

9th - 13th November 2026

Angers Autumn School

Booklet 2026 Edition



**When the sediment interface speaks in colors:
Revealing a 2D biogeochemical world**



Presentation of The Fourth Edition Angers Autumn School 2026 :



BioGeo 2D - When the sediment interface speaks in colors : Revealing a 2D biogeochemical world

The event in a few words :



The Angers Autumn School (AAS) is a scientific event organized by students from the BEE Master's program (Biology, Ecology, and Evolution), specializing in Marine Environments, Anthropization and Diagnosis (MAD) at the University of Angers, and researchers from the Laboratory of Planetology and Geosciences (LPG).

This year, the event will again focus on exploring biogeochemical processes in sediments in 2 dimensions at sub-millimeter scale using 2D DET (Diffusive Equilibrium in Thin film) gels, coupled with colorimetric methods and hyperspectral imaging. It will take place over five days, from 9 to 13 November 2026 at the Faculty of Science of the University of Angers.

During the week, a variety of activities will be offered: conferences held by researchers, a day on the field in the Loire estuary at Brillantes mudflat, work in the laboratory to prepare, calibrate and analyze the gels and hyperspectral image processing and flux modelling.

The AAS 2026 offers a unique opportunity to discover and experience methods in biogeochemistry with internationally recognized specialists.



Theme and Objectives :

Chemical gradients in sediment or soil pore water can be strongly affected by biogenic structures induced by macrofauna (burrowing) or vegetation (root development). Quantifying chemical species concentrations at high spatial resolution and in 2D allows to characterize the geochemical processes occurring around these structures and assess their impact on benthic exchanges. The Angers Autumn School 2026 will train participants in the preparation and use of 2D DET gels combined with colorimetry and hyperspectral imaging. The objectives of this training week are to :

- Characterize micro-scale biogeochemical processes by exploring the impact of structures (polychaete burrows, hydrophytic plant roots) on the chemical composition of sediments.
- Discover, test, and master advanced laboratory and field techniques in biogeochemistry using 2D DET gels and hyperspectral imaging.
- Promote international exchanges between researchers, students, and professionals while encouraging the sharing of new discoveries.

A varied program combining science, fieldwork & exchanges:

The Angers Autumn School offers a program combining scientific research, field experiments and practical workshops, including:

- A field day on the Brillantes mudflat in the Loire estuary with a mobile laboratory for *in situ* analysis of sediment chemistry using 2D DET gels.
- Scientific presentations led by experts in the field. Technical and methodological workshops to learn how to prepare 2D DET gels, assemble probes, and calibrate and analyze the data collected.
- Interactive and creative sessions, where participants will have the opportunity to design/customize their own laboratory tools for handling 2D gels.

Conferences by Experts in Biogeochemistry :

The Angers Autumn School will welcome experts in biogeochemistry, including :

- João Barreira, LPG : Postdoctoral researcher working on biogeochemical cycles in coastal ecosystems
- Vincent Bouchet, University of Lille, LOG : Professor specializing in benthic ecology
- Kasper Elgetti Brodersen, Roskilde University : Associate professor specialized on seagrasses and 2D measurements using planar optodes
- Matheus Cavalcante, Federal Fluminense University & LPG : PhD student working on carbon & nutrient cycles in Brazilian mangroves
- Florian Cesbron, CNAM INTECHMER, LUSAC : Associate professor specializing in the influence of seagrass meadows on sediment geochemistry and meiofauna
- Aubin Thibault de Chanvalon, IPREM : Researcher specialising in geochemistry and 2D modelling
- Edouard Metzger, University of Angers, LPG : Professor specialized in sediment biogeochemistry and the development of sub-millimetre resolution geochemical analysis methods.
- Patrick Launeau, Nantes University, LPG : Professor specialized in hyperspectral remote sensing
- Aurélia Mouret, University of Angers, LPG : Associate professor specialized in sediment biogeochemistry and organic matter remineralization processes

Target Audience :

This event is intended for master's students, PhD students, postdoctoral researchers, scientists, and professionals who wish to deepen their knowledge of biogeochemistry, gain practical experience with 2D DET gels, explore sediment/soil biogeochemical processes and discover hyperspectral imaging techniques.

Prices and Registration



	Early Registration (before 15th July 2026)	Late Registration (16th July - 30th september 2026)
Master and PhD student Postdoc researchers	220 €	270 €
Academic or Association	350 €	400 €
Non - Academic	550 €	750 €



Registration is open until 30th September !

To register, use the link below or scan the code:

<https://www.univ-angers.fr/fr/acces-directs/facultes-et-instituts/faculte-des-sciences/actualites/actus-2026/angers-autumn-school-biogeo2d.html>

SCAN ME !



To contact us and stay informed about the AAS, follow our accounts:



[@AngersAutumnSchool](https://www.linkedin.com/company/angers-autumn-school)



autumn-school-sciences@listes.univ-angers.fr

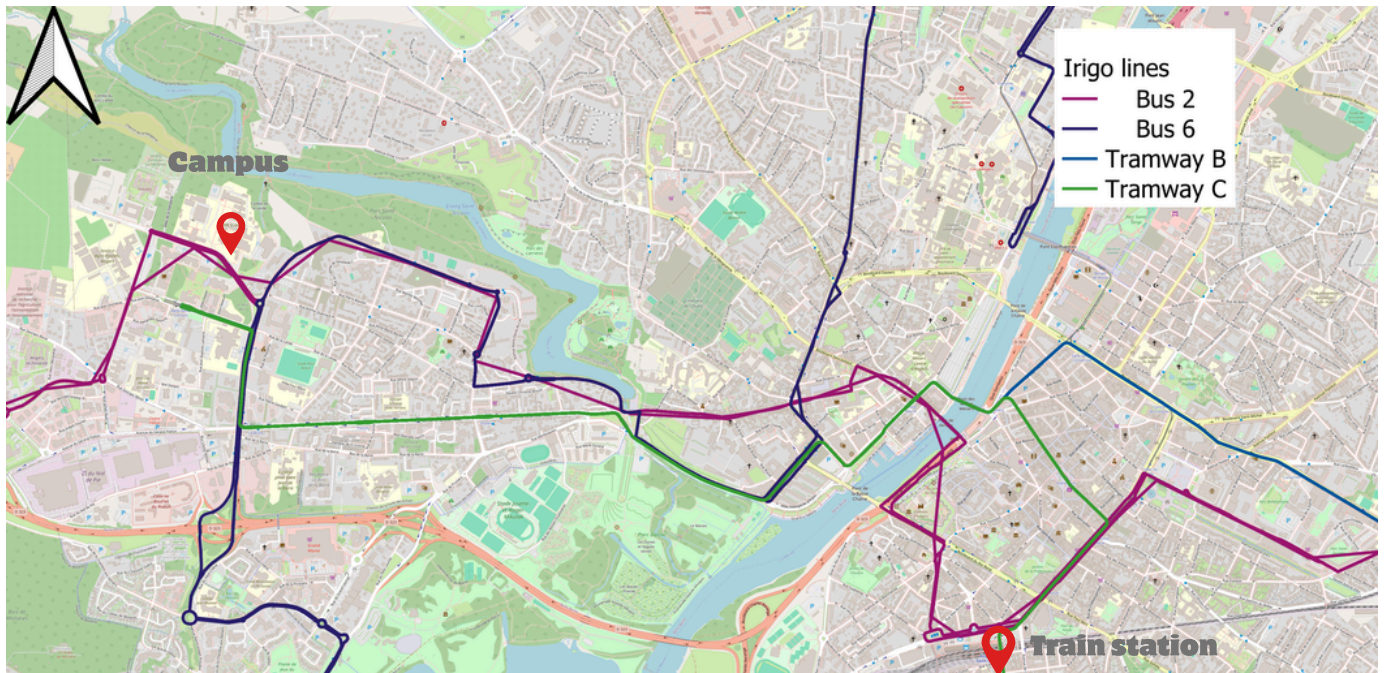


Find us at the Faculty of Science in Angers at 2 Bd de Lavoisier, 49000 Angers

Never been to Angers ? Here is a quick presentation to help you locate us



Tramway and bus map to the campus :



More information about the transport network

[**CLIC HERE !**](#)

Download the IRIGO app

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[**App Store**](#)

Need Accomodation during your stay in Angers ? Check with our partner hotels !



We have selected comfortable and well-located hotels offering preferential rates to participants of the Angers Autumn School 2026. All hotels are within a 5-minute walk of the tram, which provides quick access to the Faculty of Sciences at the Campus Belle-Beille terminus. The Faculty of Sciences is located just a 7-minute walk from the tram stop, with a ticket costing 1.60€. Reaching the campus is both convenient and affordable.

Hotel Continental (14 Rue Louis de Romain, 49100 Angers)



3-min walk from the Ralliement tram stop (line C direct to the Campus Belle-Beille terminus)

Booking: +33 2 41 86 94 94 / reservation@hotellecontinental.com

<https://hotellecontinental.com/>

12% discount for a reservation by email or phone call for AAS 26 participants

Hotel de Champagne (34 avenue Denis Papin, 49100 Angers)



In front of the Train Station with tram stop (line C direct to the Campus Belle-Beille terminus)

Booking: + 33 2 41 25 78 78 / info@hoteldechampagne.com

<https://hoteldechampagne.com/>

12% discount for a reservation by email or phone call for AAS 26 participants

**Book early to take advantage of the best prices
Subject to availability**



The Angers Autumn School is a unique opportunity to explore sediment/soil biogeochemistry in a setting that combines cutting-edge research, fieldwork and enriching discussions.

In 2025, 15 participants from 10 different countries joined us with very positive feedback!

We look forward to welcome you this year!

AAS 2026 is financially supported by the University of Angers

AAS