

## Oral Communications List

### Invited Conferences :

#### International

- [4] Reduction of the area of real contact under shear and the value of static friction  
J. Scheibert, R. Sahli, G. Pallares, C. Ducottet, I. Ben Ali, S. Al Akhrass  
*3<sup>rd</sup> EarthFlow seminar, Oslo, Norway, 16/06/2017*
- [3] Shear rupture of multicontact interfaces: experiments and models  
J. Scheibert, R. Sahli, J.K. Trømborg, A. Malthe-Sørensen, K. Thøgersen, H.A. Sveinsson, G. Pallares  
*International Conference of Tribology, Tokyo, Japan, 16-20/09/2015*
- [2] The onset of sliding: numerical and experimental aspects  
J. Scheibert, J.K. Trømborg, K. Thøgersen, H.A. Sveinsson, A. Malthe-Sørensen, R. Sahli, G. Pallares  
*International Meeting on Friction - from atomic to geophysical scales, Tokyo, Japan, 14-15/09/2015*
- [1] Microcracks in fast materials failure  
J. Scheibert, C. Guerra, D. Bonamy, D. Dalmas, C. Hawkins, A. Malthe-Sørensen  
*25<sup>th</sup> Kongsberg Seminar, Kongsberg, Norway, 05/2012*

#### National

- [1] Probing the micromechanics of a multicontact interface at the onset of frictional sliding  
A. Prevost, J. Scheibert, G. Debrégeas  
*Rencontres DYSCO 2014, Les 2 Alpes, France, 03/2014*

### International Conferences :

- [24] Effect of Contact Area Reduction Under Shear on Static Friction  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*Gordon Research Seminar on Tribology, Lewiston, USA, 25-26/06/2016*
- [23] Reduction of real contact area under shear and the value of static friction  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*17<sup>th</sup> Nordic Symposium on Tribology NordTrib 2016, Aulanko, Finland, 14-17/06/2016*
- [22] Controlling rubber friction: effect of the coating thickness  
G. Pallares, R. Sahli, J. Scheibert, I. Ben Ali, S. Al Akhrass  
*17<sup>th</sup> Nordic Symposium on Tribology NordTrib 2016, Aulanko, Finland, 14-17/06/2016*
- [21] Vitesse de Rupture d'Interfaces Frottantes: Résultats Numériques

- J. Scheibert, J.K. Trømborg, K. Thøgersen, H.A. Sveinsson, A. Malthe-Sørensen  
*Journées Internationales Francophones de Tribologie, Saint-Etienne, France, 27-29/04/2016*
- [20] Reduction of real contact area under shear and the value of static friction  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*Journées Internationales Francophones de Tribologie, Saint-Etienne, France, 27-29/04/2016*
- [19] Sliding of an elastomeric/glass contact: optical study of true contact area  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*International Conference of Tribology, Tokyo, Japan, 16-20/09/2015*
- [18] Controlling the friction properties of rubber-sphere on rubber-coated-plane contacts: effect of the coating thickness  
G. Pallares, R. Sahli, I. Ben Ali, S. Al Akhrass, J. Scheibert  
*International Conference of Tribology, Tokyo, Japan, 16-20/09/2015*
- [17] Roughness-induced jumping dynamics of a high velocity sliding mass under gravitational field  
C. Zouabi, J. Scheibert, J. Perret-Liaudet  
*International Conference of Tribology, Tokyo, Japan, 16-20/09/2015*
- [16] Sliding of an elastomeric/glass contact: optical study of the true contact area  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*42<sup>nd</sup> Leeds-Lyon symposium on tribology, Ecully, France, 7-9/09/2015*
- [15] Probing the micromechanics of a multicontact interface at the onset of frictional sliding  
A. Prevost, J. Scheibert, G. Debrégeas  
*Tribo-Lyon 2013, Villeurbanne, France, 09/2013*
- [14] Probing the micromechanics of a multicontact interface at the onset of frictional sliding  
A. Prevost, J. Scheibert, G. Debrégeas  
*25<sup>èmes</sup> Journées Internationales Francophones de Tribologie, Ecully, France, 05/2013*
- [13] Probing the micromechanics of a multicontact interface at the onset of frictional sliding  
A. Prevost, J. Scheibert, G. Debrégeas  
*Materials Deformation: Fluctuations, Scaling, Predictability, Winter School, Les Houches, France, 02/2013*
- [12] Understanding fast macroscale fracture from *post mortem* microcrack patterns  
C. Guerra, J. Scheibert, D. Bonamy, D. Dalmas  
*Materials Deformation: Fluctuations, Scaling, Predictability, Winter School, Les Houches, France, 01/2012*

- [11] Brittle/quasi-brittle transition in dynamic fracture: energetic and fractographic signatures  
J. Scheibert, C. Guerra, F. Célarié, D. Dalmas, D. Bonamy  
*European Conference on Fracture, Dresden, Germany, 08/2010*
- [10] Brittle/quasi-brittle transition in dynamic fracture: An energetic signature  
J. Scheibert, C. Guerra, D. Dalmas, D. Bonamy  
*International Conference on Experimental Mechanics, Poitiers, France, 07/2010*
- [9] Morphological aspects and deterministic reconstruction of dynamical fracture surfaces in brittle materials  
D. Dalmas, C. Guerra, J. Scheibert, D. Bonamy  
*International Conference on Experimental Mechanics, Poitiers, France, 07/2010*
- [8] The role of skin topography in tactile transduction of fine textures  
J. Scheibert, A. Prevost, G. Debrégeas  
*International Conference on Experimental Mechanics, Poitiers, France, 07/2010*
- [7] Local contact stress measurements at a rough elastomeric layer  
J. Scheibert, E. Katzav, M. Adda-Bedia, A. Prevost, G. Debrégeas, J. Frelat  
*International Conference on Experimental Mechanics, Poitiers, France, 07/2010*
- [6] A new critical velocity in the dynamic fracture of brittle amorphous materials  
J. Scheibert, C. Guerra, F. Célarié, D. Dalmas, D. Bonamy  
*International Conference on Fracture, Ottawa, Canada, 07/2009*
- [5] Morphological Aspects on the Dynamic Fracture Surfaces in Brittle Materials  
C. Guerra, J. Scheibert, F. Célarié, D. Dalmas, D. Bonamy  
*International Conference on Fracture, Ottawa, Canada, 07/2009*
- [4] Dynamic fracture: how brittle are brittle amorphous materials?  
J. Scheibert, C. Guerra, F. Célarié, D. Dalmas, D. Bonamy  
*International Conference on Complex Systems and Applications, Le Havre, France, 07/2009*
- [3] Dynamic fracture in Plexiglas: relation between morphology, velocities and acoustic emission  
C. Guerra, F. Célarié, J. Scheibert, M. Hinojosa, U. Ortiz, D. Dalmas, D. Bonamy  
*Interquadriennial Conf. of the International Congress on Fracture, Bangalore, India, 08/2008*
- [2] Local contact stress measurements at a rough interface  
J. Scheibert, A. Prevost, E. Katzav, M. Adda-Bedia, G. Debrégeas  
*APS March Meeting 2008, New-Orleans, USA, 03/2008*
- [1] Optical measurements of pressure and displacement at a rough interface  
A. Prevost, J. Scheibert, G. Debrégeas  
*APS March Meeting 2008, New-Orleans, USA, 03/2008*

### **National Conferences :**

- [12] Study of the true contact area of sheared elastomer/glass contacts using an optical method  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*

- [11] Étude dynamique du glissement du contact rugueux sec faiblement chargé  
N. Ponthus, C. Zouabi, J. Perret-Liaudet, J. Scheibert  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*
- [10] Effect of coating thickness on the friction properties of rubber-sphere on rubber-coated-plane contacts  
G. Pallares, R. Sahli, I. Ben Ali, S. Al Akhrass, J. Scheibert  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*
- [9] Stochastic vibrations induced by roughness under steady sliding conditions  
C. Zouabi, J. Scheibert, J. Perret-Liaudet  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*
- [8] Sliding precursors and static friction at heterogeneous interfaces  
J. Scheibert, J.K. Trømborg, K. Thøgersen, D.S. Amundsen, A. Malthe-Sørensen  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*
- [7] Numerical modelling of the onset of sliding  
J. Scheibert, J.K. Trømborg, K. Thøgersen, H.A. Sveinsson, A. Malthe-Sørensen  
*Congrès Français de Mécanique 2015, Lyon, France (24-28/08/2015)*
- [6] Micromécanique de mise en glissement d'une interface multi-contact  
A. Prevost, J. Scheibert, G. Debrégeas  
*Congrès Français de Mécanique 2013, Bordeaux, France (26-30/08/2013)*
- [5] Understanding fast macroscale fracture from *post mortem* microcrack patterns  
C. Guerra, J. Scheibert, D. Bonamy, D. Dalmas  
[DEPOS24](#), Ecully, France (5-7/09/2012)
- [4] Transition from static to kinetic friction: Insights from numerical models  
J. Scheibert, J. Trømborg, D. S. Amundsen, K. Thøgersen, A. Malthe-Sørensen  
[JMC 13](#), Montpellier, France (27-31/08/2012)
- [3] Dynamic fracture in Plexiglas  
J. Scheibert, C. Guerra, F. Célerié, D. Dalmas, D. Bonamy  
[Journées de la Matière Condensée 11](#), Strasbourg (08/2008)
- [2] Mechanical transduction of the tactile information: the role of fingerprints in human touch  
A. Prevost, J. Scheibert, G. Debrégeas  
[Journées de la Matière Condensée 11](#), Strasbourg (08/2008)
- [1] Un nouveau capteur haptique biomimétique pour étudier la physique du toucher  
J. Scheibert, A. Prevost, G. Debrégeas, R. Rousier, P. Rey  
*Société de biomécanique – Congrès Paris 2004 (09/2004)*

#### **Invited Seminars :**

- [19] Reduction of the area of real contact under shear and the value of static friction  
*Laboratoire de Simulation en Mécanique des Solides, EPFL, Lausanne, Suisse (12/05/2016)*

- [18] Slow fronts at the transition from static to kinetic friction  
*Laboratoire de Physique Statistique, ENS, Paris, France (29/10/2014)*
- [17] Slow fronts at the transition from static to kinetic friction  
*Laboratoire Jean Perrin, Université Paris 6, Paris, France (28/10/2014)*
- [16] Slow fronts at the transition from static to kinetic friction  
*Laboratoire de Physique, ENS-Lyon, Lyon, France (23/09/2014)*
- [15] Transition from static to kinetic friction: Insights from numerical models  
*Laboratoire PMMH, ESPCI, Paris, France (17/01/2014)*
- [14] Probing the micromechanics of a multicontact interface at the onset of frictional sliding  
*Institute of Physics of the National Academy of Sciences of Ukraine (09/2013)*
- [13] Role of microcracks in the dynamic fracture of amorphous materials  
*Laboratoire Charles Coulomb, Université de Montpellier 2 (03/2012)*
- [12] Dynamic fracture of amorphous materials: Brittle / quasi-brittle transition  
*Complex, University of Oslo, Norway (02/2011)*
- [11] Dynamic fracture of amorphous materials : Brittle/quasibrittle transition  
*ISC, Università Roma 2, Italy (03/2010)*
- [10] Dynamic fracture of amorphous materials : Brittle/quasibrittle transition  
*INGV, Roma, Italy (02/2010)*
- [9] Une approche biomimétique pour étudier le toucher humain  
*LPMCN, Université de Lyon 1 (10/2009)*
- [8] Une approche biomimétique pour étudier le toucher humain  
*LCVN, Université de Montpellier 2 ( 10/2009)*
- [7] Mécanique du contact frottant: rôle de la texture interfaciale  
*Laboratoire PhyMat, Université de Poitiers (02/2009)*
- [6] Mécanique du contact frottant: rôle de la texture interfaciale  
*LPS, Université Paris Sud, Orsay (11/2008)*
- [5] Mécanique du contact frottant: rôle de la texture interfaciale  
*LTDS, Ecole Centrale de Lyon, Ecully (10/2008)*
- [4] Stress/strain field measurements at a multicontact frictional interface  
*PGP, University of Oslo, Norway (10/2008)*
- [3] Mesure des champs de déformation / contrainte à une interface multi-contact frottante  
*SPCSI, CEA Saclay (01/2008)*
- [2] Mécanique du contact aux échelles mésoscopiques  
*CRPP, Bordeaux (10/2007)*
- [1] Mesure des contraintes à une interface frottante: approche physique de la perception tactile  
*Laboratoire MSC, Jussieu, Paris (01/2006)*

### **Other oral communications :**

- [26] Reduction of real contact area under shear and the value of static friction  
R. Sahli, G. Pallares, C. Ducottet, I. Ben Ali, S. Al Akhrass, J. Scheibert  
*Phenix/LIA-MSD, Lyon, France, 12/07/2017*
- [25] Reduction of real contact area under shear and the value of static friction  
R. Sahli, G. Pallares, C. Ducottet, I. Ben Ali, S. Al Akhrass, J. Scheibert  
*Conference in honour of Liliane Léger, Paris, France, 19/10/2016*
- [24] Suivi optique de la dynamique de rupture rapide des interfaces de contact textures  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*Seminar 2015 of the Labex Manutech-SISE, Marcoux, France, 6-7/10/2015*
- [23] Controlling the friction properties of rubber-sphere on rubber-coated-plane contacts:  
effect of the coating thickness  
G. Pallares, R. Sahli, I. Ben Ali, S. Al Akhrass, J. Scheibert  
*Meeting of the GDR Mephy, Agay, France (10-12/06/2015)*
- [22] Glissement d'un contact élastomère-verre: étude optique de l'aire de contact réelle  
R. Sahli, G. Pallares, C. Ducottet, J. Scheibert  
*Meeting of the GDR Mephy, Agay, France (10-12/06/2015)*
- [21] Roughness-induced jumping dynamics of a high velocity slider under gravity  
C. Zouabi, J. Scheibert, J. Perret-Liaudet  
*Meeting of the GDR Mephy, Agay, France (10-12/06/2015)*
- [20] Dynamique de rupture des interfaces multicontact  
*Scientific focus of TPCDI team, during evaluation of LTDS by HCERES (21/01/2015)*
- [19] Probing the micromechanics of a multi-contact interface at the onset of frictional sliding  
*Workshop "Friction along interfaces", University of Oslo, Oslo, Norway (02/06/2014)*
- [18] Transition from static to kinetic friction: Insights from numerical models  
*Internal seminar of LTDS, Ecole Centrale de Lyon, Ecully, France (20/03/2014)*
- [17] Suivi optique de la dynamique de rupture rapide des interfaces de contact texturées  
*Séminaire MANUTECH, Goutelas, France (18/10/2013)*
- [16] Rôle des micro-fissures sur la rupture dynamique du PMMA  
*Journée d'animation scientifique en l'honneur de Yannick d'Escatha « Quelques nouveautés en rupture », Villeurbanne, France (23/05/2013)*
- [15] Rôle des micro-fissures sur la rupture dynamique du plexiglas  
*2<sup>nd</sup> CIMREV Seminar, Ecole Centrale de Lyon, Ecully, France (02/07/2012)*
- [14] A physical approach to fracture in friction  
*Internal seminar of LTDS, Ecole Centrale de Lyon, Ecully, France (01/2012)*
- [13] Dynamic fracture of PMMA: Velocity dependence of the fracture energy  
*Meeting of the GDR Mephy, Paris, France (11/2011)*

- [12] Laboratory earthquakes: dynamic shear cracks in heterogeneous frictional interfaces  
*Board Meeting of PGP, University of Oslo, Norway (09/2009)*
- [11] Dynamic fracture: how brittle are brittle amorphous materials?  
*Internal seminar of PGP, University of Oslo, Norway (05/2009)*
- [10] Rôle des empreintes digitales dans le codage de l'information tactile  
*Journée du SPCSI, CEA Saclay (12/2008)*
- [9] Toucher humain : une approche bio-mimétique  
*Branly prize lecture, Musée Branly, Paris (11/2008)*
- [8] Dynamic fracture of brittle heterogeneous materials  
*Journée APSC, CEA Saclay (10/2008)*
- [7] Mécanique du contact à interface texturée  
*Meeting of the GDR Dyninter, Tours (05/2008)*
- [6] Mesure des contraintes à une interface en frottement  
*Statistical Physics days 2007, Paris (01/2007)*
- [5] Mesure des contraintes à une interface frottante: approche physique de la perception tactile  
*Summer school in Mechanical Physics, Porquerolles (09/2006)*
- [4] Physique du toucher, une approche expérimentale biomimétique  
*Meeting of the GDR Dyninter, Obernai (04/2005)*
- [3] Un nouveau capteur haptique biomimétique pour étudier la physique du toucher  
*Days of the Laboratoire de Physique Statistique de l'ENS (10/2004)*
- [1] Un nouveau capteur haptique biomimétique pour étudier la physique du toucher  
*Internal seminar of Laboratoire des fluides Organisés, Collège de France (09/2004)*