

Provisional Registration Fees:

Price	until 1 July 2027	from 2 July 2027
PhD students, Postdocs	650 €	725 €
Academics	950 €	1 050 €
Others	1 400 €	1 550 €

The registration fee includes accommodation, meals and course materials. *(Single and twin-room accommodation)*

If you are considering attending the school, you are requested to follow the registration procedure explained on the website, from Nov. 2026 onwards.

After final registration, participants will be asked to complete the travel schedule and tutorial registration form. All forms, travel details, registration information and tutorial selections will be available on the school website.

https://metti9.univ-lorraine.fr

Organization of the school

LEMTA local organising committee:

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Advanced Autumn School

Thermal Measurements & Inverse Techniques

- 9th Edition -

3-8 October 2027
Obernai - France

https://metti9.univ-lorraine.fr

Scope

Finding 'causes' from measured 'consequences' using a mathematical model linking them is an inverse problem. This is met in different areas of physical sciences, especially in Heat Transfer. Techniques for solving inverse problems as well as their applications may seem quite obscure for newcomers to the field. Experimentalists seeking to go beyond traditional data processing to estimate model parameters as accurately as possible often feel ill-prepared for inverse techniques. To avoid bias at the different stages of such a complex task, specialists in measurement inversion, modelling and experimental techniques need to share a broad common culture and language. These exchanges are necessary to take into account the difficulties associated to all these fields. This school is organized in that spirit.

The METTI Group (Thermal Measurements and Inverse Techniques), which is a division of the French Heat Transfer Society (SFT), has already run or co- organized eight similar schools:

- in the Alps in Aussois (1995 and 2005)
- in the Pyrenees in Bolquère-Odeillo (1999)
- in Brasil in Rio de Janeiro (2009)
- in Brittany in Roscoff (2011)
- in the Basque Country in Biarritz (2015)
- in PACA region in Porquerolles island (2019)
- in Charente-Maritime in Oléron (2023)
  > https://metti8.sciencesconf.org/
- and in Alsace in Obernai (2027) for the ninth edition !

The school is open to participants from all countries with the support of the Eurotherm Committee.

The school typically brings together 80 to 100 participants and instructors (PhD students, academics, R&D engineers) from different countries.

Program

Lectures

Lectures will be given from 9:00 to 12:00 every morning from Monday to Friday on the following courses: generalities on inverse problems, linear and nonlinear estimation, contact and non-contact thermal sensors, measurement noise, large-scale optimization, regularization, function estimation, signal processing, model reduction or identification, etc.

Tutorials

Tutorials will be held in the "VVF Village Obernai" between 16:00 and 20:00 from Monday to Thursday. They will include an experimental and/or numerical component. Detailed tutorial abstracts will be available on the school website. Each participant will be able to attend 6 to 8 tutorials, depending on the schedule.

Documents

Two course books will be distributed upon arrival.

Posters

The participants are invited to present their work as a poster to support further interaction and discussion with more experienced 'inverters'.

Metti committee - J. C. Batsale, J. L. Battaglia, J. G. Bauzin, J. Berger, S. Chevalier, S. Demeyer, T. Duvaut, O. Farges, Y. Favennec, J. L. Gardarein, J. Gaspar, N. Horny, L. Ibos, F. Lanzetta, P. Le Masson, C. Le Niliot, D. Maillet, J. Meulemans, H. Orlande, L. Pérez, T. Pierre, O. Quéméner, B. Rémy, F. Rigollet, C. Rodiet, S. Rouchier, Y. Rouizi, P. Salagnac, V. Schick

Venue

The school will be held in the 'VVF Village Obernai' in the beautiful Alsace Region

Accommodation

Double and single room accommodations as well as meals are provided within the VVF Village Obernai

Access : https://www.vvf.fr/destination/ete/obernai

By train: several daily connections (from Paris, Nantes, Bordeaux) to Strasbourg then regional train to Obernai and 2 km from VVF Village > https://www.ter.sncf.com/grand-est

By plane: Strasbourg airport then regional train to Obernai and 2 km from VVF Village

By road: from Strasbourg, follow the A35 motorway - Exit 11 at Obernai



