

COLLOQUIUM IN HONOUR OF
E. SANCHEZ-PALENCIA

Final program

Tuesday June 19th, 2007

10h - 10h15 *Welcome*

- 10h15 - 10h50 D. Caillerie (Grenoble)
Theoretical and numerical aspects of the modeling of second grade continuous media.
- 10h50 - 11h25 D. Cioranescu (Paris 6)
The unfolding method for multiscale PDE's: application to sieve problems.
- 11h25 - 12h L. Tartar (Carnegie Mellon, Pittsburgh PA, and Paris 13)
Quelques problèmes d'homogénéisation qui sont liés à des observations curieuses, qui avaient suscité des explications un peu bizarres.

12h - 14h *Lunch*

- 14h - 14h35 E. Sanchez-Palencia (Paris 6)
Singular perturbations and ill-posed problems.
- 14h35 - 15h10 J. Rappaz (Lausanne)
Mathematical modeling and numerical aspects in aluminum production.
- 15h10-15h45 J. Pitkaranta (Helsinki)
Modeling a shell roof with a stiffening ring: How accurate were the models 65 years ago?

15h45 - 16h15 *Coffee break*

- 16h15 - 16h50 J. Diaz (Madrid)
Higher order parabolic potential formulation of stationary shells with some rigid constraints.
- 16h50 - 17h25 T. Apel (Munich)
Anisotropic finite elements for singularly perturbed model problems.
- 17h25 - 18h00 S. Nicaise (Valenciennes)
Boundary layers for transmission problems with singularities.

19h15 *Buffet*

Wednesday June 20th, 2007

● 9h - 9h35 G. Geymonat (Montpellier)
Equations de compatibilité de Saint Venant, formule de Cesàro-Volterra et applications à la cinématique des plaques.

● 9h35 - 10h10 A. Raoult (Paris 5)
Asymptotic modeling of lattices with bar interactions.

● 10h10 - 10h45 G. Panasenko (St Etienne)
Multi-scale modelling of flows in thin pipe-wise structures: applications to the blood circulation problems.

10h45 - 11h15 Coffee break

● 11h15 - 11h50 M. Dauge (Rennes) (coll. S. Tordeux et G. Vial)
Expansions for self similar perturbations near a corner: Matching versus Multiscale.

● 11h50 - 12h25 P. Suquet (Marseille) (coll. N. Lahellec)
Homogenization in linear and nonlinear viscoelasticity.

12h25 - 14h15 Lunch

● 14h15 - 14h50 J.J. Marigo (Paris 6) (coll. R. Abdelmoula)
The effective behaviour of the bridged crack.

● 14h50 - 15h25 O. Millet (La Rochelle)
Computing singular perturbations for shells and adaptive mesh.

● 15h25 - 16h00 D. Leguillon (Paris 6)
A damage model based on singular elastic fields.