

Sandrine Juster-Lermitte

Civil Engineer



Profile

45 years old
Seniority : 1 year, associate
English

Housing and offices

Malls

Industrial buildings

Museum

Bridges - major
infrastructure

Nuclear

ESTP Women Trophy – Prize «Expert Woman » 2019
Member of the standardisation French committees – Eurocode 2 (concrete) and 8 (seismic)
Member of the AFPS council (Earthquake engineering French association)
President of the AFPS Technical comity (2007- 2011)
Lecturer on structural mechanics and earthquake engineering at ESTP Paris
Teaching manager of “Structure” specialization at ESTP

Education

Ph.D. Civil & Earthquake – University of Los Angeles (UCLA)

Majors : civil & earthquake engineering
Minor : geotechnical & mechanical engineering

M.Sc Civil & Earthquake engineering – Los Angeles (UCLA)

Engineering Degree – Civil Engineering Graduate School – ESTP Paris

Non degree program « Leadership & Developing an innovation strategy » – HEC Paris

Professional background

ARCADIS

Technical civil & earthquake Director
In charge of the “complex calculations and model” team

CEA – Saclay

Research engineer in structural / earthquake engineering
Co-project manager of an experimental (shaking table) and analytical studies of a 3 stories nuclear buildings subjected to seismic loadings
Organization of two analytical benchmarks

EIFFAGE – Clichy

Project manager – work execution studies

SETEC – Paris

Project engineer – structural engineer

ARCADIS Bouw & Vastgoed – La Haye (Netherland)

Design engineer
1998-2011 – University of California (UCLA) Research Assistant

University of Los Angeles – California (UCLA)

Teaching and research assistant

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Key areas of expertise

Building and civil engineering

- Structural behaviour:
 - Housing and offices
 - Malls
 - Industrial buildings and facilities Classified for Environmental Protection (ICPE)
 - Museum
 - Bridges - Major infrastructure
 - Nuclear facilities
- Part of the French standardization committee (Eurocode 2 - concrete and Eurocode 8 - seismic)

Expertise

- General design principles
- Design according to current and former French regulation
- Design according to Eurocode and International Building Code
- Dynamic analysis
- Non linear analysis
- Finite element models
- Nuclear civil engineering
- Soil structure interaction
- Fluid structure interaction

Publications

- Earthquake-resistant construction rules — Design of anchorages in earthquake zones – FD P 06-029 – Dec 2017
- AFPS 2020 – Recommendations regarding seismic design in 2020 – Working group in progress – To be published by 2021
- Recommendation to develop Finite Elements model – AFGC - Working group in progress – To be published by 2019
- Simplified design rules for small housing buildings – AFPS
- Design of piles under seismic loadings – AFPS – CT 38
- Recommendation for the seismic design of non-structural elements – AFPS
- FD P 06-031 : Eurocode 8 - Design of structures for earthquake resistance - Application of standards NF EN 1998-1 and NF EN 1998-1/NA
- How to quantify the impact of construction work on existing building under seismic loadings CT 35 – AFPS
- Design of non structural element under seismic loadings-CT36 - AFPS
- Seismic detailing for concrete, steel, wooden and masonry structures according to Eurocode 8 - Presse des Ponts 2011
- Earthquake mission reports for the AFPS : Tohoku, Japan (2011) – Aquila, Italy (2009) and Kashiwasaki, Japan (2007)
- 101 words of engineering for all - Collectif Archibooks