

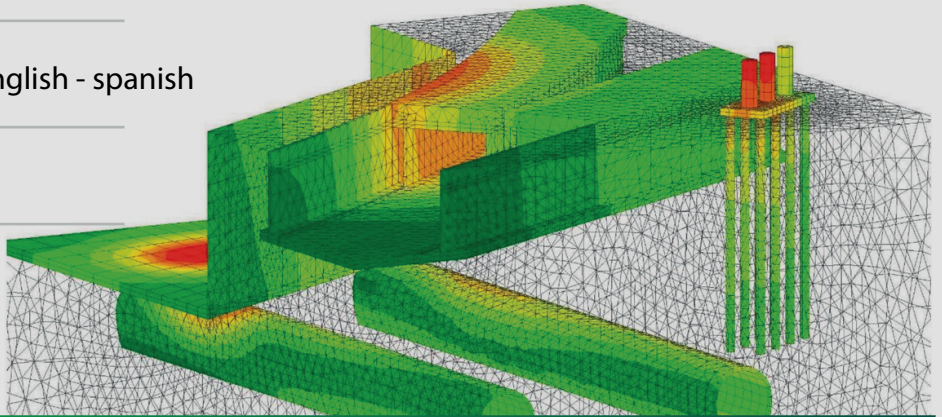
# PRESENTATION OF THE GUIDE "RECOMMENDATIONS FOR THE NUMERICAL MODELLING OF GEOTECHNICAL STRUCTURES"

**REGISTER:** [https://us02web.zoom.us/webinar/register/WN\\_XiXOA6\\_ISpiGU5gYu2J28A](https://us02web.zoom.us/webinar/register/WN_XiXOA6_ISpiGU5gYu2J28A)

**Simultaneous translation:** English - spanish

**MAY 21**

**11:00 HOURS MEXICO  
19:00 HOURS FRANCE**



This webinar presents the guide "Recommendations for the Numerical Modelling of Geotechnical Structures", developed by the French Society for Soil Mechanics and Geotechnical Engineering (CFMS) and recently translated into Spanish in collaboration with the Mexican Society for Geotechnical Engineering (SMIG), and which will be presented for the first time at this event. The session will describe the purpose, scope, and organisation of the document, highlighting its value as a practical reference for the use of numerical methods in geotechnical engineering. Emphasis will be placed on the general principles that enable consistent and rigorous modelling, as well as on its relevance for professional practice. The webinar aims to familiarise participants with the structure of the document and its potential applications, providing a clear starting point to strengthen the use of numerical tools in geotechnical analysis and design, while underscoring the need for this type of reference material in Spanish for application in Mexico and Latin America. The webinar will also be an opportunity for a presentation of the way to use numerical modelling to verify the Ultimate Limit States (that will be included in the revision of the Eurocode 7). The experience of the CFMS in organization numerical modelling challenges as an application of the guide will also be presented.



## SHORT CV FABRICE EMERIAULT

Fabrice Emeriault (Ing, PhD, Hab) is a geotechnical engineering professor in ENSE3 – Grenoble INP – Grenoble Alps University. His expertise in geotechnical engineering covers a wide range of applications: evaluation and mitigation of geotechnical hazards in urban areas (soil-structure interaction, foundations, tunnels, major excavation, underground networks, mines and cavities, ...), soil reinforcement under cyclic loading (dams, dikes), prediction of internal erosion (dams, dikes), deep foundations: soil-structure interaction and cyclic behavior of foundations of structures for energy (offshore wind turbines, tidal turbines, ...). His research involves in situ monitoring, small scale physical modelling and numerical modelling (both with FEM and DEM). He has supervised over 20 PhD students. He serves as President of the French Society for Soil Mechanics and Geotechnical Engineering (CFMS) since 2024 after being President of the Scientific and Technical Commission of CFMS (2020-2024). Since 2021, he is also deputy director of the Grenoble Alps University doctoral college and oversees the 7 graduate schools in science, technology and health.



## SHORT CV SÉBASTIEN BURLON

Sébastien Burlon (Ing, PhD, Hab) is a geotechnical manager in Cerema, the major French public agency for developing public expertise in the fields of urban planning and ecological and energy transition for resilient and climate-neutral cities and infrastructure. His expertise in geotechnical engineering covers various aspects based on experiences in both private and public companies: geotechnical structures design and consultancy (soil structure interaction for high-rise towers and nuclear power plants, design of near-shore and off-shore geotechnical structures, underground structures, highways and railways, etc.), research and development (cyclic loading, swelling and shrinkage of clay, pile design, pressuremeter tests, energy piles) by leading national and European projects and supervising some PhD students, teaching in various universities and standardization. He has been strongly involved in the development of the 2nd generation of Eurocode 7 for which a specific safety framework has been developed for numerical modelling and he is now the Vice-Chair of Eurocode 7.