

Finnish Phytoplankton Society's Spring workshop 5.-6.5.2026 in Vesalan leiri- ja toimintakeskus, Vesanka

Neulakankaantie 61, 41940 Vesanka

Lecturers: **Dr. Pavel Škaloud and Dr. Martin Pusztaí**

Taxonomic workshop on Chrysophytes

Preliminary programme

Monday 5.5.2025

Arrival to Jyväskylä by train by train at 18:33 or 19:39 in Jyväskylä

19:00 Welcome evening at Vesala

Tuesday 5.5.2026

09:00 Welcome words

09:15 Lecture: Introduction - general characteristics, ecology and phylogeny

10:30 Practice I - occurrence, sampling and maintenance

11:30 Lunch

12:30 Lecture: Silica scaled chrysophytes - taxonomy and identification

14:00 Coffee break

15:15 Field sampling and microscopy session

16:00 Practice II - determination, confusion, old/new names, literature

16:30 Dinner

17:15 Presentations

18:00 End of workshop day 1

19:00 Sauna and snacks

Wednesday 6.5.2026

07:30 Breakfast

08:30 Lecture: Other chrysophytes - taxonomy and identification

10:00 Lecture Other chrysophytes - taxonomy and identification

11:30 Lunch

12:30 Presentations

14:00 Coffee break, final discussion

15:15 End of the workshop

Departures: 16:12 train connection from Jyväskylä to Helsinki and Turku

Presentations: Participants will have the opportunity to give their own oral presentations, with topics and titles related to phytoplankton systematics, speciation, phytoplankton analysis or microscopy, or any other topic related to the Society's activities. Presentations should be 10--20 minutes in length and titles should be communicated directly to our board (hallitus@kasviplanktonseura.fi).

Samples and microscopy: Participants are particularly encouraged to bring photographs and videos as well as live and Lugol-preserved samples to view together. If possible, please let us know when you register what material you will be bringing or let us know later. It is also possible to make comparative observations of live and Lugol-preserved chrysophytes.

Proposed literature:

Books:

- KAŠTOVSKÝ, J., et al. (2018). Atlas sinic a řas České republiky I. Vydavatel: Powerprint, Praha. 1-383. ISBN 978-80-7568-125-6.
- KRISTIANSEN, J. & PREISIG, H. R. (2007). Süßwasserflora von Mitteleuropa, Chrysophyte and Haptophyte Algae: Teil 2/Part 2: Synurophyceae (Vol. 1). Spektrum Akademize Verlag.
- KRISTIANSEN, J. & ŠKALOUD, P. (2017). Chrysophyta. In Handbook of the Protists (pp. 331-366). Springer, Cham.
- STARMACH, K. D. (1985). Chrysophyceae and Haptophyceae. Susswasserflora Mitteleuropas, 1, 1-322.

Papers:

- SCOBLE, J. M. & CAVALIER-SMITH, T. (2014). Scale evolution in Paraphysomonadida (Chrysophyceae): Sequence phylogeny and revised taxonomy of Paraphysomonas, new genus Clathromonas, and 25 new species. European journal of protistology, 50(5), 551-592.
- PUSZTAI, M., & ŠKALOUD, P. (2019). Elucidating the evolution and diversity of Uroglena-like colonial flagellates (Chrysophyceae): polyphyletic origin of the morphotype. European Journal of Phycology, 54(3), 404-416.
- ŠKALOUD, P., et al. (2012). Toward a revision of the genus Synura, section Petersenianae (Synurophyceae, Heterokontophyta): morphological characterization of six pseudo-cryptic species. Phycologia, 51(3), 303-329.
- ŠKALOUD, P., et al. (2014). Morphological delineation and distribution patterns of four newly described species within the Synura petersenii species complex (Chrysophyceae, Stramenopiles). European journal of phycology, 49(2), 213-229.
- ŠKALOUD, P., et al. (2020). Comparing morphological and molecular estimates of species diversity in the freshwater genus Synura (Stramenopiles): a model for understanding diversity of eukaryotic microorganisms. Journal of Phycology, 56(3), 574-591.