

## PROGRAM – 64<sup>th</sup> MEETING OF THE CZECH PHYCOLOGICAL SOCIETY

Tuesday 19 September	
11:00-12:50	Registration
12:50-13:00	Welcome & organisation details (L. Nedbalová et al.)
<b>Topic 1: Phylogeny, taxonomy &amp; evolution</b> (chair: Jan Kollár)	
13:00-13:30	<b>Dvořák, P.:</b> Species boundaries in cyanobacteria
13:30-13:50	<b>Stanojkovič A., Skoupý S., Dvořák P.:</b> Journey into the global continuum of <i>Microcoleus</i> species
13:50-14:10	<b>Skoupý S., Stanojkovič A., Casamatta D. A., McGovern C., Martinović A., Konderlová M., Dodoková V., Mikesková P., Jahodářová E., Schalkwyk H.V., Jungblut A., Jaskowiec J., Dvořák P.:</b> Population genomics informed taxonomy of the speciation continuum of cyanobacterium <i>Microcoleus</i>
14:10-14:30	<b>Pokorný J., Štenclová L., Kaštovský J.:</b> New insights into the phylogenetic relationship of the <i>Merismopedia</i> and <i>Microcrocis</i> (Cyanobacteria) genera
14:30-15:00	Coffee break
15:00-15:10	<b>Nádvořník R.:</b> Microbiome analysis services by SEQme
chair: Klára Řeháková	
15:10-15:30	<b>Kollár J., Kopalová K., Kohler T. J.:</b> On the molecular affairs in diatom research – past, present and future
15:30-15:50	<b>Příbyl P., Procházková L.:</b> Towards the elucidation of <i>Trachydiscus</i> (Eustigmatophyceae) taxonomical status
15:50-16:10	<b>Barcytė D., Eliáš M.:</b> The resurrected genus <i>Hydrocytium</i> expands the phylogenetic, morphological, and genomic diversity of the poorly known green algal order Chaetopeltiales
16:10-16:30	<b>Lukeš J., Čertnerová D.:</b> Evolution of genome size in streptophyte algae genus <i>Zygnema</i> and its ecological consequences
16:30-17:00	Coffee break
17:00-18:30	Meeting of the Czech Phycological Society
19:00	Social evening (Pivovarský dům Benedict)

## Wednesday 20 September

### **Topic 1: Phylogeny, taxonomy & evolution** (continuation, chair: Petr Dvořák)

9:00-9:20	<b>Škaloud P.</b> , Jadrná I., Knotek P., Pusztai M., Černajová I., Steinová J.: Tracing the evolution of siliceous scale patterns in the genus <i>Mallomonas</i>
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9:20-9:40	<b>Žárský J.</b> , Žárský V., Žárský V.: The unicellularity of Zygnematophyceae in the light of their proximity to land plants
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### **Topic 2: Cell biology & geometric morphometrics**

9:40-10:00	<b>Holzinger A.</b> , Permann C., Antreich S., Jouneau P.-H., Uwizeye C., Falconet D., Marechal E.: New insights into zygospore formation in <i>Spriogyra</i> and <i>Zygnema</i> (Zygnematophyceae) by 3D-reconstruction
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10:00-10:30	Coffee break
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chair: Andreas Holzinger

10:30-10:50	<b>Němcová Y.</b> , Orlando-Bonaca M., Neustupa J.: <i>Halimeda tuna</i> (Bryopsidales, Ulvophyceae) calcification on the depth transect in the northern Adriatic Sea; carbonate production on the microscale of individual segments
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10:50-11:10	<b>Neustupa J.</b> , Woodard K.: Geometric morphometrics of bilateral asymmetry in <i>Eunotia bilunaris</i> (Eunotiales, Bacillariophyceae) as a tool for the quantitative assessment of teratogenic deviations in frustule shapes
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11:10-11:30	<b>Woodard K.</b> , Neustupa J.: What are the effects of temperature on plasticity, shape symmetry and seasonal variation in the freshwater benthic green microalga <i>Micrasterias thomasiana</i> ?
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11:30-14:20	Excursions & lunch
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<b>Wednesday 20 September</b> (continuation)	
<b>Topic 3: Diversity &amp; ecology</b> (chair: Jana Kulichová)	
14:20-14:50	<b>Invited lecture - Bosak S.</b> , Filek K., Kanjer L., Vuković, B.B.: What lives on loggerhead sea turtles: an overview of epizoic microalgal assemblages
14:50-15:10	<b>Kohler T.J.</b> , Kollár J., Kochoska H., Kopalová K., Peter H., Ezzat L., Bourquin M., Michoud G., Busi S.B., Battin T.J.: Preliminary global patterns in glacier-fed stream diatom communities as revealed by 18S amplicon sequencing
15:10-15:30	<b>Hindáková, A.</b> , Skoupý, S., Dvořák, P.: Cyanobacteria from Slovakia and Norway provide new insights into the genus <i>Kamptonema</i>
15:30-16:50	Poster session & coffee break
chair: Sunčica Bosak	
16:50-17:10	<b>Vančurová L.</b> , Škaloud P., Malíček J.: Find the difference: Cryptic lichen species and their symbiont choice
17:10-17:30	<b>Bren O.</b> , Elster J., Kolomiets A., Šnokhousová J.: Biodiversity of microalgae and cyanoprokaryota of Langhovde (Antarctica)
17:30-17:50	<b>Čapková K.</b> , K. Řeháková, T. Bešta, E. Konopáčová: Deep Green, the underwater meadows at post-mining pits
19:00	Dinner (restaurant Sklep)
<b>Thursday 21 September</b>	
<b>Topic 4: Physiology &amp; applied phycology</b> (chair: Milada Vítová)	
9:00-9:30	<b>Invited lecture - Remias D.</b> , Wurzer S., Irsara J., Wiedenhofer B., Procházková L.: Zygnematophyceae and their phenolic compounds – a biochemical strategy preceding the flavonoids of land plants?
9:30-9:50	<b>Lepšová-Skácelová O.</b> : A story about the management of a South-Moravian fishpond: Nature Reserve Františkův rybník
9:50-10:10	<b>Elster J.</b> , Kvíderová J., Šnokhous K., Liška J., Lukavský J., Příbyl P., Nedbalová L.: Medium-scale cultivation of microalgae in Svalbard
10:10-10:30	<b>Lukavský J.</b> , Švehlová, D., Kopecký J., Kvíderová J., Kubáč D., Nedbalová L., Procházková L., Střížek A., Vítová M., Řezanka T.: Bioprospection
10:30-11:00	<b>Krist, P.</b> ZEISS Research Microscopy Solutions: Airyscan – The Best Microscopy Imaging Technology
11:00-11:30	Coffee break

<b>Topic 4: Physiology &amp; applied phycology</b> (continuation, chair: Daniel Remias)	
11:30-11:50	<b>Prášil O.</b> , Hania A., Masuda T., Rana S., Lopez R., Eichner M.: Nitrogen fixation and photosynthesis in diazotrophic cyanobacteria
11:50-12:10	Falcao B., Galica T., <b>Štenclová L.</b> , Martínez Yerena J.A., Mareš J., Kozlíková E. & Hrouzek P.: Iron monopolization versus community service: the two faces of cyanobacterial beta-hydroxy aspartate lipopeptides
12:10-12:30	<b>Kvíderová J.</b> : Variable chlorophyll fluorescence - a powerful tool in experimental phycology
12:30-12:50	<b>Procházková L.</b> , Mojzeš P., Nedbalová L., Remias D.: Phenolic iron complexes of glacier ice algae ( <i>Ancylonema</i> spp., Zygnematophyceae) contribute to protection against harmful irradiation