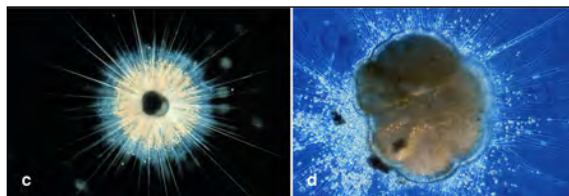


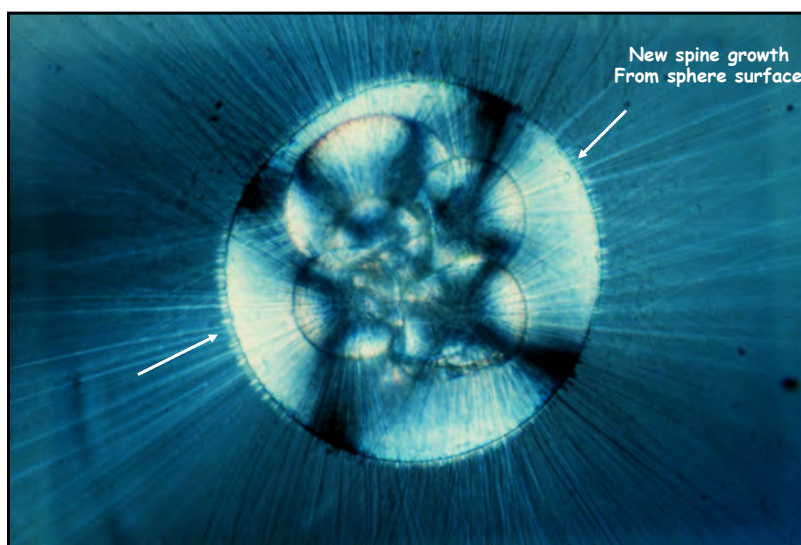
Biology, Ecology and Geochemistry of Planktonic Foraminifera and Diatoms

Globigerinoides ruber *Globorotalia menardii*



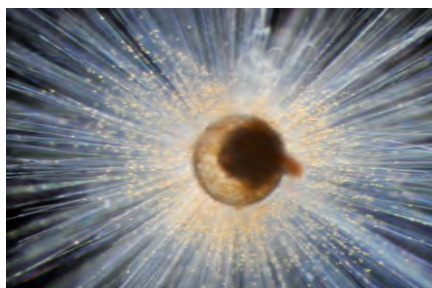
Howard Spero
Dept. Earth and Planetary Sciences
UC Davis

Research on the Process of Biomineralization in Planktonic Foraminifera



Symbiosis and carbon translocation

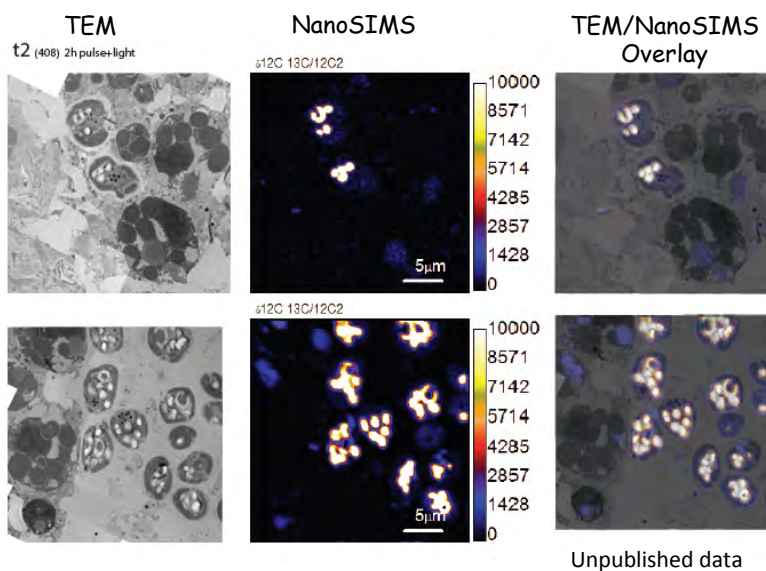
Orbulina universa with
dinoflagellate symbionts on spines

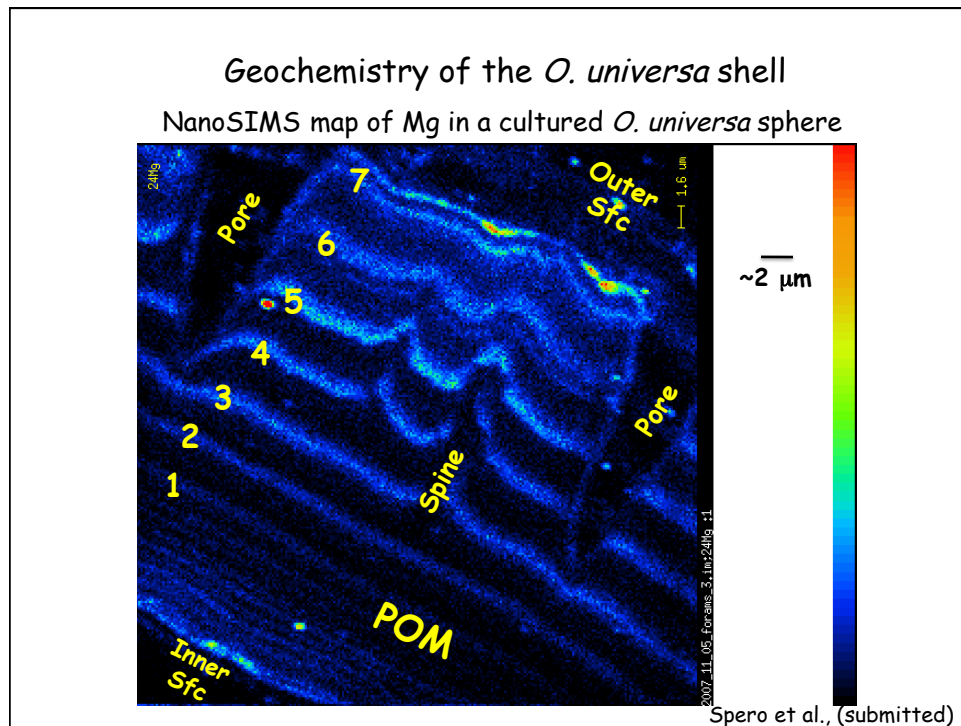


Symbionts on Spines



Transmission Electron Microscopy and NanoSIMS quantifies ^{13}C uptake and carbon translocation between symbiont and foraminifera host





Other Research activities in the Foram/Isotope lab



- **Dr. Ann Russell** (geochemistry, proxy development/calibration; laser ablation ICPMS)
- **Dr. Jennifer Fehrenbacher** (geochemistry, circadian rhythms in foraminifera; laser ablation ICPMS)
- **Dr. Oscar Branson** (biomineralization mechanisms; atom probe tomography and cryo-TOF-SIMS)
- **Anthony Menicucci**, PhD student (diatom/opal geochemistry; proxy development)