Rhine Ceramic Chapter Germany think global - act local



The International Rhine Round Table was established in 2017 as a platform to connect researchers from industry and academia, who are active in the field of ceramics and glass technology. Besides facilitating scientific discussions among world-class experts on the emerging trends in science and technology of

ceramics materials and glass, this forum offers a common space to discuss shared interests among different professional societies in Germany, Europe and other regions worldwide to promote collaboration in research and training. Renowned international experts will participate this year to showcase their recent developments in fundamental and applied R&D, and to discuss new models for improving the engagement of young scientists in professional activities and societies.

The Rhine Ceramic Chapter Germany will be organizing regular events, workshops and lectures to promote and connect ceramic and glass science, technology as well as application across academia, industry and intereseted public. Further information and updates are available at the chapter website ceramics.uni-koeln.de

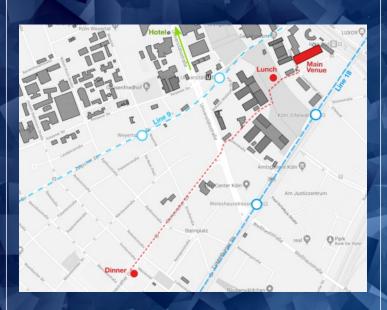
Chapter Officers

President Sanjay Mathur, University of Cologne

Vice-President Yakup Gönüllü, Schott AG
Secretary Emanuel Ionescu, TU Darmstadt
Treasurer Thomas Fischer, University of Cologne

Main Contact

Prof. Dr. (h.c.) Sanjay Mathur Chair, Inorganic and Materials Chemisty University of Cologne, Germany ceramics-chapter@uni-koeln.de ceramics@uni-koeln.de



Main Venue

Building 304: Biozentrum Köln Zülpicher Straße 47b, 50674 Cologne

Lunch Venue

Park between main venue and physics building

Dinner Venue

Angelo D'Oro

Berrenrather Str. 197, 50937 Cologne



2nd International Rhine Round Table

Emerging Frontiers in Ceramic Materials and Glass

Inaugural Symposium of the Rhine Ceramic Chapter Germany

24. September 2018Biocenter, University of Cologne



ceramics.uni-koeln.de

Program

Registration Lunch Break 08:30 **Chapter Inauguration and Society Spotlight Keynote Highlights (Chair: Daniel Stadler)** (Chair: Sanjay Mathur) Germany 16:30 09:00 Introductory Remarks, Sanjay Mathur, Chair, Inorganic 13:30 Bridging the innovation chasm "Research to industry", and Materials Chemistry, University of Cologne Suprakas Ray, Council for Scientific and Industrial Center (DLR), Germany Research (CSIR), South Africa 16:40 (Germany) Chapter Inauguration (Mike Alexander, Günter Engineering Resilience - A refractories Perspective, 13:45 Schwarz, Sanjay Mathur) Dana Goski, Allied Mineral Products, USA Welcome Address, Günter Schwarz, Dean, Faculty of Innovation and Challenges for surface modifications in 14:00 Mathematics and Natural Sciences. University of the glass industry. Eveline Rudigier-Voigt, Schott AG. Nürnberg, Germany Cologne (Germany) 16:50 09:15 Round Table Discussion, Moderation: Jennifer Leduc, 14:15 Smart Business Strategy in response to the 4th Isabel Gessner Industrial Revolution in Materials Industry, Taejin Hwang, Korea Institute of Industrial Technology, 17:00 Coffee Break & Group Photo KITECH, Korea 14:30 Correlative microscopy - the beginning of the 'food chain' in materials and bio-medical research and a 17:10 **Society Spotlights (Chair: Thomas Fischer)** data treasury to exploit, Silke Christinsen, , Helmholtz Center Berlin (HZB), Germany 14:45 Society Spotlight: ACerS, Mike Alexander, President Silicon Nitride Ceramics - Progress and Challenge, ACerS, Allied Mineral Products, USA Tatsuki Ohji, National Institute of Advanced Industrial 17:20 Materials Research Society: Reflections and Science and Technology (AIST), Japan 10:40 Directions, Todd Osman, Executive Director, Material 15:00 Single walled carbon nanotube thin films for novel 3D electronics applications, Esko Kauppinen, Aalto research Society (MRS), USA 17:30 Society Spotlight: DKG, Ingolf Voigt, Deputy Institute University, Finnland 10:50 Director, Fraunhofer-Institut für Keramische 15:15 Nano and fine particles behavior control for ceramic Technologien und Systeme (IKTS), Gemany materials processing, Hidehiro Kamiya, Tokyo 11:00 Society Spotlight: DGM. Dietmar Koch, Institute of University of Agriculture and Technology, Japan 17:40 Structures and Design, German Aerospace Center (DLR), Germany 15:30 **Coffee Break** ECerS's mission, activities and future perspectives, 17:50 11:10 Csaba Balaczi, Centre for Energy Research, Hungarian **Invited Highlights (Chair: Jennifer Leduc)** Academy of Science, Hungary 11:20 Chapter Spotlight: ACerS Italy Chapter, Monica 18:30 **Networking Dinner** Ferraris, Politecnico di Torino, Italy 16:00 Ceramics for Energy @ DKG, Olivier Guillon, Director, Diamond: Best friend of Power Devices and Quantum Institute for Energy- and Climate Research (IEK-1), 11:30 Technology, Ken Haenen, Hasselt University, Belgium Research Center Jülich, Germany 11:40 Innovation, a national and European challenge, Julián 16:10 Inorganic complex materials through solution Martinez, University of Seville, Spain chemistry; from precursors to products, Gunnar 11:50 Discussion, Moderation: Thomas Fischer Westin, Department of Chemistry - Ångström

Laboratory, Uppsala University, Sweden

Multi-Materials Additive Manufacturing, Hans-Jürgen 16:20 Richter, Additive Manufacturing, Fraunhofer-Institut für Keramische Technologien und Systeme (IKTS),

3D Powder Printing in Space, Matthias Sperl, Institute of Materials Physics in Space, German Aerospace

Cellular Ceramics: key materials for various fields of application, Tobias Fey, Institute of Glass and Ceramics, Department of Materials Science and Engineering, Friedrich-Alexander Universität Erlangen-

Novel Nanostructured Luminescent Materials for Bio-Imaging, Claudia Wickleder, Inorganic Chemistry, University of Siegen, Germany

Bioactive silicon oxycarbide glasses with highly connected networks, Emanuel Ionescu, Institute for Materials Science, TU Darmstadt, Germany

Ceramics for energy, environment and security in the Laboratory for High Performance Ceramics at IIT Madras, Ravi Kumar, Laboratory for High Performance Ceramics, IIT Madras, India

Phosphate based all solid state Li-ion battery, Roland Schierholz, Fundamental Electrochemistry (IEK-9), Research Center Jülich, Germany

Ceramic materials and technologies for the development of solid-state batteries, Dina Fattakhova-Rohlfing, Institute for Energy- and Climate Research (IEK-1), Research Center Jülich, Germany

Perovskite solar cell efficiency and stability. Trilok Singh, School of Energy Science and Engineering Indian Institute of Technology Kharagpur, India

Concluding Remarks, Mrityunjay (Jay) Singh, Former President, ACerS, Ohio Aerospace Institute, USA

Further information and updates are available at

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