

## **HKUST Events from 01 August 2011 to 31 August 2011**

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### **12 May 2011 - 30 November 2011**

Time: 09:00 - 09:00

Subject: Exhibition 展覽

Title: HKUST 20th Anniversary Exhibition — "Our Miracle Continues — A Visual Presentation"  
香港科技大學二十周年特展 — "創 ● 新傳奇 — 影像展"

Venue: Ping Yuan and Kinmay W Tang Gallery, Lee Shau Kee Library, HKUST  
香港科技大學李兆基圖書館 唐炳源唐温金美展覽廳

Organizer(s): Lee Shau Kee Library, HKUST 香港科技大學李兆基圖書館

Enquiries: Tel: 2358-6710

Audience: All are welcome

Language: English and Chinese

Website: <http://library.ust.hk/info/exhibit/miracle/>

Fee: Free

Remarks: Opening Ceremony 12 May 2011 at 4:00 pm 開幕禮 2011 年 5 月 12 日下午 4 時

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### **01 August 2011**

Time: 11:00 - 12:00

Subject: Seminar

Title: Near infrared spectroscopy in functional activation studies and physiological monitoring: false signals and their prevention

Venue: Rm5583

Organizer(s): IELM

Speaker(s): Dr Tereence Leung, ESPRC Fellow, University College of London

Enquiries: Prof Richard So, tel: 2358-7094

Audience: All are Welcome

Language: English

Fee: Free

Remarks: ABSTRACT Biological tissues have relatively low optical absorption in the nearinfrared (NIR) range and therefore NIR light can penetrate deeper into the tissue. Also in the NIR range, oxy- and deoxy-haemoglobin have distinctive absorption spectra, which allow their concentrations to be estimated using spectroscopy techniques. These two factors form the basis of a tissue oxygenation measurement technique generally known as NIR spectroscopy (NIRS), which has been widely used to perform non-invasive cerebral and muscle oxygenation measurements. The

simplest form of NIRS involves only an optical source and a detector placed several centimetres apart on the surface of the measurement site. In this setup, NIR light travels ~1-2 cm deep into the tissue before it is reflected back to the detector. In recent years, NIRS has been widely used in functional activation studies in which a subject is asked to perform certain tasks, e.g., looking at visual patterns, and multiple channels of NIRS probes on the subject's head then provide an activation map of the brain. In comparison to other imaging modalities such as functional magnetic resonance imaging (fMRI), NIRS is more economical and can be done almost anywhere. However, the NIRS activation maps can be affected by other physiological changes outside the brain. These false positive activations can originate from systemic physiological changes in the superficial layer of the head, i.e., scalp and skull. In this talk, I will discuss how the NIRS signals are influenced by the superficial layer and ways to minimise the false positive through monitoring of the systemic change and data analysis. The use of NIRS in other biomedical applications such as cerebral oxygenation monitoring of patients with traumatic brain injuries and muscle oxygenation measurement of athletes during exercise will be presented. Finally, I will introduce the development of the second generation NIRS monitors based on acousto-optics, which incorporates focused ultrasound with NIRS, to improve the accuracy of the tissue oxygenation measurement. ABOUT THE SPEAKER: Dr Terence Leung graduated from Southampton University in the UK with a PhD in biomedical signal processing. In 2001, he joined the Department of Medical Physics & Bioengineering in University College London to work on the application of near infrared spectroscopy (NIRS) to physiological monitoring. His research interests cover a wide range of biomedical applications using NIRS to non-invasively monitor oxygenation, blood flow and blood volume in the brain and muscle. In 2008, the UK based Engineering and Physical Science Research Council awarded him a 5-year fellowship grant to develop a new technique for clinical monitoring based on acousto-optics which combines NIRS with ultrasound.

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### **01 August 2011**

Time: 15:30 - 17:00

Subject: IAS Distinguished Lecture 傑出學人講座

Title: How Do Bacteria Evolve Resistance to Antibiotics?

Venue: Cheung On Tak Lecture Theater (LT - E), HKUST 香港科技大學 張安德講堂

Organizer(s): Institute for Advanced Study 高等研究院

Speaker(s): Prof Robert Austin, Princeton University; Visiting Member of HKUST Institute for Advanced Study 羅拔·奧斯汀教授

Enquiries: Institute for Advanced Study [ias@ust.hk / 2358-5912]

Language: English

Website: <http://ias.ust.hk>

Fee: Free

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**04 August 2011**

Time: 10:00 - 13:00  
Subject: Thesis Presentation  
Title: A Semiempirical Approach to Predict Unobserved Peptide MS/MS Spectra from Spectral Libraries  
Venue: Room 4577 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): HU, Yingwei  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: <http://www.cbme.ust.hk/yingwei.pdf>  
Fee: Free

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**05 August 2011**

Time: 03:00 - 04:00  
Subject: Thesis Presentation  
Title: Dietary Metal Exposure of Marine fish and its Toxicological Significance  
Venue: Room 5508 (Lift 25-26)  
Organizer(s): Division of Environment  
Speaker(s): Miss Fei DANG  
Enquiries: Miss Eliza Tang, Tel.:2358-8363; Email: [eliza@ust.hk](mailto:eliza@ust.hk)  
Audience: All are welcome  
Language: English  
Fee: Free

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**09 August 2011**

Time: 10:00 - 12:00  
Subject: Thesis Presentation  
Title: Regional Variation on Educational Assortative Mating in China, 1978 - 2000  
Venue: Rm 3362 (Please use lifts 13-15)  
Organizer(s): Division of Social Science  
Speaker(s): Ms. Li Lan  
Enquiries: Wendy Tsang, tel: 2358-7811  
Audience: Internal

Fee: Free

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**11 August 2011**

Time: 00:00 - 12:00

Subject: Thesis Presentation

Title: Synthesis and characterization of photocatalysts for efficient treatment of endocrine disrupting compounds in water

Venue: Room 4577 (lifts 27-28)

Organizer(s): Dept of Chemical & Biomolecular Engineering

Speaker(s): FERDOUSI, Shammi Akter

Enquiries: Mr Mok, tel: 2358-7130

Language: English

Website: [www.cbme.ust.hk/shammi.pdf](http://www.cbme.ust.hk/shammi.pdf)

Fee: Free

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**12 August 2011**

Time: 10:00 - 13:00

Subject: Thesis Presentation

Title: Development of nanoscale catalysts for direct liquid-fed fuel cell applications

Venue: Room 4577 (lifts 27-28)

Organizer(s): Dept of Chemical & Biomolecular Engineering

Speaker(s): SUO, Yange

Enquiries: Mr Mok, Tel: 2358-7130

Language: English

Website: <http://www.cbme.ust.hk/suo.pdf>

Fee: Free

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**15 August 2011**

Time: 10:00 - 13:00

Subject: Thesis Presentation

Title: The Mechanisms of Rising Tone (Shangsheng) Sandhi in Tongcheng Dialect  
桐城話上聲變調的機制

Venue: Room 3362 (Lifts 13-15), HKUST

Organizer(s): Division of Humanities

Speaker(s): Mr. Shun SUN  
Enquiries: Ms Elke Hui (Tel: 2358-7786)  
Language: Mandarin  
Fee: Free

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**15 August 2011**

Time: 14:00 - 17:00  
Subject: Thesis Presentation  
Title: The Imperfective - ZHE in Northwestern Chinese Dialects: A Typological Study  
Venue: Room 3304 (Lifts 17-18), HKUST  
Organizer(s): Division of Humanities  
Speaker(s): Ms. Xiaolei FAN  
Enquiries: Ms Elke Hui (Tel: 2358-7786)  
Language: English  
Fee: Free

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**15 August 2011**

Time: 15:00 - 18:00  
Subject: Thesis Presentation  
Title: Synthesis and Application of Mesoporous Silica  
Venue: Room 4577 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): CHEN, Xinqing  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: <http://www.cbme.ust.hk/xinqing.pdf>  
Fee: Free

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**15 August 2011**

Time: 15:00 - 17:00  
Subject: Thesis Presentation  
Title: Left-behind Children and Education Attainment in Rural China  
Venue: Room 3362 (Please use lifts 13-15)  
Organizer(s): Division of Social Science

Speaker(s): Ms. Yu Shanshan  
Enquiries: Wendy Tsang, tel: 2358-7811  
Audience: Internal  
Fee: Free

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**16 August 2011**

Time: 15:00 - 18:00  
Subject: Thesis Presentation  
Title: Flow Synthesis of Nano-scale MCM-41  
Venue: Room 4577 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): NG, Tsz Nok  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: [www.cbme.ust.hk/nok.pdf](http://www.cbme.ust.hk/nok.pdf)  
Fee: Free

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**17 August 2011**

Time: 10:00 - 13:00  
Subject: Thesis Presentation  
Title: The Field Testing of Smart Antimicrobial Coating  
Venue: room 4577 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): LEUNG, Hong Hang  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: [www.cbme.ust.hk/hang.pdf](http://www.cbme.ust.hk/hang.pdf)  
Fee: Free

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**17 August 2011**

Time: 14:00 - 16:00  
Subject: Thesis Presentation  
Title: Which One Matters to Growth, Administrative vs. Fiscal Decentralization? Empirical Evidences from Chinese Counties

Venue: Room 3362 (Please use lifts 13-15)

Organizer(s): Division of Social Science

Speaker(s): Ms. Chen Ting

Enquiries: Wendy Tsang, tel: 2358-7811

Audience: Internal

Fee: Free

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**19 August 2011**

Time: 14:00 - 17:00

Subject: Thesis Presentation

Title: Sporocidal Properties of Multilevel Antimicrobial Coating

Venue: Romm 4677 (lifts 27-28)

Organizer(s): Dept of Chemical & Biomolecular Engineering

Speaker(s): LUI Yat Chuen

Enquiries: Mr Mok, Tel: 2358-7130

Language: English

Website: [www.cbme.ust.hk/lui.pdf](http://www.cbme.ust.hk/lui.pdf)

Fee: Free

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**19 August 2011**

Time: 15:30 - 17:00

Subject: IAS Distinguished Lecture 傑出學人講座

Title: Cloaking and Transformation Optics

Venue: Mr and Mrs Lee Siu Lun Lecture Theater (LT - K), HKUST  
香港科技大學 李兆麟伉儷演講廳 (LT-K)

Organizer(s): Institute for Advanced Study  
高等研究院

Speaker(s): Prof Gunther Uhlmann, University of Washington

Enquiries: Institute for Advanced Study [[ias@ust.hk](mailto:ias@ust.hk) / 2358-5912]

Language: English

Website: <http://ias.ust.hk>

Fee: Free

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**19 August 2011**

Time: 19:00 - 21:00  
Subject: Performance  
Title: The Glamorous Cheng School of Chinese Opera Demonstration  
國粹生香·程韻添彩 程派藝術示範演出  
Venue: Tsang Shiu Tim Art Hall  
Organizer(s): 科大藝術中心  
康樂及文化事務署主辦  
香港青年京劇學院 (2011 年社區文化大使) 策劃  
Enquiries: Ms Jeddy Mok, tel: 2358 6149  
Audience: All are welcome. No admission for children under age of 6  
歡迎各界人士參加，六歲以下小童恕不招待  
Language: Cantonese and Putongua  
Website: [https://sao.ust.hk/cgi-bin/aesthetics/event\\_details.php?sao\\_event\\_id=411](https://sao.ust.hk/cgi-bin/aesthetics/event_details.php?sao_event_id=411)  
Fee: Free admission 免費入場

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#### **22 August 2011 - 23 August 2011**

Time: 00:00 - 00:00  
Subject: Workshop  
Title: "Love at First Sight" HKUST Campus Photography Workshop  
Venue: Rm 3027A & 2406  
Organizer(s): Center for the Arts  
Enquiries: Ms Jeddy Mok, tel: 2358-6149  
Audience: For HKUST 1st year student only  
Website: [https://sao.ust.hk/cgi-bin/aesthetics/event\\_details.php?sao\\_event\\_id=407](https://sao.ust.hk/cgi-bin/aesthetics/event_details.php?sao_event_id=407)  
Fee: Free  
Remarks: (Workshop 1) Date: 22 & 23 Aug; Time: 2:30-4:30 pm; Venue: Room 3027A & around campus; Instructor: Mr Spiro KWOK Fung Wah; Language: English  
(Workshop 2) Date: 22 & 23 Aug; Time: 3-5pm; Venue: Room 2406 & around campus; Instructor: Mr Andy YAU Wai Keung; Language: Cantonese

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#### **22 August 2011**

Time: 14:30 - 17:00  
Subject: Others  
Title: TA Orientation Fall 2011  
Venue: Citi Lecture Theater (LT-A)



Organizer(s): Center for Enhanced Learning and Teaching  
Teaching Assistant Coordinators Committee

Speaker(s): Dr David Mole

Enquiries: taprog@ust.hk

Audience: TA

Language: English

Website: celt.ust.hk/ta/index.html

Fee: Free

Remarks: For HKUST TAs Only.

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### **22 August 2011**

Time: 14:30 - 17:30

Subject: Thesis Presentation

Title: Fabrication and characterizations of metallic nanostructured materials

Venue: Room 4577 (lifts 27-28)

Organizer(s): Dept of Chemical & Biomolecular Engineering

Speaker(s): WONG, Chi Cheong

Enquiries: Mr Mok, Tel: 2358-7130

Language: English

Website: www.cbme.ust.hk/chi.pdf

Fee: Free

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### **22 August 2011**

Time: 19:30 - 20:45

Subject: Performance

Title: Alethia Wind Ensemble Summer Recital 仲夏管樂逍遙夜 · 亞莉提亞管樂團

Venue: Tsang Shiu Tim Art Hall

Organizer(s): Center for the Arts

Speaker(s): Performed by Alethia Wind Ensemble (亞莉提亞管樂團)

Enquiries: Ms Jeddy Mok, tel: 2358 6149

Audience: All are Welcome. No admission for children under age of 6.

Language: n/a

Website: [https://sao.ust.hk/cgi-bin/aesthetics/event\\_details.php?sao\\_event\\_id=412](https://sao.ust.hk/cgi-bin/aesthetics/event_details.php?sao_event_id=412)

Fee: Free

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**23 August 2011**

Time: 11:00 - 12:00  
Subject: Seminar  
Title: Connecting the Nanodots: Fabrication of Metallic Structures on DNA Template  
Venue: Room 5583 (Lifts 29-30), HKUST  
Organizer(s): Dept of Physics  
Speaker(s): Prof Gleb Finkelstein, Department of Physics, Duke University, USA  
Enquiries: Miss Louiza Law, tel: 2358-7506  
Audience: All interested are welcome!  
Language: English  
Website: <http://web.phys.ust.hk>  
Fee: Free

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**23 August 2011**

Time: 15:00 - 18:00  
Subject: Thesis Presentation  
Title: Heterogeneous Acid-Catalyzed Reactions of  $\beta$ -Caryophyllene  
Venue: Room 4577 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): YUAN, Mingyue  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: [www.cbme.ust.hk/ming.pdf](http://www.cbme.ust.hk/ming.pdf)  
Fee: Free

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**23 August 2011**

Time: 15:00 - 18:00  
Subject: Thesis Presentation  
Title: Construction of nanoparticles by self-assembly of small aromatic molecules as drug carriers  
Venue: Mr and Mrs Lee Siu Lun Lecture Theater (LTK)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): WANG, Weiping

Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: [www.cbme.ust.hk/wei.pdf](http://www.cbme.ust.hk/wei.pdf)  
Fee: Free

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**23 August 2011**

Time: 15:00 - 17:00  
Subject: Seminar  
Title: Connecting the Nanodots: Programmable Nanofabrication of Fused Metal Shapes on DNA Origami Templates  
Venue: Room 5583 (lifts 27-28)  
Organizer(s): Dept of Chemical & Biomolecular Engineering  
Speaker(s): Professor Gleb Finkelstein  
Enquiries: Mr Mok, Tel: 2358-7130  
Language: English  
Website: [www.cbme.ust.hk/gleb.pdf](http://www.cbme.ust.hk/gleb.pdf)  
Fee: Free

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**25 August 2011**

Time: 15:00 - 17:00  
Subject: Thesis Presentation  
Title: Global Business, Local Politics: Essays on Foreign Direct Investment in China  
Venue: Room 5487 (Lifts 25-26)  
Organizer(s): Division of Social Science  
Speaker(s): Mr Li Bing  
Enquiries: Wendy Tsang, tel: 2358-7811  
Audience: Internal  
Language: English  
Fee: Free

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**26 August 2011**

Time: 14:30 - 17:30  
Subject: Thesis Presentation  
Title: Cost-Based Process Control and Optimizaton of a Pilot Electrocoagulation- Electroflotation

Process

Venue: Room 4577 (lifts 27-28)

Organizer(s): Dept of Chemical & Biomolecular Engineering

Speaker(s) : Qin, Xusong

Enquiries: Mr Mok, Tel: 2358-7130

Language: English

Website: [www.cbme.ust.hk/qin.pdf](http://www.cbme.ust.hk/qin.pdf)

Fee: Free

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### **26 August 2011**

Time: 15:30 - 17:00

Subject: IAS Distinguished Lecture 傑出學人講座

Title: On the Crushing and Energy Absorption of Cellular Materials

Venue: Mr & Mrs Lee Siu Lun Lecture Theater (LT-K), HKUST  
香港科技大學 李兆麟伉儷演講廳 (LT-K)

Organizer(s): Institute for Advanced Study 高等研究院

Co-sponsored by the Institute of Integrated Micro Systems (I2MS), HKUST

贊助單位: 香港科技大學 集成微系統研究所

Speaker(s): Prof Stelios Kyriakides, University of Texas at Austin

Enquiries: Institute for Advanced Study [[ias@ust.hk](mailto:ias@ust.hk) / 2358-5912]

Language: English

Website: <http://ias.ust.hk>

Fee: Free

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