

International Affiliated Double-Degree Program  
Summer School

August 3 – 8, 2007

Center for International Cooperation in Engineering Education  
Graduate School of Advanced Technology and Science  
The University of Tokushima  
Tokushima, Japan

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## General Information

### Registration

Students were required to register by submitting a registration form to the CICEE Office by e-mail, fax or post prior to the program. No fee was required for the registration; students are responsible for their travel expenses to The University of Tokushima and any other expenses needed while staying in Tokushima.

### Schedule

Each course has set its own schedule for most of the period of the Summer School. The following lists one common schedule which should be attended by all participants and three optional programs which are open to everyone. Those who would like to participate in the optional programs are required to register.

#### Common Schedule

##### Opening Ceremony

Time and Date: Friday, August 3 9:30-10:00

Place: M 207 (Mechanical Engineering Building 2<sup>nd</sup> Floor)

#### Optional Programs

##### 1. Excursion within Tokushima (Half-day Trip)

Date: Saturday, August 4

Fee: 1,000 yen

Place to meet: A 408 (Civil Engineering Building 4<sup>th</sup> Floor)

Itinerary: Boat trip along Shimmachi River (新町川) and Climbing Bizan (眉山 Brow Hill)

Contact: Mr. Liu (劉 通劍)

## **2. Excursion to Kyoto (Day Trip)**

Date: Sunday, August 5

Fee: 12,000 yen\*

\*All inclusive: transportation, lunch, supper, entrance fees to all sites to be visited.

Itinerary: Kiyomizu Temple(清水寺), Kinkakuji(金閣寺), and Nijo Castle(二条城)

Maximum number of participants: 25

Contact: Ms. Hirose (広瀬) from the CICEE Office

## **3. Dumpling Party (Dinner time gathering)**

Time and Date: 18:30 on Tuesday, August 7

Place: Barn of a student's

Fee: None

Contact: Ms. Hirose (広瀬) from the CICEE Office

## **Emergency contact numbers**

Fire and ambulance: 119

Police: 110

### **Faculty and staff phone numbers (mobile phone and land phone in the lab)**

Dr. Murakami (村上先生; Nanotech. Eng.): 080-3927-4027

At work: 088-656-7392 (ext. 4383)

Dr. Ueta (上田先生; Bio-info. Eng.): 090-6288-7501

At work: 088-656-7501 (ext. 4753)

Dr. Michizuki (望月先生; Env. Contr. Eng.): 090-3989-6011

At work: 088-656-9721 (ext. 4231) (same for Ms. Hirose 広瀬)

Mr. Liu (劉 適劍; CICEE Office member): 090-1172-6185

At work: 088-656-7343 (ext. 4233)

Dr. Koinkar (CICEE Office member): 090-1175-3911

CICEE Office (Dr. Koinkar, Ms. Sakashita): 088-656-7643 (ext. 4300)

## **Miscellaneous**

### **Note to Tongji Univ. students:**

Please wait for all your colleagues to finish their classes for the day and go back to your condominium together. You may use the meeting space next to the CICEE Office while you are waiting for your colleagues.

## Course Details

### Nano-technology Engineering Course

**Place:** M 207 (Mechanical Engineering Building 2<sup>nd</sup> floor)

#### Schedule

	10:00-12:00	13:00-15:00	15:00-17:00
Fri, August 3	(1)	(2)	(3)
Sat, August 4	Learning Japanese culture through experience (No set schedule)		
Mon, August 6	(4)	(5)	(6)
Tue, August 7	(7)	(8)	(9)
Wed, August 8	(10)		

- (1) **Transmission electron microscopy: Application to microstructural analyses**,  
Dr. Tatsuya OKADA, Assoc. Prof.
- (2) **Transparent conductors in the system of ZnO–In<sub>2</sub>O<sub>3</sub>: Relationship between the structure and the properties**, Dr. Toshihiro MORIGA, Assoc. Prof.
- (3) **Clinical application of lasers**,  
Dr. Ho LEE, Professor (Kyungpook National University, Korea)
- (4) **Fracture mechanics**, Dr. Ri-ichi MURAKAMI, Professor
- (5) **Separation technology**, Dr. Masahiro KATO, Assoc. Prof.
- (6) **Stability of a rotating disk in an enclosed compressible fluid**,  
Dr. Namcheol KANG, Professor (Kyungpook National University, Korea)
- (7) **Ultrasonic materials evaluation basics**, Dr. Hideo NISHINO, Assoc. Prof.
- (8) **Diamond coating: Growth to applications**, Dr. Pankaj KOINKAR, Asst. Prof.
- (9) **Experiment on nano materials development**
- (10) **Application of nano-materials (nano-particles and thin films)**  
Dr. Mikito YASUZAWA, Assoc. Prof.

## Bio-information Engineering Course: Applied Engineering of Electronic Circuits

**Place:** Seminar room (Electrical Engineering Building 1<sup>st</sup> floor)

### Schedule

	9:00-12:00	13:00-16:00
Fri, August 3	(1)*	(2)
Mon, August 6	(3)	(4)
Tue, August 7	(5)	
Wed, August 8	(6)	

- (1) **Oscillator design methods using nonlinear theory,**  
Dr. Tetsushi UETA, Assoc. Prof.
- (2) **Nonlinear phenomena in coupled oscillators and their analysis,**  
Dr. Yoshifumi NISHIO, Assoc. Prof.
- (3) **Basic technologies of semiconductor monolithic integrated circuit,**  
Dr. Jin-Ping AO, Assoc. Prof.
- (4) **Video coding algorithm and its VLSI implementation,**  
Dr. Tian SONG, Asst. Prof.
- (5) **Current test technology for realizing high reliability in VLSIs,**  
Dr. Masaki HASHIZUME, Professor & Dr. Hiroyuki YOTSUYANAGI, Assoc. Prof.
- (6) **Analysis of biological signals using neural networks,**  
Dr. Masatake AKUTAGAWA, Assoc. Prof.

\* Interrupted by the Opening Ceremony for 30 minutes.

## Biotechnology Course (Directed Studies)

By Dr. Sumihare NOJI, Prof.

**Place:** Room 803 in the Chemical and Biological Science Building 8<sup>th</sup> floor

Schedule to be announced.

## Environment Control Engineering Course

**Place:** A408 (Civil Engineering Building 4<sup>th</sup> floor)

### Schedule

	8:50-10:20	10:30-12:00	13:30-15:00	15:10-16:40
Fri, August 3	(1) 8:30-10:30	(2)	(3)	(4)
Sat, August 4			Visits to labs etc.	
Mon, August 6	(5)	(6)	(7)	(8)
Tue, August 7	(9)	(10)	(11)	(12)
Wed, August 8	(13)	(14)		

### *Topics*

- (1) Introduction to spectral analysis of seismic motions
- (2) Fourier spectrum, Fast Fourier spectrum
- (3) Power spectrum and auto correlation function
- (4) Cross spectrum, smoothing techniques, coherence function
- (5) Constitutive equations for soils
- (6) Openness and tolerance inspire internationalized universities
- (7) Seismic slope stability 1
- (8) Seismic slope stability 2
- (9) Post-earthquake investigation on slopes and highway embankments during the recent strong earthquakes in Japan
- (10) Laboratory tests for soil liquefaction
- (11) Disaster Prevention Center 1
- (12) Disaster Prevention Center 2
- (13) Fault Museum 1
- (14) Fault Museum 2

### *Instructors*

- (1)-(4) & (11)-(14): Dr. Atsushi MIKAMI, Assoc. Prof.  
 (5): Dr. Dongmei ZHANG, Assoc. Professor (Tongji University, China)  
 (6): Ms. Qi ZHANG, Asst. Professor (Tongji University, China)  
 (7)-(9): Dr. Jingcai JIANG, Asst. Prof.  
 (10): Dr. Akitoshi MOCHIZUKI, Professor

### *Visits to Laboratories*

12:50 – 14:20 Wind Channel Lab, Centrifuge Lab, and Concrete Lab

## 工学部講義室配置図

