

7th ISPRS WG VI/5 and Student Consortium Summer School
 Spatial Information Sciences for Environmental Monitoring
 October 8-12, 2011
 National Central University, Jhongli, Taiwan

Report on the 7th ISPRS WG VI/5 and Student Consortium Summer School
 by Chao-Yuan Lo

INTRODUCTION

ISPRS WG VI/5 and the Student Consortium (SC) hold the 7th Summer School at the National Central University (NCU), Jhongli, Taoyuan, Taiwan during Oct. 8-12, 2011. At NCU our host was the Center for Space and Remote Sensing Research (Director Prof. L.C. Chen), while a large part of the organizational work for the School was taken over by Prof. Fuan Tsai. The primary objective of this summer school was to improve technical knowledge and expand social networks. The theme of the 7th Summer School is “Spatial Information Sciences for Environmental Monitoring” and the overall program is illustrated in the Figure below. The lectures include Image Quality Assessment (Prof. Taejung Kim), Agriculture Monitoring (Dr. Nguyen Thanh Son), UAV in Geomatics (Prof. Impyeong Lee), Automated DSM Generation (Prof. Emmanuel Baltsavias), Ocean Remote Sensing (Prof. Cho-Teng Liu), Terrestrial LIDAR (theories, practical labs, and model reconstruction) (Prof. Tee-Ann Teo and Prof. Fuan Tsai), and a field trip (Prof. Chung-Pai Chang). The number of participants reached 48 who came from 16 different countries. The detailed information on participants is listed in the Table below.

PROGRAM SCHEDULE AT A GLANCE – 7th ISPRS Student Consortium and WG VI/5 Summer School

**SPATIAL INFORMATION SCIENCES FOR ENVIRONMENTAL MONITORING
 8 – 12 October 2011, National Central University, Jhongli, Taoyuan, Taiwan**

	7 October Friday	8 October Saturday	9 October Sunday	10 October Monday	11 October Tuesday	12 October Wednesday	13 October Thursday	
8:30		Opening Ceremony	Session 5: UAV in Geomatics (Prof. Impyeong Lee)	Field Trip (Prof. Chung-Pai Chang)	Session 9: Ocean Remote Sensing (Prof. Cho-Teng Liu)	Session 13: TLS Data Processing (Prof. Tee-Ann Teo)	Optional Event	
9:00	Pre-Registration at ACRS2011 Venue	Session 1: Image Quality Assessment (Prof. Taejung Kim)	Session 6: UAV in Geomatics (Prof. Impyeong Lee)		Coffee Break	Session 10: Ocean Remote Sensing (Prof. Cho-Teng Liu)		Session 14: TLS Model Reconstruction (Prof. Tee-Ann Teo)
9:30		Coffee Break	Coffee Break		Coffee Break	Coffee Break		
10:00		Session 2: Image Quality Assessment (Prof. Taejung Kim)	Session 7: Agriculture Monitoring (Dr. Nguyen Thanh Son)		Lunch	Session 11: TLS Fundamentals (Prof. Tee-Ann Teo)		Session 15: Student Papers
10:30		Coffee Break	Coffee Break		Lunch	Coffee Break		Coffee Break
11:00		Session 3: Automated DSM Generation (Prof. Emmanuel Baltsavias)	Session 8: Agriculture Monitoring (Dr. Nguyen Thanh Son)		Break	Session 12: TLS Data Acquisition (Prof. Fuan Tsai)		Session 16: Student Papers
11:30	Registration and Accommodation at NCU	Session 4: Automated DSM Generation (Prof. Emmanuel Baltsavias)	Break		Break	SC General Assembly, Closing Ceremony		
12:00		Break	Break		Break	Break		
12:30		Break	Break		Break	Break		
13:00		Break	Break		Break	Break		
13:30		Break	Break		Break	Break		
14:00		Break	Break		Break	Break		
14:30		Break	Break		Break	Break		
15:00		Break	Break		Break	Break		
15:30		Break	Break		Break	Break		
16:00		Break	Break		Break	Break		
16:30		Break	Break	Break	Break			
17:00		Break	Break	Break	Break			
17:30		Break	Break	Break	Break			
18:00		Break	Break	Break	Break			
18:30		Break	Break	Break	Break			
19:00		Break	Break	Break	Break			
19:30		Break	Break	Break	Break			
20:00		Break	Break	Break	Break			
20:30		Break	Break	Break	Break			
21:00		Break	Break	Break	Break			
21:30		Break	Break	Break	Break			

LEGEND:

Theory (incl. demonstrations)	Practical work, labs	Ceremonies and business events	Student paper sessions	Social events	Optional Event (NOT included in registration fees)	Optional Event (Partially covered by registration fees)
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The program of the 7th ISPRS SC Summer School

The countries of the participants

Nationality	Number	Nationality	Number
Egypt	1	China	1
Indonesia	2	Slovenia	2
India	4	Mongolia	2
Thailand	2	Nepal	1
Taiwan	19	Japan	3
Vietnam	3	Iran	1
Philippines	3	Gambia	1
Honduras	1	Malaysia	2
Total			48

In addition to the lectures, there were two social events to establish the social network and experience the local culture. The first event was to visit the Chungli night market and try traditional Taiwanese food. The second event was a party for student participants to provide the opportunity for communication in a relaxing and friendly atmosphere.

Lectures

The 7th ISPRS SC summer school took place right after the 32nd Asian Conference on Remote Sensing (ACRS2011). More than 20 participants arrived at the National Central University by the shuttle bus after ACRS. The registration began in the afternoon of Oct. 7, and an icebreaker dinner was also held in the evening. This dinner was the first communication among student participants, faculty and staff of the summer school. Within this summer school, seven professors and one post doctor shared their knowledge and experience of remote sensing and spatial information sciences with the participants. On the other hand, the local organizers also held the competition of best paper and best presentation awards to encourage participants to introduce their research activities. The winners of best paper and best presentation are Kamolratn Chureesampant and Sang Mendy respectively. Besides the classroom lectures, Prof. Chung-Pai Chang organized the field trip to visit the 921 Earthquake Museum of Taiwan in Taichung city. This museum provided participants in-depth insight into the geological changes after the 1999 Chi-Chi earthquake in Taiwan. The field trip also included a visit at the Chung Tai Chan Monastery to introduce the Buddhism culture in Taiwan to all international and local participants. Thus, the 7th Summer School included both technical contents and the introduction of Taiwanese culture.



Registration on Oct. 7th



Icebreaker dinner



Lectures by Prof. Taejung Kim



Lectures by Dr. Nguyen Thanh Son



The scene in class



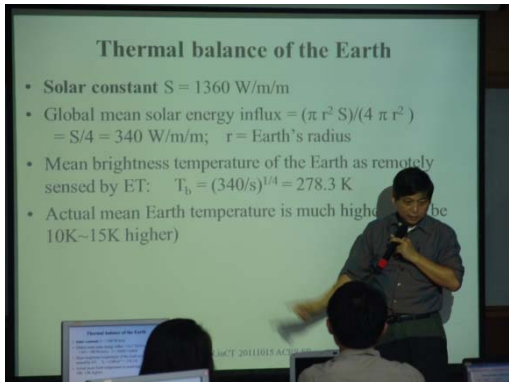
Lectures with assistants



Lectures by Prof. Imyeong Lee



Lectures by Prof. Emmanuel Baltasvias



Lectures by Prof. Cho-Teng Liu



Lectures by Prof. Tee-Ann Teo



Practical labs



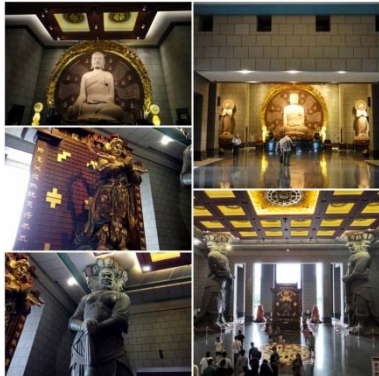
Practical labs



Field trip at the 921 Museum of Taiwan



Field trip at the Chung Tai Chan Monastery



Field trip at the Chung Tai Chan Monastery



Field trip at the Chung Tai Chan Monastery

Social Events

These events were designed and carried out to provide the opportunities to establish the social network among participants. There were two events in this part: visiting a night market and a welcome party. The first event took participants to the local night market and to experience this unique culture. In the second event, the local organizers held a party in a lounge bar to welcome all participants on Oct. 11 evening. For this welcome party, the local organizers prepared some desserts and one hundred bottles of Taiwanese beers. The ambiance was excellent in this evening; everybody enjoyed the drinking, talking, dancing and a lot of other fun.



Visiting the night market



Welcome Party in a Lounge Bar



Playing games in the Lounge Bar



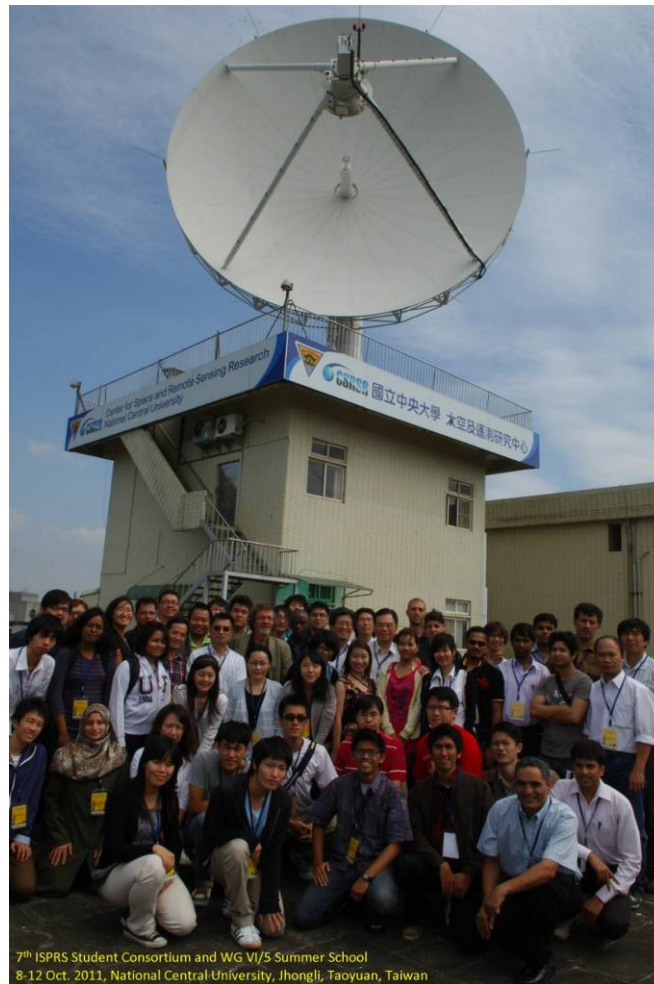
Some guy is dancing in the Lounge Bar



Group photo of Welcome Party

CONCLUSIONS

The 7th ISPRS SC Summer School has ended on Oct. 12. According to the outcome of lectures and social events, the program was successful. The lecture material and other information are available online at http://www.acrs2011.org.tw/ISPRS_SummerSchool/. In addition, the most important thing is to keep connected after the Summer School. Therefore, the secretariat has prepared and distributed a list of information for all participants. The local organizers also try to bring them together using a FaceBook group. The current status is 34 participants joining this group to continue the communication. Based on the point of view in expanding the organization of ISPRS SC, these participants have been already invited to join the Student Consortium. The local organizers will also encourage Taiwanese students to join the SC and participate in future events. For the preparation of AARS-SC (Asian Association on Remote Sensing – Student Consortium), they are also the candidates of local coordinators. The participants have acquired valuable knowledge during the lectures and the network has been successfully established in the 7th ISPRS SC Summer School.



A group photo of 7th ISPRS SC Summer School



A group photo of 7th ISPRS SC Summer School