

Curriculum Vitae

CEDRIC SAUZEAT

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Section 1. Curriculum Vitae

1.1. Personal data

SAUZEAT Cédric

Birthdate :

Nationality

Ingénieur Divisionnaire des TPE, grade 6 since 23/2/2020

1.2. Professional contact

Laboratoire de Tribologie et Dynamique des Systèmes UMR CNRS 5513 (LTDS)

Ecole Nationale des Travaux Publics de l'Etat

Rue Maurice Audin, F69518 Vaulx-en-Velin

Directeur du LTDS : J.-L. Loubet (Ecole Centrale de Lyon)

Tel.

Fax

Email : cedric.sauzeat@entpe.fr

1.3. Education and diploma

1 juil.2016 **Habilitation à Diriger des Recherches** de l'Université Claude Bernard de Lyon, spécialité Génie Civil

« Comportement thermomécanique des matériaux et des structures pour les infrastructures routières et ferroviaires »

1998-2003 **Civil Engineering PhD** of Doctoral School MEGA of Lyon (Université Claude Bernard de Lyon – Ecole Centrale de Lyon – INSA Lyon – ENTPE)

« Etude du comportement du sable en petites et moyennes déformations : rotations d'axes et effets visqueux », defended on 23rd jan. 2003, under the supervision of H. Di Benedetto à l'ENTPE

1996-1997 **Master degree (Diplôme d'Etudes Approfondies)** (double cursus) Soils, Materials, Structures and Building Physics, in common with INSA, Ecole Centrale, ENTPE and Université Lyon I., with honours (top of the class).

1994-1997 **Civil Engineer Diploma “Ingénieur des Travaux Publics de l'Etat”**
Specialty Soils, Structures, Materials in 3rd year

1.4. Languages

English courant, german débutant

1.5. Professional career

2012 to now **Researcher** at Laboratory of Tribology and Dynamics Systems (UMR CNRS 5513) of the Ecole Centrale de Lyon, the Ecole Nationale des Ingénieurs de Saint-Etienne and ENTPE

2003-2011 **Researcher** at Civil Engineering and Building Laboratory of ENTPE (URA CNRS 1652, then FRE 3237 until end of 2011)

1998-2003 **PhD student** at Civil Engineering and Building Department of ENTPE

1997-1998 National service (10 month) in the regiment “21^{ème} régiment de camp à Canjuers (83)”

1994-1997 **Civil servant engineer student** of ENTPE

1991-1994 **Preparatory class** (intensive foundation degree), Mathematics option

Section 2. Research Activities

Scientific production summary

- 77 publications in peer reviewed international journal (70 indexed in *Web of Science* in February 2021, h-index=24)
- 9 participations in books and book chapters (2 indexed in *Web of Science*)
- 80 publications in peer reviewed conferences proceedings (18 indexed in *Web of Science*)
- 22 others publications (national journal or conferences without proceedings)
- 28 PhD co-supervision (23 defended, 5 ongoing)
- 58 co-supervised Master/Engineer degree
- Member of 25 PhD defense juries and 2 HDR (“Habilitation à Diriger des Recherches”) defense juries

Distinctions

2 awarded papers :

- Award of the best scientific paper Road Materials and Pavement Design of 2007
DI BENEDETTO H., NEIFAR M., SAUZÉAT C., OLARD F. Three-dimensional thermo-viscoplastic behaviour of bituminous materials: the DBN model. Road Materials and Pavement Design, Vol.8 (2), pp. 285-316, 2007
- Materials and Structures : Outstanding paper 2016
Perraton D., Di Benedetto H., Sauzeat C., Hofko B., Graziani A., Nguyen Q.T., Pouget S., Poulidakos L.D., Tapsoba N., Grenfell J. 3Dim experimental investigation of linear viscoelastic properties of bituminous mixtures. Materials and Structures, 49(11), 4813-4829, 2016.

2 awarded conference papers :

- Award of the best paper of RILEM Symposium Stockholm 2013
NGUYEN Q.T., DI BENEDETTO H., SAUZÉAT C. Prediction of linear viscoelastic behaviour of asphalt mixes from binder properties. Int. RILEM Symposium Symposium on Multiscale Characterization and Modeling of Infrastructure Materials, Stockholm, 2013
- Excellent Paper Award of 4th ISAP APE Symposium, Tokyo, 2017
PEDRAZA A., DI BENEDETTO H., SAUZÉAT C., POUGET S. 3D linear viscoelastic behaviour of bituminous mixtures with high content of reclaimed asphalt pavement recycled 3 times. ISAP APE Symposium 2017, Tokyo, 2017.

2 prizes :

- Special prize from jury “Charles Pary” of the French Committee of PIARC 2008
POUGET S., SAUZÉAT C., DI BENEDETTO H., OLARD F. Modélisation tridimensionnelle du comportement visco-élastique linéaire des enrobés bitumineux: outil pour la conception des chaussées. 2008.
- 2e Innovation Prize of French Committee of PIARC 2010
POUGET S., SAUZÉAT C., DI BENEDETTO H., OLARD F. Advanced calculation tool for pavement design: application to surfacing of orthotropic steel deck bridge, World Road Association congress (PIARC), Mexico City, 2011.

Journal Board

« Board member » since 2008, of the international journal Road Materials and Pavement Design, indexed in Web of Science (ISSN : 1468-0629 *print*, 2164-7402 *online*)

Reviewing activities

Reviewer for international journal, indexed in *Web of Science* :

- since 2008, Road Materials and Pavement Design (Taylor & Francis, ISSN : 1468-0629 *print*, 2164-7402 *online*)
- since 2011, Materials and Structures (Springer, ISSN : 1359-5997 *print*, 1871-6873 *online*)
- since 2013, European Journal of Civil Engineering (Taylor & Francis, ISSN : 1964-8189 *print*, 2116-7214 *online*)
- since 2013, Construction and Building Materials (Elsevier, ISSN : 0950-0618)
- since 2014, Strain (John Wiley & Sons Ltd, ISSN : 0039-2103 *print*, 1475-1305 *online*)
- since 2015, International Journal for Numerical and Analytical Methods in Geomechanics (John Wiley & Sons Ltd, ISSN: 0363-9061 *print*, 1096-9853 *online*)

Reviewer for International Conferences :

- SIIV Roma : 5th International Congress Società Italiana Infrastrutture Viarie, 29-31 oct 2012, Rome
- RILEM2012 : 7th RILEM International Conference on Cracking in Pavements, 20-22 juin 2012, Delft, Netherlands
- EATA2013 : 5th conference of European Asphalt Technology Association, 3-5 juin 2013, Braunschweig, Germany
- EATA2015 : 6th conference of European Asphalt Technology Association, 15-17 juin 2015, Stockholm, Suède
- 3rd APE ISAP Symposium : 16 aout 2015, Sun City, Afrique du Sud
- SIB 2015 : 8th International RILEM Symposium « Testing and Characterization of Sustainable & Innovative Bituminous Materials », 7-9 octobre 2015, Ancona, Italy
- Transportation Research Board 2016 : 10-14 janvier 2016, Washington D.C., Etats-Unis

International association board

Membre of the Steering Group of « European Asphalt Technologists Association (EATA) » since 2019

International scientific society

Senior Membre (n° 8905) of the international scientific society RILEM since 2011 and participation to the technical committees:

- 237-SIB: Testing and characterization of sustainable innovative bituminous materials and systems
- 231-NBM (closed): Nanotechnology-based bituminous materials
- 241-MCD (closed): Mechanisms of Cracking and Debonding in Asphalt and Composite Pavements
- 206-ATB (closed): Advanced testing and characterization of bituminous materials (2007-2011)

Convenor of the group TG3 of the Technical Committee RILEM 272-PIM : Phase and Interphase behaviour of bituminous materials

Participation to Jury

Participation to 18 PhD defense juries as PhD co-supervisor and PhD defense juries of :

- J. Van Rompu, Etude du comportement à la fatigue des mastics bitumineux, INSA Lyon – ENTPE, Université de Lyon, 20 décembre 2009 (*jury member*)
- M. Barriera, Technologie à base de nano-capteurs pour le monitoring des routes, Ecole Doctorale de l'Institut Polytechnique de Paris, 18 décembre 2020 (*president of jury*)

Participation to HDR defense jury :

- T. Gabet, Enrobés bitumineux dans les infrastructures de transport durables et innovantes, approche mécanique, Université de Nantes, 10 juillet 2020 (*reviewer*)
- J. Blanc, Instrumentation et comportement des structures routières et ferroviaires : des essais accélérés aux tests sur structures réelles, Université de Nantes, 16 octobre 2020 (*reviewer*)

Conference organisation

Chairman of international conference :

- ISBM Lyon 2020 : International Symposium on Bituminous Materials, 14-16 décembre 2020, Lyon (videoconference)

Organisation committee of two international conferences :

- ISLYON'03 : 3rd International Symposium Deformation Characteristics of Geomaterials, 22-24 Septembre 2003, Lyon
Secretary of the Organizing Committee and co-editor of the proceedings ISLyon '03 : Di Benedetto, Doanh, Geoffroy, Sauzéat, (Eds) « Deformation Characteristics of Geomaterials – Comportement des sols et des roches tendres », Vol.1, 1425 p., Balkema
- EATA2008 : 3rd European Asphalt Technology Association Conference, 14-15 Avril 2008, Lyon
Member of the local organizing committee, of the scientific committee and « Invited editor » of the special issue of the international journal Road Material and Pavement Design (Eds Di Benedetto, Collop, Bahia)

Invited presentation at a conference

- « *Influence of RAP content on complex modulus of asphalt binders and mixes and on binder blending within asphalt mixes* » - SAUZEAT C.
For the workshop “A Step Forward Toward A Better Understanding of the Blending Between Recycled and Virgin Asphalts” organised by the workgroup WG01 on “Hot Recycling of RAP” of the Technical Committee « Asphalt Pavements & Environment (APE) » of International Society of Asphalt Pavements (ISAP) at Raleigh (NC, USA), 1st June 2014
- « *Modelling of Thermo-ViscoElastic behaviour of asphalt mixes* » - SAUZEAT C.
Keynote Lecture at the 4th CITRANS 2017 (Congresso Infraestrutura de Transporte), San Jose (Costa Rica), Jul. 27-28 2017
- « *How to obtain the behaviour of bituminous mixtures from bitumen?* » - SAUZEAT C.
Invited Plenary Keynote Speaker, Brazilian Congress of Rheology, Fortaleza (Brazil), May 19-22 2019