

Monday 13. 9.

10:30 – 12:45	Registration and accomodation (payment of conference fee – 300 CZK and meals)
13:00 – 13:00	Foreword and Richard Lhotský
13:15 – 15:20	PHYSIOLOGY

13:15 – 13:40 Anxhela Hania (Centre Algatech)

N₂ fixation in the filamentous cyanobacterium *Trichodesmium* – are there strain-specific differences?

13:40 – 14:05 **Dovilė Barcytė** (University of Ostrava)

The endosphere of *Cryptomonas* has it all

14:05 – 14:30 **Jana Knoppová** (Centre Algatech)

Biogenesis of the oxygen evolving machine: Elucidation of the early steps of photosystem II assembly in the model cyanobacterium

14:30 – 14:55 **Jana Pilátová** (Charles University)

Paradigm shift in eukaryotic biocrystallization

14:55 – 15:20 **Maxim Bokov** (Charles University)

Rearrangement of intracellular crystalline guanine as an adaptation for various illumination levels

15:20 – 15:45 Coffe break and Poster session

<u>15:45 – 18:25</u> <u>ECOLOGY I.</u>

15:45 – 16:10 **Jana Kvíderová** (Institute of Botany)

Oxyphototrophic microorganisms of Bulgarian thermal springs

16:10 – 16:35 **Tomáš Bešta** (Biology Centre)

Successional patterns and spatio-temporal dynamics of littoral periphyton in three recently flooded post-mining lakes

16:35 – 17:00 Kateřina Čapková (Biology Centre)

The effect of periphyton assemblages on productivity in oligotrophic post-mining lakes

17:00 – 17:15 Coffe break

17:15 – 17:40 Eliška Konopáčová (University of Pardubice)

P uptake traits of epiphyton in oligothropic post-mining lakes Milada, Medard and Most

17:40 – 18:05 Kateřina Trumhová (Charles University)

Seasonal dynamics of mats composed by green conjugating alga Zygnema sp. (Zygnematophyceae)

18:05 – 18:30 **Lucie Vančurová** (Charles University)

Choosing the right life partner: ecological drivers of lichen symbiosis

18:30 Dinner/BBQ at Algatech campus

Tuesday 14.9.

8:30 – 10:10 BIOACTIVE COMPOUNDS I.

8:30 – 8:55 **Lenka Šindlerová** (Institute of Biophysics)

Lipopolysaccharides from cyanobacteria and cyanobacterial water blooms activate various human cell types

8:55 – 9:20 **Riju Roy Chowdhury** (Masaryk University)

The Steatogenic and Hepatoxic potential of Cylindrospermopsin: 3D in vitro approach

9:20 – 9:45 **Ondřej Vašíček** (Institute of Biophysics)

Disruptive and pro-inflammatory effects of newly recognized cyanobacterial toxins on Caco-2 human intestinal barrier model

9:45 – 10:10 Subhasish Saha (Centre Algatech)

Quorum sensing regulation in cyanobacteria *Nostoc* sp. for the induction of Microviridin production and activation of silent Microviridin biosynthetic gene cluster

10:10 – 10:40 coffe break and Poster session

<u>10:40 – 12:20</u> <u>TAXONOMY/PHYLOGENY I.</u>

10:40 – 11:05 **Lenka Procházková** (Charles University)

Green snow surface blooms in the High Tatras caused by *Chloromonas* sp. nov. WP187 (Volvocales, Chlorophyta)

11:05 – 11:30 Aleksandar Stanojković (Palacký University Olomouc)

Population-level genome-wide sequencing facilitate the species delimitation in *Laspinema thermale* (cyanobacteria)

11:30 – 11:55 **Petr Dvořák** (Palacký University Olomouc)

The diversification within Microcoleus (cyanobacteria) is driven by climate and geography

11:55 – 12:20 **Svatopluk Skoupý** (Palacký University Olomouc)

New cyanobacterium Darthvaderiella: the dark side of the force is spread around the world

12:20 - 13:40 Lunch

<u>13:40 – 15:45</u> <u>ECOLOGY II.</u>

13:40 – 14:05 Adam Ruka (University of South Bohemia)

Diatom community response to development and climate change in Lake George, an oligotrophic lake in the Adirondack Mountains

14:05 – 14:30 **Josef Elster** (University of South Bohemia)

Abiotic environment characterization and influencing factors of microphytobenthic community abundance in the Adventfjorden tidal flat, Svalbard

14:30 – 14:55 **Eva Hejduková** (Charles University)

Experimental freezing of freshwater diatoms from polar environment

14:55 – 15:20 **Yvonne Němcová** (Charles University)

Comparing continental and local distribution patterns of protists: A case study of silica-scaled chrysophytes

15:20 – 15:45 **Olga Lepšová-Skácelová** (University of South Bohemia)

Living together: invasive bryozoans and cyanobacteria/algae

15:45 – 16:15	coffe break
<u>16:15 – 17:00</u>	Meeting of the Czech Phycological Society
<u>17:30 – 19:00</u>	Accompanying program (excursion to Regent brewery, botanical garden or Algatech)
19.00	Dinner at the hotel 7latá hvězda

Wednessday 15. 9.

8:30 – 11:05 APPLIED PHYCOLOGY

8:30 – 8:55 **Jaromír Lukavský** (Institute of Botany)

Bioprospection – For adventurers only?

8:55 – 9:20 **Gergely Ernő Lakatos** (Centre Algatech)

Psychrophilic Monoraphidium sp. B cultivation in outdoor thin-layer raceway pond for high value products

9:20 – 9:45 **Antonín Střížek** (Centre Algatech)

Hibberdia magna: Golden algae are rich

9:45 – 10:10 **Jiří Masojídek** (Centre Algatech)

Demonstrating the application of microalgae in agriculture

10:10 – 10:40 Coffe break

10:40 – 12:20 BIOACTIVE COMPOUNDS II.

10:40 – 11:05 Pavel Hrouzek (Centre Algatech)

High value cyanobacterial secondary metabolites with potential use in cancer theraphy

11:05 – 11:30 **Luděk Bláha** (Masaryk University)

Biological assays for monitoring and assessment of toxic cyanobacteria – perspective from WHO and RECETOX

11:30 – 11:55 J. A. Martínez Yerena (Centre Algatech)

The eagle killer hunted: Identification and characterization of a novel cyanobacterial neurotoxin.

11:55 – 12:25 Pavel Krist (Zeiss Research Microscopy Solutions)

Microscopy in 2021 – Live Cell Imaging with High Resolution, Speed and Sensitivity

12:25 – 13:35 Lunch

13:35 – 14:50 TAXONOMY/PHYLOGENY II

13:35 – 14:00 **Jan Janouškovec** (Centre Algatech)

Algae becoming parasites: lessons from apicomplexans and dinoflagellates

14:00 – 14:25 **Pavel Přibyl** (Institute of Botany)

The new eustigmatophyte microalga with an unusual reproduction mode

14:25 – 14:40 Announcement of the student compe