

**厦门大学-南安普顿大学生物燃料电池和微型能源装置暑期学校时间表**  
(Xiamen-Southampton biofuel cells and micro energy devices summer school plan 2-11 Aug 2010).

Date 日期	Morning 早上	Afternoon 下午	Evening 晚上
2/8	Participants arrive 专家和学员抵达厦门	5:00 pm Registration 注册 6:00 pm Tour of XMU University 参观厦门大学 7:00 pm Opening dinner / mixer 欢迎餐 (Yifu Resturant)	
3/8	<p><u>开学式 Opening ceremony, Prof. Hang Guo, Chair person (220, 3# Jiageng Building)</u></p> <p>8:00 am Opening and speech by Prof Sun Vice President XMU.</p> <p>8:10 am Welcome by Peter Harrington, Deputy Director of the Science &amp; Innovation Network in China, British Consul-General Guangzhou.</p> <p>8:20 am RCUK Chris Godwin: Collaboration in science a growing partnership between the UK and China.</p> <p>8:30 am Xun-Li Zhang: Unlocking the power of collaboration.</p> <p>8:45 am Ian Broadwell: Collaboration with China: A postdoctoral perspective.</p> <p><u>9:00 am Plenary Lecture: Energy for a Sustainable Future (Prof Tony Cass, Imperial College London).</u></p> <p><u>9:45 am Group photo / coffee Break</u></p> <p><u>膜及建模 Membranes and modelling</u></p> <p>10:00 am Molecular dynamics as an approach for predicting the material properties of polymer membranes in Pervaporation (Prof Qing-Lin Liu, XMU).</p> <p>11:00 am Modelling and Simulation of fuel cells and flow batteries (Dr Akeel Shah, University of Southampton).</p>	<p><u>直接燃料电池 (甲醇) Direct Fuel Cells (MEOH)</u> (220, 3# Jiageng Building)</p> <p>2:00 pm Pt nanocatalysts of open surface structure and high surface energy and their applications in fuel cells (Prof. Shi-Gang Sun, XMU).</p> <p>3:00 pm Silicon-based micro fuel cells. (Prof. Xiao-Hong Wang, Tsinghua).</p>	
4/8	<p><u>纳米材料在可持续发展能源研究中的应用 Nanomaterials for sustainable energy</u> (202, Jiaxi Building, College of Chemistry and Chemical Engineering)</p> <p>9:00 am A review of biomedical and energy applications of inorganic nanotubes (Dmitry Bavykin, University of Southampton).</p> <p>10:00 am Nanostructured materials for next generation solar cells (Dr Xin Li, XMU).</p> <p>Coffee Break 10:45 am</p> <p>11:00 am Interfacing nanomaterials for biology (Prof Tony Cass, Imperial College London).</p>	<p>近观金门海上游 A boat trip around Xiamen and Gulang Island. A chance to see the South China Sea coastline.</p>	

	12:00 am Microbial Electrolysis cells for H <sub>2</sub> production (Prof Ai-Jie Wang, Harbin Institute of Technology).		
5/8	<p><u>构建可持续发展能源装置的微细加工技术</u>  <u>Microfabrication techniques for constructing sustainable energy devices</u>  (202, Jiaxi Building)</p> <p>9:00 am Applications of MEMS technology for the fabrication of solar, bio and Direct Fuel cells (Prof Hang Guo, XMU).</p> <p>10:00 am Fabrication process of multilayer SU-8 structure for medical devices applications (Prof Miao Lv, XMU).</p> <p>Coffee Break 10:45 am</p> <p>11:00 am A review of microfabrication techniques used in microfluidics (Prof Yong-Liang Zhou, XMU).</p>	<p>参观厦门大学萨本栋微纳技术研究中心和固体表面物理化学国家重点实验室 Visits to XMU Pen-Tung Sah Micro-Nano Technology Research Center and State Key Laboratory of Physical Chemistry of Solid Surface</p>	Free
6/8	<p><u>作为可持续发展能源的太阳能电池 Solar cells as a sustainable energy source</u>  (202, Jiaxi Building)</p> <p>9:00 am Solar photovoltaic power generation for sustainable energy (Prof Hong-Hua Xu, Vice Director, Inst. of Electrical Engineering, Chinese Academy of Sciences).</p> <p>10:00 am Semiconductor quantum dots for photovoltaics: Light harvesting and charge separation aspects ( Prof Andrey L. Rogach, City University, HK).</p> <p>9:45 am Coffee Break</p> <p>11:00 am Thin film solar cells (Prof. Shu-Ying Cheng, Fuzhou University).</p>	<p><u>微流控和它在能源再生中的应用</u>  <u>Microfluidics and its use in energy generation</u>  (202, Jiaxi Building)</p> <p>2:00 pm Streaming potential as a method of energy generation (Dr Xun-Li Zhang, University of Southampton).</p> <p>3:00 pm The perpetual bio-battery: a systems approach (Dr Ian Broadwell, University of Southampton/XMU).</p> <p>3:45-4:00 pm Break</p> <p><u>Biogas and sanitation an industrial perspective.</u></p> <p>4:00 pm An introduction to biogas and sanitation (Heinz-Peter Mang, University of Science and Technology Beijing).</p> <p>4:15 pm Biogas plants (Marc Wauthelet, (Universite de Liege, Gembloux Agro-Bio Tech, Belgium).</p> <p>4:30-5:00 pm Energy production and waste management: from bilateral agreements to international development banks (Heinz-Peter Mang, University of Science and Technology Beijing).</p>	
7/8	<p>参观经济特区和当地科技园 Visit to special economic zone and local science parks</p> <p>8:30 am Depart from Xiamen University</p> <p>9:00-11:00 am Science Park reception</p> <p>11:30-12:30 pm Lunch in Jimei</p> <p>1:00-2:30 pm Biodiesel/biogas plant introduction and visit (William Kao).</p> <p>3:00 pm CAS Institute of Urban Environment.</p> <p>5:00 pm return to Xiamen University</p>		

8/8	参观客家土楼 Visit to the UNESCO World Heritage Site - Hakka earth houses  8:00 am Depart XMU 11:30 am Lunch 1:00 pm Visit – ZhenChen, FuYu, RuSheng and KuiJu buildings. 6:00-7:00pm Back at Xiamen University		
9/8	<u>实用酶和膜在生物燃料电池中的应用 Practical enzymes and membranes for biofuel cells</u> <b>(202, Jiaxi Building)</b>  9:00 am The development of enzyme-based biocatalysts for biofuel cells (Prof Robert C. T. Slade, University of Surrey).  Coffee Break 10:00am  10:15 am Modification of base fluoropolymer membranes via radiation grafting for use in fuel cells (Dr John Varcoe, University of Surrey)  11:30 am Reference electrode placement in thin planar fuel cell membrane electrode assemblies (Dr Rong Zeng, University of Surrey)	<u>Sustainable Energy from Motion.</u> <b>( 202, Jiaxi Building)</b>  2:00 pm Vibrational Energy Harvester for Implantable Bio-Sensors (Prof. Hai-Xia Zhang, PKU).  3:00-3:15 pm Coffee break  3:15-4:00 pm (1 <sup>st</sup> ) 4:15-5:00 pm (2 <sup>nd</sup> ) Student presentations and discussions 学生报告和讨论	7:00 pm Joint meal followed by 知识竞赛 8pm pub quiz <b>(Yifu Resturant)</b>
10/8	<u>生物燃料电池在工业中的应用 Biofuel cells for Industrial Applications</u> <b>(202, Jiaxi Building)</b>  9:00 am Waste water treatment using Biofuel cells an industrial perspective (Dr John Andresen, Nottingham University)  Coffee Break 10:00am  10:15am Optimising the Bio hydrogen Process for Integration with Bioelectrical Systems (Prof Richard M. Dinsdale, University of Glamorgan)	墙报竞赛 <b>( Lobby, Jiaxi Building)</b>  2:00-5:00 pm poster competition  4:00-6:00 pm Poster assessment	7:00 pm 暑期学校聚餐 (Yifu Resturant) Summer School Dinner  8.30 pm 总结和讨论 Wrap up session / discussion  9:00 pm 墙报竞赛颁奖 presentation of poster prize
11/8	学员们离校 Departure		