

Sébastien BURLON

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Department – Soils, Rocks and Geotechnical Structures
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Date of birth: 25/03/1980
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Education and Qualifications

2016 University Paris Est, "Habilitation" to supervise researches for Geotechnical Engineering
2007 PhD at the University of Lille (France)
2003 Master degree ENTPE – Geotechnical engineer

Activities: Geotechnical engineering – Soil Mechanics

Research and methodological studies (numerical modelling, soil-structure interaction, cyclic loadings on piles, thermoactive geostructures)
Standardization (Eurocode 7, French standards)
Expertise & Consulting (pile design, underground excavation, thermoactive geostructures, etc.)

Employment history

Since 2011 Research engineer at IFSTTAR, Paris, France
2006-2011 Senior geotechnical engineer for the Ministry of Ecology, Sustainable Development and Transportation, Lille, France
2003-2006 Geotechnical engineer for the Ministry of Ecology, Sustainable Development and Transportation, Lille, France

Teaching experience

University of Lille (100 h), CNAM, ENTPE, ENPC, Lebanese University

Publication overview

Author or co-author of:

- 10 journal papers in ISI journals,
- 3 journal papers in French or English national journals,
- 22 international conference papers,
- 19 national conference papers,
- 4 book chapters.

Five Main Publications

1. Burlon, S., Frank, R., Baguelin, F., Habert, J. and Legrand, S. (2014) Model factor for the bearing capacity of piles from pressuremeter test results A Eurocode 7 approach. *Géotechnique*, 64(7), 513-525.
2. Burlon, S., Mroueh, H. and J., Cao (2014). "Skipped cycles" method for studying cycling loading and soil-structure interface. *Computers and Geotechnics*. 61, 209-220.
3. Rafeh, F., Mroueh, H. and Burlon, S. (2015). Accounting for joints effect on the failure mechanisms of shallow underground chalk quarries. *Computers and Geotechnics*, 69, 247-261.
4. Suryatriyastuti, M.E., Burlon, S. and Mroueh, H. (2015) On the understanding of cyclic interaction mechanisms in an energy pile group. *International Journal for Numerical and Analytical Methods in Geomechanics*, 40(1), 3-24.
5. Bourne Webb, P., Burlon, S., Javid, S., Kuerten, S. and Loveridge, F. (2016) Analysis and design methods for energy geostructures. *Renewable & Sustainable Energy*, 65, 402-419.