

Registration Form

Please fill out the form completely and send it to: spg@lnec.pt

First name:

Middle initial:

Last name:

Affiliation and address to send the invoice:

NIF/VAT number:

Phone:

Fax:

Email:

Payment

Check (only for Portugal)

Check number:

Name of bank:

In the amount of: € payable to "Sociedade Portuguesa de Geotecnia"

Bank Transfer (free of charge)

Bank: Barclays

NIB: 0032 0123 00201519764 42

IBAN: PT50 0032 0123 0020 1519 7644 2

Swift code of the Bank: BARCPTPL

Account Number: 123201519764

Total Amount €

Please note that the bank transfer payment shall be "free of any charges for the recipient". Any charges that arise shall be borne by the sender.



Organizing committee

Laura Caldeira (LNEC/SPG)

A. Gomes Correia (UM)

M. Gonçalves da Silva (FCT/UNL)

E. Maranha das Neves (IST)

João Marcelino (LNEC)

Venue

LNEC's Congress Center

Dates

23rd and 24th of September, 2008

Secretariat

Dra Catarina Luís

SPG, a/c LNEC

Av. do Brasil 101

1700-066 Lisboa

PORTUGAL

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email: spg@lnec.pt

Registration fees

€ 50 students

€ 300 for SPG members

€ 350 otherwise

INTERNATIONAL SEMINAR

on

Interaction soil-rail track for high speed railways

Geotechnical aspects



LNEC • LISBON • PORTUGAL
23rd – 24th of September 2008

Program

23rd of September

9h15m - 9h30m **Opening ceremony**
MOPTC, RAVE/REFER, LNEC, UM, UNL, IST, SPG

SESSION 1: HIGH-SPEED RAILWAY NETWORK DEVELOPMENT AND DEMANDS
President: A. Gomes Correia (UM)

9h30m - 10h00m **Portuguese high-speed railway network development**
Luis Marques (RAVE)

10h00m - 11h00m **High speed railways: track system performance**
Keynote lecture William Powrie (U. Southampton)

11h00m - 11h30m Coffee Break

SESSION 2a: INOVATION IN EMBANKMENT CONSTRUCTION
President: João Marcelino (LNEC)

Discussion Leader: William Powrie (U. Southampton)

11h30m - 12h00m **Solutions for embankment-bridge transition zones**
Ivo Seara & A. Gomes Correia (UM)

12h00m - 12h30m **Soil and rock mixtures: constructive techniques and quality control**
Andrea Brito & Laura Caldeira (LNEC)

12h30m - 13h00m **Artificial intelligence applied to compaction rules and management**
Paulo Cortez, R. Marques & A. Gomes Correia (UM)

13h00m - 14h30m Lunch

SESSION 2b: INOVATION IN EMBANKMENT CONSTRUCTION
President: Jesús Manzanás (CEDEX)

Discussion Leader: João Delgado (REFER)

14h30m - 15h00m **New control quality construction tools: performance related tests**
A. Gomes Correia & J.P. Martins (UM)

15h00m - 15h30m **Contributions for standardisation of plate loading test**
J. Paulo Martins & A. Gomes Correia (UM)

15h30m - 16h00m **Contributions for earthwork specifications**
Laura Caldeira (LNEC) & A. Gomes Correia (UM)

16h00m - 16h30m Coffee Break

SESSION 3: ADVANCED LABORATORY, FIELD AND PHYSICAL TOOLS
President: Laura Caldeira (LNEC)

Discussion Leader: G. Degrande (K.U. Leuven)

16h30m - 17h00m **Accelerated railtrack test facility at Cedex**
J. Manzanás & V. Cuellar (CEDEX)

17h00m - 17h30m **Centrifuge dynamic related studies**
Luc Thorel (LCPC)

17h30m - 18h00m **Advanced triaxial technologies and modelling parameters**
A. Gomes Correia & Nuno Araújo (UM)

18h00m - 18h30m **Application of the SASW method for the determination of stiffness and damping parameters of soils**
M. Schevenels, S.A. Badsar & G. Degrande (K.U. Leuven)

18h30m - 19h00m Discussion

24th of September

SESSION 4: MODELLING OF RAILTRACK
President: Paul Holscher (Deltares)

Discussion Leader: M. Gonçalves da Silva (UNL)

09h00m - 10h00m **Numerical modelling of high speed train induced vibrations**
Keynote lecture: G. Degrande & G. Lombaert (K.U. Leuven)

10h00m - 10h30m **Factors that influence track-soil critical velocities**
J.N. Varandas (UNL)

10h30m - 11h00m **Coupling stiffness-damping in modelling high-speed train track-embankment**
J. Cunha & A. Gomes Correia (UM)

11h00m - 11h30m Coffee Break

11h30m - 12h00m **Simplified approach for 2D analysis of high-speed train-track**
J. Marcelino & J. Manso (LNEC)

12h00m - 12h30m **Modelling of embankments with soft rock materials**
E. Maranhã das Neves & Rafaela Cardoso (IST)

12h30m - 13h00m **Three-dimensional modelling of railway substructure considering non-linear behaviour of granular materials**
Eduardo Fortunato & Ricardo Resende (LNEC)

13h00m - 14h30m Lunch

14h30m - 15h00m **Modelling of transitions zones**
Paul Holscher (Deltares)

15h00m - 15h30m **Three-dimensional finite element analysis model of high-speed train-track**
J.N. Varandas (UNL), J. Marcelino (LNEC) & A.N. Antão (UNL)

15h30m - 16h00m **Risk management for high-speed railway systems**
Laura Caldeira (LNEC) & E. Maranhã das Neves (IST)

16h00m - 16h30m Coffee Break

SESSION 5: LIFE CYCLE COST AND ROUND TABLE
President: E. Maranhã das Neves (IST)

16h30m - 17h00m **Life cycle analysis for railway infrastructures**
L. Neves & M. Gonçalves da Silva (UNL)

17h00m - 18h00m **Round table: "The HST players in Portugal"**
Representative Guests: Carlos Fernandes (RAVE/REFER), Serpa dos Santos (BRISA/Soares da Costa) & others to be confirmed