Venue

CENTRALE NANTES

**1 rue de la Noë
44321 Nantes, France**

Paris

Nantes

Google map

Founded in 1919, Centrale Nantes is a French engineering school. Its undergraduate, Master and PhD programmes are based on the latest scientific and technological developments and the best management practices.

Application, Registration and Contact

The language of the training school is English.

Important dates

- **September 17, 2021**: Deadline for application. Submit your application online (applications are reviewed on a rolling basis until the deadline).

- **October 30, 2021**: Deadline for registration.

Registration fee: €150

For more information, visit http://trainingschool.infrastar.eu/ or email infrastar@univ-Eiffel.fr

Know more about the Infrastar project and visit the website.

INFRASTAR

Stay tuned

http://trainingschool.infrastar.eu/

INFRASTAR Training school

**3rd edition
26 - 29 october 2021
Université Gustave Eiffel**

The Infrastar Training School aims to provide lectures and hands-on trainings to Master and PhD students, early-stage researchers, young professionals on all aspects of asset management of civil infrastructures with respect to fatigue of materials. The participants will get additional knowledge about their own field but also about what is performed beforehand and afterwards.
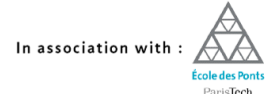
SAVE THE DATE

26 – 29 October 2021 at Centrale Nantes in France

The courses will provide multi-disciplinary and intersectoral basic concepts in three core fields, ranging from the design to the dismantling of the structures (bridges and wind turbines):
  1. Monitoring and auscultation.
  2. Structural and action models.
  3. Reliability, risk and decision analyses.

A participant who successfully has taken part in the Infrastar Training School will be able to understand:
  1. How to smarten the structures and its benefits.
  2. How to model structural and material behaviours under loading.
  3. How to develop, perform and assess structural reliability, risks and the value of structural information.

FUTURE
INVENTING THE CITIES OF TOMORROW

Université Gustave Eiffel

In association with :
École des Ponts
ParisTech

Monitoring and auscultation

Dr Odile Abraham (Université Gustave Eiffel), Pascal Collet (Total), Dr Ernst Niederleithinger (BAM), Dr Marc Thiele (BAM)

Structural and action models

Prof. Jan Bien (Wroclaw University of Technology), Prof. Eugen Brühwiler (EPFL), Dr Franziska Schmidt (Université Gustave Eiffel)

Reliability, risk and decision analyses

Prof. Franck Schoefs (University of Nantes), Prof. John Dalsgaard Sørensen (Aalborg University), Prof. Sebastian Thöns (Lund University)

- Dr Odile Abraham and Dr Hakim Ferria (Université Gustave Eiffel)
- Prof. Ahmed Loukili (SPI – Engineering sciences graduate school)

The Infrastar Training School is coordinated by

IFSTTAR becomes université Gustave Eiffel

The French institute of science and technology for transport, development and networks

With the support of

CENTRALE NANTES

Keynote lecture
- The Role of Behavior Psychology in Affecting the Perception of Risk in SHM Decision-Making
  Prof. Michael Todd (University of California)

1. Monitoring and auscultation
- From sensors to useful signals for concrete evaluation and monitoring
  Dr Odile Abraham (Université Gustave Eiffel)
- From signals to useful parameters: combination and data fusion
  Probability of Detection (PoD), Receiver Operating Characteristic (ROC)
  Dr Ernst Niederleithinger (BAM)
- Demonstrations and exercises on advanced NDE (fibre optics and Coda Wave Interferometry).

2. Structural and action models
- Assessment of extreme values of effects in structures
  Dr Franziska Schmidt (Université Gustave Eiffel)
- Computational methods for transient diffusion problems in concrete structures
  Dr Boumediene Nedjar (Université Gustave Eiffel)

3. Reliability, risk and decision analyses
- Uncertainty and structural reliability assessment (lectures and exercises)
  Prof. John Dalsgaard Sørensen (AAU)
- Decision and structural information analyses (lectures and exercises)
  Assoc. Prof. Sebastian Thöns (Lund University)

Technical visits
- More details coming soon.