

March 5, 2019

# ArCS' Program for Overseas Visits by Young Researchers Debriefing Session FY2019

---

「Chemical analysis of marine  
palynomorphs from Arctic  
sediments」

Takuto Ando

(Estuary Research Center, Shimane University)



Theme: Chemical analysis of marine **palynomorphs** from Arctic sediments

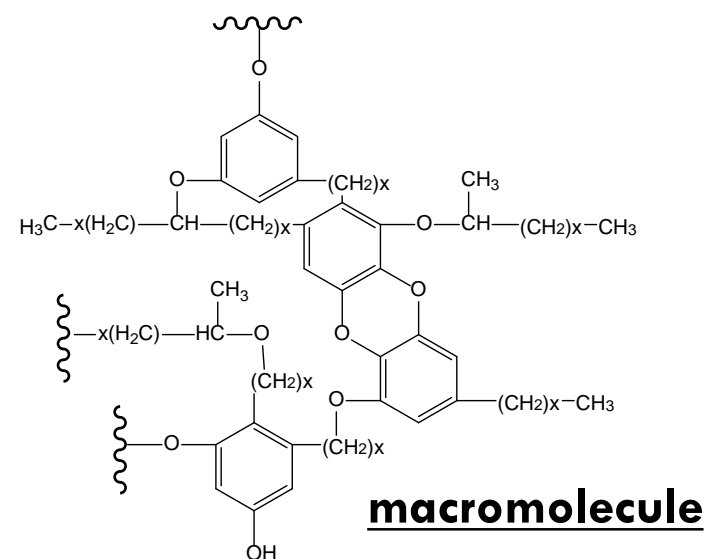
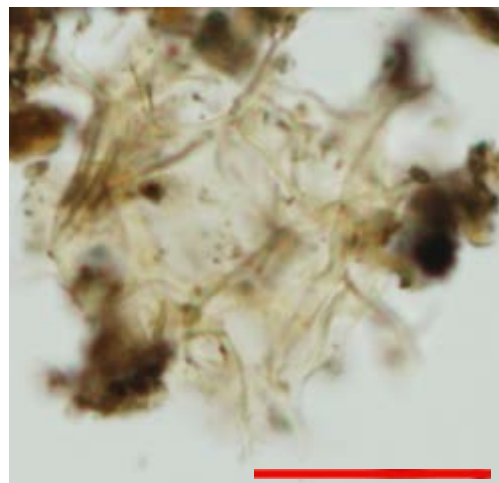
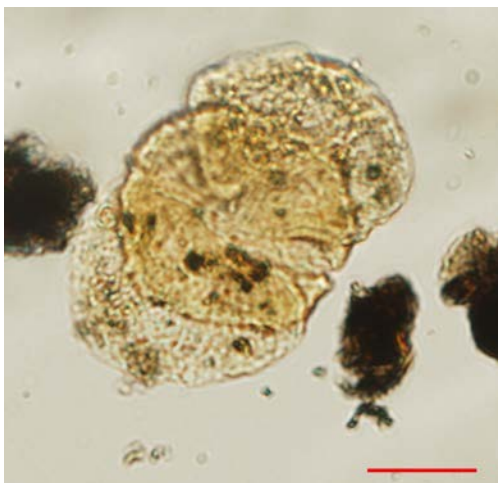
「北極域堆積物中の海成パリノモルフの化学分析法の検討」

Host institution: Zentrum für **Marine Umweltwissenschaften (marum)**,  
Bremen University

Host Researchers: Prof. Karin Zonneveld & Dr. Gerard Versteegh

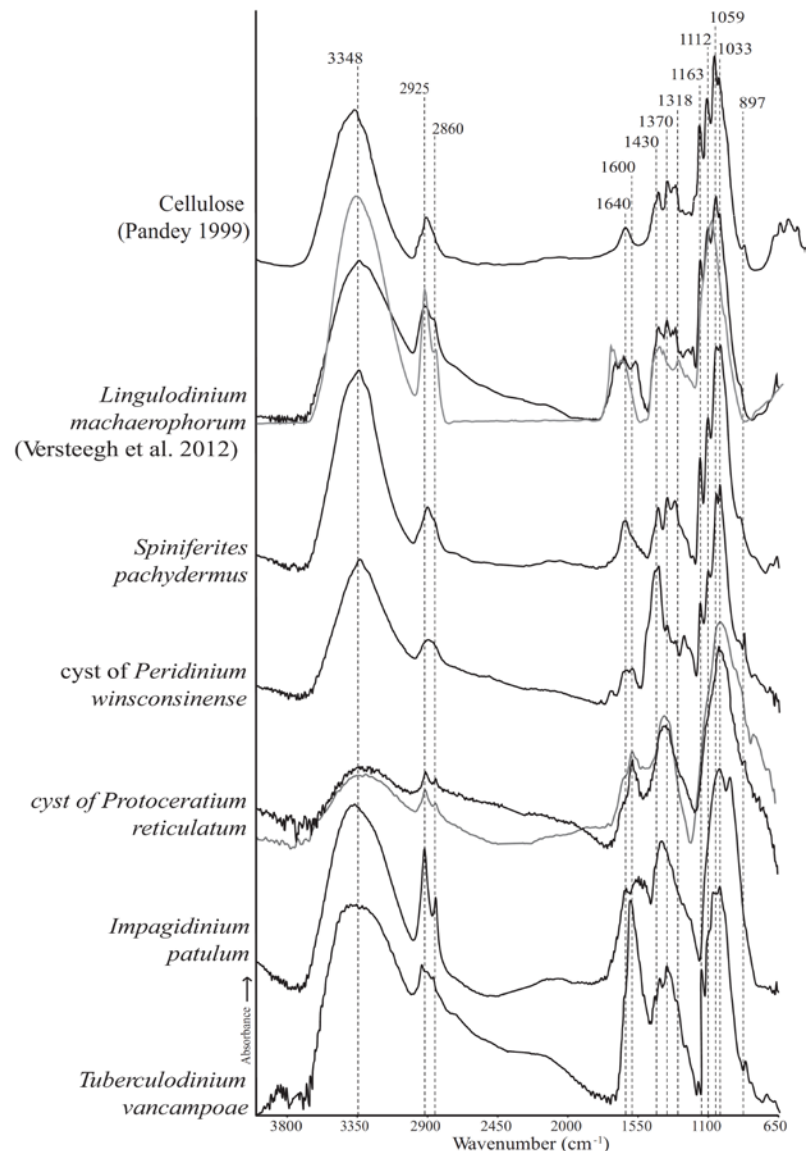
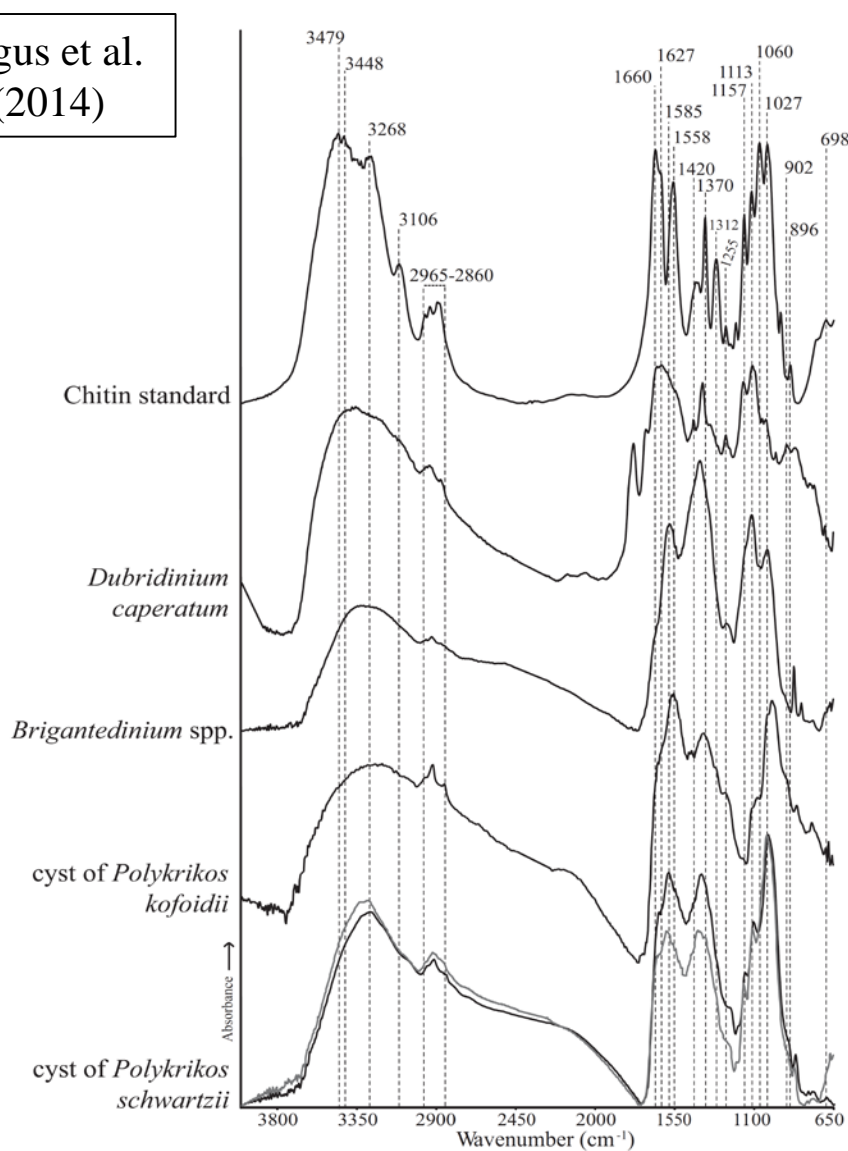
## What is "Palynomorph" ?

= Organic-walled membranes and shells originated from organisms



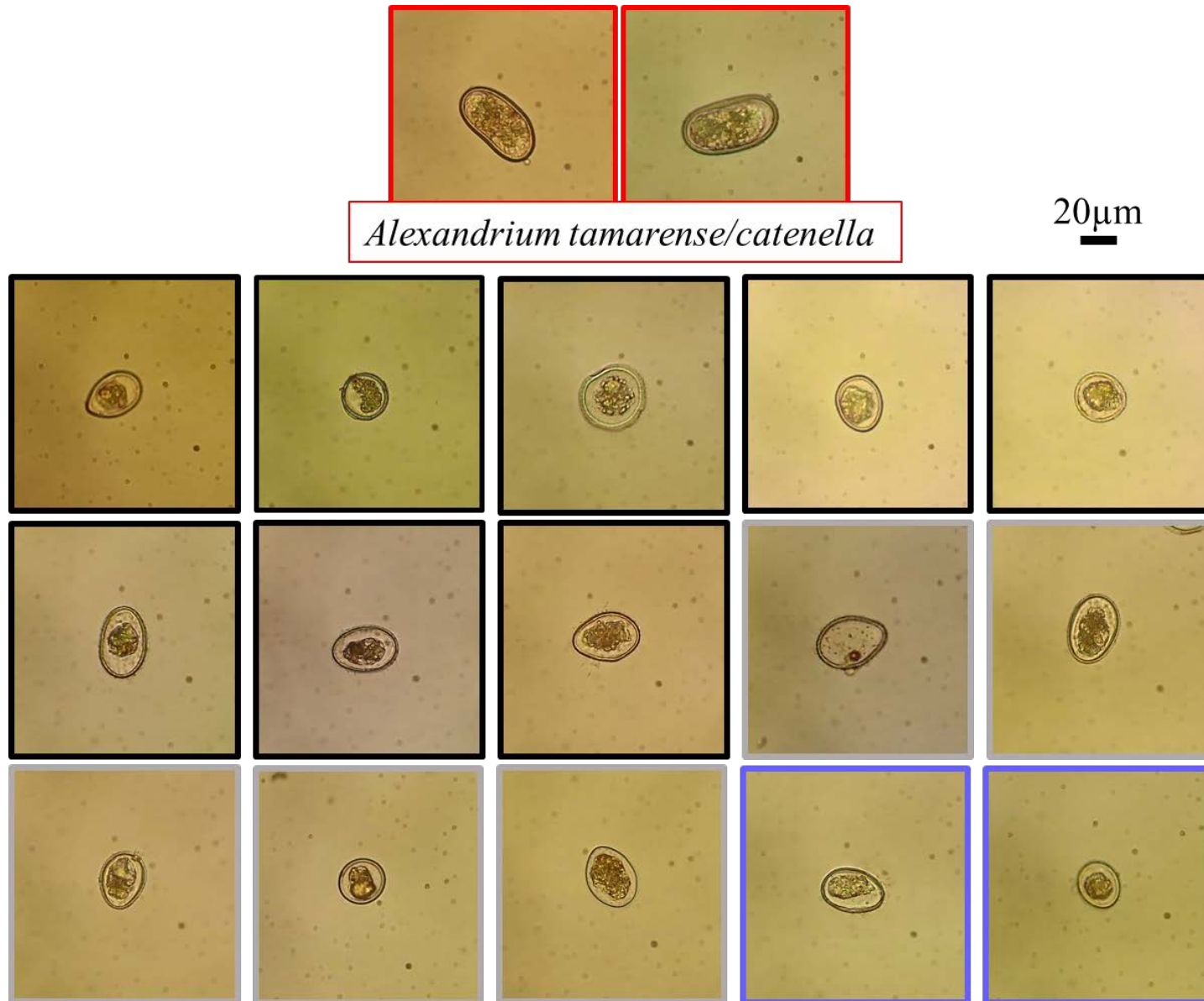
# Overview of Research Activity

Bogus et al.  
(2014)



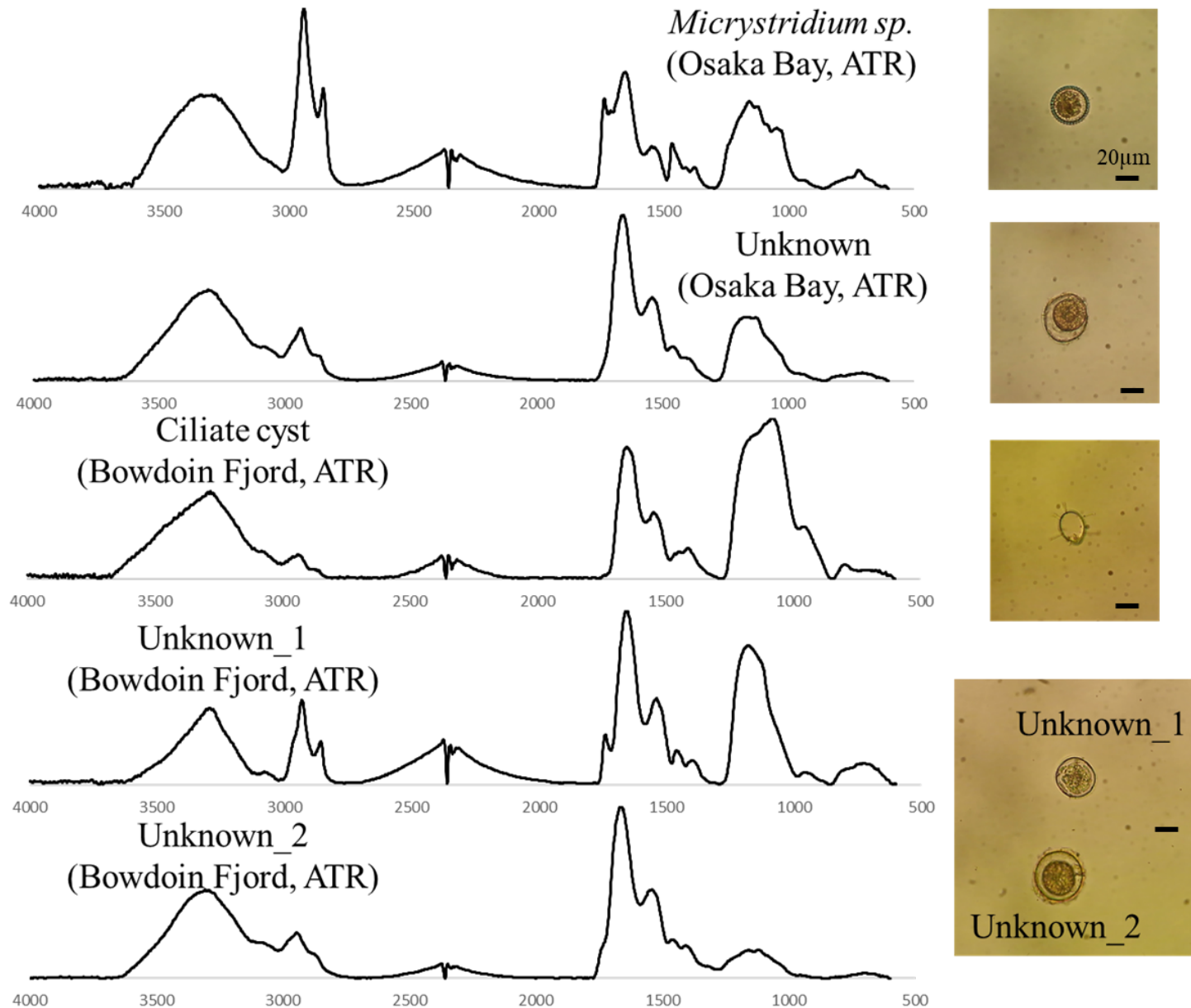
## Importance of macromolecule structure of palynomorph!

## Result1: Cyst of *Alexandrium catenella/tamarense*



# Research Results

## Result2: Acritarchs in the Greenland sediments





## Bremen city and festival: One of the best city in my life





## Slow life in country side: Field excursion

