

The 8th Workshop on Manufacturing Technologies for a Sustainable Society

Energy Storage: Nano-Materials to Market Adoption

Thursday, 12 July 2012, Suzhou, China

Nanotech Meeting Room, Suzhou Nanotech Co. Ltd.

Floor 5, South Block of Building A1, 218 Xinghu Avenue, Suzhou Industrial Park

Identifying that Asia is becoming one of the most aggressive regions in adopting nanotechnology. NanoGlobe together with Suzhou Nanotech is launching **Energy Storage: Nano-Materials to Market Adoption** as the theme of the **8th Workshop on Manufacturing Technologies for a Sustainable Society**, to be held on July 12th, 2012 in [Suzhou Industrial Park \(SIP\)](#), China. The invited speakers and participants from Singapore, Japan, US and China shared your cutting-edge technologies and insights related to energy storage materials and market adoption, as well as explore business opportunities in Asia and US.

The presentations and discussion of the workshop will focus on innovative materials for Li-ion and next generation batteries and supercapacitors, and the steps needed for their market adoption. This event provides you an excellent platform to meet the top scientists from the world-class universities and research institutes in Asia and corporate executives from industries covering the whole value chain needed to commercialize these technologies.

It will include an intimate look into Suzhou's Li-ion battery R&D and pilot production platform, which allows you to ramp-up your technologies from research to market volumes very efficiently, and opportunities for such partnerships. The event includes site visits of Suzhou's nanotechnology infrastructure and the battery platform based in the SINANO institute.

The Workshop on Manufacturing Technologies for a Sustainable Society is a bimonthly series of workshops offering a powerful forum for the speakers to present their company/organization's technologies, products and services to China's industry and R&D leaders, giving opportunities to establish strategic partnerships and explore commercialization opportunities in China. The city of Suzhou is considered one of the most progressive and innovative city in China (ranked top 3 in "2010 China's Most Innovative Cities" by Forbes). Suzhou Industrial Park has been designated as the Nanotechnology Industry Cluster in China, and it is building the Nanopolis Suzhou which provides a whole ecosystem for nanotechnology development.

Suzhou is a beautiful, ancient garden city known as the "Venice of the Orient", so we also wish to give you glimpses of the city's charm.

Organizers

[Suzhou Nanotech Co. Ltd.](#), Suzhou, China

[NanoGlobe Pte. Ltd.](#), Singapore

Chairs

Dr. Xijun ZHANG, CEO, Suzhou Nanotech Co., Ltd

Dr. Lerwen LIU, Manager Director, NanoGlobe Pte. Ltd.

Program

Time	Presentation
8:40 - 9:00	Registration
9:00 - 9:20	Suzhou Industrial Park Overview and Nanopolis Suzhou <i>Mr Jacky WU, Vice President, Suzhou Nanotech Co.,Ltd, China</i>
9:20 - 9:25	Introduction of the Workshop <i>Dr Lerwen LIU, Managing Director, NanoGlobe Pte. Ltd., Singapore</i>
9:25 - 9:45	Graphene: Mass Production and Applications in Batteries <i>Dr. Zhao-ping LIU, Professor, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences (CAS), China</i>
9:45 - 10:05	The Application of Graphene Nanoplatelets to Energy Storage Devices <i>Dr. Liya WANG, Vice President of R&D, XG Sciences, US</i>
10:05 - 10:25	Industrial Synthesis of Graphene and Other Two-dimensional Semiconducting Nanosheet Materials and Their Applications in Clean Energy and So On <i>Prof. Hua ZHANG, Professor, Nanyang Technological University (NTU), Singapore</i>
10:25 - 10:40	Tea Break
10:40 - 11:00	Nanocomposite Materials for High Energy Density Rechargeable Batteries <i>Dr. Yuegang ZHANG, LBNL Staff Scientist, Molecular Foundry of Lawrence Berkeley National Laboratory, US</i>
11:00 - 11:20	Towards High Energy and Power Density for Energy Storages <i>Prof. Li LU, Professor, Materials Science Group, Department of Mechanical Engineering, National University of Singapore (NUS), Singapore</i>
11:20 - 11:40	Rechargeable Battery for Electric Vehicle and Large Scale Stationary Storage Applications <i>Prof. Palani Balaya, Assistant Professor, Alternative Energy Sources Laboratory, National University of Singapore (NUS), Singapore</i>
11:40 - 12:00	Progress in the Project of Nanofiber Separator for LIB <i>Prof. Da-yong WU, Professor, Technical Institute of Physics and Chemistry, CAS, China</i>
12:00 - 12:20	A Brief Introduction of Lithium Battery Research in Institute of Nano-tech and Nano-bionics, CAS <i>Prof. Xiao-dong WU, Professor, Suzhou Institute of Nano-tech and Nano-bionics (SINANO), CAS, China</i>
12:30 - 13:30	Networking Buffet Lunch
13:30 - 13:50	Advanced Energy Storage Technologies Empowered by Novel Superpolarizable Membranes <i>Dr. Xian-ning XIE, Principal Investigator, Nanoscience and Nanotechnology Initiative (NUSNNI), National University of Singapore (NUS), Singapore</i>
13:50 - 14:10	Fluoropolymers for Flexible Capacitor Applications <i>Ms. Meng-fang LIN, Nanyang Technological University (NTU), Singapore</i>
14:10 - 14:30	Intelligent Lithium Battery for Electric Vehicles <i>Prof. Wei YU, Professor, Suzhou Institute of Nanotech and Nano-bionics (SINANO), CAS &</i>

	<i>Partner, Makesens Inc., China</i>
14:30 - 14:50	Intelligent Battery Pack as Energy Storage Solutions <i>Prof. Xiao YAN (Sean), President, Makesens Inc. & Professor, Suzhou Institute of Nanotech and Nano-bionics (SINANANO), CAS, China</i>
14:50 - 15:00	Introduction of Technical Data of Infinity Energy <i>Mr. Guo-long JIANG, Vice President (in charge of R&D), Infinity Energy, China</i>
15:00 - 16:30	Roundtable Discussion
16:30 - 18:00	Site Visits

