



Danny Reible

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9.102F ECJ

- Fate and transport of contaminants in the environment
 - ◆ Understanding and modeling of processes leading to exposure and risk
 - ◆ In-situ approaches to intervention in these processes to manage that risk
- Media of interest – contaminated sediment
 - ◆ Passive sampling of interstitial water concentrations
 - ◆ Sediment capping/amended capping/permeable sorptive barriers

Ongoing Activities Lab – 7.102 ECJ



● PhD

- ◆ Tony Smith – Evaluation of biodegradation in sediments and beneath a sediment cap (expected to finish 5/11)
- ◆ Fei Yan – Redox control of sediment fate processes (expected to finish 12/11)
- ◆ Mustafa Erten – Geotechnical assessment of NAPL contaminated sediments (expected to finish 12/11)
- ◆ Paul Bireta – Mercury fate and transport in sediments (expected to finish 5/14)
- ◆ Courtney Thomas – Passive sampling of organic contaminants (expected to finish 5/14)
- ◆ Wardah Azhar – Capping contaminated sediments (expected to finish 5/14)

● MS

- ◆ Patrick Dunlap – Sediment capping amendments (expected to finish 5/11)

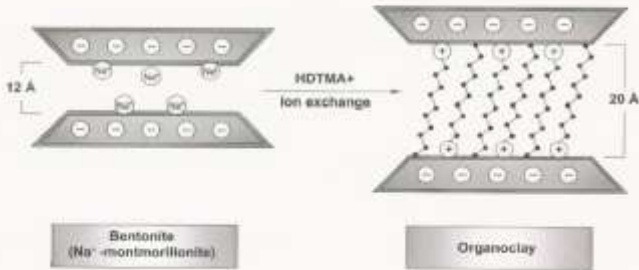
● Research Associate/Visiting Professors

- ◆ XiaoXia Lu – Laboratory Director – Chemical Engineer/Benthic Biology
- ◆ David Lampert – Postdoctoral Associate (Passive sampling and sediment transport modeling)
- ◆ Cesar Gomez-Hermosillo – Visiting professor Univ of Guadalajara

Assessing and Managing Sediments

Field deployable SPME

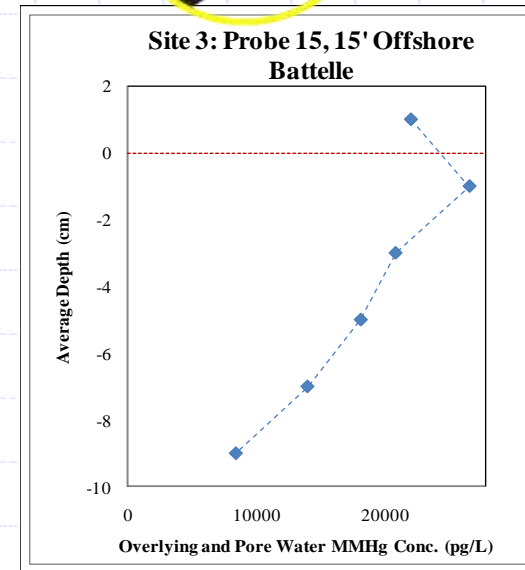
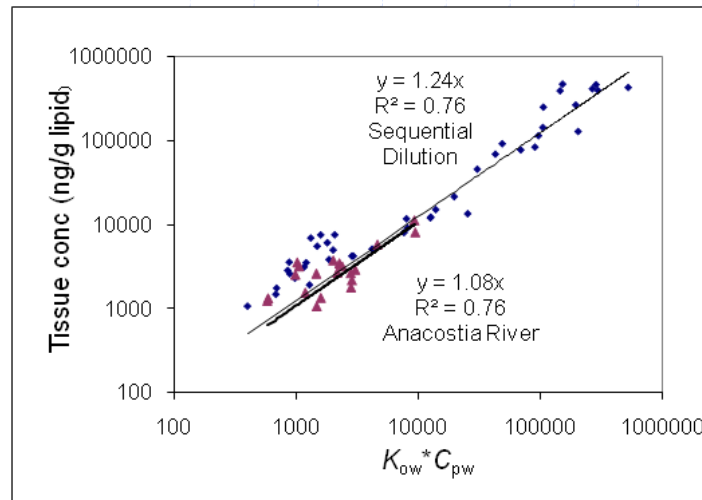
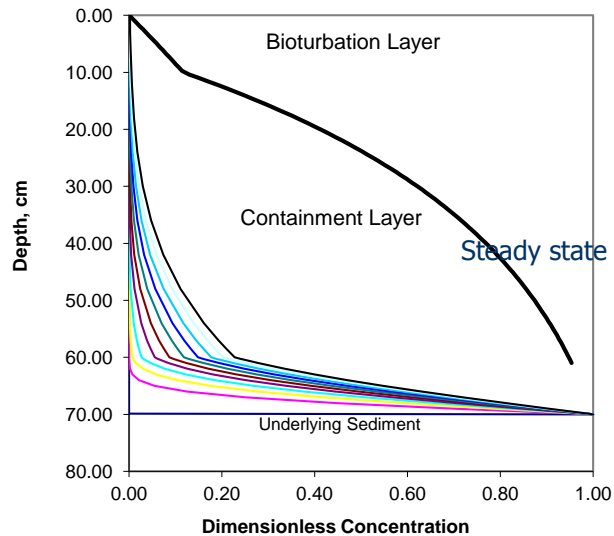
Organoclays



Passive Sampling



Transient Concentration Profiles – Cl Benzene



Modeled permeable sorptive barrier

Passive Sampling for Organics and Metals