



BIOGEO2D

**When sediment chemistry becomes visible:
Discover 2D biogeochemical gels**

PLENARY LECTURES

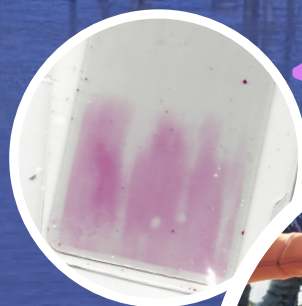
- » DET 2D gels: methodological context, developments
- » Micro-scale biogeochemical processes highlighted by 2D gels
- » Hyperspectral imagery: a powerful tool
- » Biogeochemical heterogeneity in seagrass meadows
- » Upscaling biogeochemical fluxes from microphytobenthos to the mudflat scale
- » Macrofaunal/meiofaunal bioturbation
- » Biogeochemical context of the Brillantes mudflat in the Loire estuary

WORKSHOPS

- » Preparation, mounting and calibration of 2D gels
- » 2D gel analyzes *in-situ* using the lab truck
- » Treatment of hyperspectral images
- » 2D image modelling for flux calculations

PARTICIPANT PROFILE

- » PhD & master students
- » Postdocs
- » Researchers, engineers & technicians
- » Environmental consultancies & agencies



CONTACT & INFORMATIONS



University of Angers, FRANCE
Laboratory of Planetology and Geosciences (LPG)



@AngersAutumnSchool



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

PROGRAM



Monday 17

Welcome coffee

Scientific plenary lectures:

- DET 2D gels: methodological context, developments
- Micro-scale biogeochemical processes highlighted by 2D gels
- Hyperspectral imagery: a powerful tool

Workshops :

- preparation, mounting & calibration of 2D gels
- Fun workshop : make your own personalised tools

Tuesday 18

Scientific plenary lectures:

- Biogeochemical heterogeneity in seagrass meadows
- Upscaling biogeochemical fluxes from microphytobenthos to the mudflat scale
- Macrofaunal/meiofaunal bioturbation

Workshops :

- preparation, mounting & calibration of 2D gels
- Fun workshop : make your own personalised tools

Wednesday 19

Fieldtrip to the Loire estuary at Brillantes mudflat:

- Gel deployments and analyses

Thursday 20

Workshops :

- Treatment of hyperspectral images
- 2D image modelling for flux calculations

Friday 21

Scientific plenary lectures:

- Biogeochemical context of the Brillantes mudflat

Data analysis and synthesis

Final drink

Information & inscription



ANGERS AUTOMNM SCHOOL BIOGEO 2D



LECTURERS & INSTRUCTORS

**Laboratory of Planetology
and Geosciences (LPG)**

- João Barreira
- Corentin Guilhermic
- Patrick Launeau
- Edouard Metzger
- Aurélia Mouret

Invited speakers :

- Vincent Bouchet, LOG, Lille, Wimereux Marine Station
- Florian Cesbron, LUSAC-CNAM INTECHMER, Cherbourg
- Vona Méléder, ISOMER, Nantes
- Aubin Thibault de Chanvalon, IPREM, Pau