

Professor Noël Challamel

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Department of Civil Engineering
 University of South Brittany (UBS), Lorient cedex, France

Biography:

Noël Challamel is Professor at University of South Brittany (Université de Bretagne Sud – Lorient, France). He is the head of the Civil Engineering Department. 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 three books in the field of mechanics and civil engineering. He has published over a 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 9 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. He is also editor and head of the collection « Solid Mechanics and Mechanical Engineering » published by ISTE Wiley.

Education and Career:

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)
2011/2012	Marie Curie Fellow at University of Oslo	(Oslo)
2011-	Professor of Civil Engineering at UBS	(Lorient)

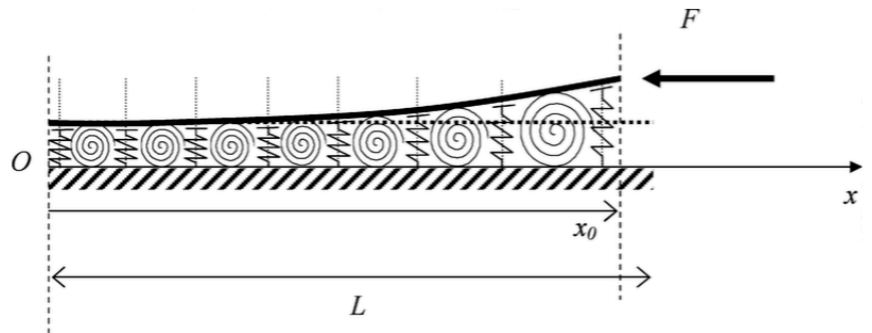


Fig. 1. Elastic beam on Pasternak foundation.

From: Challamel N., On the post-buckling of elastic beams on gradient foundations, C. Rendus Mécanique, 339, 6, 396-405, 2011.

Selected Publications:

Challamel N. and de Buhan P., Mixed modelling applied to soil-pipe interaction, *Computer and geotechnics*, 30, 3, 205-216, 2003.

Challamel N., Lanos C. and Casandjian C., Creep failure in concrete as a bifurcation phenomenon, *Int. J. Damage Mech.*, 14, 5-24, 2005.

Challamel N., Lanos C. and Casandjian C., Localization in the buckling or in the vibration of a two-span weakened column, *Engineering Structures*, 28, 776-782, 2006.

Challamel N., On the comparison of Timoshenko and shear models in beam dynamics, *J. Eng. Mech.*, 132, 10, 1141-1145, 2006.

Challamel N., Lanos C., Hammouda A. and Redjel B., Stability analysis of dynamic ratcheting in elastoplastic systems, *Physical Review E*, 75, 2, 026204, 1-16, 2007.

Challamel N., Lateral-torsional buckling of beams under combined loading - a reappraisal of Papkovitch-Schaefer theorem, *Int. J. Structural Stability and Dynamics*, 7, 1, 55-79, 2007.

Challamel N., Andrade A. and Camotim D., An analytical study on the lateral- torsional buckling of linearly tapered cantilever strip beams, *International Journal of Structural Stability and Dynamics*, 7, 3, 441-456, 2007.

Challamel N., Casandjian C. and Lerbet J., On the occurrence of flutter in the lateral- torsional instabilities of circular arches under follower loads, *Journal of Sound and Vibration*, 320, 617-631, 2009.

Challamel N., Nicot F., Lerbet J. and Darve F., On the stability of non-conservative elastic systems under mixed perturbations, *Eur. J. Env. Civil Eng.*, 13, 3, 347-367, 2009.

Challamel N., An application of large displacement limit analysis to frame structures, *Structural Engineering & Mechanics*, 33, 2, 169-177, 2009.

Challamel N. and Wang C.M., Exact lateral-torsional buckling solutions for cantilevered beams subjected to intermediate and end transverse loads, *Thin-Walled Structures*, 48, 1, 71-76, 2010.

Zhang Y.Y., Wang C.M. and Challamel N., Bending, buckling and vibration of hybrid nonlocal beams, *J. Eng. Mech.*, 136, 5, 562-574, 2010.

Challamel N., Andrade A., Camotim D. and Milisavlevich B.M., On the flexural- torsional buckling of cantilever strip beam-columns with linearly varying depth, *J. Eng. Mech.*, 136, 6, 787-800, 2010.

Challamel N. and Wang C.M., On lateral-torsional buckling of non-local beams, *Advances in Applied Mathematics and Mechanics*, 3, 389-398, 2010.

Challamel N., Meftah S.A. and Bernard F., Buckling of elastic beams on nonlocal foundation: a revisiting of Reissner model, *Mech. Res. Comm.*, 37, 472-475, 2010.

Challamel N., Nicot F., Lerbet J. and Darve F., Stability of non-conservative elastic structures under additional kinematics constraints, *Engineering Structures*, 32, 3086- 3092, 2010.

Challamel N., On the post-buckling of elastic beams on gradient foundations, *C. Rendus Mécanique*, 339, 6, 396-405, 2011.

Challamel N. and Girhammar U.A., Lateral-torsional buckling of vertically layered composite beams with interlayer slip under uniform moment, *Engineering Structures*, 34, 505-513, 2012.

Andrade A., Challamel N., Providência P. and Camotim D., Lateral-torsional stability boundaries for polygonally depth-tapered strip cantilevers under multi-parameter point load systems – An analytical approach, *J. Appl. Mech.*, 79, 061015, 1-11, 2012.

Challamel N. and Helleland J., Buckling of softening columns in a continuum damage mechanics perspective – Local versus non-local formulation, *Eur. J. Mech. A/Solids*, 39, 229-242, 2013.

Challamel N., Kolvik G. and Helleland J., Plate buckling analysis using a general higher order shear deformation theory, *Int. J. Structural Stability and Dynamics*, 13, 5, 1350028, 1-26, 2013.

Challamel N. and Girhammar U.A., Lateral-torsional buckling of sandwich beams, partially composite beams or horizontally layered wood beams under uniform moment, *J. Eng. Mech.*, 139, 8, 1047-1064, 2013.

Challamel N., Wang C.M. and Elishakoff I., Discrete systems behave as nonlocal structural elements: bending, buckling and vibration analysis, *Eur. J. Mech. A/Solids*, 44, 125-135, 2014.

Challamel N., Lerbet J., Wang C.M. and Zhang Z., Analytical length scale calibration of nonlocal continuum from a microstructured buckling model, *Z. Angew. Math. Mech.*, 94, 5, 402-413, 2014.

Picandet V., Challamel N. and Hin S., On the buckling and post-buckling of gradient and nonlocal plasticity structural systems, *Int. J. Solids Structures*, 51, 4052-4067, 2014.

Zhang Z., Wang C.M. and Challamel N., Eringen's length scale coefficient for buckling of nonlocal rectangular plates from microstructured beam-grid model, *Int. J. Solids Structures*, 51, 25-26, 4307-4315, 2014.

Zhang Z., Wang C.M. and Challamel N., Eringen's length scale coefficient for vibration and buckling of nonlocal rectangular plates with simply supported edges, *J. Eng. Mech.*, 141, 2, 04014117, 2015.

Challamel N., Picandet V., Collet B., Michelitsch T., Elishakoff I. and Wang C.M., Revisiting finite difference and finite element methods applied to structural mechanics within enriched continua, *Eur. J. Mech. A/Solids*, 53, 107-120, 2015.