



西北工业大学

Northwestern Polytechnical University

2017 Sino–UK Symposium on Advanced Materials and Structures & Discipline Development Forum

Hosted by:

Northwestern Polytechnical University

Queen Mary University of London

Organized by:

Office of Disciplines Development

Office of International Cooperation

School of Materials Science and Engineering

School of Natural and Applied Sciences

School of Mechanical Engineering

Queen Mary University of London Engineering School, NPU

NPU-QMUL Joint Research Institute of Advanced Materials and Structures



The 2017 Sino-UK Symposium on Advanced Materials and Structures / Discipline Development Forum will be jointly hosted by Northwestern Polytechnical University (NPU) and Queen Mary University of London (QMUL) on November 6-8, 2017 in NPU, Xi'an, China. The meeting is organized by Office of Disciplines Development, Office of International Cooperation, School of Materials Science and Engineering, School of Natural and Applied Sciences, School of Mechanical Engineering, QMUL Engineering School, NPU and NPU-QMUL Joint Research Institute of Advanced Materials and Structures.

The prestigious experts and scholars in Materials Science and Structures are invited to give presentations and reports on advanced ceramic materials, nano energy materials, functional polymers and composites, biomaterials and engineering, and material structure design and optimization. It aims to promote cooperation and communication in the fields of materials science and material structure design and optimization between China and UK with the purpose to advance in-depth research and application of advanced materials and structures.

Welcome to the 2017 Sino-UK Symposium on Advanced Materials and Structures / Discipline Development Forum!



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Conference Committee

Honorary Chairman: Weihong Zhang, Edmund Burke

Advisory Committee: Zhiwen Yu, Fuli Zhang, Jinshan Li, Zichen Deng,

Weizheng Yuan, Bingqing Wei, Qiuyu Zhang,

Xiaowei Yin

Chairman: Mike Reece, Jie Kong

Committee Members: Ton Peijs, Gleb Sukhorukov, Haixue Yan, Feng Gao,

Xiaoli Fan, Jihong Zhu, Li Shang, Xuanhua Li

Secretariat: Yuanting Li, Jie Xu, Xuetao Shi, Jiannan Du, Ye Yang



November 7, 2017 (Tuesday)

First Meeting Room, International Conference Centre, Youyi Campus, NPU

Opening Ceremony		
8:30-8:40	Opening Remarks	Vice President
8:40-8:50	Photo-Taking	

Session 1			
Time	Speaker	Title	Chair
8:50-9:10	Mike Reece	Design, fabrication, and properties of advanced ceramic materials	Ton Peijs
9:10-9:30	Xiaoyong Wei	Study on the structure and property of AgNbO3 for energy storage application	
9:30-9:50	Zhaofeng Chen	Development of vacuum insulation panels in China	
9:50-10:10	Feng Gao	Fabrication and microstructure of textured K ₂ Sr ₂ Nb ₅ O ₁₅ lead-free ferroelectric ceramics	
10:10-10:30	Jie Xu	Macroporous ceramics from particle-stabilized foams	
10:30-10:40	Tea Break		

Session 2			
Time	Speaker	Title	Chair
10:40-11:00	Ton Peijs	Composites and functional polymers	Feng Gao
11:00-11:20	Gang He	Main group element-containing heterocycles and polymers: synthesis, characterization and applications	
11:20-11:40	Ke Zhang	Novel ring-closure methods for cyclic polymers	
11:40-12:00	Zhicheng Zhang	Design and fabrication of electroactive materials by tuning the ferroelectric performance of PVDF	
12:00-13:30	Lunch (Zhenghe Hotel, Youyi Campus, NPU)		



Session 3			
Time	Speaker	Title	Chair
14:00-14:20	Edo Sicco Boek	Chemical engineering and battery research	Gleb Sukhorukov
14:20-14:40	Liang Xia	Topology optimization of multiscale nonlinear structures and reduced-order modeling approaches	
14:40-15:00	Yao Meng	Development of high-resolution scanning electrochemical microscopy technique in local electrocatalytic analysis	
15:00-15:20	Zhan Kang	Manufacturing and interface-related topology optimization problems	
15:20-15:40	Chengyu Zhang	Thermal shock properties of SiC matrix composites reinforced by continuous fibers	
15:40-16:00	Yingjie Xu	Optimization of processing parameters to improve the mechanical performance of polycarbonate product	
16:00-16:10	Tea Break		

Session 4			
Time	Speaker	Title	Chair
16:10-16:30	Gleb Sukhorukov	Biomaterials	Jihong Zhu
16:30-16:50	Jianping Xie	Engineering ultrasmall metal nanoclusters for biomedical applications	
16:50-17:10	Feng Xu	Engineering 3D cell microenvironment using novel hydrogels and its biomedical applications	
17:10-17:30	Xiue Jiang	Mechanism analysis and application research of nanobiol effect	
17:30-17:50	Lianbing Zhang	Cellular delivery with (Apo) ferritin as the vehicle	
17:50-18:10	Xuetao Shi	Synthesis and properties of supramolecular polylactide multiblock copolymers bonded by the self-complementary hydrogen bonding	
18:10-19:30	Dinner (Liyuan Hotel)		



November 8, 2017 (Wednesday)

Time	Content	Place
07:30-08:30	Breakfast	
09:00-11:30	Seminar of NPU-QMUL Joint Research Institute of Advanced Materials and Structures	Fourth Conference Room, International Conference Centre, NPU
11:30-13:00	Lunch	
14:30-17:30	Visit Xi'an National Civil Aerospace Industrial Base	Xi'an National Civil Aerospace Industrial Base
18:00-19:00	Dinner	

