

Woods Hole Oceanographic Institution Annual Postdoctoral Symposium
15 October 2015
National Academy of Sciences Jonsson Center, Woods Hole, MA

- 8:30am** **Coffee**
Speakers, please arrive at or before this time to load your talks!
- 8:45am** **Welcome, Introduction of new Postdoctoral Association reps**
Randie Bundy, PDA President, Marine Chemistry & Geochemistry
- 9:00–10:20am** **Talks, Session I (Chair: Luke Trusel)**
- 9:00 Yizhen Li, Applied Ocean Physics & Engineering
Processes regulating formation of low-salinity, high-biomass lenses near the edge of Ross Ice Shelf
- 9:15 Lilah Glazer, Biology
What can I learn from my inner fish?
- 9:30 M. Dolores Pérez-Hernández, Physical Oceanography
Two modes of Gulf Stream variability revealed in the last two decades of satellite altimeter data
- 9:45 Carly Buchwald, Marine Chemistry & Geochemistry
Nitrogen cycling in the subsurface biosphere: Insights from the stable isotopes of nitrate and nitrite in porewaters
- 10:00 Shawn Harrison, USGS / Applied Ocean Physics & Engineering
Reading ripples at the bottom of the sea
- 10:20am** **Morning Coffee Break**
- 10:40-12:00pm** **Talks, Session II (Chair: Mattias Cape)**
- 10:40 Yogi Girdhar, Applied Ocean Physics & Engineering
Machine learning and the future of marine robotics
- 10:55 Beata Szymczycha, USGS
Groundwater discharge to the Southern Baltic Sea
- 11:10 Tristan Horner, Marine Chemistry & Geochemistry
The coupled marine biogeochemical cycles of barium and silicon: Correlation does not mean causation, except when it does
- 11:25 Viviane Menenzes, Physical Oceanography
An overview of the South Indian Ocean Circulation
- 11:40 Holly Moeller, Biology
Acquired phototrophy stabilizes coexistence and shapes intrinsic dynamics in planktonic communities
- 12:00-1:30pm** **Lunch**

1:30-2:35pm Talks, Session III (Chair: Lilah Glazer)

- 1:30 Luke Trusel, Geology & Geophysics
Divergent trajectories of Antarctic surface melt under two 21st century climate scenarios
- 1:45 Prosper Zigah, Marine Chemistry & Geochemistry
Marine dissolved organic carbon cycle: Known knowns, known unknowns and new insights from serial thermal radiocarbon analysis
- 2:00 Julie Chen, Applied Ocean Physics & Engineering
Characteristics of wind-generated waves in the Delaware Estuary
- 2:15 Tom Chalk, Physical Oceanography
Can we really reconstruct past ocean circulation from sparse observations?

2:35pm Afternoon Coffee Break

3:00-4:00pm Talks, Session IV (Chair: Holly Moeller)

- 3:00 Brian Claus, Applied Ocean Physics & Engineering
Challenges and opportunities of long duration ocean observing platforms
- 3:15 Laifang Li, Physical Oceanography
Sea surface salinity as a predictor of precipitation in North America
- 3:30 Guangyu Xu, Geology & Geophysics
Quantitative observations of a deep-sea hydrothermal plume using an acoustic imaging sonar
- 3:45 Mattias Cape, Physical Oceanography
Linkages between atmospheric variability, sea ice dynamics, and phytoplankton growth along the east Antarctic Peninsula

4:00pm Closing Remarks

4:10-6:30pm Poster Session / Cocktail Hour

- Poster 1 Kristina Brown, Marine Chemistry & Geochemistry
A Geochemical Journey: Fingerprinting the rivers of the Canadian Arctic Archipelago
- Poster 2 Zhixuan Feng, Biology
Early ice retreat may shift copepod biogeographic boundary in the Arctic Ocean
- Poster 3 M. Dolores Pérez-Hernández, Physical Oceanography
The Atlantic Water boundary current north of Svalbard
- Poster 4 Miao Tian, Physical Oceanography
On the Shoaling of Solitary Waves in the Presence of Short Random Waves
- Poster 5 Julia Gauglitz, Marine Chemistry & Geochemistry
*Influence of available iron on the proteome of the unicellular diazotroph *Crocospaera watsonii* WH8501*

Attendees

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