



IFSTTAR Centrifuge

This piece of equipment is one of the biggest stars at the Nantes facility and almost always a highlight on the Center's guided tour. Operational since 1985 within a specially-fitted 900-m² building, the geotechnical centrifuge - affectionately known as the "centrif" - allows studying the behavior of geotechnical structures, such as foundations, offshore anchorages, embankments or supports, using reduced-scale models. The scale-reduction factor of the models is equal to the centrifugal acceleration being applied, up to a maximum of 200 G! The loads are applied in flight using jacks or the robot, controlled from the centrifuge operator's room. The results obtained may then be directly transposed to the full-sized structures.

Thanks to the assistance provided by the Division for Metrology and Instrumentation as well as the centrifuge team own workshops, all of the experimental phases can be conducted on site, from the assembling of test models to the processing of data collected during testing. The centrifuge team includes 7 permanent people.

20

noviembre

Salón Verde
7º Piso Edificio Central

10:00 hs

Présentation de l'Institut Français des sciences et technologies des transports, de l'aménagement et des réseaux (IFSTTAR) / The French institute of science and technology for transport, development and networks.

"Un tour d'horizon sur la modélisation physique en géotechnique" / An overview on the physical modeling in geotechnical engineering.

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Facultad de Ingeniería