

IRWRMC'2018

International RILEM Workshop on Rheological Measurements of Cement-based Materials



May 30 - 31, 2018
Université d'Artois, Arras



PROGRAM OVERVIEW

WEDNESDAY, 30 May 2018

17:00 **Venue: University of Artois, Arras,
UFR Langues Etrangères, Hall**

20:00 **Gala dinner:**
Restaurant *Le Pré Fleuri*
38 Route de Lens
62223 Saint Catherine Les Arras

A bus will be ensured between the University of Artois and the restaurant and Participants of the Round Robin Test will arrive directly by bus at the Restaurant

THURSDAY, 31 May 2018 - International Workshop

8:30 - 9:00 **Venue: University of Artois, UFR Langues Etrangères
Auditorium 'Verlaine'**

9:00 - 9:30 **Opening ceremony**

Welcome speech : Chair Persons: **Pr. C. Djelal – Pr. Y. Vanhove**

Opening Speech : **Pr. P. Mammone**, President of the University of Artois
Pr. M. Sonebi, Board Chairman of the RILEM Committee 266-MRP,
Queen's University of Belfast

Keynote reports

09:30-10:00 Influencing Factors and Models to Predict Form Pressure Exerted by SCC
K.H. Khayat

10:00-10:30 DFG Priority Program SPP 2005 OPUS FLUIDUM FUTURUM – Rheology of reactive, multiscale, multiphase construction materials
V. Mechtcherine

10:30-10:50 **Tea/Coffee Break**



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SESSION ONE

Challenges and recommendations on measuring rheological properties of cement-based materials

University of Artois, UFR Langues Etrangères, Auditorium Verlaine

Chair: F. Fabbris & D. Feys

- 10:50-11:20 Evaluation of mortar mixing procedures using squeeze flow test
F. Cardoso
- 11:20-11:50 Characterization of rheological properties of SCC with loss of workability – Approach with two rheometers : ICAR and RheoCAD
E. Agnaou
- 11:50-12:20 Rheological measurement on concrete: constitutive models, industrial applications, building techniques issues
F. Fabbris
- 12:20-13:30 Lunch (EGASS building, Room S3)**
- 13:30-14:00 Segregation of cement grouts during their rheological measurements
B.T. Pham
- 14:00-14:30 Image processing of shear flow in a vane rheometer for clay mineral suspensions
A. Pierre
- 14:30-15:00 Assessment of the sedimentation stability of fresh concrete
J. Neumann
- 15:00-15:30 Rheometry of Cement-based materials
J. Sabathier
- 15:30-15:50 Tea/Coffee break**
- 15:50-16:20 The Effect of Shear Rate on Rheological Properties of Cement Paste
D. Feys
- 16:20-16:30 Closing ceremony
C. Djelal and Y. Vanhove



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SESSION TWO

New tools and procedures to measure rheological properties

University of Artois, UFR Langues Etrangères, Room LV3

Chair: Pr. K.H. Khayat & S. Darson

- 10:50-11:20 FlowCyl: one-parameter cement paste rheology test developed at NTNU
R. Cepuritis
- 11:20-11:50 eFlow - A Pocket Concrete Rheometer
F. Toussaint
- 11:50-12:20 Digital fabrication of concrete : it is time to define the rheology 3D printing
M. Sonebi
- 12:20-13:30 Lunch (EGASS building, Room S3)**
- 13:30-14:00 New tests for Tremie Concrete : EFFC/DFI/FNTP works
S. Darson
- 14:00-14:30 Use of computational software to determine rheological properties of high resistance Portland cement pastes
L. Agostinho

SESSION THREE

Application on rheological properties in practical situations

University of Artois, UFR Langues Etrangères, Room LV1

Chairs: Pr. V. Mechtcherine

- 10:50-11:20 A rheological study of mortars based on geopolymer binder : effect of the formulation parameter
E. Ghorbel
- 11:20-11:50 Rheological behavior of concrete foundation during Pile-driving operations
Y. Vanhove
- 11:50-12:20 Rheological characterization of Pre-packaged grouts for posttensioning applications
K. Mohan Manu



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SESSION FOUR

Measurement and application of non-conventional rheological properties

University of Artois, UFR Langues Etrangères, Room LV1

Chairs: **T. Proske**

- 13:30-14:00 Recommendations on the formulation of concrete foundation for the diaphragm walls – Application to building site of grand Paris
A. Azzi
- 14:00-14:30 Shear Behavior of Fresh Concrete under variable Pressure – Development of a specific Testing Device
T. Proske
- 14:30-15:00 A new material tester - The concrete tribometer
M. Fajfrowski
- 15:00-15:30 Emulsions effects on the friction on the formwork/concrete interface
L. Libessart

POSTER SESSION

University of Artois, EGASS building, Room S3

RILEM Committee MRP-266

Room LV1

17:00-18:30

Pr. M. Sonebi & D. Feys

