

## TC14: Gases in Glass

**Mission:** *“Investigate gases in glass and gas inclusions and determine their influence on glass quality and properties”*

TC14 promotes activities to better understand evolution mechanisms of gases in glass and bubble formations. It supports cooperation with other Technical Committees in order to fulfill its mission. Most of its recent activities have been carried out jointly with TC11 and TC18 regarding the influences of glass contact materials and melting process on bubble formation.

*Chairman: Mustafa Oran*

*Members:*

*Detlef Köepfel*

*Harald Behrens*

*Hayo Müller-Simon*

*Jan Hermans*

*Jaroslav Klouzek*

*Jiri Ullrich*

*John Mason*

*Juergen Daniel*

*Leonid Giebov*

*Lubomir Nemeč*

*Martin Gaber*

*Masataka Kawaguchi*

*Mathi Rongen*

*Noriyuki Yoshida*

*R. Müller*

*Rei Kitamura*

*Sean Marsden*

*Simonpietro DiPierro*

*Stefano Ceola*

*Terutaka Maehara*

*Wolf Kuhn*

*Yukihito Nagashima*

### *News and Ongoing Activities*

- We proudly inform that The Turner Award was given jointly to Dr. Detlef Köepfel (TC14) and Dr. Volker Rupertus (TC19) in the opening ceremony of 2015 Annual Conference in Bangkok. Dr. Köepfel from Schott Glass has completed maximum term of 9 years as Chairman of TC14, giving his maximum energy and time to TC14 Works.
- Dr. Mustafa Oran from SiseCam was elected as the new chair of TC14.
- The next meeting of TC14 will be held during ESG 2016 Conference in Sheffield / The UK (4 – 8 September 2016).
- Refractory – Blister Test: The guidelines for both dynamic and static blister tests, prepared and revised by Dr. Michael Dunkl, the chair of TC11 were distributed to the participants.
- CO<sub>2</sub> Solubility - comparison of the methods (advantages & disadvantages): Two analytical methods for the determination of CO<sub>2</sub> in molten glass; vacuum high temperature extraction and Helium carrier gas extraction give different results for the same samples since both methods have advantages and disadvantages.
- Nucleation of Bubbles in Glass Melt: This is a RRT work organized together with TC18. Mechanism of bubble nucleation is one of the important subjects to better understand melting and fining processes.
- RRT on Batch Melting: This is another co-activity proposed by TC18 and TC14. TC18 has proposed to develop a standard test to evaluate melting kinetics of glass forming raw materials.

*TC14 would like to thank to organizing committee and wishes a very successful conference in Shanghai, China*