The DEEP Spinach Soup

4-5 November 2025, Tovetorp Zoological Field Station

Social Media: #DEEPsoup2025

Programme

Tuesday 4th November

08:00 Depart SU (Coach leaves from Svante Arrhenius väg 20G)

10:00 Arrive Tovetorp

10:00–11:00 Check-in, COFFEE + Fika

Session 1 (11:15–12:30)

Chair: Jon Norbeg

11:15–11:20 | Kristoffer Hylander — Welcome and Opening Remarks

11:20–11:35 | Allison Hsiang- Automated morphometrics and taxonomy using high-throughput imaging and computer vision

11:35–11:40 | Agnes Kalrsson- The wonderful adventures of DEEP alumni Emir Dal

11:40–11:55 | Armando Pacheco-Valenciana - Linking co-occurrence, function, and environment in the Baltic Sea

11:55–12:00 | Boel Olsson - Uncovering growth patterns of *Marasmius oreades* fairy rings

12:00–12:05 | Emil Kraft - Curiosity killed the ~~cat~~ gammarid

12:30–13:30 | LUNCH

13:30–14:30 | Optional nature walk with guidance by Ayco

Session 2 (14:30–17:30, including coffee break)

Chair: Clare Bradshaw

14:30–14:45 | Erik Gobbo - I asked plants how their Laccases behave toward different substrates. They did not answer because they are incapable of speech

14:45–14:50 | Florian Schmidt - Testing evolutionary hypothesis through simulations and oceanic islands

14:50–15:05 | Johan Eklöf - Using AI in your scientific workflow: the DEEP perspective

15:05–15:10 | Henrik Sandberg - Pelagic copepods resting on the sea floor

15:10–15:25 | Kristina Svobodová - How much coarse woody debris the snails need in managed spruce forests

15:25–15:30 | Nicole Fenton - Searching for liverworts in all the wrong places

15:30–16:00 | COFFEE

16:00–16:30 | Round table: The role of Curiosity in Science. Panelists: Ayco Tack, Gitte Pederssen, Lucia Martín and Emil Kraft. Moderator: Francisco Nascimento

16:35–16:40 | Johanna Fröjd - Does repeated handling affect experimental outcomes in fish?

16:40–16:45 | Lisse Goris - The effect of plant hormones on the oak leaf microbiome across a latitudinal gradient

16:45–16:50 | Lucia Martín - Do biotic and abiotic factors drive soil legacies affecting oak resistance?

16:50–17:05 | Marc Fradera-Soler - No single road to extreme climate adaptation: divergent macroevolutionary pathways to drought and cold resistance in desert plant

17:05:17:10- Marie Ritter - Why do (not only) fish go bananas?

17:10-17:25: Marco Fracassetti - Adaptive Sampling: The Quest to Decode Complex Repetitive Regions in Plants

17:25-17.30- Markus Olsson - Meiofauna community recovery after simulated seabed mining

18:30 | DINNER + PUB

Wednesday 5 November

07:30–08:45 BREAKFAST

Session 3 (09:00–10:00)

Chair: Gulnara Tagirdzhanova

09:00–09:05 | Robin von Allmen - Using artificial intelligence to study how evolutionary transitions in pollination mode shape pollen morphology in angiosperms.

09:05–09:20 | Molly Renström Groth - Why curiosity between research and industry is important

09:20–09:35 | Moritz Nusser - Bioturbation Complicates Methane Ebullition from Coastal Sediments

09:35–09:40 | Jack Geist - What isotopes reveal about the origin and fate of methane in coastal sediments

09:40–09:55 | Nadia Binte Obaid - *NodABC*-Encoded Lipochitooligosaccharides in *Frankia*: Defence Suppression and Host Range Implications in Actinorhizal Symbioses

10:00–10:30 | COFFEE

10:30–10:45- Obsu Hirko Diriba - The effect of land use on stream water flows: risks of flooding and drought

10.45-11.00- Sara Westerström - Baltic Bay in a Box: How Warming, Grazers and Infauna Influence Greenhouse Gas Fluxes

11.00-11.15- Peter Hambäck - Restoring for biodiversity: Connecting hydrology and arthropod communities.

11.15-11.20- Mattias Siljestam - Exploring the dikaryotic advantage: why Basidiomycetes keep their nuclei apart

11:25–11:30| GROUP PHOTO (outside) with Laila

12:00–13:30 | LUNCH

14:00 | Departure

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Information

Presentations:

• There will be a computer (PC) from which to run your talk. Bring it on a usb-stick saved as a PowerPoint or PDF file. If you want to use your own computer, it is your responsibility to make sure you have the correct adapter.

• We ask everyone to think carefully about how they present their work, bearing in mind that we are a broad institute, with many fascinating subjects being researched. Please structure your talk around the following four questions, and keep your answers *simple:* 1) What am I studying? 2) Why? 3) How? 4) What have I found (if anything at this stage)? 5) Can you share in your experience how curiosity can be a part of Science (optional)?

PhD credits:

• PhD students are awarded 1 credit point for presenting.

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Travel:

• We will travel to Tovetorp by coach (bus). The coach will depart at 08.00 on Tuesday 4th Nov from Svante Arrhenius Väg 20G, i.e. the north entrance to the NPQ-houses.

- It is essential that you arrive on time, as it is difficult to reach Tovetorp by public transport (commuter train to Gnesta, and then hitch-hiking or a not-so-frequent bus). Phone numbers in case needed: Francisco (0732075000), Boel (0703438248), Marie (076-108 46 12).

• We will arrive back at DEEP at ca. 16:00 on Thursday 5th Nov.

Social Media:

The Spinach Soup hashtag for this year will be: #DEEPsoup2025. So please use this when you post on Bluesky, Facebook or Instagram about the Spinach Soup. Remember also to tag @deepsthlmuni. By doing this, you can contribute to spreading the word about DEEP and what we do. Take that chance.

Group photo:

• We (Laila) will take a group photo of us all, as a memory, and to post on our homepage. Being part of this photo is optional (but encouraged!).

Food:

• We will eat all meals at Tovetorp (lunch and dinner on Tuesday; breakfast and lunch on Wednesday). The kitchen is excellent.

• After dinner on Tuesday, there will be a self-service pub with drinks for sale at retail

price. Payment is via Swish.

Tovetorp research station:
Tovetorp is a field station run by the Department of Zoology, SU. It is regularly used for field courses in ecology and ethology, but is also often used for small conferences and workshops. It is located ca. 100 km southwest of Stockholm, between Gnesta and Nyköping. It is a comfortable place to stay, although offers a bit more 'basic' facilities than a hotel. You sleep in three-bed rooms, with shared bathrooms and showers in the corridor. The kitchen is excellent. You do not need to bring sheets and towels. Tovetorp is located in the countryside so bring whatever you will need for two days – there are no shops around. There will be time to go for a walk in the surroundings.

Important practicalities:

- It is the policy at Tovetorp that outdoor shoes are not allowed indoors, so it is a good idea to bring indoor shoes/slippers.
- You do not need to bring sheets or towels.
- There is a hot tub. If you want to use it, please bring appropriate clothing (and behaviour!).
- Presentations will be held in the lecture hall at Tovetorp. Tovetorp provides a laptop (PC), so save your presentations on to a USB-stick (PDF or PowerPoint file); alternatively, bring your own laptop.

