

The new TC3 is the merge of TC03 and TC22 committees (Structure-properties relationships) devoted to the study of the structure and properties of glasses.

In 2013 during the TC3 meeting in Praha, I proposed that a large board can manage this new TC3, composed of 4 vice-chairs: Akira Takada, Francisco Muñoz, Efstratios Kamitsos and Lionel Montagne. With this extended board, we can organize more meetings and we can promote more activities of the TC3 on structure and properties of glasses.

During the current 2014 year, we will organize 1 meetings during the Borate-Phosphates Glass conference, in Pardubice (CZ). Lionel Montagne animated the meeting in Pardubice during the boro-phosphate conference.

We decided to continue the activities initiated in previous years:

- Continue work on the borates and go towards true convergence between different teams and techniques: IR, Raman, NMR... And also these structural knowledge's can be link to properties and glass and also directly connected to the measure of properties at high temperature and the determination of the structure at high temperature.

-For the borosilicate glass, it is also possible to find some phase separation, but one of the principal problem is the definition of phase separation and how to apprehend it? what can be the best spectroscopic tools? how phase separations can play on thermodynamic (sizes of domains) versus rheological and conductivity properties...

For the futurs axes of the TC3 we have some reflections:

-What is a network former?

What is a ligand (O in GeO_4 , Te in GeTe_4) has a network such as TeO_2 formatter? Are there other elements having the same behavior?

-What is a network modifier and what is the difference with a charge compensator Al and B?

- How transition elements are changing their of role based on the redox? Like $\text{Fe}^{2+}/\text{Fe}^{3+}$, $\text{V}^{2+}/\text{V}^{3+}/\text{V}^{4+}/\text{V}^{5+}$

The next meeting of the TC3 will take place in Miami, 17 May 2015 2pm in the Room Concerto D, Hotel Hilton Miami Downtown.

News Members of TC3:

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Armenak Osipov, (Prof Dr)

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