

# 再興2011美東教育學習之旅

第十天:7月15日 校內上課—Recreation — Play

今天再回到實驗室開始不同的課程: Jellyfish, Flounder, Clam and Crab 分別到教授的實驗室進行課程學習。

[第十天所有相片檔連結](#)



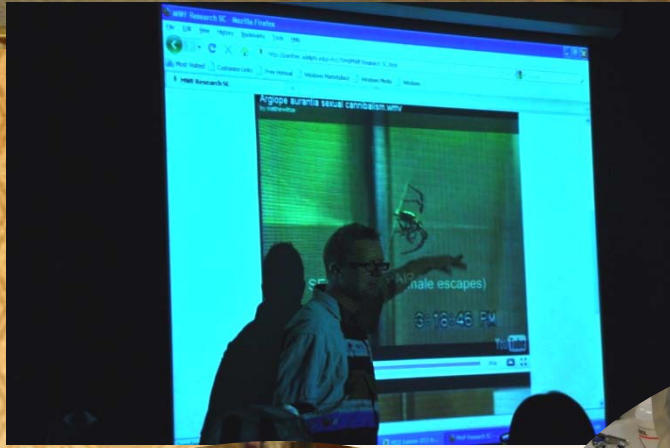


進入實驗室前的討論，幾位Dr. 就前一天的戶外教學情形跟大家做整理提問討論後再由各組TA帶同學至實驗室進入今天新的課程。



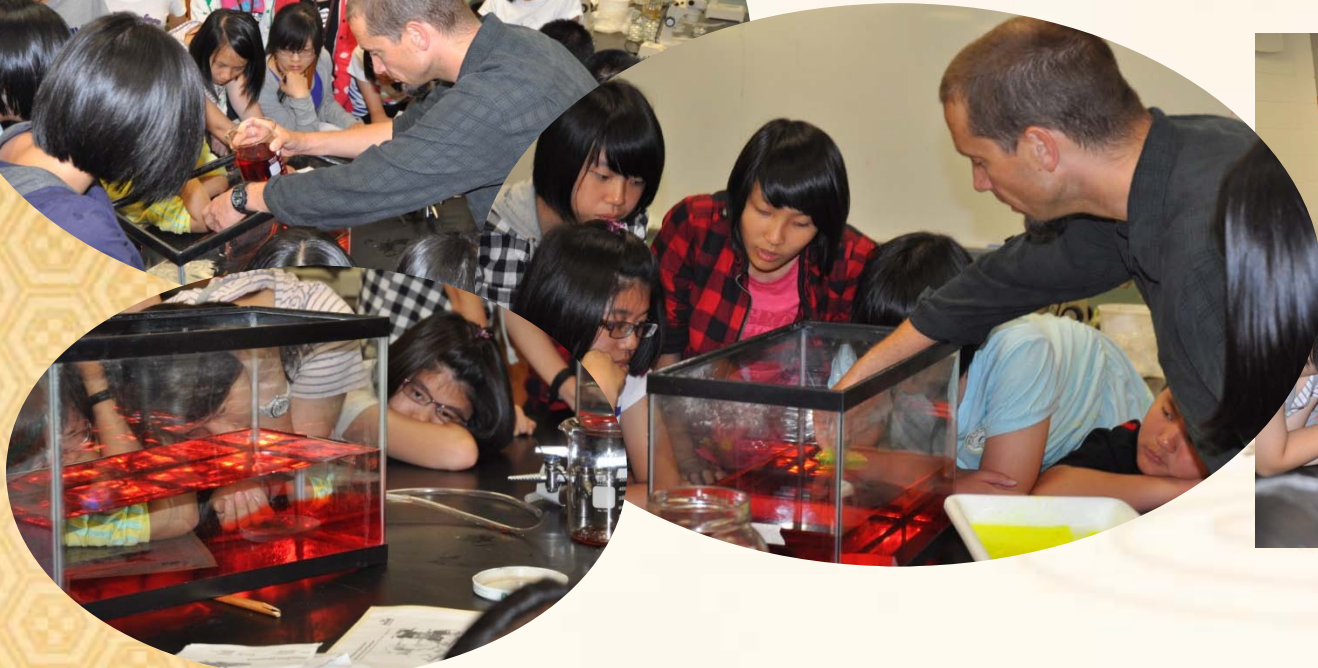
# 30 LABORATORY

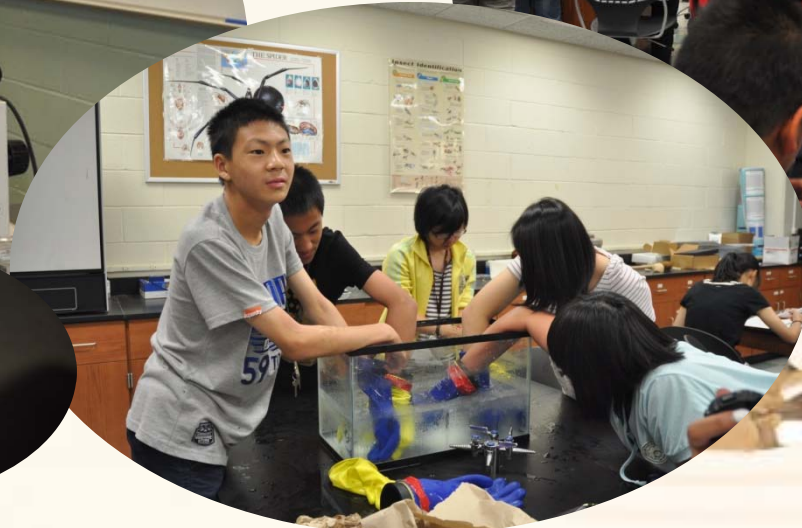
## Jellyfish : Insects 觀察spider並認識它在海洋生態中扮演的角色



# Flounder ; Life in the Water

## 食物鏈、河口生態區內的生物觀察





# 學習心得

Today we had learned about several things, like how it is like living in the estuaries, and the food web. For the food web, we had play a fun game. That all of the students are apart of the estuaries, and the teacher uses a string to connect all the students in the way of eat or been eaten. At the end we got a food web, and the teacher used the food web to tell us that all the creatures in the estuaries are important. After the snack, we used microscopes to look at the plankton in the estuaries, and I had a lot of fun. I found eight kinds of plankton. At last we had another experiment about keeping warm in the Atlantic Ocean or in the deep ocean. The teacher said animals like whales and seals that live in the Atlantic have a lot of fat, so they can keep warm in the frozen ocean. Putting our hands in the frozen water makes us feel freezing, it is so cold, and some of the boys are so brave. They put their hands in the frozen water for so long and the longest one is five minutes. This lesson is so fun.

You really learned a lot from this cause!  
by 廖瑋怡 Paige

By Paige Liao

Date: 9/15

In the class, I learned many things. First, <sup>the</sup> teacher gave us <sup>each</sup> person one card. In the card it writes the animal's name, and what ~~to~~ they eat, what they eat by, and then we made a web, where everybody has five lines, we called that "food web". Second, we know if the fresh water and the ocean water meets together, the ocean water will sink, so they won't mix. If something is in the middle <sup>of the fresh water</sup> and put the ocean water in, it will mix together. And then we used the microscope to see many creatures in the ocean water. I saw Diatoms, Ciliates, Polychaete and also the small ~~larvae~~ <sup>larvae</sup>, its cute!!

very good!

By Bobo Lee

Bobo

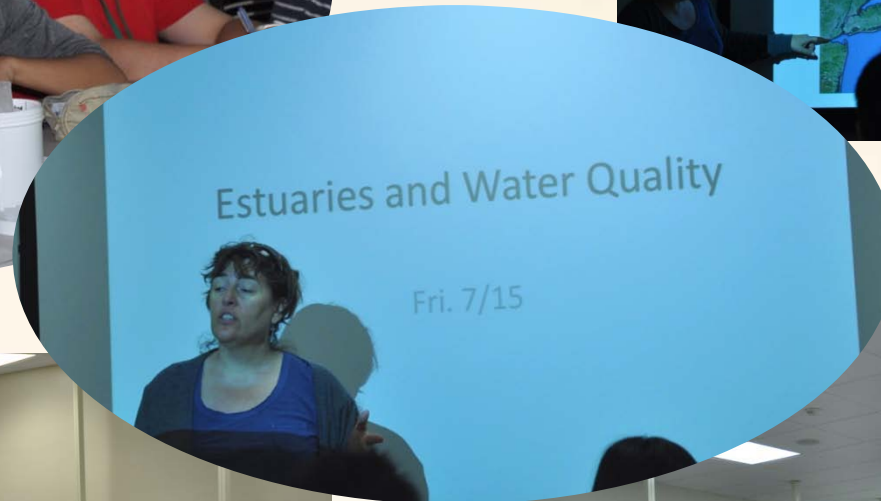
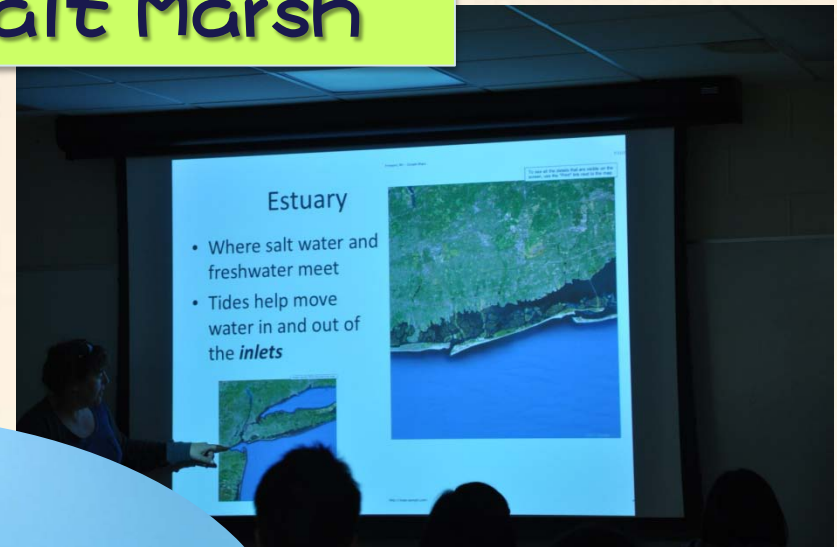
By Jacky Hung

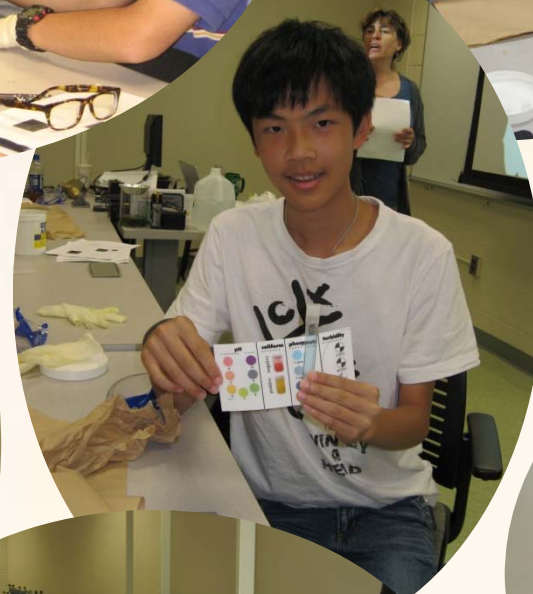
Today 7/16

Yesterday, we went to the beach and saw a lot of animals. Today, although we were just staying in the classroom and saw some microbe. We lost the temperature and the salt too. We know ice water <sup>is colder</sup> than hot water, so ice water is on hot water. And the same, ocean water is under river water. I learned a lot of it, and have a <sup>much</sup> ~~more~~ fun.

good!

# Clam & Crab : Salt Marsh





# 學習筆記與心得

Angel Lu 路麗娟 July 15, 2011  
心得:  
Today we learned how to distinguish if it is an estuary. The tip is that an estuary must have a river and ocean, and we tried to find the estuary from the photo too.  
We measured Temperature, pH, Nitrate and Phosphate by the lab activities. The most fun part I like is shaking the color change. Being patient is the best way when we wait for the effect of the lab color. Because of the efforts we paid, we felt pleasure when we had the experiment.  
It was such a nice experience today, and I want to thank everyone!  
2/5 good!

Today we did a test on pH, phosphate and nitrate which turns to a different colors from a small ring tablet. The water from sample A to sample C were all different, the saltiness was different as well. That made the result different. Although I think this laboratory work was a little boring, and the table to change colors was also slow, but I still learned a lot that I felt strengthened.  
I learned pretty much from ~~the~~ Dr. Beth today at least I can learned six out of ten I think, it was pretty good experience.  
Jo Tuan  
廖君如

Dear, Cherry  
Our teacher today is Dr. Beth. We learned many things about estuary and water quality. But I think the experiment was boring, we just shaking, shaking, and shaking. (Ha, ha, ha) the phosphate concentrations and nitrate concentrations were not change much more their color even though we waited and waited for more minutes. Although I know the experiment were was show us how the three samples were different as, I still think that's boring. But I like Dr. Beth's class, she taught in an interesting way.  
However, I think it's a great

Our class started at nine thirty, I am tired today. Because I need to take a note. We also did the experiment. There are several different things between Taiwan and Adelphi, such as teaching methods and a lot of things. I feel there are much fun than Taiwan. (By Joe Liao)

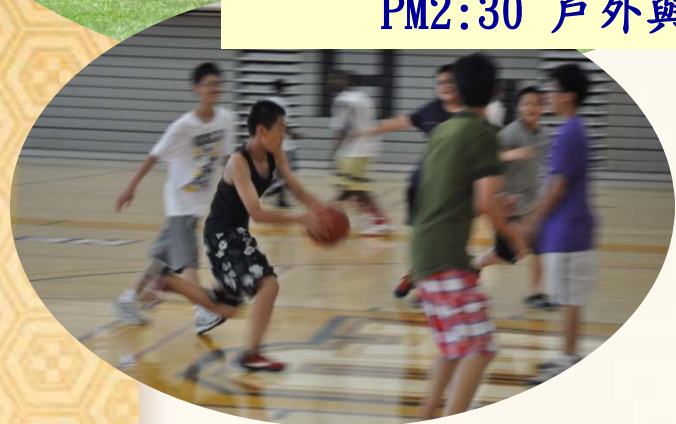
The teachers in Taiwan are usually tell us the formulas. But in the USA the teachers here tell us the concept, so we can understand the hard words easily. As for the experiment, no matter it was to research the PH, the phosphate, or the nitrate, I had a fun time enjoying in it. Without respect to the classroom or the environment, I like here much more!! We can study hard without the high pressure. It's the great place where we can study in! ( By Wendy Kao)

We went to the bay yesterday, so the teacher told us something about there today. Now I know how recognize which letter indicates an estuary. Although everyone often goes to the estuary, we never think of this question. Today we also conducted some lab experiments by our own fair hands about marine science's. The activity like this is different from the education in Taiwan. I think the class is more interesting, and we can find more different things by ourselves. (By Tiffany Chen)

We did the water quality experiment today, and we took a view of its temperature, nitrate concentrations, PH, phosphate concentrations observing. These things are quite interesting. We tried the different kinds of pills into the water to examine different characteristics. For example, PH, temperature.....After five minutes, it changed color, that you will learn some information from it. Today's class is very substantial. (By Gary Chou)



PM2:30 戶外與室內的運動時間：排球、網球、足球、籃球



PM6:40 當同學於6:30去上PLAY課程時, 董事長為大家載來美味食物喔



PUSH! 把  
滿月推高



PM8:30 當PLAY課下課時, 張主任集  
合為明後天週末行做說明及交代同  
學注意安全等事宜

