



**HEAT  
TREATMENT**



# 14<sup>th</sup> International Conference on Ceramic Processing Science

**E<sub>RS</sub>**

**IFMC**

The  
American  
Ceramic  
Society



  
**KULTURENS HUS**  
NORRA HAMN • LULEÅ

**Luleå, Sweden,  
June 21-24, 2020**



## Greetings

On behalf of the Organizing Committee, we warmly welcome materials scientists, researchers, engineers and ceramic manufacturers to Luleå, a historical coastal city of Swedish Lapland, for the 14th International Conference on Ceramic Processing Science from June 21-24, 2020. The Division of Materials Science at Luleå University of Technology and Department of Materials Chemistry at Stockholm University Sweden will jointly organize this prestigious meeting.

14th International Conference on Ceramic Processing Science will provide a platform to present and exchange latest novel and cutting-edge research on ceramic processing science for the development of advanced engineering ceramics, functional ceramics, bioceramics, ceramic coatings and more. Since the first ICCPS conference (Orlando, FL, USA) in 1987, the forum has shown significant growth and brought scientists, engineers, students and manufacturers from ceramics, materials science and engineering, chemistry, energy, physics and manufacturing.

For the 14th conference in the series, we will organize this event truly fruitful for the participants scientifically and unforgettable event socially.



## Chairs



### Farid Akhtar

Department of Materials Science,  
Luleå University of Technology  
Sweden



### Lennart Bergström

Department of Materials and  
Environmental Chemistry,  
Stockholm University  
Sweden





# International Co-Chairs



**Jennifer A. Lewis**

Area of Materials Science and Mechanical Engineering  
Harvard University



**Gary L. Messing**

Department of Materials Science and Engineering  
Penn State University



**Kazumi Kato**

Inorganic Functional Materials Research Institute  
National Institute of Advanced Industrial Science and Technology (AIST)

# International Scientific Committee

- James H. Adair, Prof. Penn State University, USA  
Elis Carlström, Dr. Swerea IVF, Sweden  
Thierry Chartier, Dr. SPCTS, France  
I-Wei Chen, Prof. University of Pennsylvania, USA  
Paolo Colombo, Prof. Padua University  
Brian Derby, Prof. University of Manchester, UK  
Sylvain Deville, Dr. CNRS, France  
Bruce Dunn, Prof. University of California, Los Angeles, USA  
Peizhong Feng, Dr. China University of Mining and Technology, China  
Olivier Guillon, Prof. Forschungszentrum Jülich & RWTH Aachen University, Germany  
John Halloran, Prof. University of Michigan, USA  
Andreas Kaiser, Dr. Technical University Denmark, Denmark  
Andraz Kocjan, Dr. Josef Stefan Institute, Slovenia  
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Alexandre Maitre, Prof. IRCER – UMR CNRS 7315, University of Limoges  
Gary Messing, Prof. Penn State University, USA  
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Don Seo, Dr. Arizona State University, USA  
Wolfgang Sigmund, Prof. University of Florida, USA  
Adam Stevenson, Dr. CNRS/Saint-Gobain, France  
Andre Studart, Dr. ETH, Switzerland  
Ender Suvaci, Prof. Anadolu University, Turkey  
Yanchun Zhou, Dr. Aerospace Research Institute of Materials and Processing, China





# Call for abstract

We welcome your abstract submissions for oral papers, panel presentations, and scientific posters.

## Important dates

- Open for abstract submission: October 01, 2019
- Deadline for abstract submission: January 15, 2020
- Notification of acceptance: February 15, 2020
- Deadline for Early registration: March 15, 2020
- Deadline for Regular registration: April 15, 2020



## Topics

### 1. Materials and applications

- Colloids, Self-assembly
- Aerogels
- Fluids
- Oxides, Chalcogenides, Nitrides, Carbides, Silicides, Hydrogenides, etc
- Hybrids, Composites
- Solid state ionics, Fuel cells, Batteries
- Optical materials
- Magnetics
- Catalysts
- Nano carbon, Graphene
- Thin films
- Atom layer compounds
- Dielectrics, Ferroelectrics, Piezoelectrics
- Thermoelectric materials
- Photovoltaics

### 2. Processing of ceramics

- Powder processing
- Solution-based processing, Bioinspired processing
- Casting, Forming, Extraction: 3D-, Photo-assisted, Freezing, etc
- Sintering: Microwave, Flash, Pulse, etc.
- Additive manufacturing

### 3. Microstructure and performance

- Microstructure, Nanostructure
- Bulk ceramic
- Porous ceramic