International Affiliated Double-Degree Program Summer School

August 3-7, 2009

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

Contents

General Information

Course Details

Nano-technology Engineering Course Applied Engineering of Electronic Circuits Course Environment Control Engineering Course Information Science and Intelligent Systems Course

General Information

The Center for International Cooperation in Engineering Education (CICEE) at The University of Tokushima is pleased to announce that it will be hosting a summer school program for engineering graduate students who are studying at The University of Tokushima or its partner institutions. This program offers the following four courses: Nano-technology Engineering, Applied Engineering of Electronic Circuits, Environment Control Engineering, and Information Science and Intelligent Systems. Students may enroll in only one of the four courses. All courses are offered in English by both guest lecturers and faculty members of The University of Tokushima.

Registration

Students are required to submit a registration form to the CICEE Office by e-mail, fax or post prior to the program, no later than Friday, June 30, 2009. No fee is required for the registration, but students are responsible for their travel expenses to The University of Tokushima and any other living expenses while in Tokushima.

Schedule

Each course has its own schedule for most of the period of the Summer School. Additionally, here is the common schedule--for all participants.

- (i) Opening Ceremony
 Date and Time: Monday, August 3, 10:00-10:30.
 <u>Registration begins at 9:30 a.m. Please be prompt.</u>

 Place: Kougyou Kaikan.
 Opening Remarks:
 - 1. President Dr. Toshihiro AONO (The University of Tokushima).
 - 2. Prof. Kazuo HOSOI (President's Aide for International Affairs, The University of Tokushima).

Lecture: "Intercultural Communication and English."

Date and Time: Monday, August 3, 10:30-11:00. Dr. Walter Carpenter

Common Lecture

Date and Time: Monday, August 3, 11:00-12:00. Dr. Tetsuya SUEKANE "Global warming on the earth and mitigation technologies."

Daily Scheduled Lunch Break

August 3-7: 12:00-13:00.

(ii) Common Visits to Library and Laboratory

Meeting Place: In front of the CICEE. University campus tour. Meeting Date and Time: Monday, August 3, 13:00-13:45. Laboratory visit. Meeting Date and Time: Monday, August 3, 14:00-16:45.

(iii) (a) Company Field Trip For Students Date and Time: Tuesday, August 4, 13:20-18.15 Meeting Place: In front of the CICEE. Schedule:

- 13.20 Departure from Tokushima University.
- 14:15 Arrival at Shikoku Kakoki Company, Kitajima-cho.
- 15.15 Departure from Shikoku Kakoki Company.
- 15:45 Arrival at Ryozenji Temple.
- 16.15 Departure from Ryozenji Temple.
- 16.45 Arrival at O-asahiko Shrine.
- 17.15 Departure from O-asahiko Shrine.
- 17.45 Arrival at Hekisui Dormitory Naruto.
- 18.15 Arrival at Shinkura Kaikan.

(b) Faculty Meeting For Professors

Date and Time: Tuesday, August 4, 13:30-16:15 Place: Room M311, (Mechanical Engineering Building, 3rd Floor)

13:30 -- 14:30 Past and Current Experience

- 14:30 -- 15:00 Refreshments and Socializing
- 15:00 -- 16:15 Future Possibilities

(iv) Closing Ceremony

Date and Time: Friday, August 7, 13:00-13:30. Place: Kougyou Kaikan. Closing Remarks:

1. Prof. Kazuo HOSOI (President's Aide for International Affairs, The University of Tokushima).

A Japanese Cultural Experience Meeting Place: In front of the CICEE. Meeting Date and Time: Monday, August 7, 13:35. Schedule:

- 13.35 Departure from Tokushima University.
- 14:20 Arrival at Ai no Yakata (藍の館).
- 15:20 Departure from Ai no Yakata (藍の館) Entrance fee : 250 yen

Traditional fabric dying experience: 500yen

- 16:00 Arrival Awa-Odori Kaikan
- 17:00 Departure Awa-Odari Kaikan
- 17.30 Arrival at Shinkura Kaikan

Nano-Technology Engineering Course

Place: M 311 (Mechanical Engineering Building, 3rd Floor)

Schedule

	9:00-9:45	10:00-10:45	11:00-11:45	12:00-13:00	13:00-13:45	14:00-14:45	15:00-15:45	16:00-16:45
Mon, August 3		(i)			(ii)			
Tue, August 4	(1)	(2)				(iii) /Faculty Meeting		
Wed, August 5	(3)	(4)	(5)	Lunch break	(6)	(7)	(8)	
Thu, August 6	(9)	(10)	(11)	Dieak	(12)	(13)	(14)	
Fri, August 7	(15)	(16)	(17)		(iv)	(v)		

(1) Fundamentals of transmission electron microscopy, Dr. Tatsuya OKADA, Prof.

- (2) Nano-Materials and Their Application, Dr. Wei GAO, Prof. (Auckland University, New Zealand)
- (3) An introduction to green composites Dr. Hitoshi TAKAGI, Prof.
- (4) Lecture of Hard Coatings :Method and Application, Dr. Manabu YASUOKA (Fujikoshi Co. Ltd)
- (5) The growth mechanism of nano-structured crystals for noble metals , Dr. Xiaoping SONG, Prof. (Xi'an Jiaotong University)
- (6) Carbon Nanotubes : Synthesis, Structure, Properties and Applications, Dr. Pankaj KOINKAR, Assist. Prof.
- (7) Optical processes in semiconductors and its application, Dr. Takuro TOMITA, Assist. Prof.
- (8) Material processing with femtosecond laser, Dr. Shigeki MATSUO, Assoc. Prof.

(9) Structural analysis using synchrotron radiation, Dr. Kei-ichiro MURAI, Assoc. Prof.

- (10) Laser-induced fabrication and characterization of nanoparticles, Dr. Shuichi HASHIMOTO, Prof.
- (11) Fabrication of SiC Ceramics and it's Application Dr. Han Ki YOON, Prof. (Dong-eui University)
- (12) Control of body color through cation and anion nonstoichiometries, Dr. Toshihiro MORIGA, Prof.
- (13) Analyses of trace elements in Biological and Environmental samples, Dr. Tomoki YABUTANI, Assoc. Prof.
- (14) Biocompatible surface processing technique and implantable biosensor fabrication, Dr. Mikito YASUZAWA, Assoc. Prof.
- (15) Separation technology, Dr. Masahiro KATOH, Assoc. Prof.
- (16) The technology of CVD diamond and DLC coating, Dr. Tae-Gyu KIM, Prof. (Pusan National University)
- (17) Development of transparent and conductive oxide thin films by using sputtering method, Dr. Ri-ichi MURAKAMI, Prof

Applied Engineering of Electronic Circuits course

Place: C10 (Information Science and Intelligent Systems Building, 1st Floor) Schedule

	9:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:30	14:30-16:00	16:00-17:45	
Mon, August 3	(i)				(ii)			
Tue, August 4	(1)				(iii) /Faculty Meeting			
Wed, August 5	(2)			Lunch break	(
Thu, August 6	(4)		(5)	BICAR	(6)		(7)	
Fri, August 7	(8)				(iv)		(v)	

- (1) Video processing and its applications, Dr. Tian SONG, Asst. Prof.
- (2) Oscillator design: an aspect from nonlinear analysis, Prof. Tetsushi UETA
- (3) **Complex phenomena in coupled nonlinear electronic circuits**, Prof. Yoshifumi NISHIO
- (4) Pattern Matching and its applications, Prof. Jianru XUE
- (5) **Progress on active materials for electronic devices,** Prof. Youlong XU
- (6) Basics of neural networks and their applications for biomedical engineering,

Dr. Masatake AKUTAGAWA, Assoc. Prof.

- (7) Basic technologies of semiconductor monolithic integrated circuits, Dr. Jin-Ping AO, Assoc. Prof.
- (8) Extra Lectures

Environment Control Engineering Course:

Place: Room A508 (Civil Engineering Building, 5th floor)

Schedule

	9:00-9:45	10:00-10:45	11:00-11:45	12:00-13:00	13:00-13:45	14:00-14:45	15:00-15:45	16:00-16:45
Mon, August 3	(i)				(ii)			
Tue, August 4	(1)				(iii) /Faculty Meeting			
Wed, August 5	(2)			Lunch Break	(3)			
Thu, August 6	(4)			Dicak	(5)			
Fri, August 7					(iv)	(V)		

- (1) **Introduction to wind engineering,** Dr. Fumiaki NAGAO, Prof. and Dr. Minoru NODA, Assoc. Prof.
- (2) Recent developments in earthquake geotechnical engineering, Dr. Jing-Cai JIANG, Assoc. Prof.
- (3) Signal processing and data analysis in earthquake engineering, Dr. Atsushi MIKAMI, Assoc. Prof.
- (4) **Finite element analysis in earthquake engineering,** Dr. Atsushi MIKAMI, Assoc. Prof.
- (5) Seismic soil-foundation-structure interaction, Dr. Atsushi MIKAMI, Assoc. Prof.

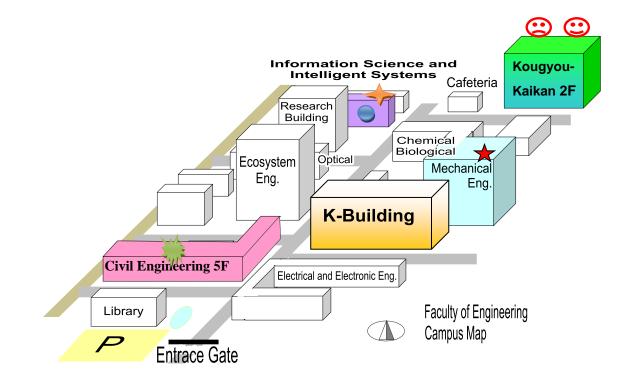
Information Science and Intelligent Systems Course

Place: C20 (Information Science and Intelligent Systems Building, 2nd Floor)

	9:00-9:45	10:00-10:45	11:00-11:45	12:00-13:00	13:00-13:45	14:00-14:45	15:00-15:45	16:00-16:45
Mon, August 3		(i)			(ii)			
Tue, August 4		(1	1)	Lunch	(iii) /Faculty Meeting			
Wed, August 5		(2)		Break	(3)		(4)	(5)
Thu, August 6		(6)	(7)		(8)	(9)		
Fri, August 7		(1	0)		(iv) (v)			

Schedule

- (1) Basic; Quantum Cryptography, Dr. Shun WATANABE, Assist. Prof. (Assistant :Dr Hitoshi TOKUSHIGE, Assoc. Prof.)
- (2) **Basic; Intelligent Computer Assisted Instruction,** Dr. Hiroyuki MITSUHARA, Assoc. Prof. (Assistant :Dr Kazuhiro MORITA, Assoc. Prof.)
- (3) Basic; Kalman Filter, Dr. Kenji IKEDA, Assoc. Prof
- (4) Advanced; Language Structures in Comparison of Japanese-English-Chinese, Dr. Yuhua DING, Assist. Prof.
- (5) Advanced; Pattern Recognition, Dr. Stephen KARUNGARU, Assist. Prof.
- (6) Advanced; Multimedia Information Retrieval Technologies, Dr. Masami SHISHIBORI, Assoc. Prof
- (7) Demo; Information Retrieval, Music Retrieval, etc. Dr. Masami SHISHIBORI, Assoc. Prof & Dr. Satoru TSUGE, Assoc. Prof.
- (8) Advanced; Speech Recognition, Dr. Satoru TSUGE, Assoc. Prof.
- (9) Expert; Programming for Speech Recognition, Dr. Motoyuki SUZUKI , Assoc. Prof. & Dr. Satoru TSUGE
- (10) Expert; Programming for Image Processing, Dr. Kenji TERADA Prof. (Assistant: Dr Masao FUKETA, Assoc. Prof.)



Opening Ceremony : Kougyou-kaikan
 Closing Ceremony : Kougyou-kaikan

