

## The HUST-NCKU Workshops schedule

The HUST-NCKU Workshops on Solid-state photonics and Biophotonics

Date: 8/5(Wed) ~ 8/7(Fri)

Place: Room D302, WNLO

Tentative Time Table:

8/5 (Wed) Afternoon (Session A : Solid-State Photonics I)

14:00-14:30 Open Ceremony

A-1: 14:30-15:00 NCKU, 微電子所 蘇炎坤教授(Prof. YK Su, Institute of Microelectronics)

The Improvement of Package Technology of GaN-Based Light Emitting Diodes (LEDs)

A-2: 15:00-15:30 HUST, Zhihao Wu

Structural electronic and optical properties of III-Nitride materials and Devices. “ Structural and Optical Properties of Non-polar GaN ”

Break 15:30-15:45

A-3: 15:45-16:15 HUST, Jinzhong Yu, Si-Based Photonics, semiconductor photonic devices and systems.

“ SOI based waveguide devices for optical interconnection”

A-4: 16:15-16:45 NCKU, 光電所 謝文峰教授 (Prof. WF Hsieh, Institute of Electro-optical Science and Engineering)

Tight binding theory for design of photonic crystal waveguides and directional couplers

Break 16:45-17:00

A-5: 17:00-17:30 NCKU, 光電所 鄭弘隆副教授 (Prof. HL Cheng, Institute of Electro-optical Science and Engineering)

Raman spectroscopy applied to reveal carrier transport properties of organic semiconductors-based thin-film transistors

A-6: 17:30-18:00 HUST, Lei Wang, Organic materials and devices, OLEDs.

“The robust blue OLED material based on anthracene derivatives”

8/6 (Thu) Morning (Session B : Biophotonics I)

B-1: 8:30-9:00 HUST, 生物醫學工程系 曾紹群 特聘教授 (Prof. Shao-Qun Zeng, Department of Biomedical Engineering)

飛秒鐳射隨機掃描顯微成像裝置 (Random access two-photon microscope with femtosecond pulse laser)

B-2: 9:00-9:30 NCKU, 機械系 羅裕龍特聘教授 (Prof. Yu-Long Lo, Department of Mechanics)

The development of Fiber-type BioSensor

Break 9:30-9:45

B-3: 9:45-10:15 HUST,

B-3: 9:45-10:15 HUST, 光電測控技術系 付玲 副教授 (Prof. Ling Fu, Department of Optoelectronic Measurement and Control)

用於腫瘤診斷的光纖非線性光學成像技術 (Fiber-optic nonlinear optical microscopy for cancer detection)

B-4: 10:15-10:45NCKU, 光電所 崔祥辰助理教授 (Prof. Hsiang-Chen Chui, Institute of Electro-optical Science and Engineering)

The bio-imaging system at Mid-IR range

Break 10:45-11:00

B-5: 11:00-11:30 HUST, 生物醫學工程系, 趙元弟教授 (Prof. Yuan-Di Zhao, Department of Biomedical Engineering)

納米螢光顆粒在生物光子學中的應用 (The application of nanoparticles in biophotonics)

B-6: 11:30-12:00 NCKU, 卓越研究中心 劉志毅研究助理教授 (Prof. Chi-li Liu, Center for Excellent Research)

Bio Marker using Surface Enhanced Raman Scattering

Lunch Break 12:00-14:00

8/6 (Wed) Afternoon (Session C : Solid-State Photonics II)

C-1: 14:00-14:30 NCKU, 光電所 郭宗枋副教授 (Prof. TF Guo, Institute of Electro-optical Science and Engineering)

Interfacial properties in efficient polymer light-emitting diodes and air-stable inverted bulk-heterojunction solar cells

C-2: 14:30-15:00 HUST, Hongwei Han

“The design of monolithic all-solid-state dye-sensitized solar cells”

Break 15:00-15:15

C-3: 15:15-15:45 NCKU, SJ Chang 張守進教授

GaN-based UV Photodetectors

C-4: 15:45-16:15 HUST, Guozhen Shen

One-dimensional nanoscale electronic and optoelectronic devices. “Devices and Field Emission Properties of 1D Nanostructures”

Break 16:15-16:30

C-5: 16:30-17:00 HUST, Changqing Chen, III-Nitride materials and Devices, Deep UV-LED, photodetector and HEMT.

C-6: 17:00-17:30 NCKU, 光電所 許進恭副教授 (Prof. JK Sheu, Institute of Electro-optical Science and Engineering)

“High Quality AlGaIn for Deep UV-LEDs and HEMTs”

8/7 (Thu) Morning (Session D : Biophotonics II)

D-1: 8:30-9:00 HUST, 生物醫學工程系，張智紅教授 (Prof. Zhi-Hong Zhang, Department of Biomedical Engineering)

面向腫瘤早期診斷與藥物研發的光學分子成像 (Optical Molecular Imaging for Early Tumor Diagnosis and Drug Development)

D-2: 9:00-9:30 NCKU, 光電系 曾盛豪助理教授 (Prof. Tseng, Sheng-Hao, Department of Electro-optical Engineering)

Biomedical Tissue Optics and Skin Optics

Break 9:30-9:45

D-3: 9:45-10:15 HUST, 系統生物學系，劉筆鋒教授 (Prof. Bi-Feng Liu)

系統生物學分析中的微流控晶片 (Microfluidic chip towards systems biology analysis)

D-4: 10:15-10:45 NCKU, 化學系 葉晨聖教授 (Prof. Chen-Sheng Yeh, Department of Chemistry)

Applications of Nanomaterials for Biomedicine

Break 10:45-11:00

D-5: 11:00-11:30 成大醫院外科張玉川教授 (Prof. Yu-Chung Chang, Department of Surgery, Medical College and University Hospital)

The Real-time imaging on surgical procedure

D-6: 11:30-12:00 HUST, 李鵬程 (Prof. Peng-Cheng Li, Department of Optoelectronic Measurement and Control)

鐳射散斑實時高分辨血流成像 (Real-time blood flow imaging by laser speckle)

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