

## Conference program

---

### 12 June 2026 – Scientific session in the Crystal Hall of the Warsaw University of Life Sciences (WULS-SGGW)

---

**8:00-10:00** – Crystal Hall of the WULS: registration, poster placement

**10:00 – 10:30** – The opening of the conference and the plenary session

**10:30 – 11:00** – *A century of research and future challenges at the Experimental Station in Skierniewice* – Jan Łabętowicz, Tomasz Niedziński, Beata Rutkowska, Tomasz Sosulski, Wojciech Stępień, Ewa Szara, Wiesław Szulc, Magdalena Szymańska, Wiktoria Wierzchowska (Warsaw University of Life Sciences – SGGW, Poland)

**11:00 – 11:30** – *The Rothamsted long-term experiments: past achievements and future opportunities* – Andrew Gregory, Paul Poulton, David Powlson, Margaret Glendining, Sarah Perryman, Richard Ostler, Steve McGrath, Jonathan Storkey, Laura Cárdenas, Ian Clark, Stephan Haefele, Vanessa Kavamura, Timothy Mauchline (Rothamsted Research, United Kingdom)

**11:30 – 12:00** – *An open-access (meta) data platform for long-term field experiments to support soil monitoring and assessment* – Cenk Dönmez, Carsten Hoffmann, Nikolai Svoboda, Xenia Specka, Igo Silva de Almeida, Valeh Khaledi, Katharina Helming (Leibniz Centre for Agricultural Landscape Research (ZALF); Eberswalde University for Sustainable Development; Germany)

**12:00 – 12:10** – Group photo

**12:10 – 12:45** – Coffee break / Poster session

#### Session 1

**Chairs:** Assoc. Prof. Stanisław Samborski, Dr. Ing. Pavel Čermák

**12:45 – 13:00** – *Knorr Holden Plot – the longest running irrigated continuous maize fertility experiment* – Bijesh Maharjan

**13:00 – 13:15** – *Insights from Lithuanian long-term soil management experiments: soil organic matter stability and carbon sequestration* – Vaclovas Bogužas, Žita Kriauciūnienė, Aušra Marcinkevičienė, Rimantas Vaisvalavičius, Vaida Steponavičienė, Lina Skinulienė, Edyta Hewelke, Lilla Mielnik, Riccardo Spaccini, Dariusz Gozdowski, Marek Podlasiński, Irmina Ćwieliąg-Piasecka, Elżbieta Jamroz, Maria Jerzykiewicz, Aneta Perzanowska, Magdalena Dębicka, Agata Gryta, Jacek Panek, Dominika Siegieda, Karolina Oszust, Giorgia Pertile, Yakov Kuzyakov, Magdalena Frąć, Jerzy Weber

**13:15 – 13:30** – *Past, present and future of the Hungarian long-term experiments, and main conclusions from acidic sandy soil* – Marianna Makádi, Márton Jolánkai, Csilla Almási, Viktória Orosz, Ibolya Demeter, Zsolt Bogdányi, Tamás Szegi, Khalid Suleiman Ibrahim, Katalin M. Kassai, István Henzsel

**13:30 – 13:45** – *69 years of fertilization experiment in Brody with cultivation of plants in crop rotation and monoculture* – Zuzanna Sawinska, Andrzej Blecharczyk, Tomasz Piechota, Dominika Radzikowska-Kujawska, Stanisław Świtek, Wojciech Waniorek

**13:45 – 14:00** – *Organic carbon and nutrient distribution in long-term field experiment with different soil tillage practices* – Gabriela Mühlbachová, Helena Kusá, Pavel Růžek, Radek Vavera

**14:00 – 15:30** – Lunch (Crystal Hall of the WULS)

## Session 2

**Chairs:** Assoc. Prof. Zuzanna Sawinska, Prof. Bijesh Maharjan

**15:30 – 15:45** – Soil management effects on soil organic matter quality and -storage: evidence from long-term experiments in Poland and Lithuania and sophisticated analytical methods – Peter K. Leinweber, Aneta Perzanowska, Vaclovas Boguzas

**15:45 – 16:00** – Selected properties of black earths and winter wheat yield after 70 years of different fertilization and crop rotation – Irena Suwara, Dariusz Gozdowski, Aneta Perzanowska, Szymon Młynek

**16:00 – 16:15** – Seasonal variation of basal soil respiration under long-term sewage sludge compost application in acidic sandy soil – Khalid Suleiman Ibrahim, Tamás Szegi, András Sebők, Réka Döbröntey, Viktória Labancz, Csilla Almási, Viktória Orosz, Ibolya Demeter, István Henzsel, Yuri Andrei Gelsleichter, Péter Molnár, Boglárka Szála, Bence Paulisz, Janka Szabó, Marianna Makádi

**16:15 – 16:30** – Long-term field experiments in response to new challenges in agriculture: a multi-indicator assessment of carbon farming practices – Beata Jurga, Ryszard Winiarski, Tamara Jadczyzyn, Piotr Jurga, Anna Gałazka

**16:30 – 17:00** – Coffee break / Poster session

## Session 3

**Chairs:** Prof. Józef Chojnicki, Prof. Rimantas Vaisvalavičius

**17:00 – 17:15** – Kernza in Wyoming, USA: perennial grains for vulnerable lands – Urszula Norton, Hannah R. Rodgers

**17:15 – 17:30** – Cereal crop productivity under different management intensity in long term field experiment – Virmantas Povilaitis, Renaldas Žydelis

**17:30 – 17:45** – Soil management effects on soil chemistry and water infiltration in different tillage – Elizaveta Watzlová, Pavel Čermák

**17:45 – 18:00** – Effects of soil tillage, catch crops and soil conditioners on epigeic arthropods in a 60-year winter rye monoculture – Olena Niszczak, Jacek Twardowski, Roman Wacławowicz, Iwona Gruss, Kamila Twardowska, Joanna Magiera-Dulewicz

**18:00 – 21:00** – Banquet (Crystal Hall of the WULS)

---

## 13 June 2026 – Conference and field session at the Experimental Station in Skierniewice

---

**8:00** – Coach departure from Warsaw to Skierniewice (meeting place: Crystal Hall of the WULS)

**8:00 – 10:00** – Transfer from Warsaw to Skierniewice

**10:00 – 10:30** – Coffee buffet / Welcome to the Experimental Station in Skierniewice

**Session:** field experiments at the Experimental Station in Skierniewice

**10:30 – 11:00** – Long-term field experiments in Skierniewice – Dr. Tomasz Niedziński et al.

**11:00 – 11:30** – Long-term field experiments in Chyllice – Dr. Aneta Perzanowska et al.

**11:30 – 12:00** – Field experiments in Miedniewice – Dr. Beata Michalska Klimczak et al.

**12:00 – 12:30** – Summary of the conference

**12:30 – 14:00** – Lunch

**14:00 – 16:30** – Visit to long-term agricultural experiments in Skierniewice, Agricultural Experimentation History Room, soils in the area of long-term experiments, company demonstrations

**16:30 – 17:00** – Coffee buffet

**17:00 – 19:00** – Transfer from Skierniewice to Warsaw

## Posters

(arranged alphabetically according to the first author's surnames)

1. **Sugar beet yields in the 6th rotation of sugar beet – winter wheat – winter rapeseed**  
- Arkadiusz Artyszak, Dariusz Gozdowski
2. **The influence of different soil tillage systems on weed flora and soil seed bank**  
- Ona Auškalnienė, Gražina Kadžienė, Skaidrė Supronienė, Ieva Banytė
3. **Spent mushroom substrate – properties and effect on agricultural soils**  
- Marcin Becher, Adam Matyszczak, Ewa Trzcińska, Dawid Jaremko
4. **Optimization of fertilization processes under environmental stress conditions: results of work on the innovative POLIST® biomineral formula**  
- Magdalena Białomazur, Krzysztof Czachór, Dariusz Dojss, Beata Furmańczyk, Izabella Jasińska, Piotr Jaworski, Anna Kaleta, Jadwiga Kaniecka, Monika Karsznia, Kornelia Malarczyk-Matusiak, Piotr Masztalerz, Krzysztof Sokółowski, Aleksandra Wasilewska, Edyta Zielińska, Monika Zienkiewicz
5. **Changes in yield, species composition and utility value of meadow sward in long-term use in conventional and organic systems under conditions of silicon application**  
- Barbara Borawska-Jarmułowicz, Grażyna Mastalerczuk
6. **The calculation of GHG emissions - crop & animal production**  
- Pavel Čermák, Magdalena Štolcová, Martin Dědina, Petr Jevič, Tomáš Lošák
7. **Typology and agricultural suitability of soils at the Miedniewice field in the Experimental Station of the Institute of Agriculture, Warsaw University of Life Sciences – SGGW**  
- Józef Chojnicki, Wojciech Stępień, Wojciech Kwasowski, Łukasz Uzarowicz
8. **Impact of different botanical compositions of cover crop mixtures for managing soil quality**  
- Auksė Daukšytė, Aušra Marcinkevičienė, Rimantas Vaisvalavičius, Rimantas Velička, Robertas Kosteckas
9. **The influence of different intensities of tillage and crop rotations on soil CO<sub>2</sub> exchange rate**  
- Irena Deveikytė, Virginijus Feiza, Vytautas Seibutis
10. **Organic matter properties of Luvisol of 40-year fertilizer experiment**  
- Bożena Dębska, Magdalena Banach-Szott, Wojciech Kozera, Tomasz Knapowski
11. **Soybean yield response to spatial arrangement**  
- Ewelina Flis-Olszewska, Dominika Skiba
12. **Assessment of changes in biological activity and genetic diversity of microorganisms after biochar application in cereal cultivation**  
- Anna Gałązka, Karolina Gawryjotek, Jarosław Ciepiał, Anna Marzec-Grządziel, Krzysztof Jończyk
13. **The use of waste for fertilization in accordance with regulations – possibilities and limitations**  
- Tamara Jadczyzyn
14. **Reaction of common winter wheat to foliar fertilization with micronutrients**  
- Wacław Jarecki
15. **The influence of mineral nitrogen fertilization in the form of YaraBela Sulfan, Ammonium nitrate and Saletrosan®26 fertilizers on the grain yield and yield components of winter rye**  
- Anna Jaroszevska, Magdalena Sobolewska, Marek Bury
16. **The response of winter rapeseed to varied fertilisation in a long-term static experiment**  
- Iwona Jaskulska, Dariusz Jaskulski,
17. **Organic carbon and water management in soil in a long-term soil tillage experiment**  
- Dariusz Jaskulski, Iwona Jaskulska, Emilian Różniak
18. **Carbon and nitrogen responses to sowing methods, tillage intensity, and cover crops in winter oilseed rape**  
- Birute Jomantaite, Jurgita Ceseviciene, Marlo Jimenez, Gražina Kadziene
19. **The production and environmental impacts of organic and conventional farming systems**  
- Krzysztof Jończyk, Adam Berbeć
20. **Impact of long-term tillage and inter-cropping systems on soil organic carbon content and stratification of humified fractions**  
- Gražina Kadžienė, Alvyra Šlepetienė, Aida Skersienė, Arman Shamshitov, Ona Auškalnienė, Simona Pranaitienė, Skaidrė Supronienė
21. **Development of technologies for recovering nutrients from secondary raw materials: barriers and challenges**  
- Monika Karsznia, Piotr Skowron, Damian Wach, Aleksandra Bibow, Agata Witorożec-Piechnik, Elina Tampio, Johanna Laakso

22. **Strategic assessment of nutrient recovery technologies: results of the SWOT analysis of the FERTITEC project**  
- *Monika Karsznia, Damian Wach, Piotr Skowron, Agata Witorożec-Piechnik, Aleksandra Bibow*
23. **Selected soil properties after the 11th crop rotation in a long-term fertilizer experiment**  
- *Tomasz Knapowski, Wojciech Kozera, Magdalena Banach-Szott, Bożena Dębska*
24. **Long-term field experiments as a tool for assessing the impact of fertilization and plant selection on the content of polycyclic aromatic hydrocarbons (PAHs) in the soil**  
- *Stawomir Józef Krzebietke, Ewa Mackiewicz, Piotr Jarostaw Żarczyński, Stanisław Sienkiewicz*
25. **The productivity of maize cultivated in multi-year monoculture depending on soil presowing methods**  
- *Jerzy Książak, Jolanta Bojarszczuk*
26. **The influence of long-term crop rotation on selected physical properties of light soil**  
- *Anna Lehmann-Skoczylas, Wiesław Wojciechowski, Roman Wactawowicz*
27. **Precision agriculture technologies for supporting crop management decisions: a case study based on UAV imagery and autonomous field robots**  
- *Renata Leszczyńska, Danuta Leszczyńska*
28. **Influence of diversified seed material on canopy characteristics and yielding of sugar beet**  
- *Joanna Leśniewska-Mućko, Zdzisław Wyszyński, Kinga Noras, Beata Michalska-Klimczak*
29. **Cation exchange capacity under long-term application of pig slurry and mineral fertilizers**  
- *Remigiusz Łukowiak, Lukáš Hlisnikovský, Przemysław Bartóg*
30. **The efficiency of organic waste utilization in the production of biomass from selected C4 grass species**  
- *Elżbieta Malinowska, Milena Truba*
31. **Assessment of the durability of selected grass species in anthropogenically modified soil conditions depending on silicon application**  
- *Grażyna Mastalerczuk, Barbara Borawska-Jarmutowicz, Ewa Szara, Aneta Perzanowska*
32. **Effect of different tillage and mustard cover crops on soil health: microbial diversity and pathogen suppression**  
- *Neringa Matelionienė, Gražina Kadžienė, Arman Shamshitov, Inga Tamošiūnė, Danas Baniulis, Skaidrė Supronienė*
33. **Reduced nitrogen fertilization and diversified crop rotations with legumes: effects on winter wheat yield and grain quality under different tillage intensities**  
- *Klaudija Meižienė, Gražina Kadžienė, Agnė Veršulienė*
34. **Field evaluation of waste-based liquid organic fertilizers for blueberry cultivation**  
- *Edvinas Meižys, Donata Drapanauskaitė*
35. **Effects of cropping systems and tillage on yield and grain quality of winter wheat in central Poland**  
- *Beata Michalska-Klimczak, Aneta Perzanowska, Paweł Szacki, Patrycja Ojdowska, Marcin Studnicki*
36. **Effects of sensor-based and NDVI-supported nitrogen management on soil nitrogen dynamics and use efficiency in winter wheat**  
- *Romutė Mikučionienė*
37. **Comparison of the impact of long-term use of tillage systems on some soil chemical properties in integrated farm management**  
- *Szymon Młynek, Irena Suwara*
38. **Influence of recycled organic waste amendments on carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>) fluxes in sandy soil**  
- *Tomasz Niedziński, Wiesław Szulc, Elena Maestri, Paolo Pesaresi, Stefan Shilev, Virmantas Povilaitis, Renaldas Žydelis, Monica Guarino Amato, Valeria Terzi, Stefania Tomasiello, Evelin Loit, Rocio Millán, Thomas Schmid, Aser Garcia, Mustafa Avcı, Marina Caldara, Marta Marmioli, Nelson Marmioli, Beata Rutkowska*
39. **Manure stabilization rather than total nitrogen drives soil functioning and maize biomass response**  
- *Tomasz Niedziński, Martin Brtnický, Jiri Holatko, Jiri Kucerik*
40. **Carbon sequestration potential in Luvisols under long-term field experiment conditions – the role of crop rotation and fertilization**  
- *Jacek Niedźwiecki, Dorota Pikuła*
41. **Stability of grain yield, yield components, and selected grain quality traits of winter wheat based on a 15-year field experiment**  
- *Patrycja Ojdowska, Adriana Derejko, Alicja Sutek, Marcin Studnicki*
42. **Effect of an integrated cropping system on the stability of winter wheat yield**  
- *Patrycja Ojdowska, Beata Michalska-Klimczak, Adriana Derejko, Aneta Perzanowska, Marcin Studnicki*

- 43. Yield and grain quality characteristics of common wheat, durum wheat and spelt in organic and integrated farming systems**  
- Krzysztof Pałowski, Beata Michalska-Klimczak, Zdzisław Wyszyński, Alicja Ponder, Ewa Rembiałkowska, Renata Kazimierczak, Ewelina Hallmann, Klaudia Kopczyńska
- 44. Some properties of bottom sediments in mid-field reservoirs in the aspect of their agricultural application**  
- Krzysztof Pakuła, Robert Rosa, Jacek Sosnowski, Paweł Kifer
- 45. 40-year field experiments with crop rotations at the Agricultural Experimental Station in Grabów**  
- Dorota Pikuła
- 46. Structure of mineral fertilizers consumption in farms of the Podkarpackie Voivodeship**  
- Anna Podleśna, Janusz Podleśny
- 47. The effect of mineral and organic fertilization on phosphorus concentration in different type of soils**  
- Anna Podleśna, Janusz Podleśny
- 48. Effect of long-term differential fertilisation on physiological properties and yield of pea (*Pisum sativum* L.)**  
- Dominika Radzikowska-Kujawska, Andrzej Blecharczyk, Przemysław Łukasz Kowalczewski, Zuzanna Sawinska
- 49. Wood biomass ash (WBA) as a secondary source of nutrients in hemp cultivation**  
- Elżbieta Rolka, Wiesław Szulc, Mirosław Wyszkowski
- 50. The impact of long-term unbalanced fertilization with nitrogen, phosphorus and potassium on plant productivity and soil fertility**  
- Agnieszka Rutkowska
- 51. The influence of the choice of tillage method and shortening of crop rotation on the abundance of earthworm populations in Central Lithuanian Cambisol**  
- Vytautas Seibutis, Irena Deveikytė
- 52. Structure and yield of *Helianthus tuberosus* tubers in response to mineral fertilization**  
- Dominika Skiba, Ewelina Flis-Olszewska
- 53. Removal of biological contaminants from fertilization-grade organic waste using phytosanitation techniques**  
- Piotr Skowron, Damian Wach, Monika Karsznia, Tomasz Cencek, Jolanta Zdybel
- 54. Fractional deep tillage – an innovative, technical solution for climate mitigation in arable soils**  
- Michael Sommer, Marisa R. Gerriets
- 55. Long-term complex effects of no-till, plant residues, and cover crops on soil health and crop yield**  
- Vaida Steponavičienė, Giedrius Žiūraitis, Vaclovas Bogužas
- 56. The effect of weed and pathogen protection levels on the yielding of winter wheat grown in crop rotation and monoculture**  
- Arkadiusz Stępień, Marek Marks, Wojciech Biniewicz
- 57. The effect of agricultural organic waste amendments on the physical and chemical properties of light soil**  
- Wiesław Szulc, Evelin Loit, Michel Mench, Virmantas Povilaitis, Francois Rineau, Beata Rutkowska, Peter Schröder, Kristjan Tiideberg, Tomasz Niedziński, Zydelis Renaldas
- 58. Effects of fertilization and crop rotation on arbuscular mycorrhizal colonization of wheat roots and glomalin-related soil proteins content**  
- Magdalena Szymańska, Tomasz Sosulski, Marzena Sujkowska-Rybikowska, Anna Rusaczonok
- 59. Natural radioactivity and heavy metals in mineral fertilizers used in Poland**  
- Mirosław Szytak-Szydłowski, Aneta Łukaszek-Chmielewska, Barbara Piotrowska, Łukasz Uzarowicz
- 60. Long-term experiments as a foundation for researching and disseminating the regenerative agriculture approach**  
- Stanisław Świtek, Dominika Radzikowska-Kujawska, Andrzej Blecharczyk, Zuzanna Sawinska
- 61. Physicochemical properties of soil in agricultural crops as influenced by the application of rock cellulose pellets (RCP) and wood chips**  
- Jadwiga Treder, Nowak Jacek, Magdalena Szczech, Beata Kowalska, Jarosław Kozak, Mateusz Szar, Wojciech Spisak
- 62. Effects of long-term monoculture and crop rotation on soil mesofauna in potato and winter rye systems in Experimental Station in Skierniewice**  
- Jacek Twardowski, Iwona Gruss, Michał Hurej, Olena Niszczak
- 63. Cereal-legume intercropping effects on mycorrhizal abundance and C, N allocation within the root systems**  
- Agnė Veršulienė, Aida Skersienė, Monika Toleikienė, Anke Herrmann
- 64. Evaluation of struvite and ammonium sulphate solution recovered from biowaste processing in spring wheat and maize cultivation**  
- Damian Wach, Piotr Skowron, Monika Karsznia
- 65. Agronomic value of plant-based digestate pellets in maize cultivation**  
- Damian Wach, Piotr Skowron, Monika Karsznia

- 66. Effects of spring barley cultivation system on soil physical properties**  
- Roman Wacławowicz, Magdalena Giemza, Piotr Kuc, Anna Lehmann-Skoczylas
- 67. The relationship between soil organic matter and soil aggregate stability**  
- Elizaveta Watzlová, Pavel Čermák
- 68. The effect of the interaction of mushroom substrate with mineral fertilization on the bioaccumulation of phosphorus and calcium in the biomass of *Festulolium braunii* (K.Richt.) A. Camus**  
- Beata Wiśniewska-Kadžajan, Andrzej Wysokiński
- 69. Colour-based predictors of susceptibility to seed shattering in meadow fescue (*Festuca pratensis* Huds.)**  
- Tomasz Wójtowicz, Andrzej Zieliński
- 70. The effect of different soil tillage systems on the weed infestation of cereals and sugar beet**  
- Anna Wyszutek, Agnieszka Ciesielska, Irena Suwara
- 71. Selected sulphur management indicators from the four-leaf stage to full maturity of pea (*Pisum sativum* L.)**  
- Andrzej Wysokiński, Beata Wiśniewska, Izabela Łozak

## **Oral presentations and posters**

- Oral presentations and posters must be prepared in English.
- Oral presentations must be prepared in PDF, PPT, or PPTX file format. Slide size must be 16:9. Presentation duration must be 12 minutes + 3 minutes for discussion.
- Posters must be prepared in printed form. The maximum poster size is: 1000 mm (height) × 707 mm (width) (B1 format)