

**Expedition Log for IODP Expedition 313
New Jersey Shallow Shelf
Week 8**

Allow me to introduce myself. My name is Annick Fehr, I am from Luxembourg and I work for the RWTH Aachen University in Germany. My institute is part of the EPC, the European Petrophysical Consortium. EPC carries out geophysical logging and petrophysical activities for the ECORD Science Operator (ESO).

I joined the platform on June 10th, so a bit more than a week ago. We arrived on a really foggy day and we hardly could see the platform.



Lift Boat Kayd on the morning of the 10th June (Annick Fehr©ECORD/IODP)

I am onboard the L/B Kayd to operate the MSCL, the multi sensor core logger. So, before my colleague Sally Morgan (who did this job for the last six weeks) left, she gave me an introduction to the procedures. Then I could go to sleep, because I am on nightshift, which means I am starting at 6 pm and working till 6 am.

What we basically do is measure the petrophysical properties of the cores. After a core arrives on deck, it first goes to the ESO curator who measures the length, writes down the depth it was drilled and, if needed, cuts it into sections. Then a sedimentologist analyses the core before it finally arrives in our container. We place the core in our scanner where it is pushed through multiple sensors measuring gamma density, p-wave velocity, electrical resistivity and magnetic susceptibility. The results from these measurements are processed and afterwards uploaded into our database, the Drilling Information System (DIS), so they are available to the science party and can be used for further studies. As there is a constant arrival of cores on

deck, 24 hours a day, we work on two 12 hour shifts. On the picture below you can see my colleague Hironori Otsuka, who works the dayshift on the MSCL.



Hironori Otsuka working on the MSCL (Annick Fehr©ECORD/IODP)

The last drilling operations have been completed for Hole M0028A, and coring stopped at a depth of about 674 m. After this, the wireline downhole logging started. This meant no new cores for a while and for us a little break! This means time to do other work, prepare the container for transit or just to chat. With many different nationalities and cultures out here on the platform, it is easy to spend hours talking about life back home, what our home institutions are like or what we are hope to learn from the sediments we are coring.....and of course looking at the sunrise in the morning!

Today, we reached our next drill site (M0029A) and operations will start again.



Sunrise over the 'beach' (Annick Fehr©ECORD/IODP)