



OSUG Interdisciplinary Workshop Bio-Geo-Clim

Supported by the *OSUG Atelier transversal Biodiversité*

Location: Wilfrid Kilian Amphitheater, ISTerre, 1381 Rue de la Piscine, Gières

Thursday January 16th

Theme 1: Biodiversity and global changes, past and present

9.00 - 9.05	Introduction Atelier Transversal Biodiversité	Laurence Després (LECA)
9.05 - 9.45	Old fossils, current issues <i>How fragmentary remains of past biodiversity shed light on our understanding of evolution : case study in "fish"</i>	Olga Otero (Univ. Poitiers) - KEYNOTE
9.45 - 10.05	Toward a better understanding of sedaDNA taphonomy	Charline Giguët-Covex (EDYTEM)
10.05 - 10.25	Beyond the species concept: the role of geography versus ecology in driving species diversification (and why mountains matter?)	Laurence Després (LECA)

10.25 - 10.55 Coffee break

10.55 - 11.15	Tempo and direction of terrestrial organisms dispersal across the Bering Land Bridge : insights from dated phylogenies	Julie Le Merrer (LECA)
11.15 - 11.35	Evolution of Latitudinal Diversity Gradient over deep time: insights from mechanistic models	Manon Lorcery (ISTerre)
11.35 - 11.55	Business-as-usual trends will largely miss 2030 global conservation targets	Ignacio Palomo (IGE)
11.55 - 12.15	Open discussion with all presenters Theme 1	Animated by organizers

12.15 - 13.45 Lunch break

Theme 2: Alpine Environments

13.45 - 14.05	Did high-elevation summits serve as vegetation refugia during Pleistocene glaciations ?	Alexy Rosa (LECA)
14.05 - 14.25	Paleogeomorphological and ecological insights about alpine nunataks.	Bastien Féaud (ISTerre)
14.25 - 14.45	The impact of the glaciations on the evolution and spatial structure of the Alpine flora	Lara Wootton (LECA)
14.45 - 15.05	The underestimated complexity of the lithology of Alpine screes provides insight into the role of the substrate as a driver of habitat fragmentation and speciation.	Camille Voisin (LECA)

15.05 - 15.35 Coffee break

15.35 - 15.55	Human and climate impacts on Critical Zone dynamics over the past 10,000 years in the French Alps	William Rapuc (EDYTEM)
15.55 - 16.15	Snow microbial community carbon cycling in the Alps	Francesca Schivalocchi (EDYTEM)
16.15 - 16.35	Quantifying soil erosion during the Holocene : contributions from the integration of modeling and lake sediment archives	Théo Mazure (INRAE)
16.35 - 17.00	Open discussion with all presenters Theme 2	Animated by organizers



Friday January 17th

Theme 3: Geodynamics, landscapes and biodiversity

9.00 - 9.20	Interaction between tectonic and climate shaping the Tibetan Plateau, before its human colonisation.	Anne Replumaz (ISTerre)
9.20 - 10.00	Potential impact of African tectonic uplift on the late Cretaceous climate cooling : new insights from coupled Lu-Hf and Sm-Nd isotopic systems in clays	Emmanuelle Puceat (Univ. Bourgogne) - KEYNOTE
10.00 - 10.20	The link between geodynamics and faunal turnovers in the Miocene and Pliocene of the Mediterranean Region	Arjan de Leeuw (ISTerre)

10.20 - 10.50 Coffee break

10.50 - 11.10	Reef & mangrove interplay driven by relative sea-level changes	Gino de Gelder (ISTerre)
11.10 - 11.30	Geomorphic and climate driven vegetation dynamics in badlands – A case study from Laval catchment in Draix-Bleone observatory	Hemanti Sharma (INRAE)
11.30 - 11.50	Assessing the effectiveness of protected areas network from a social-ecological perspective in Grenoble	Alberto González-García (LECA)
11.50 - 12.15	Open discussion with all presenters Theme 3	Animated by organizers

12.15 - 13.45 Lunch break

Theme 4: Geochemistry, cryosphere and biological processes

13.45 - 14.05	Characterisation of eukaryotic and prokaryotic communities in a peat bog and a palaeo-chenal in the Somme valley to trace the history of human activity	Lise Alonso (EDYTEM)
14.05 - 14.25	Bacteria have learned to cope with heavy metals in hostile geoenvironments. Applications in waste treatment and valorization.	Martins Jean (IGE)
14.25 - 14.45	Life “on the Rocks” – The Significance of Petrogenic Nutrients for High Elevation Ecosystems	B. Wild (ISTerre)
14.45 - 15.05	Weathering products as markers of climatic and biogeographic boundaries	Cecile Gautheron (ISTerre)

15.05 - 15.35 Coffee break

15.35 - 15.55	The chemical and physical characterization of Nannoconus, the main planktonic bio-producer of carbonates in the cretaceous seas	Rajkumar Chowdhury (ISTerre)
15.55 - 16.15	From Sub-glacier to Greenhouse: Exploring Microbial Responses to Glacial Rock Flour	Kara Sampsell (IGE)
16.15 - 16.35	Nitrate and sulphate isotopologues in polar ice cores	Julien Witwicky (IGE)
16.35 - 17.00	Open discussion with all presenters Theme 4	Animated by organizers

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