

## **Announcement for Symposium of Smart Materials and Films (SMF) in Conference ThinFilm2016**

The **OBJECTIVES** of SMF symposium is to bring together researchers working in the new and exciting area of smart and thin film materials and surface issues, which include the following topics:

- Shape memory, piezoelectric, intelligent, responsive materials/polymers, thin films and coatings;
- Smart and intelligent nanostructures/films for solar cells, batteries, fuel cells and renewable energy.
- Smart nanowires, nanotubes, nanopowders, nanorods, nanopatterning, and nanoscale characterization, two-dimensional materials/films including graphene, MoS<sub>2</sub>, Hex-BN and WSe<sub>2</sub> monolayers;
- Magnetostrictive materials, magnetoelectric composites (magnetostrictive-piezoelectric composites) and films;
- Surface processing of shape memory and piezoelectric materials/polymers (including plasma treatment, ion beam, electron beam, laser treatment, oxidation, coatings, etc);
- Surface related issues of shape memory, responsive and piezoelectric materials (corrosion, wear, friction, surface mechanics, cell growth, biocompatibility, biomimetic, etc).
- Surface patterning, wrinkling, creasing, and bio-inspired surface structures, micro and nanoengineering on smart surfaces, and smart polymers including PDMS and hydrogel;
- Smart MEMS actuators, micro/nano devices/circuits, intelligent microsensors, smart gas/breathe sensors, biosensors; lab-on-chips, and intelligent systems.

Papers presented at the symposium will be selectively published in either Surface Coating Technology, or Nanoscience and Nanotechnology Letter. There are also three poster competition prizes to win.

Call for Papers for ThinFilms2016 in Singapore **12-15 July 2016** can be downloaded from the following website: <http://www.thinfilms.sg/conferences/thinfilms-2016>

**The abstract deadline is: 15th March 2016.** You may go through the main page and click Author/Abstract or directly click this link to submit your abstract: [http://www.thinfilms.sg/conferences/thinfilms-2016/submit\\_abstract](http://www.thinfilms.sg/conferences/thinfilms-2016/submit_abstract). You will need to select our symposium: **Symposium of Smart Materials and Films (SMF)** to submit your Abstract.

Organized Chairmen:

Dr. **Richard Fu**, Northumbria University at Newcastle, UK. E-mail: [richard.fu@northumbria.ac.uk](mailto:richard.fu@northumbria.ac.uk).  
Prof. **Weimin Huang**, Nanyang Technological University, Singapore, [mwmhuang@ntu.edu.sg](mailto:mwmhuang@ntu.edu.sg).

### **Symposium Committee Members**

Prof. **Yan Li**, BeiHang University, Beijing, 100191, China, E-mail: [liyan@buaa.edu.cn](mailto:liyan@buaa.edu.cn).  
Prof. **Jack Luo**, Bolton University, UK, [j.luo@bolton.ac.uk](mailto:j.luo@bolton.ac.uk).  
Prof. **Jinsong Leng**, Harbin Institute of Technology, China, [lengjs@hit.edu.cn](mailto:lengjs@hit.edu.cn)  
Prof. **Shuichi Miyazaki**, University of Tsukuba, Japan: [miyazaki@ims.tsukuba.ac.jp](mailto:miyazaki@ims.tsukuba.ac.jp)  
Prof. **Eckhard Quandt**, University of Kiel, Germany, [eq@tf.uni-kiel.de](mailto:eq@tf.uni-kiel.de)  
Prof. **Andrew Flewitt**, University of Cambridge, UK, [ajf@eng.cam.ac.uk](mailto:ajf@eng.cam.ac.uk)  
Prof. **David Wood**, Durham University, UK, [david.wood@durham.ac.uk](mailto:david.wood@durham.ac.uk)  
Prof. **Des Gibson**, University of West of Scotland, UK, [des.gibson@uws.ac.uk](mailto:des.gibson@uws.ac.uk)  
Prof. **Yutao Pei**, University of Groningen, Netherland, [y.pei@rug.nl](mailto:y.pei@rug.nl)  
Prof. **Hejun Du**, Nanyang Technological University, Singapore, [mhdu@ntu.edu.sg](mailto:mhdu@ntu.edu.sg)  
Prof. **Dongfeng Xue**, Changchun Institute of Applied Chemistry, [dongfeng.xue@gmail.com](mailto:dongfeng.xue@gmail.com).  
Prof. **Jingting Luo**, ShenZhen University, China, [luojt@szu.edu.cn](mailto:luojt@szu.edu.cn)  
Prof. **Mingkui Wang**, HuaZhong University of Sci and Techno, China, [mingkui.wang@mail.hust.edu.cn](mailto:mingkui.wang@mail.hust.edu.cn)  
Prof. **Shiyuan Liu**, Huazhong University of Science and Technology, China, [shyliu@hust.edu.cn](mailto:shyliu@hust.edu.cn)  
Prof. **Mullin Hu**, Huazhong University of Science and Technology, China, [matlaser@hust.edu.cn](mailto:matlaser@hust.edu.cn)  
Prof. **TianLing Ren**, Tsinghua University, China, [RenTL@tsinghua.edu.cn](mailto:RenTL@tsinghua.edu.cn)  
Prof. **Nam Trung Nguyen**, Griffith University, Australia, [nam-trung.nguyen@griffith.edu.au](mailto:nam-trung.nguyen@griffith.edu.au)  
Prof. **Enrique Iborra**, Universidad Polit3cnica de Madrid, Spain. [eiborra@etsit.upm.es](mailto:eiborra@etsit.upm.es)  
Prof. **Yang Liu**, University of Electronic Science and Technology of China, [yliu1975@uestc.edu.cn](mailto:yliu1975@uestc.edu.cn)  
Prof. **Pingan Hu**, Harbin Institue of Technology, China. [hupa@hit.edu.cn](mailto:hupa@hit.edu.cn)  
Prof. **Haibao Lu**, Harbin University of Technology, China, [luhb@hit.edu.cn](mailto:luhb@hit.edu.cn)  
Dr. **Shuncaï Wang**, Southampton University, UK, [wangs@soton.ac.uk](mailto:wangs@soton.ac.uk)  
Prof. **Zhongxiao Song**, Xian Jiaotong University, China, [zhongxiaosong@xjtu.edu.cn](mailto:zhongxiaosong@xjtu.edu.cn)  
Dr. **Ben Xu**, Northumbria University, UK, [ben.xu@northumbria.ac.uk](mailto:ben.xu@northumbria.ac.uk)  
Dr. **Vincent Barroiz**, Northumbria University, UK, [Vincent.barroiz@northumbria.ac.uk](mailto:Vincent.barroiz@northumbria.ac.uk)  
Prof. **Sean Li**, University of New South Wales, Australia. [sean.li@unsw.edu.au](mailto:sean.li@unsw.edu.au)  
Prof. **Jiabao Yi**, University of New South Wales, Australia, [jiabao.yi@unsw.edu.au](mailto:jiabao.yi@unsw.edu.au)  
Prof. **WeiHua Li**, Wollongong University, Australia, [weihuali@uow.edu.au](mailto:weihuali@uow.edu.au)  
Prof. **Weilie Zhou**, University of New Orleans, USA [wzhou@uno.edu](mailto:wzhou@uno.edu)  
Prof. **Glen McHale**, Northumbria University, UK, [Glen.mchale@northumbria.a.c.uk](mailto:Glen.mchale@northumbria.a.c.uk)

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**ThinFilms2016 Symposia**

**Smart materials and films**

Biological coatings  
Coatings for clean energy  
Coatings towards industrial applications  
Electrochemistry and corrosion of thin films  
Ion-conducting thin films  
Functional thin films for energy photonics  
Mechanical properties of thin Films

Nanostructured and nanocomposite films coatings  
Optical thin films  
Optoelectronic & dielectric thin films  
Oxide thin film, nano- and heterostructures  
Organic/polymer thin films

**Chair: Sam ZHANG**  
**Nanyang Technological University, Singapore**  
**President, Thin Films Society**

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