

DAY 1 Wednesday 16/09/2020		
	Time (UTC+1)	
Germany		
Masterclass for students (TUHH Supercritical drying)	10:00 - 11:30	Master class
Opening (Irina Smirnova)	11:45 - 12:00	
Moderator: Irina Smirnova		
Engineering of Aerogels for Biomedical Applications Linked to Ageing of Population	12:00 - 12:20	Biomedical Applications
Carlos A. García-González, Clara López-Iglesias, Víctor Santos-Rosales, Mariana Landín, José L. Gómez-Amoza Universidade de Santiago de Compostela, Spain		
Neuronal Response to Memory Shape Polymer Aerogel	12:20 - 12:40	
Martina Rodriguez Sala, Nicholas Leventis, Firouzeh Sabri University of Memphis, USA; Aspen Aerogels, USA		
3D-printing of alginate aerogels for tissue engineering applications	12:40 - 13:00	
Ana Iglesias-Mejuto, José Luis Gómez-Amoza, Carlos A. García-González Universidade de Santiago de Compostela, Spain		
Break 13:00 - 13:30		
Break 13:00 - 13:30		
Moderator: Irina Smirnova	Time	
Poster session	13:30 - 14:30	Poster session
Plenary (Prof. Shen Jun, Tongji University) "Aerogels—Recent Progress and Applications in China"	14:35 - 15:10	Plenary 1
Break 15:10 - 15:25		
Moderator: Carlos Garcia	Time	
Biopolymer aerogels for pharmaceutical and medical applications	15:25 - 15:45	Organic and Inorganic Aerogels
Daria Lovskaya, Natalia Menshutina Mendeleev University of Chemical Technology of Russia; International Center for transfer of Pharmaceutical and Biotechnology, Rissia		
Influence of processing conditions on chitosan aerogel structure and properties	15:45 - 16:05	
Coraline Chartier, Sytze Buwalda, Tatiana Budtova MINES ParisTech, France		
Nano-fibrillated cellulose aerogels: How density affects its properties	16:05 - 16:25	
Deeptanshu Sivaraman, Shanyu Zhao, Gilberto de Freitas Siqueira, Gustav Nyström, Marco Lattuada, Matthias M. Koebel, Wim J. Malfait Swiss Federal Laboratories for Materials Science and Technology, Switzerland; University of Fribourg, Switzerland		
Nanocellulose porous structures prepared via ambient pressure drying	16:25 - 16:45	
Wataru Sakuma, Shunsuke Yamasaki, Shuji Fujisawa, Takashi Kodama, Junichiro Shiomi, Kazuyoshi Kanamori, Tsuguyuki Saito The University of Tokyo; Kyoto University		
Break 16:45 - 17:00		
Moderator: Matthias Koebel	Time	
Polyurea-crosslinked Biopolymer Aerogels – Synthesis, Properties and Applications	17:00 - 17:20	Biopolymer Aerogels
P. Paraskevopoulou, I. Smirnova, P.Gurikov, T. Athamneh, M. Papastergiou, D. Chriti, G. Raptopoulos, F. Leontaridou, E. Effraimopoulou National and Kapodistrian University of Athens, Greece; Hamburg University of Technology, Germany		
Interface Modification of TPU-Reinforced Polymer-Based Silica Aerogels with Hierarchal Multimodal Porosity and Extremely High Surface Area	17:20 - 17:40	
Solmaz Karamikamkar, Omid Aghababaei Tafreshi, Hani E. Naguib, Chul B. Parka University of Toronto, Canada		
3D printing of silica and hybrid aerogels with excellent replication fidelity	17:40 - 18:00	
S. Zhao, G. Siqueira, S. Drdova, D.Norris, C. Ubert, A. Bonnin, S. Galmarini, M. Ganobjak, Z. Pan, S. Brunner, G. Nyström, J. Wang, M. M. Koebel, W. J. Malfait Swiss Federal Laboratories for Materials Science and Technology, Switzerland; ETH Zurich, Switzerland; Swiss Light Source, Paul Scherrer Institute, Switzerland; Slovak University of Technology in Bratislava, Slovak Republic; South China University of Technology, China		
Influence of alumina/silica ratio on the properties of alumina-silica-based aerogels reinforced with aramid fibres	18:00 - 18:20	
Mariana Emilia Ghica, Cláudio M.R. Almeida, Laura Rebelo, Luisa Durães University of Coimbra, Portugal		
Metallic Aluminum Aerogels from Magnesiothermal Reduction of Alumina Aerogels	18:20 - 18:40	
Moriah C. Buckwalter, Ryan T. Nelson, Lauren E. Randaccio, Justin S. Griffin, and Stephen A. Steiner III Aerogel Technologies, USA		
End of Day 1		

DAY 2 Thursday 17/09/2020		
	Time (UTC+1) Germany	
Masterclass for students (DLR/ZAE characterization)	10:00 - 12:00	Master class Open round table
Parallel Round table (Moderator: Smirnova Sino- German workshop)	11:15 - 12:00	
Moderator: Gudrun Reichenauer		
Protein Aerogels: Insights into solvent exchange and shrinkage phenomena using 1-D Raman Spectroscopy	12:00 - 12:20	Aerogel Characterization-I
Martin Peter Dirauf, Pavel Gurikov, Andreas Siegfried Bräuer Technische Universität Bergakademie Freiberg, Germany; Hamburg University of Technology, Germany		
Hydration Mechanism of Polyimide and Polyamide Aerogels Investigated by NMR Spectroscopy and SANS Techniques	12:20 - 12:40	
Attila FORGÁCS, Krisztián MOLDOVÁN, Adél Len, Zoltán Dudás, István FÁBIÁN, József KALMÁR University of Debrecen, Hungary		
Temperature Sensing in Aerogels by Means of Phosphor Thermometry	12:40 - 13:00	
Firouzeh Sabri University of Memphis, USA		
Development of a Method for the In-situ Investigation of the CO2 Induced Gelation of Biopolymer Solutions towards Aerogel Production	13:00 - 13:20	
Imke Preibisch, Pavel Gurikov, Irina Smirnova Hamburg University of Technology, Germany		
Break 13:20 - 13:35		
Moderator: Irina Smirnova	Time	
Poster session	13:35 - 14:35	Poster session
Plenary (Stephanie Vivod, NASA) "Polymer Aerogels for Lunar Applications and Beyond"	14:35 - 15:10	Plenary 2
Break 15:10 - 15:25		
Moderator: Barbara Milow	Time	
Silica aerogel pillars for vacuum glazing	15:25 - 15:45	Aerogel Characterization-II
C. Scherdel, J. Nauschütz, B. Büttner, G. Reichenauer Bavarian Center for Applied Energy Research, Germany		
Intercomparison of Thermal Conductivity Measurements on PU Aerogels	15:45 - 16:05	
G. Reichenauer, H.-P. Ebert, S. Vidi, F. Hemberger, F. Lied Bavarian Center for Applied Energy Research, Germany; BASF Polyurethanes GmbH, Germany		
Preliminary characterization of physical properties and colour rendering performance of monolithic hydrophobic silica aerogels	16:05 - 16:25	
Ann M. Anderson, Mary K. Carroll, Costanza V. Fiorini, Francesca Merli, Cinzia Buratti Union College, USA; University of Perugia, Italy		
Fluidization Regimes for Alginate Aerogel Particles in a Laboratory Scale Wurster Fluidized Bed	16:25 - 16:45	
Işık Sena Akgün, Can Erkey Koç University, Turkey		
Break 16:45 - 17:00		
Moderator: Can Erkey	Time	
Evaluation of transient kinetics during the supercritical CO2 drying	17:00 - 17:20	Aerogel processing
Albero Bueno Morales, Irina Smirnova Hamburg University of Technology, Germany		
Organic binder-silica composite aerogel for the improvement of mechanical strength	17:20 - 17:40	
Kyu-Yeon Lee, Taehee Kim, Younghun Kim, Haryeong Choi and Hyung-Ho Park Yonsei University, Korea		
Directing the microstructure and shape morphosis in the self-assembled silk fibroin biopolymer hybrids as advanced multifunctional aerogels	17:40 - 18:00	
Nighat Karamat, Valentin Bruder, Sanjay Mathur, Hajar Maleki University of Cologne, Germany		
Open discussion with organizers about the online conference (Moderators: Irina Smirnova/Steve Steiner)	18:00-19:00	Open round table
End of Day 2		

DAY 3 Friday 18/09/2020		
	Time (UTC+1) Germany	
Masterclass for students (MUCTR mathematical modeling)	10:00 - 12:00	Master class
Parallel Round table (Moderator: Carlos Garcia EU Cost Action)	11:15 - 12:00	Open round table
Moderator: Pavel Gurikov		
3D modeling of biopolymer aerogels		Modeling of Aerogels
Rajesh Chandrasekaran, Markus Hillgärtner, Ameya Rege, Barbara Milow, Mikhail Itskov RWTH Aachen University, Germany; German Aerospace Center, Germany	12:00 - 12:20	
Modeling the hydration effects in aerogels		
Ameya Rege, Pavel Gurikov, József Kalmár, and Barbara Milow German Aerospace Center, Germany; Hamburg University of Technology; University of Debrecen, Hungary	12:20 - 12:40	
Understanding the influence of morphology on the fractal and mechanical properties of silica aerogels		
Rasul Abdusalamov, Christian Scherdel, Mikhail Itskov, Barbara Milow, Gudrun Reichenauer, Ameya Rege RWTH Aachen University, Germany; German Aerospace Center, Germany; Bavarian Center for Applied Energy Research, Germany	12:40 - 13:00	
Permeability of Aerogels at Supercritical CO2 conditions		
Haotian Jia, Georgios Karamanis, Hy Dinh and Marc Hodes Tufts University, USA	13:00 - 13:20	
Break 13:20 - 13:35		
Moderator: Irina Smirnova	Time	
Poster session	13:35 - 14:35	Poster session
Plenary (Steve Steiner, Aerogel Technologies) "The Aerogel Industry: Current Status, Players, and Opportunities"	14:35 - 15:15	Plenary 3
Break 15:15 - 15:25		
Moderator: Irina Smirnova	Time	
Salt-templated metal and metal oxide porous materials		Electrochem-I
F. John Burpo, Enoch A. Nagelli, Anchor R. Losch, Felita Zhang, Veronica Lucian, Alexa Zammitt, Brittany Aiken, Epiphany Donkeng United States Military Academy, West Point, USA	15:25 - 15:45	
Mechanistic Studies on Metal Aerogels and their Application in Electrocatalysis		
A. Eychmüller Technical University Dresden, Germany	15:45 - 16:05	
A New Approach to Semiconducting Metal Chalcogenide Aerogel Formation via Electroreduction: Opportunities and Challenges		
Stefanie Brock Wayne State University, USA	16:05 - 16:25	
Nanostructure rod-like TiO2-reduced graphene oxide composite aerogels for highly-efficient visible-light photocatalytic CO2 reduction		
Sijia Liu, Gang Tan, Sheng Cui, Xiaodong Shen University of Wyoming, USA; Nanjing Tech University, China	16:25 - 16:45	
Break 16:45 - 17:00		
Moderator: Stephanie Brock	Time	
On-chip assembly of 3D graphene-based aerogels for chemiresistive gas sensing		Electrochem-II
Gaofeng Shao, Oleksandr Ovsianytzkyi, Maged F. Bekheet, Aleksander Gurlo Nanjing University of Information Science & Technology, China; Technische Universität Berlin, Germany	17:00 - 17:20	
Textural and electrochemical characterization of carbon aerogel from cellulose		
N. Ramirez, F. Sardella, C. Deiana, N. C. Bigall Leibniz University Hannover, Germany; National University of San Juan, Argentina	17:20 - 17:40	
Emission properties of silica-carbon dot composites with different porous structures		
S. V. Thakkar, C.M. Carbonaro, R. Ludmerczki, C. Olla, A. Pinna, D. Loche, L. Malfatti, F. C. Marincola, M. F. Casula University of Sassari, Italy; University of Cagliari, Italy; King Abdullah University of Science and Technology, Saudi Arabia	17:40 - 18:00	
Closing, Poster prize	18:00 - 18:30	Closing
End of Day 3		