

# Angers Autumn School

## Foraminifera and geochemistry: understanding coastal ecosystems

13 - 17  
NOVEMBER  
2023



### INTEGRATED EXPERIMENTAL APPROACHES & FIELD TRIP



**Participants profiles:**  
Master and PhD Students,  
postdocs, environmental  
consultancies and agencies

Information & inscription



SCAN ME

[univ-angers.fr/autumn-school-foraminifera](http://univ-angers.fr/autumn-school-foraminifera)

#### Plenary lectures

Mudflat functioning

Foraminiferal biology & ecology

Paleoecology and paleoenvironmental studies

Molecular biology and DNA barcoding

Principles of foraminiferal biomonitoring

Early diagenesis - Geochemistry

Cable bacteria

#### Workshops

High resolution core sampling

Submillimeter chemical profiling

Metabolism: respiration rate

Experimental feeding approaches

NEW EDITION!

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



[autumn-school-sciences@listes.univ-angers.fr](mailto:autumn-school-sciences@listes.univ-angers.fr)



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# Angers Autumn school Program

## MONDAY 13 SOCIAL EVENT

- Presentation of the Autumn School
- Conferences:
  - Generalization: What is a foraminifera ?
  - Reproduction and life cycle
  - Paleoecology and paleoenvironmental studies
  - DNA barcoding and principles of foraminiferal biomonitoring
  - Geochemistry: Early diagenesis
  - Mudflat functioning
  - Foraminiferal distribution in transitional environments
- Presentation of the field trip "Bay of Bourgneuf"

## WEDNESDAY 15 SOCIAL EVENT

- Conferences:
  - Taxonomy: Morphology and molecular biology
  - Temporal and spatial variabilities in intertidal environments: Geochemistry and foraminifera
  - Cable bacteria
- Workshops

## THURSDAY 16

- Workshops

## FRIDAY 17 SOCIAL EVENT

- Synthesis of workshops

## TUESDAY 14

- Sampling field trip "Bourgneuf Bay"



### Lecturers and instructors

Laboratory of Planetology and Geosciences (LPG) / University of Angers

Dr Christine BARRAS                                      Dr Meryem MOJTAHID  
Dr Julia COURTIAL                                      Dr Aurelia MOURET  
Msc Maxime DAVIRAY                                   Dr Maria Pia NARDELLI  
Pr Emmanuelle GESLIN                                Dr Magali SCHWEIZER  
Pr Edouard METZGER                                    Dr Inge VAN DIJK

### Invited speakers:

Dr Vincent BOUCHET (Laboratory of Oceanology and Geosciences / University of Lille)  
Pr Frédérique EYNAUD (Laboratory Environments and Palaeoenvironments Oceanic and Continental / University of Bordeaux)  
Pr Vona MELEDER (Laboratory Sea Molecules Health / University of Nantes)  
Pr Nils RISGAARD PETERSEN (Department of biology - Aquatic biology & Center for Electromicrobiology / Aarhus University)

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### Workshops:

- 1 Sample preparation and fluorescent labelling
- 2 Sediment geochemistry – Oxygen profiling
- 3 Living foraminifera – Respiration rates
- 4 Taxonomy - Invasive and cryptic species