

The **Summer School on “Rheology Applied to Additive Manufacturing”** was organised by ECerS and the Portuguese Ceramic and Glass Society at the University of Aveiro, Portugal, on 13th September 2019, prior to the Shaping 7 conference. The aim of this school was to create a forum that brings together students, professors, and industrialists, going beyond the fundamentals of rheology for ceramic materials by applying them to different additive manufacturing techniques. There were 65 registered participants from 15 countries (Belgium, Brazil, France, Germany, Italy, Ireland, Japan, Poland, Portugal, Romania, Spain, Switzerland, Turkey, UK, Ukraine).

High quality courses were given during the school by:

- Fabrice Petit (Belgium) – An introduction about Additive Manufacturing Techniques
- Rodrigo Moreno (Spain) - Rheology of ceramic suspensions
- Gary Messing (USA) - Rheology for Additive Manufacturing of Textured Ceramics
- Hélio Jorge (Portugal) – Industrial Projects in Additive Manufacturing - Case study: rheological developments and studies of alumina pastes for robocasting

During the school, a presentation of ECerS and the JECS Trust was also made by Francis Cambier as well as a presentation of the Young Ceramists Network by Maria Canillas.

The **7th Shaping Conference**, jointly organized by the European Ceramic Society and the Portuguese Ceramic and Glass Society, was also held at the University of Aveiro, Portugal, from 11th to 13th September 2019. The conference was quite a success with 146 registered participants from 48 countries (Austria, Belgium, Brazil, China, Czech Republic, Finland, France, Germany, Greece, Iran, Ireland, Italy, Lichtenstein, Morocco, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, Ukraine, UK and USA) attending the event. 48 of the 146 attendees were students.

The conference content focused on the advanced shaping processes applied for ceramics through the following main topics: Raw Materials, Plastic Forming, Dry powder processing, Colloidal dispersion, Ceramics without powders, Prototyping, Structures, Modelling, economic, environmental and societal issues, Porous Materials and Foam Structures.

The 2 plenary speakers were Gary Messing from Pennsylvania State University, USA, presenting “Tape casting-enabled Macro - and Microstructure Complexity to Access Novel Ceramics” and Thomas Graule from EMPA, Switzerland presenting “Additive Manufacturing of Ceramics and nanopowder technology”. There were also 12 invited speakers and 74 regular oral presentations. 37 posters were presented and a best student poster contest was organised to grant the 3 best posters.

