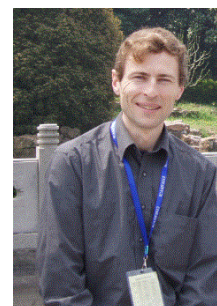


CURRICULUM VITAE

Name **CHALLAMEL**
Noël
Status **Professor – Ing. Dr. Hab.**
Date of birth **December 8 1971 (Paris - FRANCE)**



Professional address University of South Brittany UBS
Institut de Recherche Dupuy de Lôme (IRDL) – UMR CNRS 6027
Centre de Recherche, Rue de Saint Maudé – BP 92116
56321 Lorient cedex - FRANCE
Email : noel.challamel@univ-ubs.fr

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|------------------|---|--------------------|
| 1995 | Civil engineer - CUST | (Clermont-Ferrand) |
| 1995 | Master « Materials – Structures – Reliability » | (Clermont-Ferrand) |
| 1996 | Military service - musician | (Chateaulin) |
| 1999 | PHD at Paris School of Mines | (Paris) |
| 2000/2001 | Research engineer at Gaz de France | (Saint-Denis) |
| 2001/2011 | Associate Professor at INSA of Rennes | (Rennes) |
| 2007 | Habilitation (Accreditation to Supervise Researches) | (Rennes) |
| 2011/2012 | Marie Curie Fellow at University of Oslo | (Oslo) |
| 2011- | Professor of Civil Engineering at UBS | (Lorient) |

BOOKS

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Challamel N., Kaplunov J. and Takewaki I. (Eds), *Modern trends in structural and solid mechanics – Vol. 3 – Non-deterministic mechanics*, ISTE-Wiley, 2021.

Noël Challamel is Professor at University of South Brittany (Université de Bretagne Sud – Lorient, France). He is the head of a research team in Civil Engineering and Multiscale Mechanics. His research at University of South Brittany mainly concerns civil engineering, theoretical and applied mechanics problems, with a particular emphasis on scale effects, structural mechanics, stability, vibrations and material modeling (Continuum Damage Mechanics and Plasticity). He is the co-author of several books in the field of mechanics and civil engineering. He has published over two hundred papers in high standard journals. He is often consulted as a referee in more than 50 international journals in Civil Engineering, Physics or Mechanics. He is member of the editorial board of a dozen of international journals, and is associate editor of the *Journal of Engineering Mechanics* (one of the leading journals published by the American Society of Civil Engineering), and *Mechanics Research Communications*. He is also editor and head of the collection « Solid Mechanics and Mechanical Engineering » published by ISTE Wiley. He is also chairman of the EMI Stability Committee (ASCE).

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101. Massoumi S., Challamel N. et Lerbet J., Wave dispersion analysis of discrete granular chains: discrete versus non-local approaches, ASCE-EMI 2019, 3-5 July 2019, Lyon, France.
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112. Picandet V. and Challamel N., Diffusion thermique non locale dans un réseau périodique unidimensionnel, Congrès Français de Mécanique, 29 août 2022 – 2 septembre 2022, Nantes, France.
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119. Challamel N., Atanacković T.M., Zhang Y.P. and Wang C.M., Fractional nonlocal elastic rods, beams and plates for lattice structural systems, Advanced Seminar, Micropolar Continua and beyond, March 29-31 2023, Berlin, Germany.
120. Challamel N., Ruta G., Nguyen H.P., Wang C.M. and Zhang Y.P., On angular and surface elasticity in two-dimensional lattices, 14th International Symposium on Continuum Models in Discrete Systems, 26-30 June 2023, Paris, France.
121. Challamel N., Atanacković T.M., Zhang Y.P. and Wang C.M., On the wave propagation in fractional nonlocal elastic rods, beams and plates, ASCE-EMI 2023, 27-30 August 2023, Palermo, Italy.
122. Lerbet J., Challamel N., Nicot F. and Darve F., Intrinsic incremental discrete mechanics, ICTAM 2024, August 25-30 2024, Daegu, Korea.

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124. Challamel N., Nguyen H.P., Ruta G., Wang C.M. and Zhang Y.P., Modelling plane elasticity via discrete lattices, XXVI Congresso AIMETA, Associazione Italiana di Meccanica Teorica e Applicata, 2-6 September 2024, Naples, Italy.
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127. Keita L., Elishakoff I., Challamel N. and Picandet V., Effect of boundary conditions on buckling of biperiodic elastic columns, 2025 EMI - ASCE Conference, May 27-30 2025, Anaheim, California, USA.
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131. Challamel N., From discrete to continuous elasticity : An emergence of nonlocality, Keynote Lecture, 15th International Symposium on Continuum Models in Discrete Systems, CMDS15 Symposium, 8-12 June 2026, Rome, Italy.
132. Challamel N. and Le Grogne P., Geometrically exact strain gradient Reissner *elastica* – Asymptotic, FDM and FEM analyses, 2026 EMI - ASCE Conference, June 2-5 2026, Boulder, Colorado, USA.
133. Challamel N., Analytical and numerical approaches in nonlocal and peridynamic structural mechanics, Keynote Lecture, International Conference "Emerging Trends in Applied Mathematics and Mechanics", 2-4 September 2026, Lodz, Poland.
134. Koumako K.C., Greco L., Cuomo M., Challamel N., Placidi L. and Picandet V., An objective FE-formulation for Cosserat shells based on spherical Bézier interpolation, 17th World Congress on Computational Mechanics (WCCM), 10th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS), 19-24 July 2026, Munich, Germany.

135. Ruta G., Challamel N., Nguyen H.P. and Wang C.M., Dispersive waves in cubic lattices: a reappraisal of Goursat surfaces, EMI26IC, EMI 2026 International Conference, Napoli, Italy, September 2-4 2026.
136. Ruta G., Challamel N., Nguyen H.P. and Wang C.M., Dispersive waves in cubic lattices with short and long range interactions, ICONSOM, 4th International Conference on Nonlinear Solid Mechanics, 11-18 June 2026, Alghero, Sardinia, Italy.
137. Ruta G., Challamel N., Nguyen H.P. and Wang C.M., Asymptotic expansions for the dispersive properties of cubic lattices, XXVII National Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA), 7-10 September 2026, Brescia, Italy.

SEMINARS

1. Challamel N., Periodical attractors in drilling mechanics : a rock mechanics point of view, University of Minnesota, 3 march 2000, invited by E. Detournay.
2. Challamel N., Exemples de stabilité de structures géomécaniques, INPG, Grenoble, 30 novembre 2000, invited by F. Darve.
3. Challamel N., Quelques exemples d'application de l'analyse limite dans l'industrie Gazière, Direction de la recherche de Gaz de France, Saint-Denis, 27 février 2001.
4. Challamel N., Stability in geomechanics : an elasticity contribution, *ALERT Workshop on quasi-brittle materials*, 8 octobre 2001, Aussois, 2001.
5. Chairman of a lecture session on *Damage Mechanics* at the 21st Congress of Theoretical and Applied Mechanics in Warsaw, 2004.
6. Challamel N., Stability and dynamics of some inelastic oscillators, EGIM, LMA, Marseille, 18 October 2005, invited by S. Bourgeois.
7. Chairman of a lecture session on *Dynamics of inelastic oscillator* at the 1st International Conference on Computational Dynamics and Earthquake Engineering, in Rethymno, 2007.
8. Challamel N., The cantilever beam: a structural paradigm, University of Rennes 1, Seminar of Mechanics, IRMAR, 15 September 2008, Rennes, invited by M. Buisson.
9. Challamel N., On the stability of non-conservative elastic systems under mixed loading, UNESCO, 23 octobre 2008, Paris, invited by E. Absi.
10. Challamel N., Influence of the loading mode on stability of structures, GDR, Thematic seminar, "Failure mechanisms in geomechanics, role of the microstructure", Grenoble, 11 mars 2009, invited by F. Nicot.
11. Challamel N., A contribution to the elastic and inelastic stability of beams with full cross section, Bordeaux, 27 mars 2009, invited by P. Castéra.

12. Chairman of a lecture session on *Stability of Solids and Structures* at the ASCE-ASME Conference, June 24-27 2009, Blacksburg, Virginia, Virginia Tech, USA.
13. Chairman of a lecture session on *Stability of Solids and Structures* at the ASCE Conference, August 8-11 2010, Los Angeles, California, USA.
14. Challamel N., Quelques exemples de stabilité et de rupture de poutres en génie civil, Grenoble, INPG, 27 septembre 2010, invited par V. Richefeu.
15. Challamel N., On the need of nonlocal mechanics in civil engineering, University of Umeå, Sweden, 24 November 2010, invited by U.A. Girhammar.
16. Challamel N., Sur l'intérêt des approches non-locales en génie civil, La Rochelle, 17 février 2011, invited by K. Ait Mokhtar.
17. Challamel N., Approches non-locales en théorie de l'élasticité, de l'endommagement et de la plasticité, Lille, 8 mars 2011, invited by J.F. Shao.
18. Challamel N., Quelques problèmes de stabilité élastique et inélastique en mécanique des structures, Compiègne, 24 mars 2011, invited by A. Ouahsine.
19. Challamel N., Quelques modèles de rupture, de stabilité et effets non-locaux, Paris, Jussieu, 5 avril 2011, invited by B. Audoly et J.B. Leblond.
20. Organization of a symposium on "Stability of composite structures" during the 2011 ASCE Conference, June 2-4 2011, Boston, Massachusetts, USA, with D. Camotim, Y. Xiang and J. Xu.
21. Chairman of a lecture session on *Continuum Damage Mechanics* at the French National Congress of Mechanics, Congrès Français de Mécanique, 28 août – 2 septembre 2011, Besançon.
22. Challamel N., Some buckling and strength problems in civil engineering, Oslo, University of Oslo, 7 September 2011, invited by J. Helleland.
23. Organization of a symposium on "Stability of solids and structures" during the 2012 ASCE Conference, June 17-20 2012, University of Notre Dame, Indiana, USA, with P. Qiao, D. Camotim, Y. Xiang and J. Xu.
24. Member of the EMI 2012 Scientific Committee, June 17-20 2012, University of Notre Dame, Indiana, USA.
25. Challamel N., On the use of nonlocal mechanics for nano- and macro- structures, Trondheim, Norwegian University of Sciences and Technology, 23 November 2011, invited by Z. Zhang.
26. Challamel N., Une incursion dans le monde des structures à différentes échelles : du génie civil aux nanotechnologies, Mercredis de la Science, 29 Février 2012, Institut Français d'Oslo, Oslo, Norvège.

27. Challamel N., An introduction into lateral-torsional buckling of elastic beams, 7 march 2012, University of Oslo, Norway, invited by J. Helleland.
28. Challamel N., Quelques modèles d'endommagement appliqués aux matériaux quasi-fragiles, Université de Bretagne Sud, 11 octobre 2012, Lorient, France, invité par P. Pilvin.
29. Challamel N., Les effets d'échelle dans les structures hétérogènes, Université de Bretagne Sud et Université de Bretagne Occidentale, 20 décembre 2012, Lorient et Brest, invité par P. Pilvin.
30. Organization of a symposium on "Stability of solids and structures" during the 2013 ASCE Conference, August 4-7 2013, Northwestern University, Evanston, Illinois, USA, with P. Qiao, D. Camotim, Y. Xiang and J. Xu.
31. Organization of a symposium on "Dynamique des structures - Instabilité" during the 2013 Congrès Français de Mécanique, 26 août – 30 août 2013, Bordeaux, with C. Laborderie, F. Legeron and A. Combescure.
32. Keynote lecture on stability of gradient plasticity systems during the symposium on "Stability of solids and structures" during the 2013 ASCE Conference, August 4-7 2013, Northwestern University, Evanston, Illinois, USA.
33. Challamel N., Du génie civil aux nanotechnologies, Fête de la Science, 11 Octobre 2013, Université de Bretagne Sud, Lorient, France.
34. Organization of a symposium on "Stability of solids and structures" during the 2014 ASCE Conference, August 5-7 2014, Mc Master University, Hamilton, Ontario, Canada, with Y. Xiang, J. Xu and A. Wadee.
35. Challamel N., Une explication mécanicienne des formes, Fête de la Science, 17 Octobre 2014, Université de Bretagne Sud, Lorient, France.
36. Challamel N., On the foundation of nonlocal structural mechanics from discrete elasticity, January 2015, University of Western Sydney, Sydney, 15 January 2015, invited by Prof. Xiang.
37. Challamel N., On the foundation of nonlocal structural mechanics from discrete elasticity, January 2015, University of Queensland, Brisbane, 19 January 2015, invited by Prof. Kitipornchai.
38. Challamel N., Analyse microstructurale pour les systèmes élastiques et inélastiques, Université de Bretagne Sud, 2 juillet 2015, Lorient, France, invité par A. Perrot.
39. Challamel N., Entre matière discrète et matière continue, Nuit de la Science, 9 Octobre 2015, Université de Bretagne Sud, Lorient, France.
40. Challamel N., Some linear and non-linear elasticity lattice problems revisited in the light of nonlocal mechanics, 25 November 2015, University of L'Aquila, L'Aquila, Italia, invited by A. Luongo.

41. Organization of a symposium on “Stability and failure of structures and materials” during the 2016 ASCE Conference, October 25-27 2016, Metz, France, with A. Wadee, Y. Xiang and J. Xu.
42. Challamel N., Quasicontinuum: an intermediate state between discrete and continuous media, 18 May 2016, Budapest University of Technology and Economics, Budapest, Hungary, invited by G. Károlyi.
43. Challamel N., Atelier de mécanique non-locale, Elasticity, Plasticity and Damage, in collaboration with V. Picandet and B. Hérisson, Université de Bretagne Sud, Lorient, 19 Janvier 2017.
44. Challamel N., On lattice-based nonlocal structural mechanics, 23 January 2017, Delft University, Delft University of Technology, The Netherlands, invited by A. Simone.
45. Challamel N., Atelier autour de la modélisation des matériaux biologiques, Modèle non-régulier d'élasticité à déformation limitée, in collaboration with V. Picandet, T. Lecompte, V. Keryvin et A. Le Duigou, Université de Bretagne Sud, Lorient, 9 Mars 2017.
46. Challamel N., Bridging the gap between discrete and continuum structural mechanics through nonlocal approaches, 2 August 2017, University of Queensland, Brisbane, Australia, invited by C.M. Wang.
47. Challamel N., Approches multi-échelles en physique, mécanique et génie civil, Nuit de la Science, 6 Octobre 2017, Université de Bretagne Sud, Lorient, France.
48. Challamel N., From lattice to nonlocal structural mechanics, 8 March 2018, University of Keele, UK, invited by J. Kaplunov.
49. Challamel N., Effets d'échelle en physique, mécanique et génie civil, Nuit de la Science, 5 Octobre 2018, Université de Bretagne Sud, Lorient, France.
50. Challamel N., On the molecular foundation of continuum elasticity, Séminaire de recherche, 27 Octobre 2021, IRDL, Université de Bretagne Sud, Lorient, France.
51. Organization of a symposium on “Durabilité des matériaux et des structures en génie civil” during the 2022 Congrès Français de Mécanique, 29 août – 2 septembre 2022, Nantes, with V. Picandet, A. Khelidj et A. Loukili
52. Challamel N., Réseaux architecturés et architectures de réseaux, Nuit de la Science, 7 Octobre 2022, Université de Bretagne Sud, Lorient, France.
53. Challamel N., Effets de taille dans le monde qui nous entoure, Nuit de la Science, 6 Octobre 2023, Université de Bretagne Sud, Lorient, France.
54. Organization of a symposium on “Instabilities at various scales: Modelling, Analysis and Design” during the 2024 ASCE Conference, September 11-13 2024, Vienna, Austria, with H. Rasheed, A. Wadee, S. Yiatros and C. Völlmecke

55. Challamel N., Une brève histoire des structures litées : poutres et plaques sandwich, Séminaire de recherche, 21 Mars 2024, IRDL, Université de Bretagne Sud, Lorient, France.
56. Challamel N., Matériaux et structures à plusieurs échelles, Nuit de la Science, 4 Octobre 2024, Université de Bretagne Sud, Lorient, France.
57. Organization of a symposium on “Failure to function: Structural stability re-envisioned” during the 2025 ASCE Conference, May 27-30 2025, Anaheim, California, USA, with H. Rasheed, C.W. Lim and S. Yiatros.
58. Organization of a symposium on “Durabilité des matériaux et des structures en génie civil” during the Congrès Français de Mécanique, 25 août 2025 – 29 août 2025, Metz, France, with Jean-Michel Mechling, Vincent Picandet, Gilles Pijaudier-Cabot, and Sandrine Rosin-Paumier.
59. Challamel N., Matériaux intelligents et auto-instabilité, Nuit de la Science, 3 Octobre 2025, Université de Bretagne Sud, Lorient, France.
60. Challamel N., A brief history of layered beam and plate models, 9 December 2025, University of Coimbra, Portugal.
61. Challamel N., Sur un résultat de monotonie en analyse dispersive des ondes dans les milieux discrets, Séminaire de recherche, 18 Décembre 2025, IRDL, Université de Bretagne Sud, Lorient, France.
62. Organization of a symposium on “Stability of structures: Advances across time and scales” during the 2026 ASCE Conference, June 2-5 2026, Boulder, Colorado, USA, with H. Rasheed, C.W. Lim, S. Yiatros and H. Koh.
63. Challamel N., *L’elastica* : un paradigme d’instabilité, Nuit de la Science, 9 Octobre 2026, Université de Bretagne Sud, Lorient, France.

REVIEWING

Review of papers submitted to International Journals (approximately in 50 International Journals).

Review of books (Elsevier, World Scientific Publishing, ISTE-Wiley, Springer)

Top reviewer 2011 in recognition of an outstanding contribution to the quality of *Engineering Fracture Mechanics*

2013 Outstanding reviewer of the *ASCE Journal of Engineering Mechanics*

2013 Certificate of excellence in reviewing papers submitted to *Engineering Structures*.

ASCE Member « *American Society of Civil Engineering* »

Member of the « Nanomechanics and micromechanics » committee of ASCE

Member of the « Stability » committee of ASCE

Past-Chairman of the EMI Stability Committee of ASCE

Chairman of the EMI Stability Committee of ASCE (2025-)

Special Issues (Journals)

Co-editor with Prof. Pizhong Qiao of a special issue of the *Journal of Engineering Mechanics* on “Stability of composite structures” (2013).

Co-editor with Prof. Francesco Dell’Isola and Prof. David Steigmann of a special issue of *Mechanics Research Communications* on “Discrete to Continuous Structures” (2026).

Co-editor with Prof. C.W. Lim of a special issue of *International Journal of Structural Stability and Dynamics* in honour of Prof. J. N. Reddy’s 80th birthday and the 25th anniversary of the journal (2026).

EDITORIAL BOARD FOR SCIENTIFIC BOOKS

Member of the scientific committee MIM « *Mechanics and material engineering* » - Edited by Hermes-Lavoisier

Member of the FOCUS editorial board – Hermes science publishing

Head of the collection « Solid Mechanics and Mechanical Engineering » - ISTE Wiley

EDITORIAL BOARD OF INTERNATIONAL JOURNALS

Member of the editorial board of « *Journal of Engineering Mechanics – ASCE* »

Member of the editorial board of « *The IES Journal Part A : Civil & Structural Engineering* »

Member of the editorial board of « *International Journal of Structural Stability and Dynamics* »

Member of the editorial board of « *Engineering Structures* »

Member of the editorial board of « *Research on Engineering Structures and Materials (RESM)* »

Member of the editorial board of « *International Journal of Earthquake and Impact Engineering* »

Member of the editorial board of « *Vibration* »

Member of the editorial board of « *Acta Mechanica* »

Member of the editorial board of « *Vietnam Journal of Mechanics* »

Member of the editorial board of « *Advances in Applied Mathematics and Mechanics* »

Member of the editorial board of « *Mechanics Research Communications* »

Member of the editorial board of « *International Journal for Computational Methods in Engineering Science and Mechanics* »

Membre du comité éditorial de la revue « *International Journal of Non-linear Mechanics* »

Membre du comité éditorial de la revue « *CivilEng* »

Associate Editor of the « *Journal of Engineering Mechanics* » - ASCE

Associate Editor of the « *Advances in Applied Mathematics and Mechanics* »

Associate Editor of the « *Mechanics Research Communications* »

REVIEWING FOR NATIONAL AND INTERNATIONAL RESEARCH AGENCIES

International reviewer for International Agencies or Academies

Cited in the edition "Who's who in the World 2009 - ".

Cited in the edition "Top 100 Educators 2009 - "

Cited in the edition "Top 100 Engineers 2009 - "

Cited in the edition "International Educator of the year 2009 - "

Cited in the edition "International Engineer of the year 2010 - "

Cited in the edition "Who's who in Science and Engineering 2011 - "

Cited in the edition "American Biographical Institute 2012 - "

Cited in the edition "2000 Outstanding intellectuals of the 21th century 2013 - "

The distinction of being among the **top 2% of scientists worldwide in the field of Mechanical Engineering** according to the **updated science-wide author databases of standardized citation indicators**, created by Stanford University (2023).

Member of ASCE (American Society of Civil Engineering), AUGC (French Society of Civil Engineering), AUM (French Society of Mechanical Engineering), IPACS (International Physics and Control Society), Society of Engineering Sciences, American Nano Society

EMI (Engineering Mechanics Institute) Fellow (2023) - ASCE

Chairman of the EMI Stability Committee (ASCE) (2025-)

Affiliate Professor at Florida Atlantic University (FAU) – USA College of Engineering and Computer Science