

43rd ICPPS programme

25 May 2026, Monday, Warsaw

09:00-11:00 – Registration (Faculty of Biology UW, ul. Miecznikowa 1, Warsaw)

12:00-12:30 – Inauguration of the conference (Lecture Hall 9B)

12.30-14:30 – **Opening session with invited speakers**

- Judit Padisák

Ecological and evolutionary challenges of life in suspension and implications of climate change.

- Hanna Mazur-Marzec

Microalgae secondary metabolites – current knowledge and future prospects.

14:30-15:30 – Lunch

15:30-16:30 – Transport to Powsin

16:30-18:00 – Guided excursion to the Botanical Garden in Powsin

18:00-19:00 – Bus leaves for Falenty (Green Garden Hotel, ul. Droga Hrabaska 50, Falenty)

19:30 – Dinner

26 May 2026, Tuesday, Falenty

07:30-09:00 – Breakfast

09:00-09:35 – **Opening lecture:** Frederik Leliaert

Algal biodiversity knowledge as a foundation for understanding global environmental change

09:35-11:05 – **Oral Session 1: Diversity of algae and cyanobacteria in various environments**

(chair: Beata Messyasz)

09:35 Joanna Mankiewicz-Boczek Does it matter where we live? - The impact of climate zones and anthropogenic pressure on the diversity of toxic cyanobacteria and bacterial communities

09:50 Natalia Kochman-Kędziara Diversity patterns – diatom communities in mountain streams of the Gorce National Park

09:05 Michaela Wipplingerová Amazing Novohradské mountains and their outstanding algae: checklist and stream dynamics pilot ecological study

09:20 Cyprian Kowalczyk Diatom-based reconstruction of extreme coastal events in a brackish lake from the Burin Peninsula (Newfoundland, Canada)

09:35 Ospanova Zhanna Biodiversity of algaeflora of the Koshkar Ata river in Shymkent, southern Kazakhstan

09:50 Julia Sulkowska Diversity of diatoms in springs of the ecotonal zone

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11:05-11:30 – Coffee break

11:30-13:30 – **Oral Session 2: Diversity and taxonomy - phylogenetic and phylogenomic approach**

(chair: Jan Kaštovský)

- 11:30 Sulastri Arsad Morphological and molecular characterization of *Plagiogramma minus* var. *nanum* from tropical Sulawesi, Indonesia
- 11:45 Jeffrey R. Johansen Horizontal gene transfer and reciprocal chimaerism in *Compactonostoc* (Nostocales, Cyanobacteriophyta) with evidence for two new species in the genus.
- 12:00 Petr Dvořák Genomic signatures of ecological speciation in globally distributed cyanobacterium *Microcoleus*
- 12:15 Svatopluk Skoupý Diversity and adaptation: the genomic insights into dryland soil crusts
- 12:30 Marta Sałek Environmental drivers of freshwater microalgal diversity: large-scale metabarcoding and single-cell microbiome analyses
- 12:45 Maja Łukomska-Kowalczyk Hidden diversity of autotrophic euglenids in southern Africa
- 13:00 Iwona Jasser Diversity, taxonomic structure and functional potential of microorganisms in Biological Soil Crusts under hyperarid and nutrient-deficient conditions in high-altitude glacier valley in the East Pamirs, Tajikistan
- 13:15 Agnieszka Rudak Revealing the full picture - cyanobacterial and phototrophic diversity of ponds in eastern pamir mountains by comparison of amplicon-based and metagenomic methods

13:30-14:30 – Lunch

14:30-16:30 – Excursion to the nature reserve „Raszyn ponds.” (coffee break afterwards)

16:30-18:00 – **Oral Session 3: Harmful algal blooms and invasions, physiology, microbiomes, ecology, and toxins**

(chair: Mikołaj Kokociński)

- 16:30 Małgorzata Sandzewicz Comparison of diversity and structure of cyanobacteria in microbial mats and biocrusts from cold and hot deserts
- 16:45 Arnaldo Font-Najera Hidden threats in cyanobacterial blooms: Intercontinental evidence of potential pathogens and antibiotic resistance genes
- 17:00 Judita Koreivienė Ecosystem modelling to understand and predict cyanobacterial blooms in freshwater lakes
- 17:15 Triantafyllos Kaloudis Detection of structurally diverse cyanopeptides in environmental samples using mass spectrometry query language (MassQL) – the case of microcystins
- 17:30 Robin Crucitti-Thoo Comparing aquatic environmental DNA, microscopy and sedimentary DNA to investigate cyanobacterial community dynamics across a trophic gradient
- 17:45 Tümer Orhun Aykut Strain-specific growth strategies in the harmful alga *Prymnesium parvum*

18:00-19:00 – **Poster session 1**

20:00 – Bonfire

27 May 2026, Wednesday, Falenty

07:30-09:00 – Breakfast

09:30-11:35 – **Opening lecture: Peter Kroth**

How diatoms respond to biotic and abiotic factors

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09:35-11:05 – Oral Session 4: Ecology of algae and cyanobacteria in Anthropocene

(chair: Elżbieta Wilk-Woźniak)

- 09:35 Konrad Wołowski The life force of unicellular organisms
- 09:50 Jaroslav Kubín Contrasting responses to insularity in fen habitat islands: divergence within protists and across other groups
- 09:05 Beata Messyasz Does periphyton reflect anthropogenic pressure better than trophic indices? A comparison between Carlson's Trophic State Index and field-based assessment of pond disturbance
- 09:20 Martyna Budziak An ecological and seasonal assessment of cyanobacterial oligopeptide variability
- 09:35 Paulina Nowicka-Krawczyk Resilience and adaptive mechanisms of terrestrial green algae on building surfaces as direct drivers of substrate deterioration
- 09:50 Akmaral Issayeva Influence of brown coal waste on species diversity of alga of lenger river in southern Kazakhstan

11:05-11:30 – Coffee break

11:30-13:15 – Oral Session 5: Applied phycology

(chair: Judita Koreiviene)

- 11:30 Kateřina Čapková Benthic algal communities in post-mining lakes: diversity, functioning and bioremediation potential
- 11:45 Jan Žerůň Brassinosteroid-mediated regulation of biochemical composition and growth of *Chlamydomonas reinhardtii*
- 12:00 Anna Toruńska-Sitarz Baltic cyanobacteria as a source of antibacterial compounds – a promising yet challenging path
- 12:15 Robert Konkel Where is the cytotoxic activity? Insights from molecular networking of *Nostoc edaphicum* fractions.
- 12:30 Marta Cegłowska Nodularin the Dr Jekyll and Mr Hide of cyanobacterial metabolites
- 12:45 Anna Kaczmarzyk Waste algal biomass in water treatment systems: characterization and prospects – preliminary studies
- 13:00 Przemysław Dąbek Baltic diatoms as novel sources for biofabricated nanomaterials: an overview

13:15-14:15 – Lunch

14:30-16:30 – Microscopy Workshop and Poster session 2

16:30-17:00 – Coffee break

17:00-18:30 – Closed meeting of the Polish Phycological Society

20:00 – Conference Formal Dinner with conference wrap-up and contest results

28 May 2026, Thursday, Falenty

07:30-09:00 – Breakfast

09:30-10:30 – Transport to Warsaw

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List of posters presentations:

Session topic	Diversity of algae and cyanobacteria in various environments	
Izabela A. Jesionowska	A hidden taxonomic diversity of terrestrial algae in biofilms growing on metal surfaces	1
Jan Kaštovský	Fantastic algae and where to find them into Czech Republic. And what does that mean?	2
Tomasz Lenard	A reservoir of contrasts: winter habitat diversity and phytoplankton responses	3
Teresa Noga	Live in the shadow of a forest: diatoms of water bodies in the Turzański Forest (SE Poland)	4
Agnieszka Pasztaleniec	Plankton of pit lakes in post-mining locations of Wielkopolska	5
Małgorzata Poniewozik	Biomineralization in the trachelomonad lorica: a comparative analysis of its chemical composition	6
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Marta Ziółek	Phytoplankton diversity in post-mining subsidence reservoirs in the Lublin region	7
Mateusz Rybak	Extremophilic <i>Nitzschia</i> species in a man-made environment: phylogenetic link to Crimean volcanic Isolate	8
Zofia Sochaczewska	Revisiting <i>Colacium</i> (Euglenaceae): molecular and morphological species delimitation and epytypification of the type species <i>Colacium vesiculosum</i>	9
Session topic	Harmful algal blooms and invasions, physiology, microbiomes, ecology, and toxins	
Agata Błaszczyk	From the Baltic Sea to land: airborne transport of cyanometabolites via sea spray aerosols	10
Anna Jaskulska	The role of DNRA and ANRA bacteria in the development of cyanobacterial blooms with different physiological strategies and distinct morphologies	11
Paulina Orlińska-Woźniak	Current and future chloride concentrations in the Vistula River as a driver of <i>Prymnesium parvum</i> bloom risk	12
Marek Sokołowski	Cyanotoxins Drivers in Poland and Lithuania	13
Session topic	Ecology of algae and cyanobacteria in Anthropocene	
Magdalena Toporowska	Cyanobacterial blooms and associated cyanometabolites in water, phytoperiphyton, and gastropods of the hypertrophic Lake Syczyńskie (Eastern Poland)	14
Antonia Dolores Asencio Martínez	Physicochemical background of water and its influence on phytoplankton community modeling under high mineralization and temperature stress	15
Andrzej Bajguz	Metabolic changes in <i>Chlamydomonas reinhardtii</i> induced by gadolinium present in the aquatic environment	16
Małgorzata Bąk	Assessment of the ecological status of Międzyodrze canals based on diatoms (phytobenthos)	17
Agnieszka Budzyńska	Phytoplankton communities and factors shaping them in two connected urban ponds	18
Agnieszka Budzyńska	Phytoplankton community in a strongly transformed, heated lake system a decade after reduction of main anthropogenic pressures	19
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Beata Messyasz	Contrasting effects of hot and rainy summers on phytoplankton structure in a shallow Lake Oporzyńskie	22
Elżbieta Wilk-Woźniak	Seasonal (dis-)connectivity in functional structure of phytoplankton communities of shallow eutrophic waterbodies - preliminary results	23
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Grzegorz Boczek	Restoring, protecting and monitoring algal communities in polluted waters	25
Wioleta Ciempiel	Physicochemical properties of exopolysaccharides (EPS) isolated from autotrophically grown green algae	26
Jurate Karosiene	Assessment of antioxidant potential of natural cyanobacteria biomass from Lithuanian freshwaters	27
Justyna Kobos	The use of PlanktoScope for phytoplankton monitoring	28
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