



Chemical interactions in benthic macroalgae and macroinvertebrates

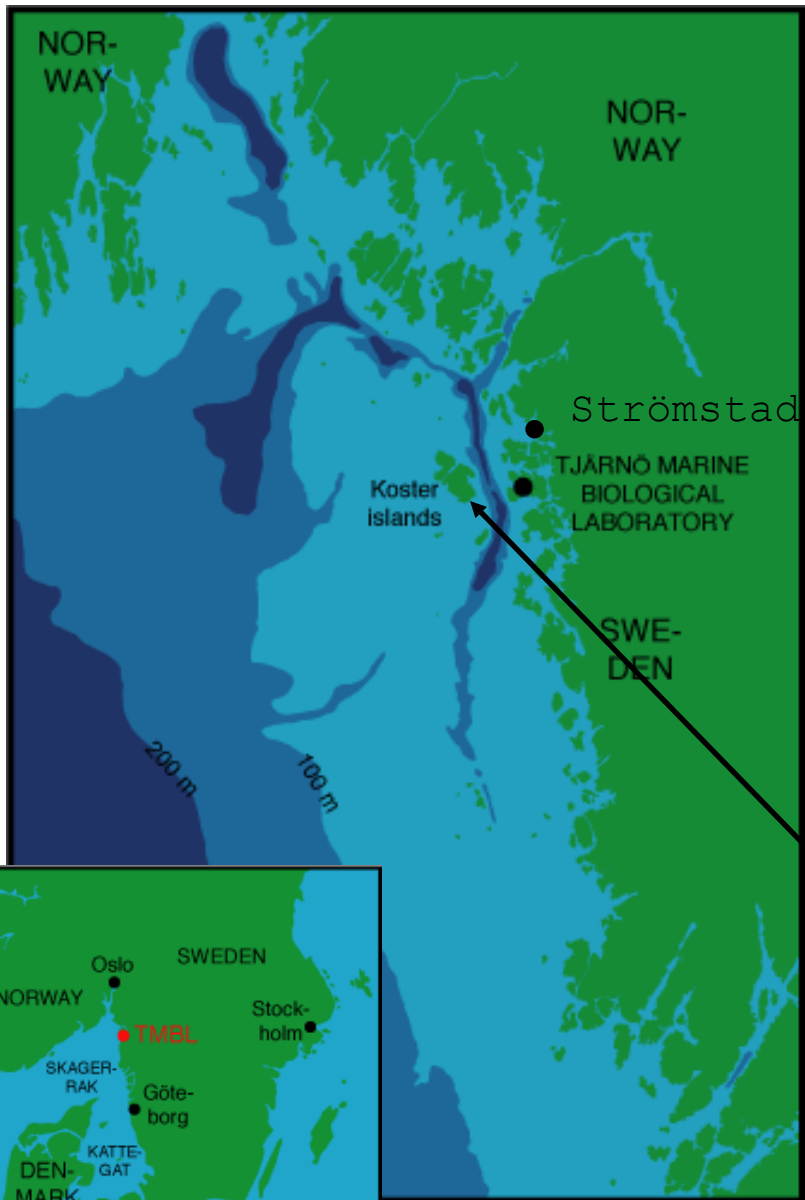
Gunilla Toth

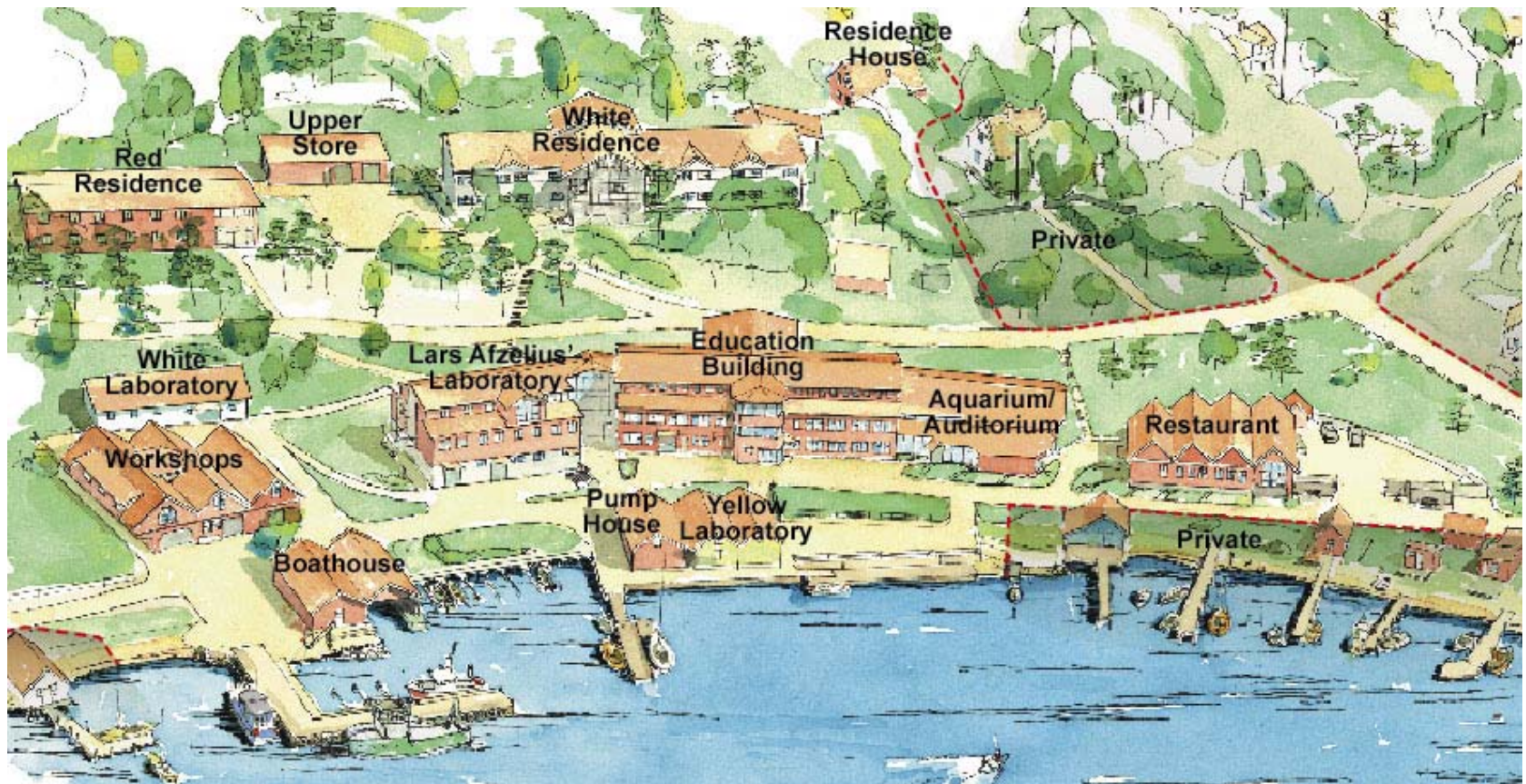
Henrik Pavia

Tjärnö Marine Biological Laboratory

Göteborg University

Department of Marine Ecology





- 77 persons in total (54 R&D, 23 service)
- 24 PhDs, 17 PhD students, 13 project employees
- \approx 500 university students annually
- \approx 6000-8500 persons from the general public



Vessels:

Nereus

Doris

Lophelia

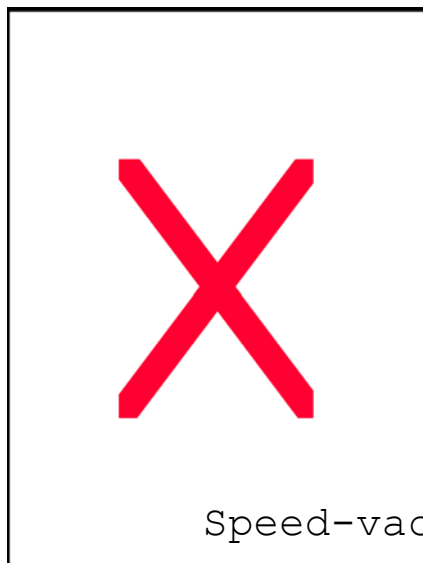
10 small open boats





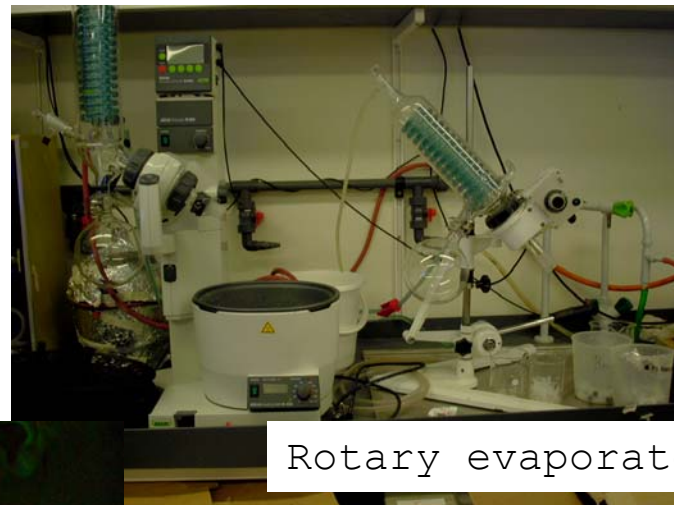


Freeze-dryer

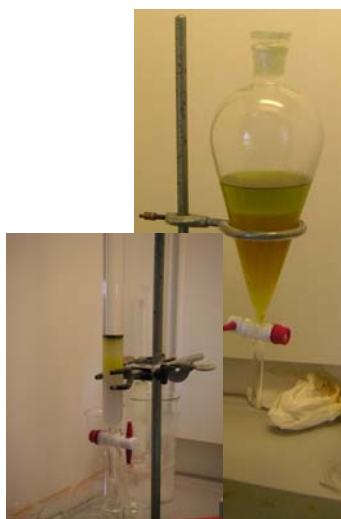


Speed-vac

Equipment



Rotary evaporators



Basic extraction
and isolation equipment



Thin Layer Chromatography
(TLC)



HPLC and LC-MS

Organisms

From field

- Seaweeds (red, brown, green)
- Invertebrates (sponges, ascidians, hydrozoans, polychaetes etc.)
- Herbivores (littorinid snails, isopods, gammarids, sea urchins)
- Predators (crabs,

In culture

- Seaweeds (*Bonnemaisonia*, *Ulva*)
- Microalgae
- Copepods (*Acartia*)
- Barnacle larvae
- Parasite larvae
- Marine bacteria
- Virus?

Research within the chemical ecology group at TMBL

- Herbivore defense
 - Furoid seaweeds
 - Invasive species
 - Dinoflagellates
- Chemical communication
- Antifouling
 - Red seaweeds (*Bonnemaisonia*)
 - Sponges (*Geodia*)
- Tritrophic interactions
 - Plant-herbivore-parasite
 - Plant-herbivore-predator



Thank you!

