

Centre de recherches mathématiques
Université de Montréal

Les 5ièmes journées montréalaises de calcul scientifique
Du 30 avril au 2 mai 2008

The 5th Montreal Scientific Computing Days
April 30 - May 2, 2008

HORAIRE / *PROGRAM*

Conférences : salle 1360
Pauses-café : salle 1221

Lectures: Room 1360
Coffee Breaks: Room 1221

Le mercredi 30 avril 2008 / *Wednesday, April 30, 2008*

08:30 - 09:00 Inscription et café croissants (1221) / *Registration and Coffee & Croissants (1221)*

Président / *President* : Michel Delfour, Thomas Wihler

08:50 - 09:00 Mots de bienvenue / *Welcoming addresses*

09:00 - 10:00 **Paul-Louis George** (INRIA Paris - Rocquencourt)

“Development, Analysis and Application of Finite Element Methods for Partial Differential Equations”

10:00 - 10:30 Pause-café / *Coffee break*

(Salle / *Room* 1221)

10:30 - 11:30 **Jaap van der Vegt** (University of Twente)

“Space-Time Discontinuous Galerkin Methods for Compressible Flows”

11:30 - 11:50 **Abderrahman El Maliki** (Université Laval)

“Méthode itérative de type hiérarchique et préconditionnement”

12:10 - 14:10 *Lunch break*

Président / *President* : André Fortin

14:10 - 15:10 **Yousef Saad** (University of Minnesota)

“Iterative Methods for Sparse Matrix Problems”

15:10 - 15:40 Pause-café / *Coffee break*

(Salle / *Room* 1221)

15:40 - 16:00 **David Titley-Peloquin** (McGill University)

“Stopping criteria for the iterative solution of linear least squares problems”

16:00 - 16:20 **Nam Nguyen** (Université Laval)

“Dynamic hedging of portfolios of financial guarantees under jump diffusion condition”

16:40 - 18:00 Cocktail / *Reception*

Le jeudi 1 mai 2008 / *Thursday, May 1, 2008*

08:30 - 09:00 Café croissants (1221) / *Coffee & Croissants (1221)*

Président / *President* : Thomas Wihler

09:00 - 10:00 **Paul-Louis George** (INRIA Paris - Rocquencourt)

“Development, Analysis and Application of Finite Element Methods for Partial Differential Equations, II”

10:00 - 10:30 Pause-café / *Coffee break*

(Salle / *Room* 1221)

10:30 - 11:30 **Jaap van der Vegt** (University of Twente)

“Space-Time Discontinuous Galerkin Methods for Compressible Flows, II”

11:30 - 11:50 **Jamal Hussain Al Smail** (University of Ottawa)

“Two dimensional hydrogen fuel cell: Channel optimal shape design”

12:10 - 14:10 *Lunch break*

Président / *President* : Thomas Wihler

14:10 - 15:10 **Yousef Saad** (University of Minnesota)

“Iterative Methods for Sparse Matrix Problems, II”

15:10 - 15:40 Pause-café / *Coffee break*

(Salle / *Room* 1221)

15:40 - 16:00 **Akram Doukh**

“Use multigrid method for resolution diffusion equation”

16:00 - 16:20 **Waad Subber** (Carleton University)

“Stochastic domain decomposition application to Poisson’s Equation with uncertain input”

Le vendredi 2 mai 2008 / *Friday, May 2, 2008*

08:30 - 09:00 Café croissants (1221) / *Coffee & Croissants (1221)*

Président / *President* : Michel Delfour

09:00 - 10:00 **Paul-Louis George** (INRIA Paris - Rocquencourt)

“Development, Analysis and Application of Finite Element Methods for Partial Differential Equations, III”

10:00 - 10:30 Pause-café / *Coffee break*

(Salle / *Room* 1221)

10:30 - 11:30 **Jaap van der Vegt** (University of Twente)

“Space-Time Discontinuous Galerkin Methods for Compressible Flows, III”

11:30 - 11:50 **Hernceau Pierre Clerge** (Université d'Etat d'Haiti, Haiti (WI))

“à venir”

“TBD”

12:10 - 14:10 *Lunch break*

Président / *President* : Robert Owens

14:10 - 15:10 **Yousef Saad** (University of Minnesota)

“Iterative Methods for Sparse Matrix Problems, III”

15:10 - 15:40 Pause-café / *Coffee break*

(Salle / *Room* 1221)

15:40 - 16:00 Prix étudiants / *Student prizes*