

# ESIR LYON XVII

23 – 27 June, 2025

## Sunday, June 22

18h: Ice breaking party at 'Ninkasi Cordeliers', 1 Rue du Président Carnot, 69002 Lyon

## Monday, June 23

### **Session 1 – Paleoclimatology, Paleoenvironments and paleoecology**

#### **9h: Coffee**

9h30 -10h30, *Monica Sanchez Roman*: Investigating geochemical biosignatures in low-temperature carbonates: laboratory and field studies – **Keynote lecture**

10h30-10h50, *Ana-Voica Bojar*: Seasons during the Middle Miocene Climatic Transition (MMCT): fossil archives and stable isotope distribution

10h50-11h10, *László Bujtor*: Precise oxygen isotope paleotemperature data obtained from Jurassic aptychi

11h10-11h30, *Barbora Krizova*: North Pole temperature seasonality during the Early Jurassic icehouse-hothouse climatic transition

11h30-12h, *Kévin Rey*: Isotopic analysis of coprolites (Early Cretaceous of France) : a new paleoenvironmental and paleoecological tracker?

## **12h-13h30: Lunch break**

### ***13h30 -14h coffee, poster session and exhibitors***

14h-15h, *Manuel Rigo*: Beyond the boundary: conodont survival across the End-Triassic Mass Extinction– **Keynote lecture**

15h-15h20, *Romain Amiot*: Biological meaning of fossil reptile eggshell accumulations using stable oxygen and carbon isotopes

15h20-15h40, *Anaïs Duhamel*: Towards a tracking of bird migratory behaviour through geological time: an isotopic and histological approach

### ***15h40: Coffee break***

16h10-16h30, *Jeremy E. Martin*: Relevance of calcium isotopes for trophic level inference in modern and fossil vertebrates

16h30-16h50, *Sandrine Le Houedec*: Reconstructing Mio-Oligocene climatic and oceanographic conditions in Baffin Bay: results from IODP Expedition 400, U1607 site

## Tuesday, June 24

### **Session 2 – Hydrosphere-atmosphere interactions**

#### **9h: Coffee**

9h30-10h30, *Marta Marchegiano*: Not all carbonates record the same season: Decoding continental past climate with Clumped Isotopes – **Keynote lecture**

10h30-10h50, *Attila Demény*: Calcite-water oxygen isotope and clumped isotope temperature signals in calcite veins and their paleohydrological application.

10h50-11h10, *Danny Vargas*: Isotopic seasonality of precipitations in N. Macedonia

11h10-11h30, *István Fórizs*: Use of isotope tools to prove the Ice Age origin of the mineral water in Albertirsa (Hungary)

11h30-11h50, *Elemér László*: Enhancing convective precipitation detection using tritium and stable isotopes

11h50-12h10, *Emmanuel Guillerm*: Recent breakthroughs in halite fluid inclusion analysis as new gateways to water chemical composition, volume, lake level and temperature

### **12h-13h30: Lunch break**

## **Session 3 – Archeology and ancient Human societies**

### ***13h30-14h: coffee, poster session and exhibitors***

14h-15h, *Olalla López Costas* – **Keynote lecture**

15-15h20, *István Major*: Goths in Transylvania: a bioarchaeological study of a barbarian community from the Roman age Maroszentanna-Chernyaahiv culture.

## **Session 4 – New developments in stable isotope geochemistry (1)**

15h20-15h40, *Christophe Lécuyer*: Do we need to re-evaluate the oxygen isotope fractionation equations between biogenic aragonite and water?

### ***15h40: coffee, poster session and exhibitors***

16h10-17h10, *Christophe Snoeck* – **Keynote lecture**

## Wednesday, June 25

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### Session 4 – New developments in stable isotope geochemistry (2)

#### 9h: Coffee

9h30-10h30, *Alicja Wudarska*: SIMS meets the apatite super group: unlocking isotopic secrets or stirring analytical challenges? **Keynote lecture**

10h30-10h50, *Wiem Ben Aissa*: Heat and salt flux transport recorded by halite fluid inclusions from the MIS 5 stage in the Dead Sea Basin.

10h50 – 11h10, *Andrea Czébely*: Clumped analyses of various biological carbonates: studies on formation temperature and kinetics effects.

11h10-11h30, *László Palcsu*: Natural variation of cosmogenic tritium in ice cores over the last 100 years

#### 11h30-13h30: Lunch break

#### 13h30-14h posters and exhibitors

14h-15h, *Mathieu Daëron* – A new age of cap deltas: studying carbonate isotopes in 5 dimensions **Keynote lecture**

15h-15h20, *Mariusz Jędrysek*: Large source of  $^2\text{H}$ -depleted and  $^{17}\text{O}$ - $^{18}\text{O}$ -enriched atmospheric water: a massive deviation from GMWL.

15h20-15h40, *István Csige*: Modeling long-term time development of coupled tritium balances in a complex system of large karstic lakes and aquifers.

#### 15h40: Coffee break

16h10-16h30, *Thomas Tütken*: Combined Ca and Sr isotope approach: assessing diet versus diagenesis.

16h30-16h50, *François Fourel*: EA pyrolysis CF-IRMS technique for  $\delta^2\text{H}$  measurements of water inclusion in synthetic calcite minerals.

**19:00 Gala dinner at 'Brasserie de l'Ouest'**

## Thursday, June 26

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**Excursion to the 'Roche de Solutré' (Maconnais, Southern Burgundy region)  
with visit to the vineyards**

## Friday, June 27

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### **Session 5 – Soil pollution and carbon cycle**

**8h30: coffee**

9h00-9h40, *Andrzej Pelc*: Chlorine isotope analysis and its applications in hydrology and geology - **Keynote lecture**

9h50-10h10, *Barbara Sensuła*: Urban carbon dynamics: High-precision monitoring of CO<sub>2</sub>? and <sup>14</sup>C in Gliwice, Poland.

10h10-10h30, *Krzysztof Jurek*: Utilising compound specific carbon stable isotope analysis (CSIA) of PAHs to identify the cause of soil contamination.

10h30-10h50, *Dominika Lewicka-Szczebak*: Nitrogen transformation pathways in soils and waters: N<sub>2</sub>O and mineral N isotope analyses with isotope modelling approach

10h50-11h10 *Fatmeh Al* A Novel GC-C-IRMS Method for Isotopic Profiling of Amino Acids in lung cancer tissue

**11h10-12h00, Posters, exhibitors**

**12h-13h30: Lunch break**

**13h30- 14h00: Presentation of the SFIS (Société Française des Isotopes) scientific paper prize.**