Name: Colleen Hoffman
Postdoc working with Randie Bundy (SoO) and Joseph Resing (CICOES)

Current project: Investigating the role of Fe-binding organic ligands in Fe stabilization within neutrally-buoyant plumes across 4 geologically distinct vent fields (Lead PI on NSF grant)

Exciting Cruise Highlights

- SEPR ⇒ conducted two incubations at sea to better understand physiochemical dynamics of trace metal-organic interaction and bioavailability of hydrothermal dFe.

- Escanaba Trough ⇒ Ship based science lead for NOAA team. Conducted a range of water sampling and deployment of MAPRs. Ties in with current project and new vents discovered!
Name: Laramie Jensen
Institution: CICOES (Oceanography/APL)

Subject: High resolution trace metal sampling in the Bering Strait

Details:
• Successful implementation of fieldwork in the Bering Strait (R. Woodgate, APL)
• Clear connection between trace metals and water mass structure
• Plans to go back this fall and examine the role of seasonality
Name: Alexandra McInturf
Institution: Oregon State University

Subject: Examining the foraging ecology and ecosystem impact of Salmon sharks (*Lamna ditropis*) in Northeast Pacific Ecosystems

Details:

- **Objective of study**: determine what salmon sharks are eating, how much, & where they overlap with Chinook salmon & other potential prey items
- Preliminary results:
  - Primarily squid & whiting in salmon shark stomachs (n=12)
- Next steps:
  - Stable isotope analysis
  - Species distribution models & tagging

Cooperative Institute for CLIMATE, OCEAN & ECOSYSTEM STUDIES
Name: Sean McAllister
Institution: CICOES/UW
Subject: Advancing Microbe to Whale Genetic Monitoring through Bioinformatics

Details:
• Bioinformatic pipelines streamline processing time and methodology
• MetaPipe: Metabarcoding Pipeline for processing amplicon-based eDNA datasets for biodiversity monitoring; raw data to figures/tables in 45 min
• Pipeline to streamline Blue Whale genome skimming
Jon Sharp  
CICOES / NOAA PMEL

Ocean Biogeochemistry

- Gridded data products of $p$CO$_2$ and oxygen from observations with machine learning algorithms
- Design and development of software to facilitate Argo data access
- Investigation into internal consistency of ocean carbon measurements

adapted from Sharp et al., in prep
A nutrient budget method is used to give insights into the source of nutrient in the surface ocean at the time-series Station ALOHA and BATS; External nutrient sources, including nitrogen fixation and dissolved organic matter, are important to lead to non-Redfield N:P ratios of export flux in the subtropical gyre.