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## Summer School on Global Climate Change and Environment Vulnerability

June 23- July 4, 2014

Xiamen • China

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## About the Summer School

The Summer School on “Global Climate Change and Environment Vulnerability” is jointly organized by Xiamen University (XMU), San Diego State University (SDSU), Taiwan Yunlin University of Science and Technology and Taiwan Ilan University. The Summer School is designed especially for university undergraduate students.

Based on the first MoU, College of the Environment and Ecology, Xiamen University, renewed an agreement with College of Sciences, San Diego State University in Oct. 2013, on cooperation of the academic exchange and student summer research school program. This summer school will be the third experience between two institutes. About Thirty undergraduate students from Xiamen, the USA and Taiwan will be recruited for this year. We will provide participants with quality learning, key concepts and current update in various aspects of environmental science. We are looking forward to your joining this summer.

Date: 23 June- 4 July, 2014

Venue: A239, CEE Building (Xiang’an Campus), Xiamen University

Language: English

Sponsors:

Xiamen University, China

Organizing committee:

Xiamen University: Dazhi Wang, Jinjing Luo

San Diego State University: Samuel Shen, Chun-Ta Lai

Taiwan Yunlin University of Science and Technology: Jao-Jia Horng

Taiwan Ilan University: Chin-Jung Lin

Lecturer Topics:

- Global climate change
- Quantitative assessment and prediction of climate change
- Environmental proxies for paleoclimate reconstruction, paleoclimate records and abrupt climate change
- Health effects of ambient particulate matter
- Field trip and activities

Field studies:

A fieldtrip to Xiamen Wanshi Botanical Park, Zhangjiangkou Mangrove National Nature Reserve and several field courses will be organized.

Cultural studies:

Cultural & social events will be organized during the summer school.



**Target Group:**

- Undergraduates in the areas of Environmental Science, Ecology, Biology, Oceanic and Atmospheric Science are welcome to attend the summer school. Participants are welcome to attend the student forum, presenting oral presentations.



### Lecture Schedule

Date	Time	Program	Chair or Lecturer	Venue
June 22 <b>SUN</b>	15:00-17:00	On-site Registration & Hotel Check-in	Carrie Lee Heng Zhu	Lobby of CEE Bldg. B
June 23 <b>MON</b>	09:10-10:15	Xiang'an Campus tour	Qiang Niu Jingjing Lu Minghua Wang Qiaoguo Tan	Gather at Lobby of CEE Bldg. B
	10:30-11:30	Opening ceremony and group photo	Jinjing Luo	CEE Bldg. A239
	12:00	Welcome reception	Organizing committee	Jingfeng Canteen
	13:30	Jimei Study Village, Turtle Park and Main Campus	Qiaoguo Tan Minghua Wang Jingjing Lu	
June 24 <b>TUE</b>	09:00-11:15	Global climate change	Alan Sweedler	CEE Bldg. A239
	14:30-16:45	Group discussion	Sam Shen Chun-Ta Lai Jinjing Luo Qiaoguo Tan	CEE Bldg. A239
June 25 <b>WED</b>	09:00-11:15	Global Climate Change and Vulnerability of Coastal Wetland Ecosystem	Yihui Zhang	CEE Bldg. A239
	14:30-16:45	Group discussion	Sam Shen Chun-Ta Lai Jinjing Luo Qiaoguo Tan	CEE Bldg. A239
June 26 <b>THU</b>	09:00-11:15	Paleoclimate records and abrupt climate change	Chun-Ta Lai	CEE Bldg. A239
	14:30-16:45	Climate data analysis and climate change uncertainty quantification, part I	Sam Shen	CEE Bldg. A239
June 27 <b>FRI</b>	09:00-17:00	Field trip to Zhangjiangkou Mangrove National Nature Reserve in Yunxiao	Sam Shen Chun-Ta Lai Jinjing Luo Yihui Zhang Qiaoguo Tan	



Date	Time	Program	Chair or Lecturer	Venue
June 30 <b>MON</b>	09:00-11:15	Biological response and feedback in a warming climate: vulnerability of the Arctic ecosystem	Chun-Ta Lai	CEE Bldg. A239
	14:30-15:30	Climate data analysis and climate change uncertainty quantification, part II	Sam Shen	CEE Bldg. A239
	15:45-16:45	Group discussion	Chun-Ta Lai Sam Shen Jinjing Luo Qiaoguo Tan	CEE Bldg. A239
July 1 <b>TUE</b>	09:00-11:15	Introduction of atmospheric chemistry	Yee-Lin Wu	CEE Bldg. A239
	14:30-16:45	Group discussion	Chun-Ta Lai Sam Shen Jinjing Luo Qiaoguo Tan	CEE Bldg. A239
July 2 <b>WED</b>	09:00-16:15	Field trip to Wanshi Botanical Park in Xiamen	Jinjing Luo Shengchagn Yang	
July 3 <b>THU</b>	09:00-11:15	Greenhouse Gases Emission Inventory and Complex issues	Jao-Jia Horng	CEE Bldg. A239
	14:30-16:45	Group discussion	Sam Shen Chun-Ta Lai Jinjing Luo Qiaoguo Tan	CEE Bldg. A239
July 4 <b>FRI</b>	09:00-11:30	Student presentation	Jinjing Luo Sam Shen Chun-Ta Lai Qiaoguo Tan	CEE Bldg. A239
	14:30-17:30	Student presentation Conclusion meeting	Jinjing Luo Sam Shen Chun-Ta Lai Qiaoguo Tan	CEE Bldg. A239
	18:30	Closing ceremony and Farewell dinner	Organizing committee	TBC



## Teaching Faculty

No.	Name	Title	Affiliation	Email
1	Alan Sweedler	Professor	Department of Physics, San Diego State University, USA	asweedle@sciences.sdsu.edu
2	Chun-Ta Lai	Associate professor	San Diego State University, USA	chun-ta.lai@mail.sdsu.edu
3	Jinjing Luo	Associate professor	College of the Environment and Ecology, Xiamen University	luojj27@xmu.edu.cn
4	Jao-Jia Horng	Professor	Taiwan Yunlin University of Science and Technology	horngjj@gmail.com
5	Samuel Shen	Professor	Department of Mathematics and Statistics, San Diego State University, USA	shen@math.sdsu.edu
6	Shengchang Yang	Associate professor	College of the Environment and Ecology, Xiamen University	scyang@xmu.edu.cn
7	Qiaoguo Tan	Associate professor	College of the Environment and Ecology, Xiamen University	tanqg@xmu.edu.cn
8	Yee-Lin Wu	Professor	Department of Environmental Engineering, Taiwen Cheng Kung University	ylwu@mail.ncku.edu.tw
9	Yihui Zhang	Associate professor	College of the Environment and Ecology, Xiamen University	zyh@xmu.edu.cn



### Student Contact List

No.	Name	Major	E-mail	Phone
1	Barbara Sperberg	Climate change and math	<a href="mailto:barbara.Sperberg@hotmail.com">barbara.Sperberg@hotmail.com</a>	
2	Charlayne Lopez	Environment science	<a href="mailto:cherrie_lane_22@yahoo.com">cherrie_lane_22@yahoo.com</a>	
3	Che-kai Lin	Environmental Engineering	<a href="mailto:lonely-song@hotmail.com">lonely-song@hotmail.com</a>	
4	Christian Junginger	Climate change and math	<a href="mailto:junginge@rohan.sdsu.edu">junginge@rohan.sdsu.edu</a>	
5	Eddie A Alvarez	Environment Science	<a href="mailto:ealvarez100@aol.com">ealvarez100@aol.com</a>	
6	Eric Rodriguez	Climate change and math	<a href="mailto:eroducsb@hotmail.com">eroducsb@hotmail.com</a>	
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14	Ling Wu	Environmental Science	<a href="mailto:363626519@qq.com">363626519@qq.com</a>	18850208379
15	Melanie Thorn	Climate and math/stats	<a href="mailto:mthorn55@outlook.com">mthorn55@outlook.com</a>	
16	Pei-Ling Liao	Environmental Engineering	<a href="mailto:b10014055@yuntech.edu.tw">b10014055@yuntech.edu.tw</a>	
17	Qian Luo	Ecology	<a href="mailto:363804234@qq.com">363804234@qq.com</a>	15980855801



No.	Name	Major	E-mail	Phone
18	Shuhan Wen	Environmental Science	<a href="mailto:309559876@qq.com">309559876@qq.com</a>	18850311796
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20	Wei-Chieh Cheng	Environmental Engineering	<a href="mailto:chenjeffeav@yahoo.com.tw">chenjeffeav@yahoo.com.tw</a>	
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23	Yi-Lin Zhen	Environmental Engineering	<a href="mailto:b1000003@yuntech.edu.tw">b1000003@yuntech.edu.tw</a>	
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25	Yun-Wen Zhen	Environmental Engineering	<a href="mailto:b10014044@yuntech.edu.tw">b10014044@yuntech.edu.tw</a>	
26	Yuxiu Zhu	Environmental Science	<a href="mailto:986541042@qq.com">986541042@qq.com</a>	18759868063
27	Zhanwen Cheng	Environmental Science	<a href="mailto:769133244@qq.com">769133244@qq.com</a>	15759266029
28	Zi-Xuan Li	Environmental Engineering	<a href="mailto:a5275288@yahoo.com">a5275288@yahoo.com</a>	





### SDSU - XMU Students Pair List

<b>Group No.</b>	<b>SDSU Students</b>	<b>Taiwan Students</b>	<b>XMU Students</b>
1	Christian Junginger	Yu Huang	Xiya Tao
2	Charlayne Lopez	Che-kai Lin	Hongjia Dong
3	Eddie A Alvarez	Liang Chiu	Wanfen Zhu
4	Barbara Sperberg	Wei-Chieh Cheng	Shuhan Wen
5	Melanie Thorn	Guan-Yi Zhou	Yuxiu Zhu
6	John Luu	Zi-Xuan Li	Xiaofang Wu
7	John Mackenzie	Yi-Lin Zhen	Ling Wu
8	Gregori Jerome Clarke	Pei-Ling Liao	Zhanwen Cheng
9	Eric Rodriguez	Yun-Wen Zhen	Qian Luo & Jie Yu



## Important Information for Participants

### 1. Registration

Date: June 22, 2014 (Sunday)

Time: 15:00-17:00

Venue: CEE cafe, CEE Building, Xiang'an Campus, Xiamen University  
South Xiang'an Road, Xiang'an District, Xiamen, China, 361102  
(厦门市翔安区翔安南路厦门大学环境与生态学院咖啡厅)

- You will collect your T-Shirt, name badge and e-card.
- An electronic version of handbook will be used for environmental protection.
- Please wear your badge all the time.
- Please wear the T-Shirt for the opening ceremony.
- **PLEASE RETURN YOUR E-CARD BEFORE YOU LEAVE XIAMEN.**
- **PLEASE DON'T DRINK OR EAT IN THE CLASSROOM, EXCEPT WATER.**

### 2. Accommodation:

All SDSU & Taiwan participants will stay in the Student Apartment on Xiang'an Campus, Xiamen University.

- Every participant will own one single room.
- Please bring along your room key card all the time. For any loss or damage, participants will be required to pay the cost for replacement.
- The bedding s and the internet access are available in the room except the telephone, washing machine and TV set.

### 3. Meals

- SDSU & Taiwan participants will be given with XMU e-cards, which can be used in CEE Café, student cafeteria and supermarket on the campus of Xiamen University.
- 500 Yuan RMB will be deposited to SDSU students' e-card while 250 Yuan RMB for Taiwan students (according to the Agreement), which is NOT refundable.
- Cash is not acceptable in most cafeterias on campus except on the 3rd floor of Jingfeng Canteen (竞丰餐厅).
- Dining on campus: there is only one cafeteria on the campus, Jingfeng Canteen with a small Muslim Canteen (清真食堂) on the 2<sup>nd</sup> floor.
- Dining off campus: several restaurants can be found opposite to the South Gate.

### 4. Internet access:

- Participants are suggested to bring your own computer for course exercise.
- Wireless internet is accessible in the classroom (Username: A239, Password: A239) and CEE cafe in CEE Building (Username: cee, No password).



- Course materials and photos will be uploaded and shared in the FTP.

Address: <ftp://210.34.4.87>

Username: 2014summerschool Password: 2014summerschool

### 5. Photocopy

- Participants can use the copying machine at A209 to photocopy. Please ask for the account and password from Carrie Lee at A208.

### 6. Library

- Online service: library resources can be accessed at <http://library.xmu.edu.cn>

### 7. Shops & supermarkets

- On campus: Hongrunfu Supermarket (鸿润福超市)

### 8. Electricity

- The standard domestic power supply in China is 220 V AC at 50 Hz.

The standard sockets are two parallel lines and three lines as shown on the right photo



### 9. Insurance

- No responsibility can be assured for any kind of personal accidents, sickness, theft, or property damage suffered by conference participants. Participants are advised to arrange whatever insurance they consider it necessary.

### 10. Weather

- Xiamen is a subtropical coastal city. The temperature in July is between 25-35°C, with an average of 28°C. The average precipitation in July is about 187 mm. You are recommended to have summer dress and bring umbrella with you.
- Xiamen weather Forecast:  
<http://www.weather-forecast.com/locations/Xiamen/forecasts/latest>

### 11. Useful Numbers:

- Telephone country code: +86
- Telephone area code: 592
- Police: 110
- Fire Department: 119
- Ambulance: 120
- Local directory assistance: 114, 12580 (service in Chinese only)
- Xiamen Lianhua Hospital (厦门莲花医院): 3757777
- Xiamen University Hospital (厦大医院): 2186203
- Xiamen No.1 Hospital (第一医院): 2137327
- Xiamen Hospital of T.C.M (中医院): 5579686



## Transportation

### Taxi

Taxis can be hailed down with ease, except for the rush hour 17:00 to 18:00. The taxi fare charge in Xiamen is 8 RMB (9.6 RMB during the time 11 pm to 5 am) for the first 3 km and 2 RMB per km thereafter. Fares are subject to 2 RMB gas surcharge each journey.

### Public Bus

Several public transport routes are available within the city. You can take No. 751 Bus outside the school gate from Xiang'an Campus to Siming Campus (Main Campus). A fare of 2 RMB must be entered into a box on entry, therefore, change is required. The city buses are equipped with air conditions.

### More information about Xiamen public transportation

- **Visit TD Wireless City (in Chinese):**  
<http://www.xiamentd.com/app/mybus/>
- **Visit the site from your mobile phone:**  
[wap.xiamentd.com](http://wap.xiamentd.com)
- **Download the app "MyBus"**  
<http://mybus.xiamentd.com/include/downloadResult.jsp>.