

XIV ICNEM- PROGRAM

June 01, 2009

Geophysics

08.30-09.30

REGISTRATION (LNEC CONGRESS CENTER - ROOM #2 ENTRANCE)

09.30-12.50

WELCOME AND COMMUNICATION PRESENTATIONS (Room #2)

09.30-10.00

Opening and welcome address

10.00-10.30 Jim TenCate & Donatella Pasqualini

What is slow dynamics anyway?

10.30-11.00

COFFEE BREAK

11.00-11.30 Paul Johnson et al.

Effects of acoustic waves on stick—slip behavior in sheared granular media with implications for earthquake recurrence and dynamic earthquake triggering

11.30-12.00 Yehuda Ben-Zion

Evolving rock damage near large strike-slip faults

12.00-12.30 R. A. Guyer, Carene Larmat & T. J. Ulrich

Trampolines, non-linear frictional coupling and the event at IWTH25, 14 June 2008.

12.30-12.50

Discussion / Buffer time

12.50-14.30

LUNCH AT LNEC

14.30-16.30

COMMUNICATION PRESENTATIONS (Room #2)

14.30-15.00 T. Darling

Water in porous sandstones and carbonates – the source of strain-dependent nonlinearity?

15.00-15.30 Zheqiang Shi, Alan Needleman & Yehuda Ben-Zion

Rupture modes and energy partition during dynamic frictional sliding between identical elastic-viscoplastic solids

15.30-16.00 C.R.Bradley et al.

Rock mechanical and slope stability analysis of the BSL-3 facility undergoing a magnitude 6.7 earthquake on the Pajarito Fault

16.00-16.30 J. Rubinstein

Do different methods of identifying nonlinear strong ground motion tell us the same thing?

16.30-17.00

AFTERNOON COFFEE

June 02

Fluids & Soft Matter

09.30-12.50

COMMUNICATION PRESENTATIONS (Room #2)

09.30-10.00 L. A. Ostrovsky

Acoustic radiation force and its action on particles and bubbles

10.00-10.30 M. Cavaro et al.

Towards nonlinear ultrasonic characterization of air microbubbles in water

10.30-11.00

COFFEE BREAK

11.00-11.30 H. Moreschi et al.

Break nonlinear viscoelastic measurements in fluids using remote dynamical acoustoelasticity testing

11.30-12.00 Wlodzimierz Domanski

Propagation and interaction of nonlinear elastic plane waves in soft solids

12.00-12.30 D. Derome et al.

Nonlinear moisture dependent behavior of wood: a first attempt for in-situ 3D microscopic evaluation

12.30-12.50

Discussion / Buffer time

12.50-14.30

LUNCH AT LNEC

14.30-20.00

TOUR TO THE OUTSKIRTS OF LISBON

June 03

Time reversal

09.30-12.50

COMMUNICATION PRESENTATIONS (Room #2)

09.30-10.00 C.S. Larmat et al.

Time reversal applied to seismology, investigation of different imaging fields for the non-volcanic tremor location and characterization problem

10.00-10.30 Brian E. Anderson et al.

Time reversal of continuous-wave, steady-state signals in elastic media

10.30-11.00

COFFEE BREAK

11.00-11.30 Pierre-Yves Le Bas, T.J. Ulrich & Paul A. Johnson

Use of time reversal in the detection of buried nonlinear features.

11.30-12.00 Alexander Sutin

Nonlinear time reversal acoustics for biomedical applications

12.00-12.30 Els Janssen & Koen Van Den Abeele

Reversed acoustics for surface nonlinear defects

12.30-12.50

Discussion / Buffer time

12.50-14.30

LUNCH AT LNEC

14.30-17.00

COMMUNICATION PRESENTATIONS (Room #2)

14.30-15.00 T.J. Ulrich et al.

Three component timereversal: vector component imaging using nonlinear elasticity

15.00-15.30 M. Griffa, M. Scalerandi & P.A. Johnson

Computational time reversal imaging: addressing the medium mismatch "bottleneck"

15.30-16.00 O. Bou Matar et al.

Nonlinear elastic imaging with a chaotic cavity transducer

16.00-16.30 S. Vejvodova, Z. Prevorovsky & S. Dos Santos

Nonlinear time reversal tomography of structural defects

16.30-17.00

AFTERNOON COFFEE

June 04

NDE1

09.30-12.50

COMMUNICATION PRESENTATIONS (Room #2)

09.30-10.00 Igor Solodov, Daniel Döring & G. Busse

Air-coupled vibrometry for measurements in classical and nonclassical nonlinear acoustics

10.00-10.30 Vladislav Aleshin & Koen Van Den Abeele

Is there physics behind the PM-space?

10.30-11.00

COFFEE BREAK

11.00-11.30 P. Antonaci et al.

Monitoring damage evolution in concrete using the scaling subtraction method

11.30-12.00 Jacques Rivière et al.

Monitoring of bolt tightening using Nonlinear Resonance Ultrasound Spectroscopy (NRUS)

12.00-12.30 Apedovi S. Kodjo et al.

Evaluation of damages due to alkali-silica reactions with nonlinear acoustics techniques

12.30-12.50

Discussion / Buffer time

12.50-14.30

LUNCH AT LNEC

14.30-15.30

COMMUNICATION PRESENTATIONS (Room #2)

14.30-15.00 Vladimir Lyakhovsky et al.

Nonlinear elasticity and scalar damage rheology model

15.00-15.30 A. Novak et al.

Sensitive damage characterization based on nonlinear system identification

15.30-19.30

WALKING TOUR TO THE LISBON CASTLE

19.30

CONGRESSIONAL DINNER IN DOWNTOWN LISBON

June 05

NDE2

09.30-13.00

COMMUNICATION PRESENTATIONS AND CLOSING (Room #2)

09.30-10.00 Guillaume Renaud

Dynamic acoustoelastic testing for non invasive detection of microdamage in long bones

10.00-10.30 V. Garnier & C. Payan

Applying slow dynamic diagnostic to improve in situ damage assessment in concrete structures

10.30-11.00

COFFEE BREAK

11.00-11.30 M. Scalerandi et al.

Elastic conditioning, memory and relaxation In concrete: modeling and experimental results

11.30-12.00 C. Payan et al.

Break potential of nonlinear resonant ultrasound spectroscopy for carbonization depth assessment in concrete.

12.00-13.00

Discussion, conclusions and closing address

13.00-14.30

LUNCH AT LNEC

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