

Numerical Methods in Environment and Image Processing

organized by *K. Brenner, D. Hilhorst, P. Zacharovska*

February 4th, 2011

Université de Paris-Sud 11 (Orsay, Bât. 425)

Salle 113-115

Chairperson: *Karol Mikula*

10–10.30: **Robert Eymard**
Gradient scheme approximations for diffusion problems

10.35–11.05: **Olivier Le Maitre**
To be announced

11.05–11.30: *Pause Café*

Chairperson: *Robert Eymard*

11.30–12.00: **Karol Mikula**
*Nonlinear PDEs, their numerical solution and application
in biomedical image analysis*

12.05–12.35: **Angela Handlovicova**
*Finite volume schemes for solving nonlinear
(tensor) diffusion in image processing*

12.35–14.30 : *Déjeuner*

Chairperson: *Olivier Le Maitre*

14.30–15.00: **Pascal Omnès**
*Some aspects of the discrete duality
finite volume method*

15.05–15.35: **Martin Vohralik**
*A framework for robust a posteriori error control
and adaptivity for unsteady nonlinear
convection-diffusion problems*

15.35–16.00: *Pause Thé*

Chairperson: *Martin Vohralik*

16.00–16.30: **Clément Cancès**
To be announced.

16.35–17.05: **Konstantin Brenner**
*A finite volume scheme for flow and transport of
contaminant in porous media*