



海洋学实验教学中心

# GFD Lab Experiment Pedagogy at Ocean University of China

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Ocean Univ. of China

# Brief introduction

- GFD Lab Experiment Curriculum is part of the Lab Experiment Pedagogy Center in College of physical and environment Ocean (CPEO)
- GFD experiment pedagogy started this year and Prof. Hongmin Lu is in charge of this. Chen Chen is the TA, second year graduate student.
- Homepage of Lab Experiment pedagogy center in CPEO
- <http://cpeo.ouc.edu.cn/lab>
- Introduction video of Lab center (Chinese version)
- <http://cpeo.ouc.edu.cn/lab/video.aspx>





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- ▶ 学院举办大学生科技创新活动经验交流会
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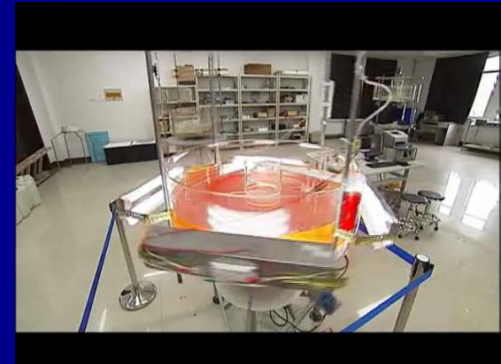
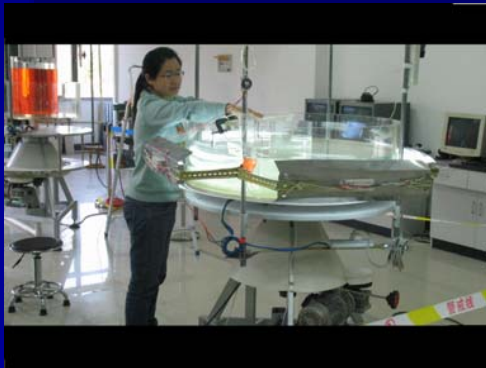


==校内资源==

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# Physical Oceanography Lab experiment Course

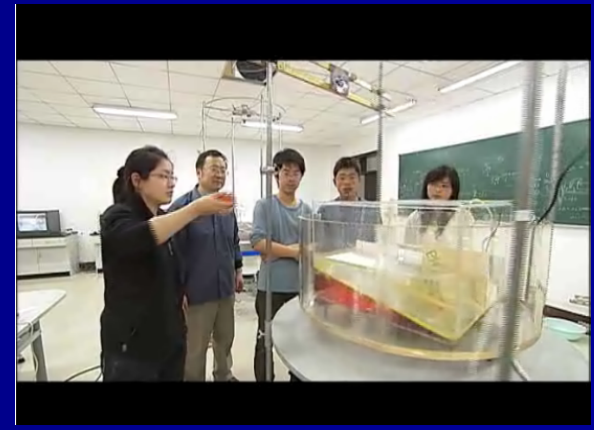
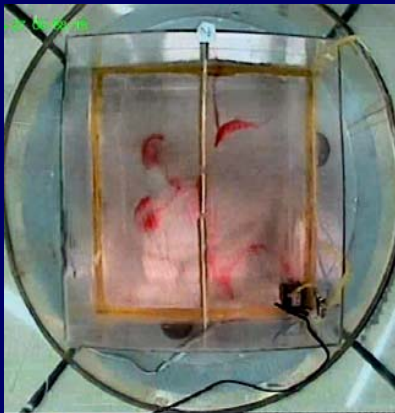
- some demos are based on the website materials of the MIT, Whoi, UW, UC, etc. really appreciate the shared pedagogy materials on the website.
- Mainly for Physical Oceanography and meteorology related undergraduate student
- Curriculum Require: Experiment Report ( data analysis, programming) and Experiment modification
- Example demo (Chinese Version)
- <http://cpeo.ouc.edu.cn/lab/ShowInfo.aspx?id=85>
- Notes (Chinese version draft)
- <http://cpeo.ouc.edu.cn/UserFiles/wlhy04.pdf>
- PPT (Chinese version draft)
- <http://cpeo.ouc.edu.cn/userfiles/wulijy05.pdf>
- Some experiment Demo videos are not included in the draft





# Content of the experiment demo and exercise

- Wind wave experiment
- Air-sea boundary experiment
- Coriolis effect
- Foucault's Pendulum
- Taylor columns
- Rossby wave
- Source and sink driven flow
- Stommel Arons Faller Experiment
- Gap-leaping current and eddy formation
- Some are under revision and not included in the PPT and note.



# Key Lab of Physical Oceanography

- Some Profs. In Key Lab of Physical Oceanography design Lab Experiment for research purpose, e.g. Prof. Changlong Guan, Prof. Wei Wang, Prof. Zhaoting Xu etc. They give constructive suggestions to the pedagogy of lab experiment.
- <http://cpeo.ouc.edu.cn/2006/lab/new/>
- [wei@ouc.edu.cn](mailto:wei@ouc.edu.cn)