



ISSMGE TC 211 GROUND IMPROVEMENT NEWSLETTER n°6, June 2013

Dear Reader,

We took some rest after the very successful IS-GI Symposium and Short Courses in Brussels last year.

In this newsletter we provide some information concerning the activities of TC 211 at the occasion of the International Conference of ISSMGE in Paris from 2 to 6 September 2013, namely:

- *Short Course on Compensation Grouting and Jet Grouting on **Sunday 1 September**,*
- *The Technical Session on Ground Improvement on **Thursday 5 September**,*
- *The TC 211 Workshop on **Thursday 5 September**.*

1 Short Courses on Compensation Grouting and Jet Grouting:

At the beginning of this year, we received a proposal from Bob Essler, member of TC211, to organize an event on Jet Grouting.

Given the great success of the Short Courses at the IS-GI Brussels 2012 Symposium the decision was taken to organize an additional Short Course – SC4 and to include the topic of Compensation Grouting to the program.

The program of the Short Course on Compensation Grouting and Jet Grouting is given on the next page with the practical information (place and date).

The registration form is available at the end of this newsletter.

The deadline for the registration is August 10, 2013



SHORT COURSE 4 – COMPENSTATION GROUTING AND JET GROUTING

Date: Sunday 1 September 2013

Place: Terrasol, Immeuble Central Seine 42-52 Quai de la Râpée, Paris, France

Coordinators:

R. Essler, RD Geotech Ltd., UK

J. Maertens, Jan Maertens bvba, Belgium

PROGRAMME

SC4 - COMPENSATION GROUTING

- 09h30 – 10h15 : Design of Compensation grouting for TBMs,
R. Essler, RD Geotech Ltd, United Kingdom
- 10h15 – 11h00 : Design of compensation grouting for Sprayed Concrete tunnels,
T. O'Brien, Mott Mc Donald, United Kingdom
- 11h00 – 11h15 : Coffee Break
- 11h15 – 11h45 : Experience from CrossRail project in UK,
M. Black, Crossrail, United Kingdom
- 11h45 – 12h15 : Shumann Josaphat Project in Brussels,
Y. Stevens, Denys, Belgium
- 12h15 – 12h45 : Monitoring during compensation grouting,
J.P. Hamelin, Sol-Data, France
- 12h45 – 13h00 : Discussion
- 13h00 – 14h30 : Lunch

SC4 - JET GROUTING

- 14h30 – 15h00 : Probability analysis to determine jet grout cut off design,
R. Essler, RD Geotech Ltd, United Kingdom
- 15h00 – 15h30 : Horizontal Jet Grouting Design and Practice in Japan,
Tustomu Tsuchiya, Japan
- 15h30 – 16h00 : Design of jet grout base plugs and strength of jet grout elements,
W. Sondermann, Keller Grundbau, Germany
- 16h00 – 16h15 : Coffee break
- 16h15 – 16h45 : European Research program on jet grouting,
A. Flora, Università di Napoli Federico II, Italy
- 16h45 – 17h15 : Sandwich wall beneath Amsterdam Central Station,
O. Langhorst, Movares, The Netherlands
- 17h15 – 17h45 : Quality assurance of jet grouting,
B. Lecomte, Solétanche-Bachy, France
- 17h45 – 18h00 : Discussion
- 18h00 : Reception



TC 211

2 Sponsoring:

2.1 Platinum sponsors

2



2.2 Gold sponsors



2.3 Silver sponsors





3 ICSMGE - Technical Session on Ground Improvement on Thursday 5 September:

Venue: Blue Amphitheater

Time: From 9h00 till 10h30

Organized under the auspices of the ISSMGE and within the framework of the 18th ICSMGE, the Discussion Session TC211 will be held on Thursday 5 September from 9h00 till 10h30 in the Blue Amphitheater of the Paris Conference Center.

The program first consists in the presentation by Noël Huybrechts of the General Report co-written with Nicolas Denies. This General Report highlights the significant contributions of the papers of the Session of the XVIII ICSMGE dedicated to Ground Improvement.

This presentation will be followed by 6 presentations of selected papers:

- *Large-scale Piled Raft with Grid-Form Deep Mixing Walls on Soft Ground, presented by K. Yamashita*
- *Improvement of soft fat clay using rigid inclusions and vertical drains, presented by J.F. Kirstein*
- *Initial investigation into carbonated MgO for soil stabilization, presented by A. Al-Tabbaa*
- *Prediction of the unconfined compressive strength in soft soil chemically stabilized, presented by A.A.S. Correia*
- *Standardization of the molding procedures for stabilized soil specimens as used for QC/QA in Deep Mixing application, presented by M. Grisolia*
- *Performance and Prediction of Vacuum Consolidation Behaviour at Port of Brisbane, presented by B. Indraratna*



4 Workshop on Ground Improvement on Thursday 5 September:

Venue: Room 252A

Time: 11h00 till 12h30

The Workshop of the TC 211 titled “*Report from IS-GI Brussels 2012 & latest advances in Ground Improvement*” will be held on Thursday 5 September from 11h00 till 12h30 in the Room 252A of the Paris Conference Center.

During this Workshop the additional Volume V of the proceedings of the TC 211 IS-GI Brussels 2012 symposium will be presented. It consists in the summaries of the 3 parallel short courses held during this symposium.

The program of the Workshop is organized as follows:

- Introduction by the TC 211 Chairmen, *S. Varaksin & J. Maertens (10 min.)*
- Presentation of the three summaries:
 - Marine Ground Improvement, *Fanny Maucotel (Ménard, France) & Bert Lietaert (Deme, Belgium) (25 minutes)*
 - Deep Mixing, *Nicolas Denies (BBRI, Belgium) & Gust Van Lysebette (BBRI, Belgium) (25 minutes)*
 - Rigid Inclusions & reinforced soil, *Jan Verstralen (Tuc Rail, Belgium) & Fahd Caira (Terrasol, France) (25 minutes)*
- Conclusions (5 minutes)



5 Webinar on Ground Improvement:

In March 2013, an ISSMGE webinar titled “*Concept and Parameters, Latest Research in Ground Improvement Illustrated by Related Case Histories*” has been given by Serge Varaksin and Noel Huybrechts. This webinar is available on the following link:

<http://www.issmge.org/en/resources/recorded-webinars/592-concept-and-parameters-latest-research-in-ground-improvement-illustrated-by-related-case-histories>

6 Other TC 211 related events:

DFI & EFFC organize the International Conference on Piling & Deep Foundations, Stockholm, 21-23 May 2014. Noël Huybrechts, Secretary of TC 211, will co-chair the session on Deep Mixing. More information is available on www.dfi-effc2014.org

7 Website

Please note that the former website address of TC211 is not active for the moment. The website is now available via the following address : www.tc211.be



TC 211

REGISTRATION FORM

Short Course on COMPENSATION & JET GROUTING

Sunday 1 September, Terrasol, Immeuble Central Seine 42-53 Quai de la Rapée, Paris, France

- DEADLINE TO REGISTER : AUGUST 10, 2013 -

To be returned to :

Mrs Carine Godard, avenue P. Holoffe, 21B-1342 LIMELETTE, Belgium

By fax: +32 (0) 2 653 07 29 or by e-mail : carine.godard@bbri.be

Mrs/Ms/Mr _____ Family Name: _____ First Name: _____

Organisation/Company: _____

Department: _____

Function: _____

Mailing Address: _____

Postal code: _____ City: _____ Country: _____

Tel.: _____ Fax: _____ E-mail: _____

<input type="checkbox"/> Short Courses 4 : Compensation grouting and jet grouting		
<input type="checkbox"/> ISSMGE member	200,00	
<input type="checkbox"/> Non member	250,00	
<input type="checkbox"/> MSc and PhD Students	120,00	

METHODS OF PAYMENT

I hereby forward the amount* of € (Reference 'SC4 - Paris 2013 – "Name of the participant"')

- By bank transfer, payable to Belgian Society of ISSMGE : BNP Paribas Fortis , Agence Riva-Bella, av. Brassinne, 14-16, B 1420 Braine-l'Alleud, BELGIUM : **IBAN BE73 0013 9895 9460**
BIC/SWIFT GEBABE BB

**Bank charges or to be added to the amount*

- By credit card: Visa Eurocard-mastercard American express

I hereby authorize the Belgian Society of ISSMGE to charge _____ EUR to my credit card for registration

Credit card number :	Expiration date :
Full name of cardholder as it appears on the card :	
Date:	Cardholder's signature :