

## **S6-2 Advances in Fusion and Processing of Glass**

### **SHORT DESCRIPTION:**

Glass processing technology from batch treatment to forming and cutting followed by sampling for quality evaluation have been improved from the point of view of the quality of products, economic demands, and especially sustainability of industry and society. At the present, carbon neutral perspective is one of the most important key factors steering and requiring big changes over all process of glass production. Many strategic approaches, projects and developments of instruments, methodology and system have been conducted and are still on-going for the future of glass industry to realize sustainable growing of society. In this symposium, advances in fusion and processing of glass are given focus which include experimental reports, modelling and simulation, advanced heating technology, energy transportation and conversion, evaluation of glass products etc. Several important keynote speakers in this field will be invited, and discuss about the progress of glass processing for 2030.

### **SESSION TOPICS:**

- # Raw materials, batch preparation, pre-/post-treatment, etc
- # Glass melting, heating source, monitoring, combustion, electric heating etc
- # Modelling, simulation, digital twin of process etc
- # Forming, annealing, cutting, etc
- # Quality evaluation, defects detection technology etc.
- # Energy strategy, system for GX
- # Glass process instrumentation, energy efficiency etc

### **ORGANIZERS:**

**Tetsuji YANO, Institute of Science Tokyo, Japan**

Noriyuki YOSHIDA, Nippon Electric Glass Co.,Ltd., Japan

Terutaka MAEHARA, AGC Inc, Japan

Christian ROOS, RWTH Aachen University, Germany

Scott COOPER, CelSian, USA

Tomoko AKAI, National Institute of Advanced Industrial Science and Technology, Japan