Program

The 5th meeting of NASEMS —
Sunday 15 March 16:00 – 18:00 (Room : Iizuna at 3F)
Monday 16 March 8:30 – 11:30 (Room : Asama at 3F)

— CBNM-4 —

Monday 16 March (Room : Asama at 3F)

Registration of CBNM 11:00 -

Welcome Address

13:00 – 13:10 Katsumi Kaneko

Shinshu University, Japan

Oral session 16-1 Chair : Dr. M. Thommes

13:10 - 13:50	<u>Ljubisa R. Radovic</u>	The Pennsylvania State University, USA
		and University of Concepcion, Chile
	"Quantum chemistry of graphene interactions with oxygen, nitric oxide and alkali metals"	

- 13:50 14:10 <u>Shin R. Mukai</u> *Hokkaido University*, Japan "Synthesis of Nanoporous Carbon Monoliths Using Carbon Nanofibers Synthesized Using the Liquid Pulse Injection Technique"
- 14:10 14:50Joaquin Silvestre-AlberoUniversity of Alicante, Spain(Francisco Rodriguez-Reinoso)"Nano-confinement effects for methane storage"

(14:50 - 15:20 Break)

Oral session 16-2 Chair : Prof. M. Miyahara

15:20 – 16:00 <u>Alexander V. Neimark</u>

Rutgers, The State University of New Jersey, USA

"Adsorption Deformation of Microporous Carbons"

16:00-16:20	Ryotaro Matsuda	Kyoto University, Japan
	"Recognition and Separation of Carbon Monoxide in the Nanospace of a Porous Coordination Polymer"	

16:20 − 17:00 <u>Morinobu Endo</u> Shinshu University, Japan "Responsible Production and Applications of Carbon Nanotubes ~promise for the future~"

Poster session

17:30 - 19:00 (Room : Asama at 3F)

Reception

19:10 - 21:10 (Room : Uranosu at 12F)

Tuesday 17 March (Room : Asama at 3F)

Oral session 17-1 Chair : Prof. A. Neimark

8:30 - 9:10	<u>Milton W. Cole</u>	The Pennsylvania State University, USA	
	"Wetting transitions of classical and quantum gases:		
	Implications for adsorption in porous materials"		
9:10 - 9:50	<u>Hiroshi Fukuyama</u> "Two-Dimensional Quar Graphite"	<i>The University of Tokyo</i> , Japan ntum Materials Physisorbed on	
9:50 - 10:30	-	<i>Howard University</i> , USA adsorbed on graphene, carbon anohorns: theory and simulations."	

(10:30 – 11:00 Break)

Oral session 17-2 Chair : Prof. A. Fuchs

11:00 – 11:40 <u>Susumu Kitagawa</u>

Kyoto University, Japan

"Soft Porous Coordination Polymers"

Micromeritics Instrument Corporation, USA

"Comprehensive Characterization of Carbon Pore Structure Using Combined Adsorption Data of N2, Ar and CO2 Analyzed by 2D-NLDFT Models"

12:00 – 12:40 <u>Hideki Tanaka</u> Okayama University, Japan "Thermodynamic Stability and Melting Dynamics of Clathrate Hydrates"

(12:40 - 14:00 Lunch)

Oral session 17-3 Chair : Prof. L. Carlucci

- 14:00 14:40 <u>Alain Fuchs</u> *CNRS and Chimie ParisTech*, France "On the Impact of Adsorption in Compliant Nanoporous Materials"
- 14:40 15:00 Tomoki Ogoshi *Kanazawa University,* Japan "Porous Carbon Fibers Containing Angstrom-level Controlled Pores from Pillar[6]arene Cavity Size"
- 15:00 15:20 Sayaka Uchida *The university of Tokyo*, Japan "Redox-Induced Reversible Uptake-Release of Cations in Porous Ionic Crystal based on Polyoxometalate"
- 15:20 16:00 <u>Tohru Setoyama</u> Mitsubishi Chemical Group Science and Technology Research Center, Japan "What are the practical innovations and the strategies to mitigate the climate change in 21st century?"

(16:00 - 16:20 Break)

Oral session 17-4 Chair : Prof. K. Laszlo

16:20 – 17:00 <u>Roland J.-M. Pellenq</u> *Massachusetts Institute of Technology*, USA "Adaptrian and Transport Properties of Alleanes in Shale-

"Adsorption and Transport Properties of Alkanes in Shale-Rocks from the Bottom-Up Approach"

17:00 - 17:20	<u>Lars Borchardt</u>	Dresden University of Technology,	
		Germany	
	"Model Carbons with Well-Defined Porosity: Synthesis and		
	Advanced Characterization Techniques"		
17:20 – 18:00	<u>Teresa J. Bandosz</u> "Solar Energy Harvesting on	<i>The City College of New York</i> , USA S- and N-doped Nanoporous	
	Carbons"		

Banquet

18:30 - 20:30 at Tomizushi (outside the hotel)

Wednesday 18 March (Room : Shiga at 3F)

Oral session 18-1 Chair : Prof R. Pellenq

- 8:30 9:10 <u>Minoru T. Miyahara</u> "Modeling and Visualization of Layer-Structured MOF with Guest Molecules"
- 9:10 9:50 <u>Lucia Carlucci</u> *The University of Milano*, Italy "Coordination Networks: Structures, Entanglements and Properties"
- 9:50 10:10 <u>Francois-Xavier Coudert</u> 'Polymorphism, Flexibility and Disorder in Nanoporous Molecular Frameworks"

(10:10 - 10:40 Break)

Oral session 18-2 Chair : Prof. L. Radovic

10:40 – 11:20 <u>Matthias Thommes</u> *Quantachrome Instruments*, USA "Adsorption and Phase Behavior of Water in Ordered Nanoporous Carbons"

11:20—11:40	Hirotomo Nishihara	<i>Tohoku University</i> , Japan
	"Porous Graphene Shell with High S	urface Area and High
	Oxidation Resistance"	

11:40 – 12:20 <u>Krisztina Laszlo</u> "Adsorption and contrast variation assisted SANS to study confinement effects in nanoporous carbon"

(12:20 - 13:50 Lunch)

Oral session 18-3 Chair : Prof. T. Bandosz

- 13:50 14:10 Rodolfo Cruz-Silva *Shinshu University*, Japan "Preparation of films, fibers and composites using 2-D nanocarbons."
- 14:10 14:30 Zheng-Ming Wang National Institute of Advanced Industrial Science and Technology, Japan "Graphene-Periodic Mesoporous Silica Nanocomposite

Sandwiches with Vertically Aligned and Size Tunable Mesochannnels"

- 14:30 14:50 Hideki Tanaka Kyoto University, Japan "Hydrogen Isotope Separation by Carbon Nanopores"
- 14:50 15:10 Takahiro Ohkubo Okayama University, Japan "A Novel Synthetic Route to Cu(I) Oxide Nanoparticles from Nano-Confined Copper Complex in Carbon Micropore"
- 15:10 15:30 Taku Iiyama *Shinshu University*, Japan "Applying the Diffraction Techniques and Reverse Monte Carlo Method to the Phase Transition of Water in Carbon Nanospaces"

Adjourn

Farewell party 18:00 -