2013 Nuclear Energy Summer School in China
Objectives of the Summer School

- Increase international and globalization experience for undergraduates
- Promote educational exchange between TAMU and HEU
- Visit nuclear power plants under constructions
- Understand better system level integration
- Cultural exchange

TAMU:
13 undergraduate students (NE) + three faculties (Shao, Kurwitz and Skoda)

HEU (Harbin Engineering University):
17 undergraduate students (NE) + faculties

Funding support (TAMU side)
$1500 per student from Dean
$500 per student from NE department (great thanks to Dr. Hassan)
$1500 per student from student self support / financial aid
5 day lecturing at Harbin Engineering Univ.
2 day tour in Beijing
1 day tour of Hongyanhe CPR1000 MW Nuclear Power Plant under construction
1 day tour of Sanmen AP1000 Nuclear Power Plant
1 day tour of Daya Bay Nuclear Power Plants

Dalian
Harbin
Beijing
Sanmen
Daya Bay
<table>
<thead>
<tr>
<th>Unit</th>
<th>Type</th>
<th>Construction</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hongyanhe 1</td>
<td>CPR-1000</td>
<td>08/2007</td>
<td>10/2012</td>
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<tr>
<td>Hongyanhe 2</td>
<td>CPR-1000</td>
<td>03/2008</td>
<td>2014</td>
</tr>
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<td>Hongyanhe 3</td>
<td>CPR-1000</td>
<td>03/2009</td>
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<td>Hongyanhe 4</td>
<td>CPR-1000</td>
<td>08/2009</td>
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<tr>
<td>Sanmen 1</td>
<td>AP-1000</td>
<td>04/2009</td>
<td>10/2013</td>
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<tr>
<td>Sanmen 2</td>
<td>AP-1000</td>
<td>12/2009</td>
<td>06/2014</td>
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<tr>
<td>Unit 6</td>
<td>PWR-1000</td>
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Established in 1953
32,000 students
Having the largest NE program in China (over 1000 students)
An agreement to promote educational exchange was signed in 2011
First Nuclear Energy Summer School started in 2012
First day in China
Main activities at HEU

• Five day lectures
• Hand on experience on reactor simulator
• Lab tour
• Factory tour
• Cultural exchange

Nuclear Energy Summer School counted as 2 credit hours.

Final grading=30% final exam + 70% report
Tour of the local factory for assembling Nuclear Power Plant Primary Pumps
Overnight train from Harbin to Dalian
Hongyanhe Nuclear Power Plant (Dalian)
辽宁红沿河核电厂机组模型
1:150
Visit Beijing Nuclear Power Design Institute (ACP1000)
Sanmen Nuclear Power Plant (Zhejiang)
A Warm Welcome to
Summer School Delegation from
Harbin Engineering University
and TA&M University
for visiting Sanmen NPP
BBQ with Westinghouse Engineers (Sanmen)
Visit Daya Bay Nuclear Power Plant (Shenzhen)
Fuel loading/reloading training center (Daya Bay)
Fuel loading/reloading training center (Daya Bay)
Tiger Park (Harbin)
Tiananmen (Beijing)
Forbidden City (Beijing)
Great Wall (Beijing)
The **best** part of the study abroad experience was:

- **The cultural experience.** I had a Chinese partner with me almost everywhere I went. He and the other Chinese students were very eager to show us their culture. It was great!! What better way to look at ourselves? What better way is there to learn their culture? I will cherish this experience.
- **Learning the language, dinners, and exploring China.**
- **Meeting new people and learning more about the local culture and status quo.**
- **The best part was being surrounded by the culture.** We had the chance to live in a place that I have never been too. It was a great cultural experience.
- **Family style meals that allowed for social interaction while allowing all to choose the food they wanted.** Meal times were great for sparking discussion with the Chinese students and also comforting in allowing the Americans to talk about the experience among one another.
- **Seeing the famous landmarks and the course field trips** tremendously helped my understanding.
- **Getting to spend time with students at HEU.**
- **The cultural immersion.** I loved getting to experience the food and people of China!
- **The breadth of China covered.**
- **Cultural activities and sites (Great Wall and Forbidden City).** Everything was great though.
- **The best part was getting to know the professors and students in my major.** The NNSA speech was awesome, one of a kind and eye opening.
- **Getting familiar with Chinese college students lives.** Exchanging customs with Chinese partner. Negotiating in purchases.
- **All the different cities and power plants that were visited.** The Great Wall was awesome.
- **Cultural immersion and getting to see the NPP.**
What *impact* will this program have on your career/life plans or personal goals?

• Getting a better understanding regarding the related industries in China and building connections with the local professionals.
• I now feel much more comfortable traveling to Asia.
• It showed me what life is like on Chinese nuclear construction projects. I am no longer interested in working or studying in China. I gained a fundamental understanding of nuclear reactor primary and secondary loops, something I had not yet learned in class at A&M.
• I learned a lot about how the nuclear plant works.
• I have a better respect for China as an international business center and educational hub for young students.
• I think this will help make me a more well-rounded individual. It will show that I am capable of taking a cultural experience if necessary in my future career.
• Additional insight on the globalizations of the nuclear industry.
• It gave me a better view of the industry beyond the U.S. I also learned things that may be good for the U.S. to try. This trip reinforced my desire to go in to the power industry and gave me a new perspective.
• This trip has shown me what my international limits are. It has broadened my understanding of nuclear power and the global implications of our industry.
• New perspective makes me content with traveling abroad for employment. Greater desire to visit Japan.
• This program will greatly enhance my international respect and understanding. I believe this will allow me to relate much more than if I would not have gone.
• It allowed me to see different parts of the industry.
Send emails to Ishao@tamu.edu (Lin Shao) or kurwitz@tamu.edu (Kable Kurwitz) for any questions.

Respond quickly NOW to secure a spot.