

# BIOGEO2D

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

## PLENARY LECTURES

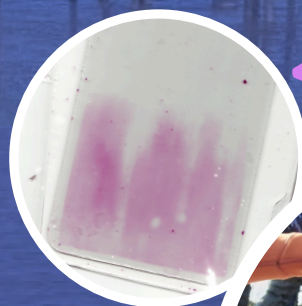
- » DET 2D gels: methodological context, developments
- » Micro-scale biogeochemical processes highlighted by 2D gels
- » Hyperspectral imagery: a powerful tool
- » Biogeochemical heterogeneity in seagrass meadows
- » Upscaling biogeochemical fluxes from microphytobenthos to the mudflat scale
- » Macrofaunal/meiofaunal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

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# 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 AUTUMN 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  
- Maxime Daviray, LUSAC-CNAM INTECHMER, Cherbourg  
- Vona Méléder, ISOMER, Nantes  
- Aubin Thibault de Chanvalon, IPREM, Pau