



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!



Organization

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



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 AgNbO ₃ 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 | |

