems from a Sustainability Perspective Fran Gjoka, Enkeleda Shkurta and Elian Kasa
14.45-15.00	The role of monitoring and signaling in integrated crop protection Anna Tratwal, Marcin Baran and Kamila Roik
15.00-15.15	Effectiveness of biocoatings for ammonia emission from manure Rolandas Bleizgys, Vilma Naujokienė, Arvydas Povilaitis, Juozas Pekarskas and Ieva Knoknerienė
15.15-15.30	Performance evaluation of hybrid-electric architectures for agricultural tractors Francesco Paciolla, Pietro Patimisco, Alessia Farella, Tommaso Quartarella and Simone Pascuzzi
15.30-15.45	Pollen concentration data of <i>Xanthium</i> spp. between 2014 and 2019 in Hungary Viktor József Vojnich and Donát Magyar
15.45-15.50	Concentration of pollutants in the air of a cattle farm Mateusz Gancarz, Maciej Wilk, Sebastian Jaguszewski, Katarzyna Karpińska and Bożena Nowakowicz-Dębek
15.50-15.55	The market for renting tractors and agricultural machinery as an element of sustainable agriculture Sławomir Juściński
15.55-16.00	The Course of Changes in the Starch Index of Apples Calculated Using Selected Optical Instruments Tomasz Guz and Małgorzata Szczepanik
16.00-16.05	Assessment of the effectiveness of selected disinfectants against biological agents identified on the hands of cattle breeders Maciej Wilk, Mateusz Gancarz, Sebastian Jaguszewski, Mateusz Ossowski, Łukasz Wlazło, Katarzyna Karpińska and Bożena Nowakowicz-Dębek
16.05-16.10	Application of synthetic biostimulants on the example of Tytanit as one of the elements of sustainable agriculture Natalia Iwanicka, Anna Kocira and Rafał Kornas
16.10-16.15	On the path to sustainability: seeking new competences to face challenges of implementing sustainable processes. Polish chemical industry case study. Aleksandra Lis, Aneta Oleksy-Gębczyk, Anna Szelağ-Sikora, and Katarzyna Kowalska-Jarnot
16.15-16.30	Discussion and closing of the session
18.15	Bus from CIW to dinner in the Open Air Village Museum (skansen), ul. Agronomiczna 5 (side entrance)
19.00-22.00	Symposium dinner (casual wear)

13 June 2024, Thursday (T) Venue: Ball Packaging Europe Lublin, ul.Vetterów 14	
8.30	<i>Departure to Ball Packaging - CIW, ul. Głęboka 28</i>
9.00-9.20	Opening of sessions
9.20	Sesja (Session) T1 – Przewodniczący/Chairpersons: Paula Misiewicz & Viktor Vojnich
9.20-9.35	Design, Build and Testing of a Universal Wheel Torque Transducer for Agricultural Tractors Joseph Creswell McSparran and Sven Peets
9.35-9.50	The Use of Drones in Agriculture: Perspectives and Limitations Paweł Karpiński
9.50-10.05	Future perspectives of sensor-based real time fungicide and insecticide spraying from the point of view of the previous ATB results Karl-Heinz Dammer, Volker Dworak
10.05-10.20	Innovations in Agricultural Machinery Production: Integration of Photovoltaics and Energy Storage for Sustainable Development Krystian Nowak, Katarzyna Łyp-Wrońska and Agnieszka Dudziak
10.20-10.25	Optimization of the microwave extraction process in obtaining bioactive substances from plant raw materials Alicja Bosacka and Zbigniew Kobus
10.25-10.30	Assessment of slagging and fouling indicators for ashes from vine shoots Regent cultivar Grzegorz Maj, Kamila Klimek and Magdalena Kapłan
10.30	<i>Closing of the session</i>
10.30-10.50	<i>Coffee break</i>
10.50	Session T2 –Chairpersons: Rolandas Bleizgys & Fabienne Rabier
10.50-11.05	Recent development in the evaluation of the performance of 3D crop sprayers J.P. Douzals, O. Naud, S. Codis, A. Verges, F. Verpont
11.05-11.20	Noise effect of tractors purchased „second hand“ upon the agricultural workers Ivan Zahariev, Atanas Atanasov
11.20-11.35	Information processing systems to support integrated crop protection Marcin Baran, Kamila Roik and Anna Tratwal
11.35-11.40	Opportunity cost (cost of lost profits) as an element of decision-making analysis in prosumer energy Artur Kraszkiwicz
11.40-11.45	Monitoring the energy parameters of wood pellets available on the Polish market Grzegorz Zajac, Andrzej Kuranc and Joanna Szyszlak-Bargłowicz
11.45-11.50	Impact of Soil Erosion on Environmental and Agricultural Sustainability in Bovilla Watershed (Tirana, Albania) Fran Gjoka, Valmir Baloshi and Elvin Toromani
11.50-11.55	A system for precise diagnosis of diseases, pests and fertilization needs in horticultural production Michał Cupiał, Bogdan Kulig, Mirosław Maziarka, Anna Szelaż-Sikora and Aneta Oleksy-Gębczyk
11.55-12.00	Eco-innovation as a key element of progress within Industry 4.0 Klaudia Nowak, Monika Stoma and Emilia Osmólska
12.00	<i>Closing of the session</i>
12.00-12.30	Group A (English speaking participants) - Presentation of the company/ lunch
12.30-13.00	Group B (Polish speaking participants) - Lunch / presentation of the company
13.10	Session T3 – Chairpersons: Ewa Matyjaszczyk & Svilen Stoyanov
13.10-13.25	Development of a battery swapping and charging unit in servicing station for farming robot: A review Jüri Olt, Yevhen Ihnatiev, Andrei Jevtuševski, Tormi Lillerand and Indrek Virro
13.25-13.50	Field traffic-induced compaction effects on physical soil properties, plant vegetation index and crop yield on a Chernozem soil Gerhard Moitzi, Paul Riedl, Matthias Konzett, Thomas Weninger, Gernot Bodner, Helmut Wagenristl
13.50-14.05	The Structure From Motion algorithm - a vital part of Agriculture 4.0 Jacek Kapica, Nora Höfner, Mostafa Shokrian Zeini and Paweł Drozd
14.05-14.10	Effect of fertilization with digestate on crop yields: a review Małgorzata Szwed, Milan Koszel and Artur Przywara
14.10-14.15	Use of Fruit Pomace in the Production of Selected Cosmetics Patrycja Łusiak, Paweł Sobczak, Jacek Mazur, Monika Wójcik and Adrianna Romańska
14.15-14.20	<i>Discussion and closing of the session</i>

14.20-14.40	Coffe break
14.40	Session T4 – Chairpersons: Atanas Atanasov & Anna Tratwal
14.40-14.55	PRIOR'eau, a tool for spatializing the detection of plant protection products in Walloon water resources for prevention purposes Bergiers Guillaume, Durenne Bastien, Weickmans Bernard and Huyghebaert Bruno
14.55-15.10	Progress on PAE testing methods elaborated by Technical Working Groups (TWG) in frame of SPISE initiative Zbigniew Czaczyk, Jean-Paul D. Douzals, Jens K. Wegener, Jaco Kole, Nils Bjugstad and Pascal Pelt
15.10-15.25	Automatic classification of farmers' weather station siting based on geodata Sébastien Dandrifosse, Alban Jago, Valéry Michaud, Jean Pierre Huart, Damien Rosillon and Viviane Planchon
15.25-15.30	Potential of agrivoltaics in the Lublin region in the context of sustainable development Paweł Drozd and Jacek Kapica
15.30-15.35	Evaluation of the quality of operation of the autonomous sprayer XAG R 150 in currant cultivation Stanisław Parafiniuk, Łukasz Kopiński, Jacek Ogrodniczek, Paweł Karpiński, Fabienne Rabier and Alaa Subr
15.35-15.40	Good practices of working conditions oin the Agriculture 4.0 concept Agnieszka Buczaj and Piotr Maksym
15.40-15.55	The impact of the use of nanoparticles and Pulsed Electric Field on oilseeds Karolina Sokal and Magdalena Kachel
15.55-16.00	Influence of worldview factors on food consumers' purchasing decisions Aneta Oleksy – Gębczyk, Anna Szelağ – Sikora, Katarzyna Kowalska-Jarnot, Aleksandra Lis, Jakub Sikora ^a and Michał Cupiał
16.00-16.05	Development of poultry meat production and consumption levels in the light of environmental sustainability goals Anna Szelağ-Sikora, Aneta Oleksy-Gębczyk, Katarzyna Kowalska-Jarnot, Aleksandra Lis and Jakub Sikora
16.05-16.10	Education and research in agricultural engineering at Harper Adams University, UK Paula A. Misiewicz
16.10-16.15	The Impact of Waste Biofuels on the Emission Level of Selected Diesel Engine Exhaust Components Paweł Krzaczek
16.15-16.20	Reasons for not using the energy potential of residual biomass generated during the contour pruning of oil-bearing roses as heating fuel Ivan Zahariev, Atanas Atanasov
16.20-16.30	<i>Discussion and closing of the session</i>
16.30-16.40	<i>Closing of the symposium</i>
16.40	Departure to university
18.30-22.00	Social event (Restaurant Browar Lublin, Grodzka 15 Old Town Lublin) (casual wear)

14 June 2024, Friday (F) - Study Visits	
8.30	Departure/bus from CIW
~ 9.00 -	University experimental farm - Czesławice Pustelnia fish farming ponds – Wola Rudzka 34 Land of loess gorges – Kazimierz Dolny Castle & vineyard - Janowiec
~19.00	Arrival to hotels
Thank you for your participation in 12th symposium FMPMSA 2024, Lublin, POLAND	

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