

# **Interaction Fluide-Structure: Analyse et Contrôle**

## **Report of Contributions**

Contribution ID: 29

Type: **not specified**

## **Stabilization of the water-waves equations**

*Thursday, October 5, 2017 11:30 AM (1 hour)*

**Presenter:** Mr ALAZARD, Thomas (ENS Paris-Saclay, France)

**Session Classification:** Matin 05/10/17

Contribution ID: **30**

Type: **not specified**

## **Tailoring the tails in Taylor dispersion**

*Tuesday, October 3, 2017 4:30 PM (1 hour)*

**Presenter:** Mr CAMASSA, Roberto (UNC Carolina Center for Interdisciplinary Applied Mathematics, USA)

**Session Classification:** Après-midi 03/10/17

Contribution ID: 31

Type: **not specified**

## High frequency analysis of Prandtl models

*Thursday, October 5, 2017 10:30 AM (1 hour)*

**Presenter:** Mr MARBACH, Frédéric (Université Pierre et Marie Curie, Paris, France)

**Session Classification:** Matin 05/10/17

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TBA

Contribution ID: 32

Type: **not specified**

**TBA**

*Thursday, October 5, 2017 9:00 AM (1 hour)*

TBA

**Presenter:** Mr DESIMONE, Antonio (Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italie)

**Session Classification:** Matin 05/10/17

Contribution ID: 33

Type: **not specified**

## **Stability of rigid bodies with a cavity filled by a viscous liquid**

*Monday, October 2, 2017 2:00 PM (1 hour)*

**Presenter:** Mrs DISSER, Karoline (Weierstrass Institute, Berlin, Allemagne)

**Session Classification:** Après-midi 02/10/17

Contribution ID: 34

Type: **not specified**

# **Open loop stabilization of incompressible Navier–Stokes equations in a 2d channel using power series expansion**

*Wednesday, October 4, 2017 10:00 AM (1 hour)*

**Presenter:** Mr ERVEDOZA, Sylvain (Université Paul Sabatier, Toulouse, France)

**Session Classification:** Matin 04/10/17

Contribution ID: 35

Type: **not specified**

## **Magnetic Propel Artificial Microswimmers**

*Tuesday, October 3, 2017 10:30 AM (1 hour)*

**Presenter:** Mrs GIRALDI, Laetitia (INRIA Sophia Antipolis, France)

**Session Classification:** Matin 03/10/17

Contribution ID: 36

Type: **not specified**

## **Well-posedness of a fluid-elastic structure system**

*Monday, October 2, 2017 4:30 PM (1 hour)*

**Presenter:** Mr GUERRERO, Sergio (Université Pierre et Marie Curie, Paris, France)

**Session Classification:** Après-midi 02/10/17

Contribution ID: 37

Type: **not specified**

# **Global Existence of Weak Solutions for Compressible Navier–Stokes Equations: Thermodynamically unstable pressure and anisotropic viscous stress tensor**

*Tuesday, October 3, 2017 2:00 PM (1 hour)*

**Presenter:** Mr JABIN, Pierre-Emmanuel (UMD Center for Scientific Computation And Mathematical Modeling, USA)

**Session Classification:** Après-midi 03/10/17

Contribution ID: **38**

Type: **not specified**

## **The global existence of a fluid-structure system with small data**

*Tuesday, October 3, 2017 9:00 AM (1 hour)*

**Presenter:** Mr KUKAVICA, Igor (University of Southern California, USA)

**Session Classification:** *Matin* 03/10/17

Contribution ID: 39

Type: **not specified**

## **Vanishing viscosity and rugosity limit**

*Monday, October 2, 2017 3:00 PM (1 hour)*

**Presenter:** Mr LACAVE, Christophe (Institut Fourier, Grenoble, France)

**Session Classification:** Après-midi 02/10/17

Contribution ID: 40

Type: **not specified**

## **Lubrication forces in numerical simulations**

*Tuesday, October 3, 2017 11:30 AM (1 hour)*

**Presenter:** Mrs LEFEBVRE, Aline (Ecole Polytechnique, Paris, France)

**Session Classification:** Matin 03/10/17

Contribution ID: 41

Type: **not specified**

## **The Vlasov–Navier–Stokes system in a 2D box**

*Wednesday, October 4, 2017 11:00 AM (1 hour)*

**Presenter:** Mr HAN-KWAN, Daniel (Ecole Polytechnique, Paris, France)

**Session Classification:** Matin 04/10/17

Contribution ID: 42

Type: **not specified**

## **Transport of congestion in two-phase compressible/incompressible flow**

*Tuesday, October 3, 2017 3:00 PM (1 hour)*

**Presenter:** Mrs ZATORSKA, Ewelina (University College London, Royaume-Uni)

**Session Classification:** Après-midi 03/10/17

Contribution ID: 56

Type: **not specified**

## **A particular wave structure interaction problem for the water-waves equation**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr BENYO, Krisztian (Institut de Mathématiques de Bordeaux)

**Session Classification:** Session poster

Contribution ID: 57

Type: **not specified**

## **Maximal regularity to the Stokes problem with Navier-type boundary conditions**

*Tuesday, October 3, 2017 5:30 PM (20 minutes)*

**Author:** Mr AL BABA, Hind (Czech Academy of Sciences; Prague)

**Session Classification:** Session poster

Contribution ID: 58

Type: **not specified**

## **Modeling a fluid-particle system with colloidal interactions**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mrs BATTEAUX, Léa (Université des Antilles; Point-à-Pitre)

**Session Classification:** Session poster

Contribution ID: 59

Type: **not specified**

## **Method of singular mass matrix and singular perturbation problem**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr BERKANE, Ali (Badji-Mokhtar University; Annaba)

**Session Classification:** Session poster

Contribution ID: 60

Type: **not specified**

## **Optimal control of the singular stochastic (random) Problem**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr CHAFIA, Laouar (Laboratoire Rapheil Salam; Rouen)

**Session Classification:** Session poster

Contribution ID: **61**

Type: **not specified**

## **Stabilization of a fluid-structure system**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr DELAY, Guillaume (Institut de Mathématiques de Toulouse)

**Session Classification:** Session poster

Contribution ID: 62

Type: **not specified**

## **Feedback stabilization of a non-homogeneous Navier-Stokes equation in a 2d channel**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr MITRA, Sourav (Institut de Mathématiques de Toulouse)

**Session Classification:** Session poster

Contribution ID: 63

Type: **not specified**

## **Mathematic and Numerical modeling of Biogas production for valorizing domestic waste in Morocco**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr MOHCINE, Abdeslam (Université de Mohammed V; Rabat)

**Session Classification:** Session poster

Contribution ID: 64

Type: **not specified**

## **Feedback stabilization of a two-dimensional fluid-structure interaction system**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr NDIAYE, Moctar (Institut de Mathématiques de Toulouse)

**Session Classification:** Session poster

Contribution ID: 65

Type: **not specified**

## **Existence of a weak solution for a Viscoplastic Fluid-Solid system**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr OBANDO, Benjamin (Université de Lorraine, Nancy)

**Session Classification:** Session poster

Contribution ID: **66**

Type: **not specified**

## **Simulations of ship hull performance in head seas**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mrs OUARGLI, Hassiba (USTO; Oran)

**Session Classification:** Session poster

Contribution ID: 67

Type: **not specified**

## **Local Null Controllability of a rigid body moving into a Boussinesq flow**

*Tuesday, October 3, 2017 5:30 PM (1h 30m)*

**Author:** Mr ROY, Arnab (TIFR CAM; Bangalore)

**Session Classification:** Session poster

Contribution ID: 68

Type: **not specified**

## **Enlarged observability for parabolic semilinear system**

*Tuesday, October 3, 2017 5:30 PM (20 minutes)*

**Author:** Mrs ZOUITEN, Hassiba (Moulay Ismail University; Meknes)

**Session Classification:** Session poster