

CURRICULUM VITAE OF PROF. MATTEO CICCOTTI

Personal data:

Matteo Ciccotti, born in Macerata (MC), Italy on July 24th, 1972.

Citizenship: Italian and French (since 2015)

Personal address: 12 rue de Mirbel – 75005 - Paris. Tel: 06-71813929.

Web page: <https://ciccotti.espci.fr>

E-mail: matteo.ciccotti@espci.fr

ORCID : 0000-0003-2707-9217

Researcher ID : C-8536-2013

Awards:

May 2016: Darshana and Arun Varshneya Frontiers of Glass Science Award, The American Ceramic Society (USA). For the achievements on the mechanisms of stress-corrosion propagation in oxide glasses.

June 2016. Science Award, Engineering Conferences International (USA). For the achievements on the nanoscale investigations of crack propagation mechanisms in glassy polymers.

Cursus:

Since September 2015: Full professor of ESPCI (PR1) in Physical Mechanics. SIMM Laboratory - UMR 7615 (ESPCI, UMPC, CNRS, PSL) – Paris.

Since September 2010: Professor of ESPCI (PR2) in Physical Mechanics. PPMD/SIMM Laboratory - UMR 7615 (ESPCI, UMPC, CNRS) – Paris.

5 February 2009 : Qualification aux fonctions de Professeur des Universités en section 28 : Milieux denses et matériaux.

14 Decembre 2006 : Diplôme d'Habilitation à Diriger des Recherches à l'Université de Montpellier II. Title : "Étude de la Propagation de Fractures des Échelles très Grandes (Tectoniques) aux Échelles Très Petites (Nanométriques)".

From October 2005: Permanent Researcher Position (CR1) at CNRS (section 5) UMR 5587, Laboratoire des Colloïdes, Verres et Nanomatériaux, Université de Montpellier II.

September 2004 – August 2005: ATER (teacher/researcher) at Université de Montpellier II, Laboratoire des Verres. Research group "Nanomécanique". Theme : AFM study of nanoductility in slow crack propagation in glasses.

February 2004: Stage of professional formation of 21h on: « Use of lathe, cutter and drilling machine for the realization of plastic and metal parts”. Association de Formation Professionnelle de l'Industrie rhodanienne. Lyon.

September 2003 - August 2004: Researcher at the Laboratoire de Physique of the Ecole Normale Supérieure de Lyon. Theme: Analysis of the thermal fluctuations during the aging of a colloidal glass by dielectric measurements and dynamic light scattering.

September 2000 - August 2003: PostDoc position (Assegno di Ricerca) at the Physics Dipartement of the University of Bologna, Italy. Title of the research projet: "Studio dei terremoti in laboratorio" (Studying earthquakes in the laboratory).

April 2000 - August 2000: Research contract with the Physics Dipartement of the University of Bologna, Italy, with the aim of build up an acquisition system for the ultrasonic emissions produced by microfractures in stressed rocks.

January 1999 - March 1999: Guest at the Laboratoire de Physique et Mécanique des Milieux Hétérogènes of the Ecole Supérieure de Physique et Chimie Industrielles de la Ville de Paris for an experiment concerning fracture dynamics in viscoelastic media.

Since **1997** associate member of INFN (National Institute for Nuclear Physics). Theoretical physics group, Bologna, Italy.

November 1996 - 9 March 2000: Corso di Dottorato in Fisica (PhD) at the University of Bologna, Italy. Title of the thesis: "An exhaustive analysis of the Double Torsion method for sub-critical fracture propagation in lava rocks and its implications for the understanding of earthquake physics".

September 1994 - June 1995: ERASMUS project student at the Université Paris VII, obtention of the maîtrise en physique fondamentale.

September 1991 - March 1996: Laurea in Fisica (bachelor) at the University of Bologna, Italy. Grade: 110/110 cum Laude. Title of the thesis: "Analisi di modelli per la dinamica della linea di frattura del nastro adesivo" (Analysys of dynamical models for the fracture line of an adhesive tape).

June 1991: Classified in the top 10 at the National stage of International Physics Olympiads, held in Senigallia, Italy.

July 1991: Diploma di Maturità Scientifica (Secondary School Diploma) at the Liceo Scientifico Enrico Fermi in Bologna, Italy. With five years specialization in experimental Physics and Chemistry. Grade: 60/60.

Languages:

English and French : fair, written and oral. **Italian:** native.

Informatics Knowledge:

OS: Windows/Linux. **Programmation:** Fortran, C++, Basic, Pascal, Matlab, LaTeX, MSC Marc, Origine, Adobe Illustrator, Corel Draw, Gwyddion.

Collaborations with scientific reviews:

Referee of manuscripts submitted to: Physical Review Letters, European Journal of Physics B, Applied Physics Letters, International Journal of Fracture, Journal of Non-Crystalline Solids, Ultrasonics, Material Research, Rock Mechanics and Rock Engineering, Geophysical Research Letters, Geophysical Journal International, Annals of Geophysics, Medical Physics.

Scientific affiliations:

American Ceramic Society since 2006. **Société Française de Physique** and **European Physical Society** since 2008. **American Geophysical Union** and **European Geophysical Union** since 2003.

Teaching Experience:

1. **Invited lectures** of 1h sur « Fracture of soft dissipative solids » at the GFR Short Courses, Université de Montpellier, 22/10/2019.
2. **Invited lectures** of 2h30 on « Fundamentals of adhesion » at the School ITN BioSmart, ESPCI Paris, 13-15 September 2017.
3. Since January 2016 – **33h Lectures/TD** (with Benoit Roman) on Soft Solids in the Master program PSL-ICFP, at ENS-Paris.
4. Since September 2014 – **6h Lectures** on Composite Materials in the PhD Formation ITI-PSL, Paris.
5. Since Septembre 2011 – **Lectures/TD/Tut** of Mechanics of Solids and Materials - ESPCI Paris.
6. Since Septembre 2010 – **TP** of Hydrodynamics and Physical Mechanics – ESPCI.
7. **Invited classes** of 2h30 on « Stress-corrosion mechanisms in silicate glasses at nanoscale » at the **Summer School** on Fracture 2010, The Cargese Institute of Scientific Studies, Corsica, France, 7-18 June 2010.
8. **Invited class** of 1h on “Mechanical processes and glass surfaces: stress-corrosion mechanisms and AFM studies of glass surfaces” at the **Spring School** “Glass Structure-Property Relationships” organized by the European project EFONGA in Montpellier, 4-5 May 2009.
9. 2008 to 2010 : Classes on « Mechanical waves and oscillations » at Département des Matériaux de Polytech' Montpellier antenne Nîmoise (**15h Cours/TD**).
10. **Incited classes** of 1.5h on « Stress corrosion » at **Fall School** of GDR Matériaux Vitreux : « La Surface des Verres ». Dourdan, France, 9-11 September 2008.
11. 2008-2009 : participation to the **structuring of a new Master** « SMART-NANO » at Département de Physique de l'Université de Montpellier II.
12. 2006 : preparation of **fiches projets** for the classes of Physique Expérimentale (L1) at Université de Montpellier II, Département de Physique.
13. 2004-2005 : ATER (teacher/researcher) at Université de Montpellier II, Département de Physique. Teaching activity : **197 hours** de ETD (Experimental Physics, 1st year (66 hours cours/TD + 54 hours TP) ; Passeport Minimale

- Informatique, 1st year (30 hours TP) ; Thermodynamics, DEUG 2nd year (30 hours TP) ; Thermodynamics and Fluid Mechanics, 3rd year (65 hours TP).
14. Contract teacher at the Dipartimento di Ingegneria Gestionale of the University of Bologna, Italy, from January to June 2003. **90 hours** of didactic activities in the course of "General Physics", including 32 hours of lecturing and the remaining hours shared in tutoring and exams.
 15. Teacher of a **8 hours** course on scientific data analysis with the software Matlab. Aimed at the formation of the PhD students of the University of Siena. May 2003.
 16. Teacher at the ECPIAR professional training center. **48 hour** course on the use of Microsoft Office XP for producing Formatted Documents and SpreadSheets. March-July 2002.
 17. Appointed Teacher (course of Physics) at the high school ITIS-IPIA, Imola (BO), Italy after September 1st, 2001 (detached for research).
 18. Teacher of a **10 hour** course on the use of the software "Octave" for data analysis and representation. Within the course "Geodinamica" (course held by Prof. Francesco Mulargia) at the Università di Bologna, Italy. May 2002.
 19. Assistant at the course "Fisica della Terra" (course held by Prof. Francesco Mulargia) for four years (1998-2002) at the Università di Bologna, Italy. Tutoring, lecturing, marking students work.
 20. Invited Lecturer, Natural Sciences @ Liceo Statale Copernico, Bologna, Italy (high school) 2000
 21. Assistant at the course "Fisica Tecnica" (course held by Dr. Bruno Giorgini) for three years (1996-1999) at the Politecnico di Milano, Italy. Tutoring, lecturing, marking students work and final oral and written tests.

Supervision of Student Projects:

Postdocs:

- a. Dr. N. Hasanabadi (24 months from April 2017; BASF funding) on « Unravelling damage mechanisms of soft adhesives under shear loading through mechanophores ». Co-direction with C. Creton.
- b. Dr. X. Morelle (24 months from October 2017, ERC CHEMECH of C. Creton) on « Photoelastic techniques for large strain of dissipative materials ».
- c. Dr. M. Tiennot (ATER ESPCI, 12 months from September 2017) on : « AFM investigation of confinement effects on the fracture of a structural bonding ».
- d. Dr. H. Minsky (24 months from April 2017; 3M funding) on « Unravelling failure mechanisms of soft adhesives under shear loading ». Co-direction with C. Creton.
- e. Dr. J. Chopin (ATER ESPCI, 24 months from September 2015) on « Adhesion of an adhesive on a patterned substrate ». Co-direction with E. Barthel and C. Creton.
- f. Dr. R. Villey (24 months from February 2014, ANR STICKSLIP) on : « Stick-slip instability in an adhesive tape ». Co-direction with FAST laboratory of Université Paris XI (P.P. Cortet).
- g. Dr. B. Saintyves (11 months from February 2013, ANR STICKSLIP) on « Stick-slip instability in an adhesive tape ». Co-direction with FAST laboratory of Université Paris XI (P.P. Cortet).

- h. Dr. F. Lechenault (12 months from January 2009) on : "Etude métrologique des fonctions de corrélation des surfaces de fracture dans les verres mesurées par AFM". Co-direction with SPCSI laboratory of CEA-Saclay (E. Bouchaud).
- i. Dr. M. Flemming (12 month from March 2009) on : "Mesure des propriétés de mouillage à l'échelle nanométrique par des techniques de nanomécanique AFM". Co-direction with LPMCN of Université Claude Bernard Lyon 1 (E. Charlaix).

PHD thesis :

- a. Dr. Krupal Patel. 2019-2022. Thèse UpToParis at PSL University "Fracture dynamics in soft matter – large strain meets dissipation - a model study".
- b. Dr. Nassim Pujol. 2018-2021. Thèse CIFRE at Université Paris 6 with Michelin. "Adhésion et fracture d'élastomères non-vulcanisés".
- c. Dr. Paul Fourton. 2016-2019. Thèse CIFRE at Université Paris 6 with Saint Gobain Recherche. "Dynamic rupture of EVA based glass laminates".
- d. Dr. Antoine Fleury. 2016-2019. Thèse CIFRE at Université Paris 6 with Renault "Mechanics of soft debonding of foamed adhesive tapes".
- e. Dr. Paul Elzière. 2013-2016. Thèse CIFRE at Université Paris 6 with Saint Gobain Recherche. "Dynamic rupture of PVB-glass interfaces".
- f. Dr. Guillaume Fischer. 2012-2015. Thèse CIFRE at Université Paris 6 with EADS IW. "Etude de matériaux composites pour applications haute température en aéronautique". Co-direction avec François Gérard of INSA-Lyon.
- g. Dr. Yannick Nziakou. 2012-2015. Thèse ANR at Université Paris 6. « Analyse multiéchelle des mécanismes d'endommagement de matériaux composites à morphologie complexe pour l'aéronautique ».
- h. Dr. Gael Pallares. 2007-2010. Thèse BDI (CNRS-CEA Saclay) at Université Montpellier 2. Ecole Doctorale ISS. Title : "Etude des mécanismes non-linéaires à la pointe de fissure des verres".
- i. Dr. Antoine Grimaldi. 2006-2009. These en physique at Université Montpellier 2. Ecole Doctorale de Chimie et Physique. Title : "Etude par AFM des mécanismes de corrosion sous contraintes du verre".

University Stages :

- a. Yassine Nait Abdi. Mai-July 2019. Stage 3a ESPCI. "Downscaling the synthesis for epoxy resins for nanomechanical testing".
- b. Nassim Pujol. February-July 2018. M2 stage from Master MAGIS at ENSAM Paris with Michelin. "Adhésion et fracture d'élastomères non-vulcanisés".
- c. Karim Sakka. April-September 2017. M2 stage from Université de Lorraine and with Michelin. Title: "Sticking and fracturing problems during rubber processing for tires".
- d. Antoine Flaury. February-August 2016. M2 stage from master Magis. Title: "Soft debonding of foamed adhesive tapes"
- e. Vivek Pandey. January-May 2016. M2 stage from IIT Roorkee, India. Title: "Linkin Peeling and tack of soft copolymer based adhesive tapes"
- f. Louis Debertrand. July 2014. 1st Year stage of ESPCI. Title: "Renforcement d'un pare-brise : adhésion et fracture dans un verre feuilleté".

- g. Thomas Jet. July 2014. 1st Year stage of ESPCI. Title: “Dépendance angulaire et rhéologique de l'énergie de fracture lors du pelage d'adhésifs”.
- h. Hector de la Croix de la Vallette. Juin-September 2013. M1 stage of Ecole des Mines de Douay. Title : « Measuring crack tip plastic deformation fields by Digital Image Correlation on AFM images ».
- i. Damien Poitevin. July 2013. 1st Year stage of ESPCI. Title: “Measuring slow crack propagation in epoxy resins by AFM”.
- j. Yannick Nziakou. February-August 2011. M2 stage of Université Paris VI. Title : “Nanomechanics of slow fracture propagation in glassy polymers”.
- k. Olivier Tramis. M2 stage of Université Paris VI. Title : « Adhesion of viscoelastic polymers on heterogenous surfaces ».
- l. Sophie Cervera, April-May 2009. 2nd year stage of IUT de Montpellier. Title : ‘Caractérisation de surface de verre en vue d’applications technologiques limitées par l’état de surface’.
- m. Chandan Kumar. May-July 2008. Master stage of Indian Institute of Technology of Guwahati, India. Title : ‘Etude par simulation aux éléments finis des contraintes 3D en pointe de fissure’.
- n. Gaël Pallares, January-July 2007. M2 Stage Matériaux of Université Montpellier 2. Title: « Mesure du profil d’ouverture d’une fissure par interférométrie du coin d’air».
- o. Vincent Ranieri. January-Juillet 2006. M2 Stage Matériaux of Université Montpellier 2. Title : ‘Mesure par AFM de la propagation lente de fissures dans des verres de silice’
- p. Félix Barre. April-Mai 2006. M1 Stage in Physics at Université Montpellier 2. Title: ‘Modélisation des effets environnementaux sur le fonctionnement d’un interféromètre hétérodyne de précision’.
- q. Camille Echampard. February-March 2006. M1 Stage PhyMaTech at Université Montpellier 2. Title : ‘Mesure par DLS de la dynamique lente dans un verre colloïdale’.

Tesi di Laurea (final year University projects in Italy):

- a. Tesi di Laurea in Scienze Geologiche of Mr. F. Menapace at the l'Université de Bologne, Italie, dans l'année 2003-2004. Titre de la thèse: "Studio di propagazione sottocritica delle fratture su roccia in configurazione di carico double-torsion" (“Study of the subcritical propagation of crack in rocks in double-torsion load configuration).
- b. Tesi di Laurea in Scienze Geologiche of Mr. R. Almagro at the Università di Bologna in the autumn session of a.y. 2001-2002. Title of the thesis: "Caratterizzazione meccanica di un litotipo sismico italiano: il Calcare Massiccio." ("Mechanical characterization of an Italian seismic lithotype: the Calcare Massiccio").
- c. Tesi di Laurea in Fisica of Mr. E. Lunedei at the Università di Bologna in the autumn session of a.y. 2001-2002. Title of the thesis: "Modellizzazione ed analisi dei dati in un esperimento di dinamica delle fratture" ("Modelization and data analysis of an experiment of fracture dynamics").

- d. Tesi di Laurea in Scienze Geologiche of Miss. M. Morrone at the Università di Bologna in the autumn session of a.y. 1998-99. Title of the thesis: "Un modello a stick-slip e sue applicazioni in sismotettonica" ("A stick-slip model and its applications in seismotectonics").
- e. Tesi di Laurea in Scienze Geologiche of Mr. N. Negri at the Università di Bologna in the autumn session of a.y. 1997-98. Title of the thesis: "Caratterizzazione dei parametri morfologici, chimici, elastici e di frattura di lave eoliane" ("Characterization of morphological, chemical, elastic and fracture parameters of Aeolian lava rocks").

Scientific Animation Activities:

1. Animation of the stand of the SIMM Laboratory at **Fête de la Science** 2019, October 2019. On « adhesion of des pâtes ».
2. Realization of **two video clips** of the **scientific TV show E=M6**. In January 2019 on « Do unbreakable glasses exist ? ». In May 2019 on « Can we heal a broken cup with hot milk ? »
3. **Co-organiser of the International Summer School MEPHISTO: Mechanics and Physics of Stretchable Objects**. The Cargese Institute of Scientific Studies, Corsica, France, August 7-19 2018.
4. **Conférence expérimentale grand publique** at Espace Pierre Gilles de Gennes: "Casser en s'amusant" with Laurent Ponson. October 9th 2017.
5. **Chair of the International Summer School PHASME: Physics and Mechanics of Soft Complex Materials**. The Cargese Institute of Scientific Studies, Corsica, France, August 8-20 2016.
6. **Poster** in the series « Grain de chercheur » for the **exposition** « Grain de bâtisseurs » at Espace Pierre-Gilles de Gennes. December 2014-Mars 2015.
7. **Pedagogic lecture** « The three little pigs have made university » within the Atelier AMACO on building materials, January 16th 2014.
8. **Organization of the Workshop Michelin/ESPCI** : Multiscale dynamics of structured polymeric materials. 9-10 December 2013. ESPCI Paristech.
9. 2013 : Scientific lecture « Casser en s'amusant » at **Palais de la Découverte** de Paris. With Elisabeth Bouchaud and Laurent Ponson.
10. 2012 : Scientific consultant for the **exposition** « Ruptures : les matériaux roulent des mécaniques » at Palais de la Découverte in Paris.
11. 2008/2009 : Participation to the project **ManipLab** that aims at diffusing the information on the quality of research activities on Montpellier and helping students on the choice of their future formation. Groups of three Licence students are hosted for three half-days every year.
12. Organization of the **session Glass Nanomechanics** in the Workshop EFONGA « Current Status and Future of Glass » Montpellier 6-8 May 2009.
13. **Organisation of the Workshop EFONGA** « Glass surfaces and stress corrosion mechanisms at the nanoscale » Montpellier 22-25 February 2009.
14. Seminars at **Lycée La Merci** (Montpellier) on the 'Physics of Fracture' in the context of the Fête de la Science 2006, October 2006.
15. Participation at the animation of the **exposition** "Jeux de grains" in the context of the Année Mondiale de la Physique 2005 in Languedoc Roussillon, Mars 2005.

16. Participation at the animation of the stand of the Laboratoire de Physique of the ENS-Lyon in the context of the **Fête de la Science** 2003, October 2003.

Collective responsibilities:

1. **Chargé de la communication** of the SIMM Laboratory since Septembre 2019.
2. Scientific coordinator of the **Conférences Expérimentales at Espace Pierre-Gilles de Gennes** since September 2018.
3. Chair for the **creation of a new research Master 2 on Physics and Mechanics of Solids** in the Spécialité Systèmes Complexes.
4. **Member of the Conseil du Laboratoire SIMM** since 2014.
5. **Member of the Comité de Pilotage** of the Chaire Michelin/ESPCI since 2010.
6. **Leader of the team « Physique des Verres »** at Laboratoire de Colloïdes, Verres et Nanomatériaux from January 2009 to June 2010 (team originated by fusing the teams : ‘Nanomécanique’ and ‘Physique des Verres et Spectroscopie’).
7. **Leader of the team « Nanomécanique »** at Laboratoire de Colloïdes, Verres et Nanomatériaux from October 2005 to December 2008.
8. Coresponsible with M. Foret of the **structuring of the « Axe Verres » of LCVN** that implies transversal cooperation of several teams (2006-2008).
9. **Elected member of the Conseil du Laboratoire** des Colloïdes, Verres et Nanomatériaux since January 2009.
10. **« Chair » of Technical Committee TC09 : Nanomechanics of Glass.** In the context of the International Committee on Glass (ICG) that has the mission of promoting international cooperation in glass science and technology. From 2007 to 2010.
11. Member of the **Scientific Council** of the Forum de Microscopies à Sonde Locale since Mars 2007.
12. **Member of Technical Committee TC06 : Mechanical Properties of Glasses** in the context of the International Committee on Glass (ICG). Since June 2006.
13. **Member of the Conseil du Laboratoire** de Colloïdes, Verres et Nanomatériaux since February 2005.

Implication dans des projets et financements :

1. **Application to the COFUND UpToParis** and co-funding of a PhD contract for 2019-2022 on "Fracture dynamics in soft matter – large strain meets dissipation - a model study".
2. **Partnership with Michelin** on "Sticking and fracturing problems during rubber processing for tires". Two contracts of 20 k€ and 75k€ for a master stage and a PhD CIFRE (starting Avril 2017).
3. **Partnership with Renault** sur le thème "Mechanics of soft debonding of foamed adhesive tapes". Deux contrats d'accompagnement de 20 k€ et 70k€ en support d'une stage et une thèse CIFRE (début Janvier 2016).
4. **Partnership with 3M** on « Unravelling failure mechanisms of soft adhesives under shear loading ». Contract of 100k€ for a 2 years postdoc (starting April 2017).

5. **Partnership with Saint-Gobain** on "Dynamic debonding of a laminated glass". Two contracts of 60k€ for the research costs related to two PhDs CIFRE (starting 2013 and 2016).
6. Partner of the project **ANR STICKSLIP 2012 (BLANC)** on the crack propagation in heterogeneous viscoelastic materials. Other partners: UCB-Lyon1, ENS-Lyon, FAST-ORSAY.
7. Leading partner of the project **ANR PROMORPH 2011 (MATETPRO)** on the composite materials for aeronautics. Other partners : EADS, ARKEMA, INSA-Lyon, ENS-Cachan, EC-Nantes, L2C-UM2.
8. Participation to the application for a European project COST 2009 on « Basic Glass Science » including 6 european partners. Coordinator of the task « Nanomechanics ».
9. Partnership with the **enterprise SAGEM** (Argenteuil, France) on the « Minimisation des pertes mécaniques de résonateurs en silice causées par l'endommagement de surface ». A first consulting contract between may and July 2009 was rewarded **10 k€** research credits for the team « Physique des Verres ».
10. Implication in the **European Coordinating Action EFONGA** for the animation of the european glass community. Responsible of the Workpackage « Glass nanomechanics » in 2008. The project has funded the LCVN partner for **130 k€** during 2005-2009. This funding was also used to organize an International Workshop in Montpellier in 2009 (cf. Scientific Animation Activities).
11. **Projet « Attractivité »** of the Conseil Scientifique of Université de Montpellier 2. Financement in 2008 for **three months postdoc** (12 k€) in complement to ANR CORCOSIL.
12. Participation to the project on « Glass and nanoscience » for the funding **CPER 2007-2013**. Financement of **50 k€** by CNRS to complete the acquisition of an AFM financed by ANR CORCOSIL.
13. **Leader** of the **project ANR blanc 2007 CORCOSIL** with partners CEA-Saclay and Université Lyon I. Financement of **300 k€** to LCVN partner allowing the acquisition of an AFM and 12 months postdoc.
14. Participation to the creation of the **PPF Verres** (2006-2010) grouping the activities of the « pole verrier Montpelliérain » and in the organization of a connected meeting of the GDR « Matériaux Vitreux » in Montpellier.
15. **Projet Jeunes Chercheurs 2005** of Université de Montpellier 2. Financement of 2200 € for the project : 'Etude par Microscopie à Force Atomique (AFM) de la propagation lente de fissures dans les verres. Vers une mesure quantitative des propriétés nanomécaniques locales'.
16. Participation to the writing of the **European projet on « Fracture Mechanics »** for the 7th PCRD.

Committees for PhD or HDR:

1. Gustavo Gimenez. PhD examiner. 18/12/2018. PSL Research University.
2. Aditya Vasudevan. PhD examiner. 01/02/2018. UPMC Paris.
3. Itamar Kolvin. PhD referee. 18/10/2017. Hebrew University of Jerusalem.
4. Thomas Salard. PhD examiner. 17/07/2017. INSA de Lyon.
5. Olivier Tramis. PhD examiner. 05/12/2016. INP de Toulouse.

6. Nicolas Algarra. PhD committee president. 12/12/2016. Université Paris 6.
7. Christophe Poulard. HDR referee. 21/11/2016. Université Paris Sud.
8. Alexis Tantot. PhD examiner. 11/12/2015. Université Lyon I.
9. Victor Fabre. PhD referee. 20/03/2015. Ecole des Mines de Paris.
10. Damien Radisson. PhD referee. 17/12/2014. Université de Grenoble.
11. Richard Villey. PhD examiner. 05/12/2013. Université Lyon 1.
12. Guillaume Foyart. PhD referee. 21/11/2013. Université Montpellier 2.
13. Kun Han. PhD referee. 13/12/2012. Université de Rennes 1.
14. Jean Colombani. HDR examiner. 01/12/2010. Université Lyon 1.
15. Ludovic Bellon. HDR referee. 23/11/2010. ENS-Lyon.

Hiring committes:

1. Poste de MdC in Mechanics of Materials at l'ESPCI Paris. 20/05/2015.
2. Poste de MdC at Université Lyon 1. Chaire CNRS n. 0423. 06/05/2010.

Contributions to International Books:

1. **Ciccotti M.**, George M. (2018) In Situ AFM Investigations and Fracture Mechanics Modeling of Slow Fracture Propagation in Oxide and Polymer Glasses. In: Andreoni W., Yip S. (eds) Handbook of Materials Modeling. Springer, Cham.
2. Charlaix E. and **Ciccotti M.** Capillary condensation in confined media. Invited chapter in the Handbook of Nanophysics: Principles and Methods. Chapter 12. Ed. Klaus Sattler (CRC Press, Boca Raton FL, 2011).
3. **Ciccotti M.** and Giorgini B. The emergence of complexity in a common scotch roller. In: Symétries, brisures de symétries et complexité. Edito da L. Boi (Peter Lang, Bern, 2006) pp. 187-216.
4. Associate Editor of the book: Earthquake Science and Seismic Risk Reduction. NATO SCIENCE SERIES: IV: Earth and Environmental Sciences Volume 32. Edited by F. Mulargia and R. Geller. (Kluwer, 2003). Author of the following sections in the book:
 1. **Ciccotti M.** Section 2.1: Seismology and Geodesy. pp. 43-49.
 2. Mulargia F., Castellaro S. and **Ciccotti M.**. Section 2.8: Earthquake Energy Balance. pp. 80-89.
 3. Mulargia F., Main I., **Ciccotti M.**, Castellaro S. and Kertesz J. Chapter 3: Physics of Complex Systems and Earthquakes. pp. 107-152.

Submitted papers:

1. P Pandey V., Fleury A., Villey R., Creton C. and Ciccotti M., 2019. Linking Peel and Tack Performances of Pressure Sen-sitive Adhesives. Submitted to Soft Matter.
2. Nziakou Y., George M., Fisher G., Bresson B., Roux S., Halary J.L. and **Ciccotti M.**, 2018. Bridging steady-state and stick-slip fracture propagation in glassy polymers. Submitted to Soft Matter.

International papers:

1. Elzière P., Fourton P., Demassieux Q., Chennevière A., Dalle-Ferrier C., Creton C., **Ciccotti M.** and Barthel E., 2019. Supramolecular Structure for Large Strain Dissipation and Outstanding Impact Resistance in Polyvinylbutyral. Macromolecules. In press.
2. Liu Z., Minsky H., Creton C, **Ciccotti M.** and Hui C.Y., 2019. Mechanics of zero degree peel test on a tape— effects of large deformation, material nonlinearity, and finite bond length. *Extreme Mechanics Letters*, 32, 100518.
3. Hui C.Y, Liu Z., Minsky H., Creton C. and **Ciccotti M.**, 2018. Mechanics of an adhesive tape in a zero degree peel test: effect of large deformation and material nonlinearity. *Soft Matter*. 14[47]: 9681-9692.
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National papers

1. Ciccotti M et George M. 2009. Etude in-situ par AFM des mécanismes de corrosion sous contraintes. *Verre*. 15[3] p 50–53.

Papers in conference proceedings with peer review:

1. Pallares G., Lechenault F., George M., Bouchaud E., Rountree C.L. and **Ciccotti M.** Roughness of silica glass sub-critical fracture surfaces. In: *Fractography of Glasses and Ceramics VI: Ceramics Transactions, Volume 230*. Edited by J.R. Varner and M. Wightman (Wiley, American Ceramic Society, July 2012). 324p. ISBN: 978-1118273739.
2. **Ciccotti M.**, Pallares G., Ponson L., Grimaldi A. and George M. Mechanical effect of capillary forces in the crack tip of a DCDC specimen. *Proceedings of the 12th International Conference on Fracture*. 12-17 July 2009, Ottawa, Canada.
3. Kumar J., **Ciccotti M.** and Ananthakrishna G., 2008. Dynamics of Cracking Noise During Peeling of an Adhesive Tape. In: *Nonlinear Dynamics (Norosa, New Delhi, 2008)*, p. 191.
4. Kumar J., De R., **Ciccotti M.** and Ananthakrishna G. Unfolding the hidden order in acoustic emission data in the peeling of an adhesive tape. In: *Proceeding of Multiscale Materials and Modelling, September 18-22 2006, Freiburg, Germany. Symposium 3*, page 330-333. Edited by Peter Gumbsch (2007).
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- tip in glasses. In: *Fractography of Glasses and Ceramics V. Ceramics Transactions, Volume 199*. Edited by J.R. Varner, G.D. Quinn and M. Wightman (John Wiley & Sons, 2007). pp. 25-34.
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 7. Bellon L., Buisson L., **Ciccotti M.**, Ciliberto S. et Douarche F., Thermal noise properties of two ageing materials. In : *Jamming, Yielding, and Irreversible Deformation in Condensed Matter. Series: Lecture notes in physics, vol 688. Proceedings of the XIX Sitges Conference (June 2004)*. Edited by M. Rubí and C. Miguel (Springer Verlag, Berlin, 2006). pp. 23-51. cond-mat/0501324.
 8. Buisson L., **Ciccotti M.**, Bellon L. and Ciliberto S.. Electrical noise properties in aging materials. In: *Fluctuations and Noise in Materials*, edited by D. Popovic, M.B. Weissman and Z.A. Racz. *Proceedings of SPIE Vol. 5469* (SPIE, Bellingham, WA, 2004). Invited paper. pp. 150-163. cond-mat/0403294.

Invited lectures in international conferences:

1. **M. Ciccotti**. Modeling Toughness of Soft Dissipative Materials. **Invited talk** at International Workshop on Seismic Source Physics, Porto Pollo, Sardinia, Italy, June 1-3 2019.
2. **M. Ciccotti**, X. Morelle, E. Barthel, C. Creton. Towards a Unified Model of Soft Adhesives. **Invited Talk** at the APS March Meeting 2019, March 4–8, 2019, Boston (MA), USA.
3. **M. Ciccotti**, J. Chopin, R. Villey, A. Fleury, H. Minsky, C. Creton. Stringing instability in the peeling of soft dissipative layers. **Invited Talk** at Mechanical Instabilities in Solids and Fluids. October 15th-19th 2017, Jerusalem, Israel.
4. **M. Ciccotti**. Modeling Toughness of Soft Dissipative Materials. **Invited Talk** at Gordon Research Conference Science of Adhesion. July 23rd-28th 2017, Mount Holyoke College, MA, USA.
5. **M. Ciccotti**, R. Villey, C. Creton, P.P. Cortet, D. Yarusso. Influence of Large Strain Rheology on the Adhesive Performances of PSA. **Invited Talk** at Tape Summit. May 15-19th 2017, Las Vegas.
6. **M. Ciccotti**, R. Villey, C. Creton, P.P. Cortet, D. Yarusso. Rate-dependent elastic hysteresis during the peeling of Pressure Sensitive Adhesives. **Invited Talk** at 2nd International Pressure Sensitive Adhesive Technoforum November 10th-11th 2016, Tokyo.
7. **M. Ciccotti**. Micromechanisms of fracture propagation in glassy polymers. **Invited Award conference**. Environmental Damage of Structural Materials. May 29-June 3, 2016. Cork, Ireland.
8. **M. Ciccotti**. Multi-scale investigation of sub-critical crack propagation mechanisms in oxide glasses. **Invited award conference**. GOMD Annual Meeting, May 22-26 2016, Madison, WI, USA.

9. **M. Ciccotti**, Y. Nziakou, G. Fischer, B. Bresson, J.L. Halary, M. George, C. Genix, S. Roux. Micromechanisms of fracture propagation in glassy polymers. **Invited talk** at the CECAM Workshop: Chemical and Structural Transformations in Materials under Mechanical Load, 1-4 Septembre 2015, Lausanne, Suisse.
10. **M. Ciccotti**. Influence of large strain rheology on the peeling performances of Pressure Sensitive Adhesives. **Invited talk** at 7th AFERA Technical Seminar. 13-15 Avril, 2015, Brussels, Belgium.
11. **M. Ciccotti**, G. Pallares, S. Roux, L. Ponson, M. George. Multi-scale investigation of sub-critical crack propagation mechanisms in oxide glasses. **Invited talk** at ECI 11th Conference on Local Mechanical Properties. November 12-14, 2014, Stara Lesna, Slovakia.
12. **M. Ciccotti**, G. Pallares, S. Roux, L. Ponson, M. George. Multi-scale investigation of sub-critical crack propagation mechanisms in oxide glasses. **Invited talk** at ECI International Workshop on Environmental Damage on Structural Materials. June 15-20, 2014, Bergamo, Italy.
13. **M. Ciccotti**, Y. Nziakou, B. Bresson, J.L. Halary, M. George, A.C. Genix. Multiscale investigation of slow crack propagation in oxide glasses and polymer glasses. **Invited talk** at CECAM Workshop: Materials Chemomechanics. Lausanne Switzerland. April 29th to May 2nd 2013.
14. L. Ponson, G. Pallares, M. Georges, **M. Ciccotti**, E. Bouchaud. Nanoscale Investigation of the Condensation and Diffusion of Water at Crack Tips in Glass. **Invited talk** at Material Science & Technology. October 16-20, 2011. Columbus, Ohio.
15. **M. Ciccotti**, G. Pallares, S. Roux, L. Ponson, M. George. Micro and Nanoscale Mechanisms of Subcritical Crack Propagation in Glasses. **Invited talk** at Fractography of Glasses and Ceramics VI. Jacksonville, Florida, Juin 5-8, 2011.
16. **M. Ciccotti**, G. Pallares, S. Roux, L. Ponson, M. George. Multi-scale investigation of sub-critical crack propagation mechanisms in oxide glasses. **Invited talk** at CECAM Workshop: Brittle Fracture at the Atomic Scale. May 16, 2011 to May 19, 2011. Lausanne, Switzerland.
17. **M. Ciccotti**. Stick-slip dynamics in the peeling of an adhesive tape. **Invited talk** at AFERA Technical Seminar 2011. Bruxelles, April 13-15th 2011.
18. **M. Ciccotti**. Polymer versus mineral glass fracture Space, time and energy dissipation scales. **Invited talk** at Fracture and Flow of Advanced Glasses 5. St-Malo, France, March 20-25, 2011.
19. **M. Ciccotti**. The role of water in the stress-corrosion mechanisms in glasses. **Invited talk** at Materials Science & Technology (MS&T09). 25-29 October 2009. David L. Lawrence Convention Center. Pittsburgh, Pennsylvania.
20. **M. Ciccotti** and M. George. The role of water in the stress-corrosion mechanisms in glasses. **Invited talk** at International Conference on the Physics of Non-Crystalline Solids (PNCS-XII). September 6 - 10, 2009. Iguacu Falls, Brazil.
21. **M. Ciccotti**, M. George and F. Lechenault. Nano-scale fatigue and failure processes in glass, **Invited talk** at PacRim8 - 8th Pacific Rim Conference on ceramic and glass technology, Vancouver, BC, Canada, 31/05/2009-05/06/2009.

22. **M. Ciccotti** et M. George. Stress-corrosion mechanisms in glasses at the nanoscale. **Invited talk** at EFONGA Workshop “Current Status and Future of Glass” Montpellier 6-8 May 2009.
23. M. George et **M. Ciccotti**. Local probe investigation of glasses. **Invited talk** at EFONGA Workshop “Glass surfaces and stress corrosion mechanisms at the nanoscale” Montpellier 22-25 February 2009.
24. **Ciccotti M.** Space and Time Scales of Dissipation in Fracture. **Invited talk** at Workshop: Physical Aspects of Fracture: Scaling and Size Effects. Ascona, Suisse, 9-14 March 2008.
25. Wondraczek L., Célarié F., Dittmar A., Oelgardt C., **Ciccotti M.** and Marlière C., 2005. Real-time observation of liquid condensate confined at tensile crack tips in silica glasses. **Invited talk** at 2005 MRS Fall Meeting, Boston, MA, USA, November 28 - December 2 2005.
26. **Ciccotti M.**, 2004. Earthquake: the geophysicist’s point of view. **Invited talk** at the Workshop: Geological evidence of earthquake source dynamics. INOA, Firenze, Italy, August, 30th 2004.
27. **Ciccotti M.** and Mulargia F., 2003. Static and dynamic measurements of the elastic properties of a lava rock from Mount Etna volcano and of a typical seismogenic rock of Italy. **Invited talk**. Workshop: New Technologies in Geophysics, Geomechanics and Volcanology. Napoli, Italy, 18-20 September 2003.
28. Barquins M., **Ciccotti M.**, 1996. On the kinetics of peeling of an adhesive tape under a constant imposed load. **Invited talk** at EUROCOAT 1996. International Congress of Paintings and Adhesives. Genova, Italy, 18-20 September 1996.

Lectures in international conferences:

1. H.K. Minsky, Z. Liu, C. Barrios, D.J. Yarusso, H. Hui, C. Creton and **M. Ciccotti**. Nonlinear stress distribution under shear loading of a PSA. **Talk** at Gordon Research Conference on Science of Adhesion. July 21 - 26, 2019. Mount Holyoke College, South Hadley, MA, USA.
2. X. Morelle, J. Chopin, C. Creton, E. Barthel and **M. Ciccotti**. Adhesion on Heterogeneous Textured Surfaces, **Talk** at 42nd Annual Meeting of The Adhesion Society, Hilton Head, SC, USA, February 16-20 2019.
3. H.K. Minsky, C. Barrios, D.J. Yarusso, C. Creton and **M. Ciccotti**. Fingering Instabilities in PSAs under Shear Loading. **Talk** at 42nd Annual Meeting of The Adhesion Society, Hilton Head, SC, USA, February 16-20 2019.
4. H.K. Minsky, C. Barrios, C. Creton and **M. Ciccotti**. The Failure Mechanics of PSAs under Shear Loading. **Talk** at 12th European Adhesion Conference (EURADH2018). 5-7 September 2018. Lisbon. Portugal.
5. **M. Ciccotti**, J. Chopin, R. Villey, E. Barthel, C. Creton and D.J. Yarusso. Large strain rheology plays a key role in the peeling of a soft adhesive. **Talk** at European Solid Mechanics Conference (ESMC), July 2-6, 2018. Bologna, Italy.
6. **M. Ciccotti**, J. Chopin, R. Villey, E. Barthel, C. Creton and D.J. Yarusso. Large strain rheology plays a key role in the peeling of a soft adhesive. **Poster** at 17th Deformation, Yield and Fracture Polymers, March 26-29 2018, Rolduc Abbey, Kerkrade, The Netherlands.

7. J. Chopin, R. Villey, D. Yarusso, E. Barthel, C. Creton and **M. Ciccotti**, Peeling of soft adhesives: large strain rheology is the key. **Talk** at APS March Meeting. March 5-9, 2018. Los Angeles (CA). USA.
8. H.K. Minsky, D.J. Yarusso, C. Creton and **M. Ciccotti**. Failure mechanisms of PSAs under shear loading. **Talk** at 41st Annual Meeting of The Adhesion Society, February 25th-March 1st, 2018, San Diego (CA) USA.
9. A. Fleury, C. Creton, E. Barthel and **M. Ciccotti**. Dissipative mechanisms in foamed tape debonding. **Talk** at 41st Annual Meeting of The Adhesion Society, February 25th-March 1st, 2018, San Diego (CA) USA.
10. R. Villey, V. Pandey, M. Ciccotti, C. Creton. Advances in Peeling Micromechanics of Soft Adhesives. **Talk** at Euradh. September 2017.
11. **M. Ciccotti**, Y. Nziakou, G. Fischer, B. Bresson, JL. Halary, M. George, C. Genix, S. Roux. Micromechanisms of fracture propagation in glassy polymers. **Talk** at 10th International conference on Mechanics of Time Dependent Materials, May 17th-20th 2016, Paris, France.
12. P. Elzière, E. Barthel, M. Ciccotti, C. Creton and C. Dalle-Ferrier. Laminated glass: dynamic rupture of adhesion. **Talk** at 10th International conference on Mechanics of Time Dependent Materials, May 17th-20th 2016, Paris, France.
13. **M. Ciccotti**, R. Villey, B. Saintyves, T. Jet, C. Creton, P.P. Cortet, D. Yarusso, L. Vanel, MJ. Dalbe, S. Santucci. Rate-dependent elastic hysteresis during the peeling of Pressure Sensitive Adhesives. **Talk** at 10th International conference on Mechanics of Time Dependent Materials, May 17th-20th 2016, Paris, France.
14. **M. Ciccotti**. Influence of large strain rheology on the debonding of a soft adhesive. **Talk** at Workshop on Capillarity of Soft Interfaces. November 2-6 2015. Lorentz Center, Leiden, Netherlands.
15. **M. Ciccotti**, Y. Nziakou, G. Fischer, B. Bresson, JL. Halary, M. George, C. Genix, S. Roux. Micromechanisms of fracture propagation in glassy polymers. **Talk** at 16th Deformation, Yield and Fracture Polymers, March 29 to April 2, 2015, Rolduc Abbey, Kerkrade, The Netherlands.
16. R. Villey, C. Creton, D.J. Yarusso, P.P. Cortet and **M. Ciccotti**. Influence of large strain rheology on the peeling performances of Pressure Sensitive Adhesives. **Talk** at APS March Meeting. March 2-6, 2015, San Antonio, USA.
17. MJ. Dalbe, R. Villey, B. Saintyves, **M. Ciccotti**, P.P. Cortet, S. Santucci, L. Vanel. Competition between adhesion and inertia during stick-slip peeling of adhesives. **Talk** at APS March Meeting. March 2-6 2015, San Antonio, USA.
18. **M. Ciccotti**, R. Villey, B. Saintyves, T. Jet, C. Creton, P.P. Cortet, D. Yarusso, L. Vanel, MJ. Dalbe, S. Santucci. Rate-dependent elastic hysteresis during the peeling of Pressure Sensitive Adhesives. **Talk** at 38th Annual Meeting of The Adhesion Society, February, 20-25th, 2015, Savannah (GA) USA.
19. C. Brun, **M. Ciccotti**, G. Tessier, D. Vandembroucq. Frozen capillary waves on glass surfaces: The impact of a flow. **Talk** at 23rd International Congress on Glass. 1-5 Juillet 2013, Prague, République Tchèque.
20. **M. Ciccotti**, G. Pallares, M. George, F. Lechenault, C.L. Rountree, S. Roux. AFM studies of the limit of elasticity in silica glass. **Oral presentation** at International Congress on Glass. September 20-25, 2010. Bahia, Bresil.

21. M. George, L. Ponson, G. Pallares, A. Grimaldi, C. Kumar and **M. Ciccotti**. 3D stress field near crack tips in glass investigated through AFM, Optical Profilometry and 3D Finite Element Models. **Poster** at MRS Spring Meeting, San Francisco, CA, USA, 13-17 April 2009.
22. **M. Ciccotti**, M. George, G. Pallares, A. Grimaldi, L. Ponson, Mechanical effects of a liquid condensate at crack tip in DCDC specimen, **Oral presentation** at International conference of fracture, Ottawa, Canada, 12-17 July 2009.
23. G. Pallares, C.L. Rountree, C. Ottina, D. Bonamy, **M. Ciccotti**, et E. Bouchaud. Humidity influence on the fracture of glasses at the nanometer scale, **Oral presentation** at International Conference of Fracture 12, Ottawa, Canada, 12-17 July 2009.
24. **Ciccotti M.** et George M.. Contribution of nanomechanical measurements to modelling glass fracture properties. **Oral presentation** at Materials science and engineering (MSE 2008). Nuremberg, Allemagne, 1-4 September 2008.
25. M. George, A. Grimaldi, G. Pallares, L. Ponson, C. Marlière and **M. Ciccotti** Mechanical effects of a nanometric liquid condensate at crack tip in DCDC specimen. **Oral presentation** at ECF 17 European Conference on Fracture. Brno, Czech Republic, 2-5 September, 2008.
26. A. Grimaldi, G. Pallares, L. Ponson, C. Marlière, M. George and **M. Ciccotti** Mechanical effects of a nanometric liquid condensate at crack tip in DCDC specimen. **Oral presentation** at The 9th ESG Conference Glass The Challenge for the 21st Century. Trencin, Slovakia, 22-26 June 2008.
27. **Ciccotti M.**, George M., Grimaldi A., Pallares G., Marlière C.. Equilibrium condition and physico-chemical effects of capillary condensation of water at crack tips in oxide glasses in moist air. **Oral presentation** at 4th International Workshop on Flow and Fracture of Advances Glasses, Shiga, Japan, 4-7 november 2007.
28. **Ciccotti M.**, George M., Grimaldi A., Pallares. G., Charlaix E. and Marlière C., Wetting phenomena at the nanoscale inside sharp cracks in silica glasses. **Poster** at STATPHYS23. Genova, Italy, July 9-13 2007.
29. P.-P. Cortet, **M. Ciccotti** and L. Vanel. Imaging the stick–slip peeling of an adhesive tape under a constant load. **Poster** at STATPHYS23. Genova, Italy, July 9-13 2007.
30. **Ciccotti M.**, George M., Grimaldi A., Wondraczek L. and Marlière C., Modelling the effect of capillary condensation of water at crack tips in oxide glasses. **Oral presentation** at the International Congress on Glass, Strasbourg, France, July 1-6 2007.
31. **Ciccotti M.**, George M., Ranieri V., Wondraczek L., Dittmar A., Oelgardt C., Célarié F. and Marlière C. Dynamic condensation of water at crack tips in oxide glasses. **Oral presentation** at XI International Conference on the Physics of Non-Crystalline solids. 28/10/2006-03/11/2006, Rhodes, Grece.
32. Kumar J., De R., **Ciccotti M.** and Ananthakrishna G. Unfolding the hidden order in acoustic emission data in the peeling of an adhesive tape. **Oral presentation** at the conference : Multiscale Material Modeling, September 18-22, 2006. Freiburg, Germany.
33. **Ciccotti M.**, George M., Wondraczek L., Célarié F. and Marlière C. Nanomechanics of slow crack propagation in oxide glasses. **Oral presentation** at 16th European Conference on Fracture. July 3-7 2006. Alexandroupolis, Greece.

34. George M., **Ciccotti M.**, Wondraczek L., Dittmar A., Oelgardt C., Célarié F. and Marlière C. Formation and evolution of a confined liquid condensate at the crack tip in glasses. **Oral presentation** at the conference Fractography of Glasses and Ceramics V. July 9-12 2006. Rochester, NY (USA).
35. Célarié F., **Ciccotti M.**, George M. and Marlière C. Effect of stress gradient at the vicinity of a crack tip on ionic diffusion in silicate glasses: an AFM study. **Oral presentation** at the conference Fractography of Glasses and Ceramics V. July 9-12 2006. Rochester, NY (USA).
36. **Ciccotti M.**, George M., Marlière C., 2005. Nanomechanics of slow crack propagation in glasses. **Poster** at the 3rd International Workshop on Flow and Fracture of Advances Glasses, State College, PA, USA, 2-5 October 2005.
37. Célarié F., **Ciccotti M.**, Marlière C., 2005. A Study of the vicinity of a crack tip at nanometer scale enhanced nano migration-of ions in silicate glasses. **Oral Presentation** at the 5th international conference and 7th annual general meeting of the European Society for Precision Engineering and Nanotechnology. Le Corum, Montpellier, France, 8-11 May 2005.
38. **Ciccotti M.**, Castellaro S. and Mulargia F., 2003. Very low strain rate damage evolution monitored by acoustic emissions. **Talk and poster**. EURO-Conference on Rock Physics and Geomechanics. Kijkduin, The Netherlands, 7-11 September 2003.
39. **Ciccotti M.**, Mulargia F. and Almagro R., 2003. Static and dynamic measurements of the elastic moduli in a typical seismogenic rock of Italy and in a lava rock from Mount Etna volcano. **Poster**. EGS-AGU-EUG Joint Assembly 2003. Nice, France, 6-11 April 2003.
40. Vallet D., **Ciccotti M.**, Giorgini B. and Barquins M., 2002. The stick-slip dynamics in the peeling of an adhesive tape. **Oral Presentation** at EUROCOAT 2002 Congress, International Exhibition & Congress for the paint, Pigment, Varnish, Printing Ink, Glue & Adhesive Industries. Barcelona, Palau Sant Jordi (Spain), 4-6 June 2002.
41. Vallet D., **Ciccotti M.**, Giorgini B. and Barquins M., 2002. The stick-slip dynamics in the peeling of an adhesive tape. **Oral Presentation** at Swiss Bonding 2002 - 16th International Symposium Bonding and Sealing Technology. ITR Rapperswill, Switzerland, 27-29 May 2002.
42. Barquins M., **Ciccotti M.**, Giorgini B., Vallet D., 2001. A complex dynamics in the peeling of an adhesive tape. **Oral Presentation** at the international congress: Determinism, holism and complexity, tenuto al Castello Aldobrandesco di Arcidosso, Italia, 3-8 September 2001.
43. **Ciccotti M.**, 2000. Critical rupture in the laboratory. **Oral Presentation** at ARW2000: State of scientific knowledge regarding earthquake occurrence and implications for public policy. Arbus, Sardinia, Italy, 15-19 Octobre, 2000
44. Mulargia F., **Ciccotti M.**, Castellaro S. and Gonzato G, 2000. A very low strain rate rupture experiment. **Oral Presentation** at EGS2000: European Geophysical Society. XXV General Assembly. Nice, France, 25-29 April 2000.
45. Gonzato G., **Ciccotti M.** and Mulargia F., 2000. Fractal dimension of river patterns: a geological context-recognition technique. **Oral Presentation** at EGS2000: European Geophysical Society. XXV General Assembly. Nice, France, 25-29 April 2000.

46. **Ciccotti M.**, Gonzato G. and Mulargia F., 2000. An improved methodology for the double torsion load-relaxation method. **Oral Presentation** at EGS2000: European Geophysical Society. XXV General Assembly. Nice, France, 25-29 April 2000.
47. Gonzato G., Mulargia F. and **Ciccotti M.**, 1999. Other potential sources of bias measuring fractal dimension through box counting. **Oral Presentation** at EGS99: European Geophysical Society. XXIV General Assembly. The Hague, The Netherlands, 19-23 April 1999.
48. **Ciccotti M.**, Negri N., Gonzato G. and Mulargia F., 1999. The double torsion loading configuration: a detailed numerical study. **Oral Presentation** at EGS99: European Geophysical Society. XXIV General Assembly. The Hague, The Netherlands, 19-23 April 1999.
49. **Ciccotti M.**, 1998. A Wavelet application in the analysis of fracture mechanics data. Presentazione orale e pubblicazione negli atti della International Wavelet Conference - Tangier 98, 13-17 Aprile 1998.
50. **Ciccotti M.**, 1996. On the kinetics of peeling of an adhesive tape under a constant imposed load. **Oral Presentation** at the Workshop: Complexity and Chaos, Institute for Scientific Interchange, Torino (Italia), 1-12 Luglio 1996.

Lectures in national conferences and congresses:

1. **M. Ciccotti**, P. Elziere, E. Barthel, C. Creton, C. Dalle-Ferrier. Large Strain Viscoelastic Dissipation during Interfacial Rupture of Laminated Glass. **Talk** at Soft Matter Days. July 26-27 2017. Gif sur Yvette.
2. **M. Ciccotti**, P. Elziere, E. Barthel, C. Creton, C. Dalle-Ferrier. Dynamic Rupture of Adhesion in a Laminated Glass. **Talk** at Journées Revelor, 26-27/01/2017, Nancy.
3. P. Elzière, E. Barthel, **M. Ciccotti**, C. Dalle-Ferrier. Rupture dynamique d'adhésion dans une structure feuilletée. **Talk** at 18^e JADH. 27/09-02/10 2015. Najac, Aveyron.
4. R. Villey, C. Creton, P.P. Cortet, M.J. Dalbe, T. Jet, B. Saintyves, S. Santucci, L.Vanel, D.J. Yarusso and **M. Ciccotti**. Hystérèse élastique lors du pelage d'adhésifs autocollants. **Talk** at 18^e JADH. 27/09-02/10 2015. Najac, Aveyron.
5. **M. Ciccotti**. Rate-dependent elastic hysteresis during the peeling of Pressure Sensitive Adhesives. **Talk** at Soft Matter Days. July 2-3 2015. Gif sur Yvette.
6. Y. Nziakou, M. George, A.C. Genix, J.L. Halary, **M. Ciccotti**. AFM investigation of slow crack propagation in polymer glasses. **Talk** at the conference Matériaux 2014. 24-28 November 2014, Montpellier.
7. **M. Ciccotti**. Dissipation mechanisms in the peeling of soft adhesives. **Présentation orale** au GDR MePhy: Workshop on Adhesion/Friction of Soft Materials. September 29 2014, ESPCI, Paris.
8. Y. Nziakou, B. Bresson, A.C. Genix, M. George, **M. Ciccotti**, J.L. Halary. Multiscale investigation of slow crack propagation in polymer glasses. **Poster** at the conference DEPOS25. March 26-28 2014, Giens.
9. Y. Nziakou, B. Bresson, A.C. Genix, M. George, **M. Ciccotti**, J.L. Halary. AFM investigation of slow crack propagation in polymer glasses. **Talk** at 17^{ème} Forum de Microscopies à Sonde Locale. March 17-21 2014, Montauban, France.

10. **M. Ciccotti**. Crack closure driven by Laplace pressure in glass. GDR MePhy: Elastocapillarity. 8 February 2013, ESPCI, Paris.
11. M. George and **M. Ciccotti**. Effets d'environnement sur le comportement mécanique et la dégradation des matériaux. Colloque national MECAMAT. Aussois. 21-25 January 2013.
12. M. George, A. Grimaldi, G. Pallares, C. Marlière and **M. Ciccotti**. Adhésion capillaire en tête de fissure dans un verre: étude par imagerie de phase AFM. **Oral presentation** at Forum des microscopies à sonde locale 2007, Troyes, France, Mars 26-29 2007.
13. **Ciccotti M.**, George M., Célarié F. and Marlière C. Étude par AFM des mécanismes de corrosion sous contrainte du verre. **Oral presentation** at the joint meeting of Union pour la Science et la Technologie Verrières and GDR Matériaux Vitreux. Montpellier, France, June 8-9 2006.
14. **Ciccotti M.**, George M., Célarié F. and Marlière C. Nanomechanics of slow crack propagation in glasses. **Poster** at Forum des microscopies à sonde locale 2006, Autrans, France, Mars 27-31 2006.
15. Célarié F., **Ciccotti M.**, George M. et Marlière C. Diffusion ionique sous contrainte en tête de fissure : étude par AFM de verres sodo-silicatés. **Oral presentation** at Forum des microscopies à sonde locale 2006, Autrans, France, Mars 27-31 2006.
16. **Ciccotti M.**, George M., Marlière C.. Nanomécanique de la propagation lente de fractures dans les verres. **Poster and invited oral présentation** at the joint meeting of Union pour la Science et la Technologie Verrières and GDR Matériaux Vitreux. Bourg la Reine, France, 20-21 October 2005.
17. **Ciccotti M.**, Célarié F., Dittmar A., Oelgardt C., Wondraczek L., and Marlière C. Quid de l'observation en volume des cavités d'endommagement créés lors de la propagation lente d'une fissure dans un matériau vitreux ? **Oral Presentation** at Forum des microscopies à sonde locale 2005, Anglet, France, 29-31 Mars 2005.
18. **Ciccotti M.**, Giorgini B., Barquins M., Vallet D., 2004. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. **Oral Presentation** at 9ème réunion du Club Fissures : Mécanismes de Fissuration. CEA Saclay. 13 October 2004.
19. Vallet D., **Ciccotti M.**, Giorgini B., Barquins M., 2001. La dynamique de Stick-Slip dans le pelage d'un ruban adhésif. **Oral Presentation** at 4ème Rencontre du Non-Linéaire. Institut Henry Poincaré, Paris, France, 15-16 Mars 2001.
20. Mulargia F., **Ciccotti M.** and Castellaro S., 2001. Static and dynamic elastic constants. **Poster**. GNV Annual assembly. Rome 9-11 September 2001.
21. **Ciccotti M.**, Castellaro S. e Mulargia F., 2001. Costanti elastiche statiche e dinamiche. **Talk**. Workshop on the coordinated project GNV-POSEIDON. Catania 19-20 July 2001.
22. Gonzato G., **Ciccotti M.** e Mulargia F., 1999. Si fa presto a dire invarianza di scala. **Talk**. 18th GNGTS annual meeting.
23. **Ciccotti M.**, Gonzato G. e Mulargia F., 1999. La propagazione stabile e controllata di fratture in laboratorio. **Talk**. 18th GNGTS annual meeting.
24. **Ciccotti M.**, 1999. Le Deroulement du Scotch. **Talk**. Journée du Laboratoire de Physique et Mecanique des Milieux Hetherogenes. 16/2/1999. Ecole Superieure de Physique et Chimie Industrielle de la Ville de Paris. Chaired by Nobel price P. G. de Gennes.

Further Workshops and International Schools:

1. Journées d'études on Fragmentation of solids. May 21-22 2013. Marseille.
2. Fall School of GRD Matériaux Vitreux : « Glass surfaces ». Dourdan, France, September 9-11 2008.
3. 8th ESG Conference : « Glass, The art of Science » along with the annual meeting of the ICG and SGT, September 10-14 2006. Sunderland, UK.
4. 12ème Colloque sur les cristaux liquides, 13-16 September 2005, Montpellier.
5. Ecole thématique CNRS : Nanosciences et sondes locales. Anglet, France, 1-5 April 2005.
6. 3^{ème} rencontre du PPF : « Dynamique des Systèmes Complexes » of the Université Grenoble I, 6-7 December 2004, Pinsot, Massif de Belledonne, France.
7. ERMES - Earthquake mechanics, Earth structure and related problems. 22nd Course of the International School of Geophysics. EMFCSC, Erice, Sicily, 1-8 August 2002.
8. EAGE2002 Symposium. New Technologies for Land Monitoring: from Digital Elevation Models to Subsidence Estimation. 27 May 2002. Florence, Italy.
9. Natural and Anthropogenically Induced Hazards. Euresco Conference. 24-29 June 2000. Acquafredda di Maratea, Italy.
10. International Wavelet School. July 1998. Orsay, Paris, France.
11. Workshop ``Complexity and Chaos'', Institute for Scientific Interchange, Torino (Italy), 1-12 July 1996.

Seminars :

1. Micromechanisms of fracture propagation in glassy polymers. April 21st, 2017. Laboratoire PMMH. ESPCI Paris.
2. Rate-dependent elastic hysteresis during the peeling of Pressure Sensitive Adhesives, 21/01/2015. Laboratoire de Physique Statistique de l'ENS, Paris.
3. La fracture du verre à l'échelle nanométrique. 22/11/2011. Laboratoire JLRDA. Université Paris VI, France.
4. La fracture du verre à l'échelle nanométrique. 28/04/2011. Saint Gobain Recherche. Aubervilliers. France.
5. La fracture du verre à l'échelle nanométrique. 03/12/2010. Laboratoire PMMH. ESPCI. Paris
6. Nanomechanics of slow crack propagation in glasses. 29/11/2010. Laboratoire Gulliver. ESPCI. Paris
7. Étude par AFM du rôle de l'eau dans les mécanismes de fracture lente des verres. 18/06/2009. PPMD, ESPCI, Paris.
8. The role of water in the stress corrosion mechanism of glasses. 19/08/2008. S3 Center, Modena, Italy.
9. Étude par AFM du rôle de l'eau dans les mécanismes de fracture lente des verres. 19/06/2008. ENSAM, Lille.
10. Étude par AFM du rôle de l'eau dans les mécanismes de fracture lente des verres. 20/09/2007. Saint Gobain Recherche, Aubervilliers.
11. Étude par AFM du rôle de l'eau dans les mécanismes de fracture lente des verres. 02/02/2007. LPMCN – UCB Lyon I.

12. Nanomeccanica della propagazione lenta di fratture nei vetri di silice. 11/04/2006. Département de Physique, Université de Bologne, Bologne, Italie.
13. Real-time observation on non-equilibrium liquid condensate confined at tensile crack tips in oxide glasses. 07/10/2005. NIST. Gaithersburg, MD, Etats-Unis.
14. Nuove osservazioni sulla fisica della fratturazione lenta della silice amorfa. 26/10/2005. INGV. Roma, Italie.
15. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 13/01/2005. LPPMD-ESPCI, Paris.
16. Dynamique complexe dans le pelage d'un ruban adhésif. 01/10/2004. Université Lyon I, Lyon.
17. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 11/05/2004. LPS, ENS, Paris.
18. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 04/05/2004. IUSTI, Université de Aix-Marseille.
19. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 30/04/2004. GPS, Université Paris 6, Paris.
20. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 30/03/2004. LCVN, Université de Montpellier 2.
21. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 11/11/2001. Laboratoire de Physique. ENS-Lyon.
22. La dynamique de stick-slip dans la propagation d'un front de fracture sur une interface adhésive. 31/10/2001. Département de Physique, Université de Bologne, Italie.
23. Analisi approfondita del metodo di Double Torsion per lo studio della propagazione subcritica di fratture in rocce laviche, 13/12/2000. Département de Physique, Université de Bologne, Italie.