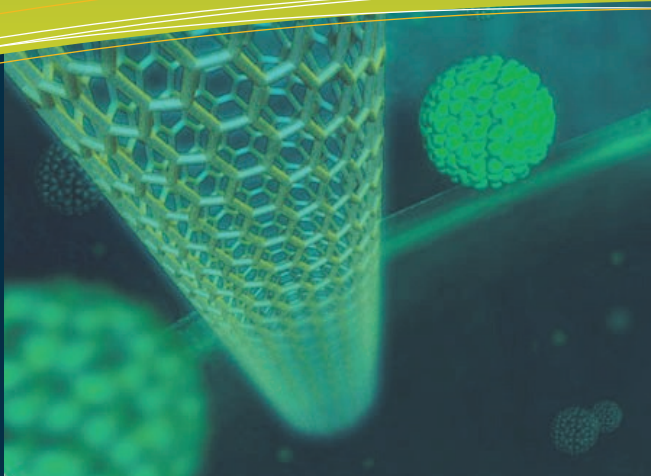


The Australia-China NanoNetwork Information Bulletin



“to promote collaborative research projects and research training ; addressing key contemporary research challenges through nanoscience”

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AustraliaChinaNanoNetwork

ATN Researchers Lead the Way at Shanghai Conference



Dayang Wang at the Shanghai conference

Prof Dayang Wang, University of South Australia, and Prof Matt Phillips, University of Technology, Sydney, were amongst invited international Keynote speakers at a recent May Conference on ‘Materials for Renewable Energy and the Environment’.



Matt Phillips presenting at the Shanghai conference

This Conference was hosted by NanoNetwork partner university Shanghai University for Science and Technology (USST) and organised by Prof Shulin Wang (see photograph).



Matt Phillips with Professor Shulin Wang

More than 250 scientists gathered in Shanghai to hear the latest from lead researchers across a number of nanoscience domains.

Our invited speakers Dayang Wang (“Self-assembly of Particles at Interfaces”) and Matt Phillips (“Materials and Technology for Energy Efficient Lighting”) shared the podium with American and Japanese colleagues along with representatives from many leading Chinese universities.

(Continued on page 2)

New Journal Option for Your Papers ?

NanoNetwork colleagues at Shanghai JiaoTong University have launched NANO-MICRO LETTERS as an open-access science and technology journal emphasizing a bottom-up approach in the length scale from nanometer to micrometer, and from science to technology.

Nano-Micro Letters reports on original research on the latest advances and reviews in science, engineering, technology and applications from nano to micro scale structures and systems, including experimental, theoretical and applied results on physics, chemistry, biology, engineering, and their expanding interfaces that have at least one dimension ranging from a few sub-nanometers to a few hundreds of micrometers.

Nano-Micro Letters offers rapid and high-standard peer-reviewed publications. All articles will be freely available online at <http://www.nmletters.org>. Publication is free.

Contact
editor@nmletters.org



ATN Researchers Lead the Way at Shanghai Conference

(Continued from page 1)

The Conference was co-sponsored by the China Energy Society and also provided participants with some perspectives on emerging Chinese energy strategies.

The Australia/China NanoNetwork, and its association with USST, was highlighted via an introductory presentation by Prof Neil Furlong from the Australian Technology Network. Mark Lockrey, a PhD student at the University of Technology, Sydney, was also a participant at the Conference.

Enquiries : Neil.Furlong@rmit.edu.au

Potential for Collaboration with Fudan University

The ATN has commenced discussions with Fudan University in Shanghai with a view to identifying potential institutional collaborative links. Fudan is a highly respected and rated university in China in many fields complementary to activities across the ATN (see www.fudan.edu.cn/englishnew/). One such area is nanoscience/technology and nanoengineering.

Some Fudan/ATN links have already emerged in recent times. For example A/ Prof. Qin Li at Curtin University (see April 2011 NanoNetwork Information Bulletin) has established a collaboration with Prof.

Dongyuan Zhao's Institute on functional nanocarbons at Fudan, starting from a joint PhD supervision program.

Prof. Zhao is an internationally leading



Prof. Dongyuan Zhao

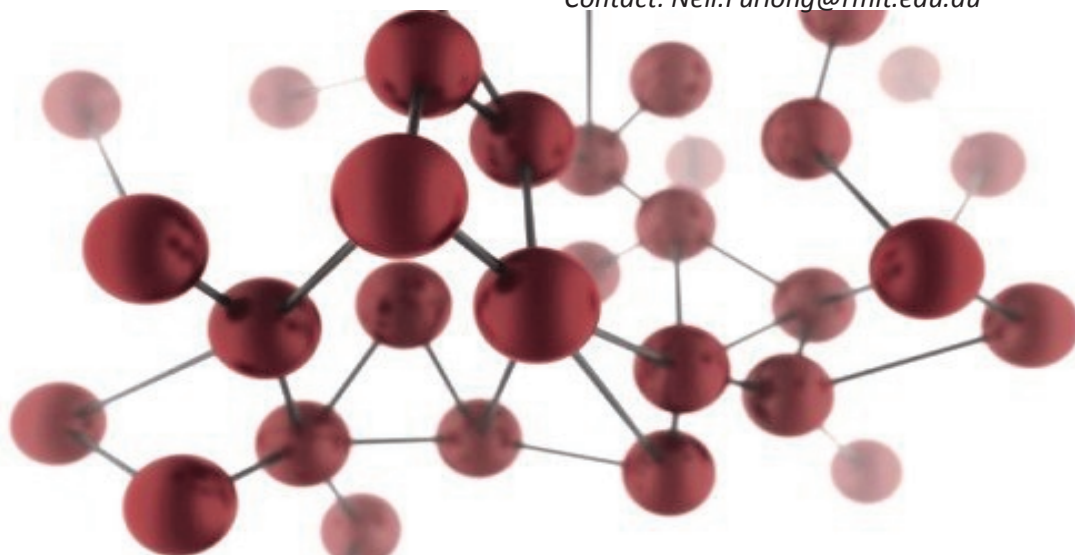
researcher in nanomaterials across such areas as the synthesis and physiochemical properties of ordered mesoporous materials, the microscopic assembly and macroscopic control of mesoporous

molecular sieves, the structure and synthesis design of novel microporous molecular sieves and the synthesis of novel patterned nanoscale materials. He has published extensively, serves on the Boards of numerous international journals and has presented papers and lectures by invitation at a large number of institutions and forums across the world. He was most recently a Plenary Speaker at the Fifth Biennial Australian Colloid & Interface Symposium (2011) of the Royal Australian Chemical Institute.

The ATN is planning for a Workshop at Fudan University in late October. This Workshop will aim to develop ATN/Fudan understandings around research interests and capabilities and how a collaboration relationship with Fudan might be best progressed.

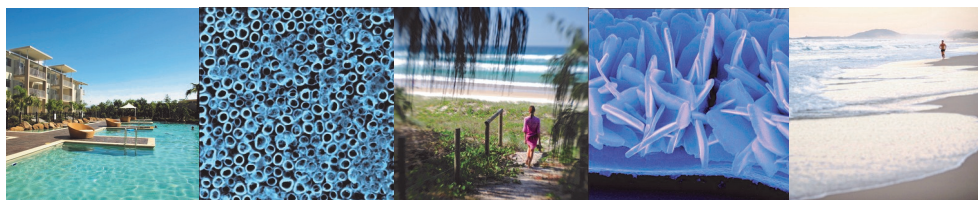
We would be keen to hear from any ATN researcher who may be interested to participate in this Workshop.

Contact: Neil.Furlong@rmit.edu.au



Attention: Upcoming Conference

**Nanostructures for Sensors, Electronics, Energy and Environment: NanoS-E3
Peppers Salt Resort, Kingscliff, Australia: 12 – 16 September, 2011**



International School and Workshop on Nanotechnology
Conference Chairs : [N.Motta](#), [J.Bell](#), [M.De Crescenzi](#)
For more information see : <http://www.nanose3.com>

Researcher Profile: Kourosh Kalantar Zadeh



Associate Professor Kourosh Kalantar Zadeh

Kourosh Kalantar Zadeh received the B.Sc. and M.Sc. from the Sharif University of Technology, and Tehran University, Tehran, Iran, respectively, and his Ph.D. from RMIT University. He is now an Associate Professor at the School of Electrical and Computer Engineering, RMIT University, where he leads the Micro/NanoElectronics and Sensors group. His research interests include chemical and biochemical sensors, nanotechnology, microsystems, materials science, electronics, and microfluidics. Since 2000, Kourosh has published over 200 peer reviewed scientific manuscripts including over 100 journal papers, many of them in high impact factor journals such as *Advanced Functional Materials*, *Nano Letters*, *ACS Nano* and *Energy & Environmental Science*.

In addition to well established collaboration with prestigious universities such as UCLA and MIT, Kourosh has been fortunate to also form strong links with highly esteemed research institutions in China such as Shanghai Institute of Ceramics (Chinese Academy of Sciences), Nanjing University and Peking University. Engagement with the Australia-China NanoNetwork has supported the establishment of some of these links. In particular facilitated a growing collaboration with Professor Zheng Hu at Nanjing University. Professor Hu was successfully awarded an AusAid Fellowship to spend several weeks at RMIT University and two of the RMIT University PhD candidates, Jerry Yu (co-supervised with Prof Wlodarski) and Jos Campbell (co-supervised with Dr. Bansal and Prof Bhargava), received Endeavour Awards for long term scientific visits at Nanjing University. So far this collaboration has resulted in 5 journal publications in *Journals of Electrophoresis* (31, 1366, 2010), *Physical Chemistry C* (114, 238, 2010), *Crystal Growth & Design* (10, 430, 2010), *Sensors and Actuators B* (142, 230, 2009) and *Langmuir* (25, 9545, 2009). The high quality of these papers is evident via 50+ citations in the short time since publication.

Interested in Where Nanotechnology is Heading ? This May be The Report for You !

In case you missed it the National Science Foundation has released (September 2010) a comprehensive Report entitled "Nanotechnology Research Directions for Societal Needs in 2020 - Retrospective and Outlook", which covers all you can think of and more. Across its 13 Chapters is goes into

- Enabling and Investigative Tools
- Synthesis, Processing, and Manufacturing of Nanoscale Components, Devices, and Systems
- Nanotechnology Environmental, Health, and Safety Issues
- Nanotechnology for Sustainability
- Applications: Nanobiosystems, Medicine, and Health
- Applications: Nanoelectronics and Nanomagnetism
- Applications: Photonics and Plasmonics
- Applications: Nanostructured Catalysts
- Applications: High-performance Nanomaterials and Other Emerging Areas
- Preparation of People and Physical Infrastructure
- Innovative and Responsible Governance.

It can be downloaded at http://wtec.org/nano2/Nanotechnology_Research_Directions_to_2020/

but be alert – its 610 pages delivers a pdf file of ca 17 MB !