



Announcement II

14. International Symposium
Microelements
in agriculture and in the environment

associated with the jubilee of Professor Zofia Spiak

mikroelementy.eu

organized by

Institute of Soil Science, Plant Nutrition and Environmental Protection,
Wrocław University of Environmental and Life Sciences



under the patronage
of Rector of Wrocław University of Environmental and Life Sciences
Professor Jarosław Bosy

in cooperation with
Soil Science Society of Poland - Wrocław Division
and Leading Research Group AgrEn
Wrocław University of Environmental and Life Sciences

Wrocław
June 22-25, 2022

Programme

Wednesday, June 22, 2022

18.00-20.00 Get-together, Wrocław University of Environmental and Life Sciences, the building of Centre for Teaching and Research, Wrocław, pl. Grunwaldzki 24a

Thursday, June 23, 2022

Leading topic: Micronutrients in agriculture

9.00-9.15 Opening ceremony

9.15-10.45 **Session dedicated to the scientific achievements of Prof. Zofia Spiak**

10.45-11.15 Coffee break

11.15-12.45 **Plenary session**

- Ismail Cakmak: Hidden hunger still persists worldwide in human populations: now is the time for a micronutrient fertilizer strategy
- Malcolm Hawkesford: Genetics and physiology of micronutrient capture by crops
- Thomas Eichert: Foliar uptake of micronutrients

12.45-14.30 Lunch

14.30-16.00 **Plenary session**

- Beata Rutkowska: Agrotechnical biofortification as a method to increase selenium content in cultivated plants
- Łukasz Skoczylas: Biofortification of plants with iodine, plant homologues of thyroid hormones. Processing of iodine enriched vegetables
- Ewelina Klem-Marciniak: Chelate micronutrient fertilizers- current problems and prospects for new technologies of their production

16.00-16.30 **Poster session** (part 1)

16.30-17.30 **Plenary session** (communications)

- Aleksandra Badora: Trace elements in the environment and silent hunger
- Jozef Kobza: Microelements in agricultural soils in Slovakia
- Jolanta Korzeniowska: A new system for fertilizing with micronutrients in Poland

19.30-24.00 Gala Dinner

Friday, June 24, 2022
Leading topic: Trace elements in the environment

9.00-10.30 Plenary session

- Filip Tack: Controlling the uptake of Cd in leafy vegetables
- Vladislav Chrastný: Stable metal isotopes as a tool to trace soil contamination
- Michel Mench: Phytomanagement of metal(loid)-contaminated soils: from the concept to the real world.

10.30-11.00 Coffee break

11.00-12.30 Plenary session (communications)

- Wiesław Fiałkiewicz: Assessment of the spatial variability of soil soluble forms of micronutrients
- Cezary Kabała: Long-term monitoring of soil contamination around the copper smelter - benefits and methodological traps.
- Florian Gambuś: Relationship between soil pollution and myocardial infarction in urban Krakow (Poland)
- Krystyna Ciarkowska: Native plant communities usefulness in phytoremediation of Zn-Pb ores mining impacted areas

12.30-14.00 Lunch

14.00-15.45 Parallel thematic sessions

Detailed programme of parallel sessions is provided further in the announcement

- Session 1. Microelements in agricultural systems
- Session 2. Trace elements in contaminated environments

15.45-16.30 Poster session (part 2)

16.30-17.15 Plenary session. Summary of poster session. Final discussion and conclusions

19.00-23.00 Barbecue (Centre for Education and Development, Wrocław-Pawłowice)

Saturday, June 25, 2022

8.00-8.30 Breakfast (in hotel)

8.30-20.30 Post-conference tour

Soil contamination with trace elements and remediation measures applied in the areas affected by copper ore mining and processing. Reclamation and revitalization of copper tailings impoundments.

Lectures and communications

The main conference language is English. This does not apply to the jubilee session devoted to the scientific achievements of Prof. Zofia Spiak, in which only brief information in English will be provided.

Time assigned for lectures and communications:

- plenary lectures: 25 minutes,
- plenary communications and communications in parallel sessions: 15 minutes.

After each of the lectures and communications, there will be a few minutes for questions and a short discussion. The plenary discussion is scheduled for June 24 at 16.30.

All lectures and communications should be prepared in the form of a computer presentation in a Power Point (or compatible) format and delivered to the organizers in electronic form no later than half an hour before the session begins.

List of contributions (communications) qualified for presentation in the parallel sessions:

Section 1. Microelements in agricultural systems

- E. Stanisławska-Glubiak: Assessment of the needs of micronutrients fertilization of arable crops with the use of the InterNaw program.
- T. Wilk: Stability of biodegradable micronutrient complexes and their influence on wheat grain yield and Nitrogen Use Efficiency (NUE)
- J. Diatta: Response of wheat to digestate-based soil improvers – shoot/root Cu, Zn, Mn, Fe prospects
- W. Stępień et al.: Content of selected microelements in 3 soil horizons of the long-term fertilization experiments in Skierniewice
- J. Jończak et al.: Trace elements in a silver birch litterfall at post-arable stands
- M. Czaplicka & P. Chochura. Assessment of micronutrients content in leaves of grapevines grown in Lower Silesia district

Section 2. Trace elements in contaminated environments

- R. Tyszka: Heavy minerals in smelter polluted soils: potential insight into toxic elements mobilization
- K. Lewińska: Arsenic in the lower valley of the Trująca stream
- S. Ligęza & J. Gmitrowicz-Iwan: Non-toxic sediments and toxic soils? Climate changes in the Vistula River valley
- A. Baran: Usefulness of geochemical and ecological indices in assessment of trace elements contamination of bottom sediments
- A. Szada-Borzyszkowska: Phytomanagement options for Miscanthus biomass grown on soils contaminated with heavy metals
- B. Rustowska: Long-term wildfire effect on trace elements accumulation in a silver birch (*Betula pendula* Roth.) biomass

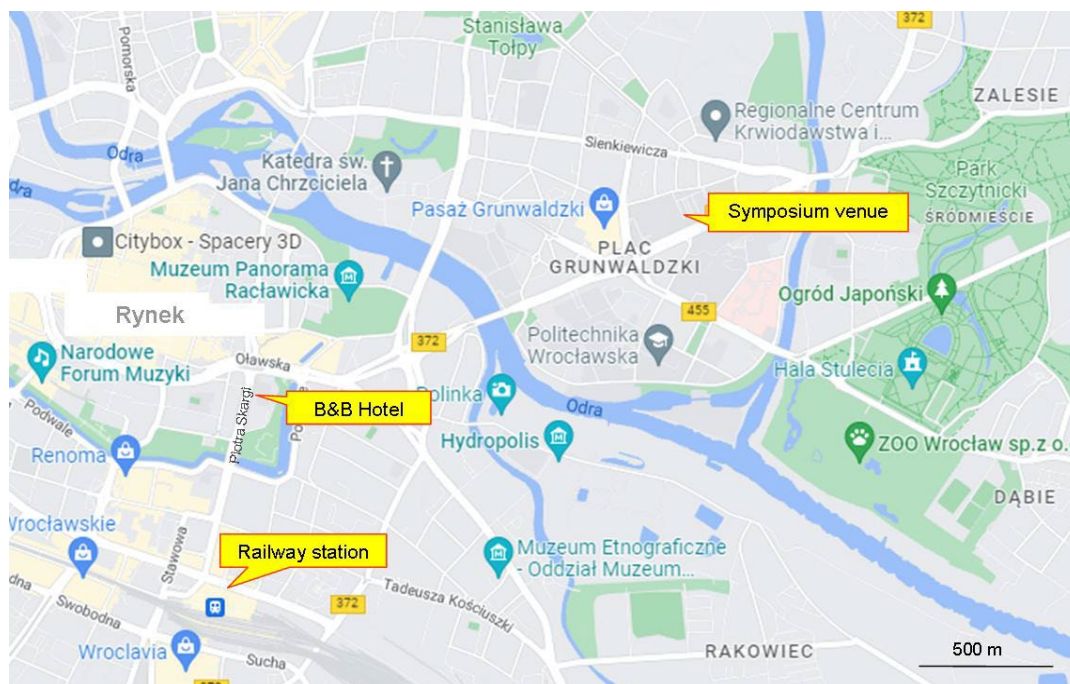
Posters

Posters should be printed in the B1 portrait format (size 70 x 100 cm) or smaller. Posters should be mounted on numbered boards before the beginning of Part 1 of the poster session (June 23, 16.00) and displayed until the end of Part 2 (June 24, 16.30). The organizers will provide assistance in mounting the posters.

Accommodation

Conference participants are accommodated at the B&B hotel (Wrocław, Piotra Skargi 24-28), in the option of bed and breakfast. The hotel has a limited number of car parking spaces. The conference fee does not include the costs of using the hotel parking lot.

Transportation of the Symposium participants from the hotel to the conference venue - on their own. The organizers recommend using public transport (www.wroclaw.pl/en/transport-in-wroclaw). The hotel is located in the immediate vicinity of the Galeria Dominikańska junction. Access from the hotel to the conference venue (pl. Grunwaldzki) by trams 2, 4, 9, 10, 17, 33, travel time (depending on the route: 7-15 minutes).



General information

Registration of participants: the building of the Teaching and Research Center of the University of Life Sciences in Wrocław, Grunwaldzki sq. 24a, on Wednesday 22.06 from 17.00 and on Thursday 23.06 from 8.00. All sessions will be held in that building.

Requests regarding room sharing or a special diet (e.g. vegetarian diet) should be submitted by e-mail or by phone to the Symposium secretariat.

Registration for the conference is still possible, subject to prior agreement with the secretariat. It is also still possible to register for a post-conference tour - as long as there are free seats on the coach.

Bank account: PKO BP S.A. Wrocław, No: PL 62 1020 5242 0000 2102 0029 2045 with a note D120 / 0012/19 + full name of the participant

Contact:

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