

WORKSHOP ON PCM VISCOSITY, FREIBURG (GERMANY)

During the last years, as one of the Task 42-Annex 29-IEA activities, an intercomparative test was launched on PCM viscosity characterization. A first approach to characterize PCM viscosity has been tested until now by several institutions, using Parafol 19-97 and RT70 HC.

A workshop on the measurement of PCM viscosity in the framework of Task 58-Annex 33-IEA is going to be held at Fraunhofer ISE in Freiburg on 7th and 8th March 2018. The workshop offers the opportunity to know and use different rheology equipments, how to prepare different samples, to go in depth in the different measurement methodologies and to exchange our experience, with the ultimate goal of coming to comparable results and the proposal of a standardized procedure.

	6th March	7th March	8th March
09:00-09:30		Welcome + Introduction	Technical talk
09:30-10:00		Technical talks	Viscosity measurements
10:00-10:30			
10:30-11:00			
11:00-11:30			
11:30-12:00			
12:00-12:30		Lunch	Lunch
12:30-13:00		Viscosity measurements	Viscosity measurements
13:00-13:30			
13:30-14:00			
14:00-14:30			
14:30-15:00			
15:00-15:30			
15:30-16:00			
16:00-16:30		Coffee break	Coffee break
16:30-17:00		Viscosity measurements	Workshop conclusions
17:00-17:30			
17:30-18:00			
18:00-18:30			
19:30	Dinner/come together	Dinner	

Technical talks on 7th March	
10:00-10:30	First conclusions of PCM viscosity measurements in the frame of Task Annex 42-24-IEA-Mónica Delgado-University of Zaragoza-Aragón Institute for Engineering Research
10:30-11:00	Viscosity of Molten Salts and Polymer-based PCM: lessons learnt at the Birmingham Centre for Energy Storage-Helena Navarro-Birmingham Centre for Energy Storage
11:00-11:30	Viscosity measurements with the IMETER-Stephan Höhlein-University of Bayreuth
11:30-12:00	A short introduction to TA instruments rheometers-Mr. Schwab-TA Instruments

Technical talk on 8th March	
09:00-09:30	A short introduction to Haake Mars 60 rheometer-Mr. Kull-Thermo Fischer Scientific

Equipments available for viscosity measurements:

- 1) Anton Paar MCR 502,
- 2) Thermo Fischer Haake Mars II,
- 3) Thermo Fischer HAAKE MARS 60
- 4) TA Instruments DHR2

Substances to be measured: Paraffin, KNO₃, HDPE, etc.