

# *2<sup>nd</sup> Russia–Singapore Joint Workshop*

Nanyang Technological University, Singapore

*8<sup>th</sup> - 9<sup>th</sup> November 2016*

Jointly organized by:



**NANYANG  
TECHNOLOGICAL  
UNIVERSITY**



Lomonosov Moscow State University



**Russian Academy  
of Sciences**

## WORKSHOP PROGRAMME

Monday, 7 <sup>th</sup> November 2016		
Time	Programme	Venue
5.45pm	Transport pick up to Reception venue	NEC Lobby
6.00pm	Welcome Reception	PEN & INC NTU North Spine

Tuesday, 8 <sup>th</sup> November 2016	
Time	Programme
8.40 am	Transport depart from NEC Lobby to IGS
9.00am – 9.10am	Opening Ceremony and brief introduction of NTU by <i>Prof Bo Liedberg</i>
9.10am – 9.20am	Introduction of MSU by <i>Prof Valery Lunin</i>
9.20am – 9.30am	Introduction of RAS by <i>Prof Sergey Aldoshin</i>
<b>Scientific Session 1</b>	
Chair – Prof Timothy John White & Prof Valery Lunin	
9.30am – 10.00am	<b>ASSOC PROF SERGUEI SAVILOV</b> <i>SPARK PLASMA SINTERING IN COMPACTIZATION OF CARBON NANOMATERIALS: EFFECT ON ADSORPTION PROPERTIES, HETEROSUBSTITUTION, FUNCTIONALIZATION</i>
10.00am – 10.30am	<b>ASSOC PROF SU HAIBIN</b> <i>MULTIPARADIGM SIMULATIONS ON FUNCTIONAL CARBON MATERIALS WITH LOW DIMENSIONS</i>
10.30am – 11.00am	<b>ASSOC PROF VLADIMIR PETROV</b> <i>RADIOANALYTICAL METHODS FOR THE ENVIRONMENT AND TECHNOLOGY</i>
11.00am – 11.20am	Morning Tea Break
11.20am – 11.50am	<b>ASSOC PROF FAN HONGJIN</b> <i>NANOARRAY ELECTRODES FOR HIGH-PERFORMANCE ENERGY CONVERSION AND STORAGE</i>
11.50am – 12.20pm	<b>DR. ALEXEY LEVCHENKO</b> <i>NEW MATERIALS FOR ELECTROCHEMICAL DEVICES</i>
12.20pm – 12.50pm	<b>ASSOC PROF ANDREW GRIMSDALE</b> <i>NEW FUNCTIONAL ORGANIC MATERIALS FOR ENERGY CONVERSION AND STORAGE APPLICATIONS</i>
12.50pm – 1.50pm	Lunch and Networking
<b>Scientific Session 2</b>	
Chair – Prof Bo Liedberg & Prof Sergey Aldoshin	
1.50pm – 2.20pm	<b>DR. NELLI KHASANOVA</b> <i>FLUORIDE-PHOSPHATE CATHODE MATERIALS FOR LI-ION BATTERIES</i>
2.20pm – 2.50pm	<b>PROF CHEN ZHONG</b> <i>TITANIA AND TITANATE NANOSTRUCTURES FOR ENVIRONMENTAL DEPOLLUTION</i>

2.50pm – 3.15pm	<b>DR. EVGENY KARPUSHKIN</b> <i>POLYMER MEMBRANES FOR ELECTROCHEMICAL POWER SOURCES: FUEL CELLS AND FLOW BATTERIES</i>
3.15pm – 3.30pm	Summary by Prof Bo Liedberg
3.30pm – 3.45pm	Afternoon Tea Break
3.45pm – 5.30pm	Laboratory Visits - Energy Research Institute @ NTU - School of Physical and Mathematical Sciences
5.45pm	Transport depart for Dinner
7.00pm	Dinner hosted by VP Research, Prof Lam Khin Yong

Wednesday, 9<sup>th</sup> November 2016

Time	Programme
8.45 am	Transport depart from NEC Lobby to MSE
9.00am – 9.45am	Laboratory Visit to - School of Materials Science and Engineering
<b>Scientific Session 3</b> Chair – Prof Shen Zexiang & Dr Serguei Savilov	
10.00am – 10.30am	<b>ASSOC PROF CHIA EE MIN, ELBERT</b> <i>ROLE OF DISORDER, FREE-CARRIER RECOMBINATION KINETICS AND PHONON MODES IN THE PERFORMANCE OF CH<sub>3</sub>NH<sub>3</sub>PBI<sub>3</sub> PEROVSKITE FILMS</i>
10.30am – 11.15am	<b>ASSOC PROF PAVEL TROSHIN</b> <i>PROBING INTRINSIC THERMAL AND PHOTOCHEMICAL STABILITY OF COMPLEX METAL HALIDES: A TRANSITION FROM HYBRID TO ALL INORGANIC PEROVSKITE SOLAR CELLS</i>
11.15am – 11.45am	<b>PROF SHEN ZEXIANG</b> <i>OPTICAL PROPERTIES OF PEROVSKITES AND 2D MATERIALS UNDER HIGH PRESSURE</i>
11.45am – 12.30pm	<b>DR. ARTEM MALAKHO</b> <i>EXPANDED GRAPHITE MATERIALS AND CARBON COMPOSITES FOR INDUSTRIAL APPLICATIONS</i>
12.30pm – 1.15pm	Lunch and Networking
1.15pm – 1.30pm	Introduction to the various types of research Funding in Singapore by <i>Prof Timothy White</i>
1.30pm – 2.15pm	<b>DR. DENIS VALENTINOVICH ANOKHIN</b> <i>NEW IN-SITU TECHNIQUES FOR STRUCTURAL STUDIES OF FUNCTIONAL POLYMERS AND NANOCOMPOSITES</i>
2.15pm – 2.45pm	<b>ASST PROF ARAVIND DASARI</b> <i>SELF-INTRODUCTION</i>
2.45pm – 3.30pm	Round Table Discussion
3.30pm – 3.45pm	Closing Remarks by Prof Liedberg
3.45pm – 4.00pm	Afternoon Tea Break
4.00pm	Transport back to NEC
4.30pm – 9.00pm	Social Excursion and Dinner *Bus will pick up from NEC lobby at 4.30pm