

Program for EMN Meeting on Membranes/ EMN Meeting on Ceramics

April 23-27, 2017

Sunday April 23

14:00-18:00 PM

Onsite Registration & Sign up

Monday April 24

Morning

Session: Membranes I Chair: Antoine Venault

9:10-9:35 AM

A01: Physico-Mechanical Properties of Magnetic Cellulose Beads for Dyes Absorption

Sarani Zakaria, National University of Malaysia, Malaysia

9:35-10:00 AM

A02: Developing of a new way to improve Reverse Osmosis method to radically simplify pretreatment, exclude chemicals and increase recoveries

Alexei Pervov, Moscow State University of Civil Engineering, Russia

10:00-10:30 AM

Session Break

Session: Membranes II Chair: Tsuyoshi Hoshino

10:30-10:55 AM

A03: Searching for alternative approaches for the development of lowfouling PEGylated and zwitterionic PVDF membranes

Antoine Venault, Chung Yuan Christian University, Taiwan

10:55-11:20 AM

A04: Gravity dependence of membrane fluidity and its effect on neuronal transmission

Florian Kohn, University of Hohenheim, Germany

12:00-13:30 PM

Lunch Break

Monday April 24

Afternoon

Session: Ceramics I Chair: Haruhiko Morito

14:10-14:35 PM	A05: Characterization of Ceramics Nuclear Waste Forms: Advantage of Joint Experimental and Computational Studies	Piotr Kowalski , Institute of Energy and Climate Research (IEK-6), Forschungszentrum Juelich GmbH (Research Centre Juelich), Germany
14:35-15:00PM	A06: Evaluation of Densification and Grain-Growth Behavior during Isothermal Sintering of Zirconia	Byung-Nam Kim , National Institute for Materials Science, Japan
15:00-15:30 PM	Session Break	
Session: Ceramics II Chair: Piotr Kowalski		
15:30-15:55 PM	A07: Fabrication of high strength transparent polycrystalline spinel ceramics through SPS technique	Koji Morita , National Institute for Materials Science, Japan
15:55-16:20 PM	A08: Synthesis of sodium-boride ceramics	Haruhiko Morito , Tohoku University, Japan
After 16:20 PM	Dinner Social	

Tuesday April 25**Morning****Session: Ceramics III Chair: Yann Leconte**

9:10-9:35 AM	A09: Wettability and Joining of UHTC	Noritaka Saito , Kyushu University, Japan
9:35-10:00 AM	A10: Multifunctional ceramic coating research and development for nuclear fusion reactors	Takumi Chikada , Shizuoka University, Japan
10:00-10:30 AM	Session Break	

Session: Membranes III Chair: Wanchun Xiang

10:30-10:55AM	A11: Innovative Lithium Recovery Technology from Seawater using a Lithium Ionic Superconductor Membrane	Tsuyoshi Hoshino , National Institutes for Quantum and Radiological Science and Technology (QST), Japan
10:55-11:20 AM	A12: Disordered clusters of Bak dimers rupture the mitochondrial membrane during apoptotic cell death	Ruth Kluck , Molecular Genetics of Cancer Division, Walter and Eliza Hall Institute of Medical Research, Australia
11:20-11:55 AM	A13: Nanorheology: Using neutrons to discover the dynamics of biological membranes	Sebastian Jaksch , Jülich Centre for Neutron Science JCNS, Forschungszentrum Jülich GmbH, Germany
12:00-13:30 PM	Lunch Break	

Tuesday April 25

Afternoon

Session: Ceramics IV Chair: Hajime Nagata

14:00-14:25 PM	A14: Elaboration of nanostructured SiC / carbon nanotubes composites: mechanical, electric and thermal properties	Yann Leconte , Nanometric Structures Laboratory, France
14:25-14:50 PM	A15: Recent progress on the spinel-type and perovskite-type NTC thermistor ceramics	Aimin Chang , Xingjiang Technical Institute of Physics and Chemistry of Chinese Academy of Sciences, China
14:50-15:30 PM	Poster Session & Refreshments	
P01: Effect of functionalized halloysite nanotubes on polyetherimide hollow fiber membrane for the removal of hazardous reactive dyes from wastewater		Arun M. Isloor , National Institute of Technology Karnataka, Surathkal, India
P02: Preparation of single-crystalline ultrathin 2D TiO ₂ nanosheets and its superior photovoltaic devices		Liyuan Sheng , Shenzhen Institute Peking University, China
P03: Preparation and Characterization of Ba _{0.2} Sr _{0.8} La ₄ Ti _{4+x} O ₁₅ Microwave Dielectric Ceramics		Bin Tang , University of Electronic Science and Technology of China, China
P04: Effects of La ₂ O ₃ -B ₂ O ₃ -ZnO additions on the low temperature sintering and microwave dielectric properties of (Ca _{0.61} La _{0.26})TiO ₃ ceramics		Chaowei Zhong , University of Electronic Science and Technology of China, China
P05: The shrinking process and microwave dielectric properties of BaCu(B ₂ O ₅)-added 0.85BaTi ₄ O ₉ -0.15BaZn ₂ Ti ₄ O ₁₁ ceramics		Ying Yuan , University of Electronic Science and Technology of China, China
P06: The effects of Ta ₂ O ₅ /Y ₂ O ₃ co-doping on the microstructure and microwave dielectric properties of Ba(Co _{0.56} Zn _{0.4}) _{1/3} Nb _{2/3} O ₃ ceramics		Shu-ren Zhang , University of Electronic Science and Technology of China, China
Session: Membranes IV Chair: Alexei Pervov		
15:30-15:55 PM	A16: The application of hydrophobic polymers in the construction of perovskite solar cells	Wanchun Xiang , Wuhan University of Technology, China
15:55-16:20 PM	A17: Self-assembled polymer thin film and application	Xiao Gong , Wuhan University of Technology, China
After 16:20 PM	Dinner Social	

Wednesday April 26

Morning

Session: Ceramics V Chair: Takumi Chikada

9:10-9:35 AM	A18: Bi-based Piezoelectric Ceramics for High Temperature Sensor Applications	Hajime Nagata , Tokyo University of Science, Japan
9:35-10:00 AM	A19: The theoretical study on the silicide nuclear fuels and SiC cladding materials	Shiyu Du , Chinese Academy of Sciences , China
10:00-10:25 AM	A20: A synergistic effect of Li-B-Si glass and La-B addition on low-temperature sintering of BaO-0.15ZnO-4TiO ₂ microwave dielectric ceramic	Enzhu Li , University of Electronic Science and Technology of China, China
10:25-11:00 AM	Session Break	
12:00-13:30 PM	Lunch Break	

Wednesday April 26
Afternoon

Free Time

16:00-20:00 PM

Dinner Social

Thursday April 27

One day academic exchange & excursion