

## SUNDAY, JUNE 17

Registration, opening ceremony & welcome cocktail party (15:00-21:30)

## MONDAY, JUNE 18

### GLASSY DYNAMICS AND TRANSPORT PROPERTIES

08:30-09:00 Pierre Lucas - Fragile-to-strong transitions in network glasses (invited)

09:00-09:30 Mathieu Bauchy - Open Questions in Glass Relaxation (invited)

09:30-10:00 Aswini Ghosh - Structure-transport Correlation of Mixed Network Former Glasses (invited)

10:00-10:30 Ana C. M. Rodrigues - The model of ionic glass as weak electrolyte revisited (invited)

10:30-10:50 COFFEE-BREAK

10:50-11:10 Dylan Jouglard - Electrical properties of borosilicate glasses melted by cold crucible induction melter (CCIM) technology

### GLASS STRUCTURE AND TOPOLOGY

11:10-11:30 Shinnji Kohara - Unravelling diffraction pattern of glass, liquids, and amorphous materials (oral)

11:30-11:50 Eduar E. Carvajal - Structure-property relations in rare-earth doped GeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>-PbO-PbF<sub>2</sub> glasses by modern magnetic resonance techniques

### PLENARY TALK

11:50-12:30 André Studart "Ceramics inspired by nature"

**12:30-14:00 LUNCH (included in the registration fee)**

14:00-14:30 Martin C. Wilding - Exploring the structure of glass-forming liquids using high energy X-ray diffraction, containerless methodology and state-of-the-art molecular dynamics simulation (invited)

14:30-15:00 Matthieu Micoulaut - Polyamorphic and rigidity transitions in glasses (invited)

15:00-15:30 Daniel R. Neuville - Percolation channels: a universal idea to describe the atomic structure and dynamics of glasses and melts (invited)

16:00-16:30 COFFEE-BREAK

### 16:30-17:30 POSTER FIRE TALKS

17:30-19:00 POSTER SESSION/HAPPY-HOUR

19:00 ICF Council meeting / dinner (by invitation)

# TUESDAY, JUNE 19

## MECHANICAL PROPERTIES

08:30-09:00 Walter Kob - Fracture of Sodium-Silicate Glasses: Insights from computer simulations (invited)

09:00-09:30 Satoshi Yoshida - In-situ evaluation of structural changes of glass under a sharp indenter (invited)

09:30-10:00 Morten M. Smedskjaer - Indentation Deformation and Crack Resistance of Oxide Glasses (invited)

10:00-10:30 Francisco C. Serbena - Mechanical Properties of Glass-Ceramics (invited)

10:30-10:50 COFFEE-BREAK

10:50-11:10 Kacper Januchta - Tuning Mechanical Properties of Aluminoborate Glasses by Modifier Substitution

## OPTICAL PROPERTIES

11:10-11:30 Mauricio Rodriguez - Thermally and Optical Stimulated Luminescence studies in oxyfluoride glasses and glass-ceramics

11:30-11:50 Danilo Manzani - Phosphotellurite glass and glass-ceramics with high TeO<sub>2</sub> content: thermal, structural and optical investigations

## PLENARY TALK

11:50-12:30 E. D. Zanotto - "Glasses and Glass Transition for Ceramists"

**12:30-14:00 LUNCH (included in the registration fee)**

14:00-14:30 Chao Liu - Strategies towards highly luminescent quantum dots in glasses (invited)

## GLASS PROCESSING

14:30-15:00 Ashutosh Goel - Challenges with processing and performance of high level nuclear waste glasses: Past, present and future (invited)

15:00-15:30 Ralf Mueller - Glass sintering with concurrent crystallization and foaming (invited)

16:00-16:30 COFFEE-BREAK

16:30-17:30 FREE

17:30-19:00 POSTER SESSION/HAPPY-HOUR

## Dinner party

## WEDNESDAY, JUNE 20

### SPECIAL GLASSES

08:30-09:00 Richard Brow - Borophosphate Glasses for Biomedical Applications (invited)

09:00-09:30 Julian R. Jones - Therapeutic properties of bioactive glass (invited)

09:30-10:00 John McCloy - Natural and Unconventional Anthropogenic Glasses: Juxtaposition of Geological and Technical Glass Considerations (invited)

10:00-10:30 Guido Ori - Glassy porous chalcogels: state-of-the-art scientific advances into their adsorption and gas separation properties via first-principles molecular dynamics (invited)

10:30-10:50 COFFEE-BREAK

10:50-11:10 Peter Kroll - DFT Studies of  $\text{HfO}_2\text{-Na}_2\text{O-SiO}_2$  glasses

### CRYSTALLIZATION AND GLASS-CERAMICS

11:10-11:30 Alex Abyzov - Heating rate effect on nucleation rate measurements by Tammann's development method: applications to crystallization of silicate glasses

11:30-11:50 Christian Thieme - Nucleation agents in a new type of glass ceramics with low thermal expansion

### PLENARY TALK

11:50-12:30 M. Murray - "Materiomics and emerging manufacturing technologies for sustainable development"

**12:30-14:00 LUNCH (included in the registration fee)**

14:00-14:30 Jianrong Qiu - Control of crystallization in glass (invited)

14:30-14:50 Michael Kracker - Surface crystallization of low thermal expansion glass ceramics

14:50-15:20 Guillaume P. J. Ferlat - Numerical studies of crystallization and vitrification: a novel and general method applied to water and  $\text{B}_2\text{O}_3$  (invited)

15:20-15:40 Luis G. V. Gonçalves - Million atom MD simulations of crystal nucleation in supercooled Ni

16:00-16:30 COFFEE-BREAK

16:30-17:30 FREE

17:30-19:00 POSTER SESSION/HAPPY-HOUR

**19:00 Congress banquet**

# THURSDAY, JUNE 21

## CERTEV MEETING

08:30-10:30 Special issue of JNCS + CeRTEV – Opportunities for research collaboration

10:30-10:50 COFFEE-BREAK

10:50-11:30 .....

## PLENARY TALK

..... M. Yoshimura - **"Why Soft Processing (=Low-Energy Production) of Advanced Materials is Difficult but Necessary for Sustainable Society?"**

**12:30 CLOSING CEREMONY**