

## One-day feedback - Round Robin Test:

### Comparison of Concrete Rheometers: International Tests at the Artois University

November 8<sup>th</sup>, 2019 – FNTF Paris (France)

The Round Robin Test "Comparison of Concrete Rheometers: International Tests at the Artois University" were organized from 28 to 30 May 2018 on the rheology and tribology of concretes, respectively. This event is part of the issues developed by RILEM and within the framework of the actions carried out by the RILEM - TC MRP-266 Committee: Measuring Rheological Properties of Cement-based Materials chaired by Dr Mohammed Sonebi from Queen's University Belfast (UK).

This is not the first time that international researchers and laboratories have been investigating the rheology of cement-based materials since two other RRTs were organized:

- The first RRT at LCPC in Nantes (France) in 23-27 October 2001,
- The second RRT at NIST in Cleveland (USA) in 19-23 May 2003.

After 15 years, there was no RRT organized on this topic. However, during this period, the progress has been considerable, as much by the widening of the range of the new type concretes, the progress made by the new devices (new and up rheometers) and finally the way to analysis of the results.

With the appearance of new rheometers, it becomes essential to know the equations to connect the different rheometers and establish common test procedures. This RRT has also validated new devices in development.



# Program

08:00 – 09:00	<b>Venue</b>
09:00 – 09:30	<b>M. Sonebi</b> <i>Overview of the unique 3 Round-Robin Tests on Rheology of Concrete in 2001 (Nantes), 2003 (Cleveland) and 2018 (Bethune)</i>
09:30 – 10:00	<b>D. Feys</b> <i>Why is concrete rheology, or fresh concrete in general, so complicated?</i>
10:00 – 10:30	<b>F. Faber</b> <i>Use of rheological measurement in industrial context: analysis, data sharing, problem solving in concrete production and placing</i>
10:30 – 11:00	<b>Tea/Coffee break</b>
11:00 – 11:30	<b>B. Cazaciu</b> <i>Online control of concrete production</i>
11:30 – 12:00	<b>H. Keller</b> <i>Evaluation of rheological parameters from RRT data</i>
12:00 – 12:30	<b>A. Perrot – S. Amziane – K. Khayat</b> <i>Evaluation of structural build-up rate from RRT data</i>
12:30 – 14:00	<b>Lunch</b>
14:00 – 14:30	<b>L. Libessart – C. Djelal – Y. Vanhove</b> <i>Influence of concretes thixotropy on the tribological properties</i>
14:30 – 15:00	<b>S. Fataei</b> <i>Numerical simulation of the concrete pumping process</i>
15:00 – 15:30	<b>Tea/Coffee break</b>
15:30 – 16:00	<b>M. Greim</b> <i>Rheometers for Paste, Mortar and Concrete: Measurement Technology - Possibilities, Challenges and Limits</i>
16:00 – 16:30	<b>K. Khayat</b> <i>Rheological properties of Ultra-High-Performance concrete</i>
16:30 – 17:00	<b>Y. Vanhove – C. Djelal</b> <i>Rheological properties of concrete foundation</i>
17:00 – 18:30	<b>RRT meeting – RILEM Committee MRP-266</b> <i>M. Sonebi &amp; D. Feys</i>
18:30	<b>End of the day</b>



## Access to the FNTP (Paris, France)

### Location

#### Fédération Nationale des Travaux Publics

3, rue de Berri - 75008 Paris  
Tel : +33 (0)1 44 13 31 44

Métro George V • Parking  
Champs-Elysées



## Registration

Registration is open until 31 October 2019. Registration fees include participation to the one-day feedback, the welcome pack, the abstract booklet, coffee breaks and lunch. Payment must be made by credit card on the dedicated platform:

<https://evenements.univ-artois.fr/e/93/journee-de-restitution-round-robin-test>

### Fees

- Full : 100 euros VAT
- Student : 50 euros VAT (only for Master and PhD students)



## Round Robin Test on rheology

Round Robin test on rheology – RILEM TC-266  
28-29 May 2018 – Bethune, France

