

**COLLOQUE**



# JURA TECTONICS 2024 CONFERENCE ABSTRACT BOOK

## De l'évolution tectonique passée aux projets appliqués au sous-sol

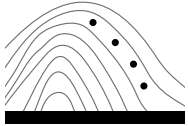
**Besançon (France)  
9-11 octobre 2024**

Maison des Sciences de l'Homme  
et de l'Environnement  
1 rue Charles Nodier

<https://juratectonics.sciencesconf.org/>



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# Conference programme

**JURA. 2024** From tectonics evolution to applied geology projects | 9-11 Oct. 24 | BESANÇON (France)  
**TECTONICS**

## Wednesday 9<sup>th</sup> October 2024

13:30 – 14:00 ▪ Welcome of participants

14:00 – 14:15 ▪ Welcome speech

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### Session 1. Tectonic evolution of Jura: insights from multidisciplinary approach

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Chairperson: **Flavien Choulet**

14:15 – 15:00 ▪ **Peter Jordan – Keynote.** Hans Peter Laubscher and the Jura fold-and-thrust belt [KN1]

15:00 – 15:25 ▪ **Jon Mosar** – On basement tectonics and décollement in the Jura Mountains

15:25 – 15:50 ▪ **Bertrand Maillot** – Mechanical modelling and tectonic style

15:50 – 16:20 ▪ Coffee break

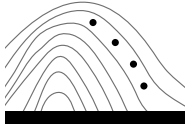
16:20 – 16:45 ▪ **Raphael Schneeberger** – Evolution of the eastern tip of the Jura Fold-and-Thrust Belt: insights from recent 3D reflection seismic and borehole data

16:45 – 17:10 ▪ **Luca Smeraglia** – Timing of deformation and past fluid flow in the Jura Mountains

17:10 – 17:35 ▪ **Catherine Homberg** – Stress through time and space: insights from the Jura Mountains and surroundings

19:30 ▪ Repas de gala au restaurant « [Péniche Le Chaland](#) ».





# Conference programme

**JURA. 2024**  
**TECTONICS**

*From tectonics evolution to applied geology projects* | 9-11 Oct. 24 | BESANÇON (France)

## Thursday 10<sup>th</sup> October 2024

8:00 – 08:30 ▪ *Welcome of participants*

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### Session 2. Tectonics and applied geology

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*Chairperson: Julie Albaric*

8:30 – 9:15 ▪ **Pierre-Yves Jeannin – Keynote.** Applied geology and engineering projects in the Jura mountains [KN2]

9:15 – 9:40 ▪ **Victor Klabá** – Hydrostructural approach for a better comprehension of karstic hydrosystem

9:40 – 10:05 ▪ **Benoît Valley** – Current stress field and its importance on geothermal project development in the Jura

10:05 – 10:30 ▪ **Marius Gruber & David Polasek** – Geothermal prospection at the Jura – Molasse Basin transition

10:30 – 10:55 ▪ *Coffee break*

10:55 – 11:20 ▪ **Christophe Nussbaum** – Fault zone in claystone: the contribution of the Mont Terri Underground Rock Laboratory

11:20 – 11:45 ▪ **Benoît Hauville** – Helium exploration in Avants-Monts (NW Jura), a good opportunity to acquire new data and revisit the structural setting

11:45 – 12:10 ▪ **Laurent Beccaletto** – Late Paleozoic basins: geodynamics and resources in NW Jura

12:10 – 12:35 ▪ **Johannes Pietsch** – Tectonics and Solution Mining: How much of knowledge is needed for a safe operation?

12:35 – 14:00 ▪ *Lunch buffet*

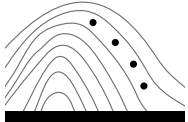
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### Session 3. Recente/Active deformation along the arc

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*Chairperson: Julie Albaric*

14:00– 14:25 ▪ **Julie Albaric et al.** – Active deformation in the Jura in the framework of the Western Alpine system



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14:25 – 14:50 ▪ **Tobias Diehl** – New insights into present-day seismotectonic processes of the Jura fold-and-thrust belt from recent seismicity

14:50 – 15:15 ▪ **Jérôme van der Woerd** – Seismicity, deformation and geomorphic processes in the southern Upper Rhine Graben

15:15 – 15:40 ▪ **Amélie Quiquerez** – How archaeological investigations can help to assess neotectonic activity in the southern Jura ?

15:40 – 16:05 ▪ **Robin Marchant & David Giorgis** – Tectonics of the Alpine foreland: what lies beneath the lakes?

16:05 – 18:00 ▪ *Poster session followed by a closure cocktail*

18:00 ▪ *Free-time dinner in Besançon*

## Friday 11<sup>th</sup> October 2024 : Excursion

8:00 ▪ *Departure from Besançon*

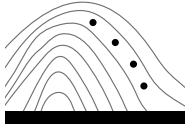
9:00 – 12:00 ▪ **Fuans cross-section**

12:00 – 13:30 ▪ *Lunch (Restaurant : Au coeur des faims, Les Fins)*

13:30 – 16:30 ▪ **Le Locle A20 bypass**

17:30 ▪ *Back in Besançon*





# List of posters

**JURA. 2024** From tectonics evolution to applied geology projects | 9-11 Oct. 24 | BESANÇON (France)  
**TECTONICS**

**Abi-Nader Anthony *et al.*** – Hydro-geophysical monitoring in the Jura mountains [P11]

**Billau Antonin *et al.*** – Insights into Jura fold-and-thrust belt structuration via U-Pb on carbonates [P4]

**Brett Alannah C. *et al.*** – Investigating sub-seismic fracture networks in the Muschelkalk Group in the Wutach Gorge (Tabular Jura, DE), towards a revised CO<sub>2</sub> storage potential assessment in Switzerland [P5]

**Caldeira Jaffer *et al.*** – Multi-scale structural mapping and analysis of natural fractures of Creux-Du-Van -Central Internal Jura) [P6]

**Giorgis David *et al.*** – Evidence of an active lacustrine subthermal vent in the Lake Geneva [P2]

**Goncalves Philippe *et al.*** – Eocene to Oligocene tectonic inheritance in the front range of the Jura fold-and-thrust belt (Avant-Monts, Besançon, France) [P12]

**Guglielmetti Luca *al.*** – Slope-design et calcul statistique dans un massif rocheux plissé, chevauché et fracturé (Carrières des Granges, Le Locle) [P10]

**Jacmaire Jean-Charles** – Projet tunnelier de la Ligne Directe CFF entre Neuchâtel et La Chaux-de-Fonds [P13]

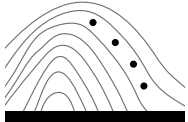
**Klaba Victor *et al.*** – Hydrostructural approach for a better comprehension of karstic hydrosystem – Transkarst Project [P3]

**Marchant Robin** – Tectonique de l'avant-pays alpin : que ce cache-t-il sous les lacs ? [P9]

**Marro Adeline *et al.*** – Basement faults inheritance in the detached cover of the Jura Fold-and-Thrust Belt: a new kinematic interpretation [P1]

**Signer Salomè *et al.*** – Systematic 3D geological modelling of the Jura fold-and-thrust belt (Switzerland). Part 2/2: Current state of implementation [P8]

**Ursprung Anina *et al.*** – Systematic 3D geological modelling of the Jura fold-and-thrust belt (Switzerland). Part 1/2: Aims and methodology [P7]



# Informations

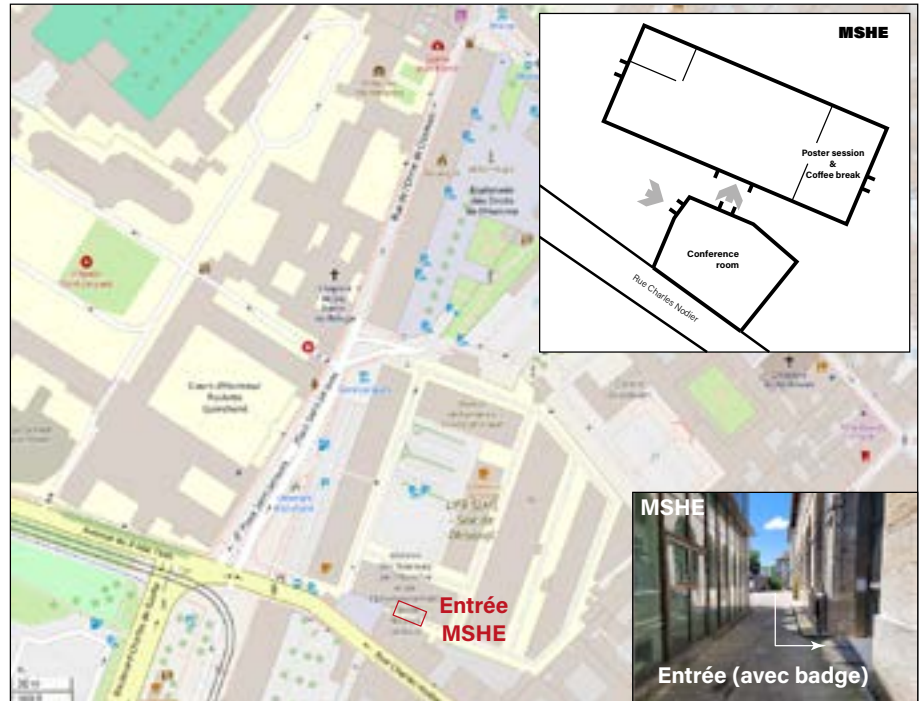
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**TECTONICS**

## Conference venue

The conference will be held at the Maison des Sciences de l'Homme et de l'Environnement (MSHE) Claude Nicolas Ledoux in Besançon.

Pedestrian acces:  
Esplanade Germaine Tillion  
1 rue Charles Nodier  
25000 Besançon

Oral presentations will take place in the conference room, while coffee breaks and poster sessions will be held in the exhibition hall.



**IMPORTANT :** It is forbidden to eat or drink outside the exhibition hall (poster session room). Thank you in advance.

## Gala dinner : Wednesday 9<sup>th</sup> October

The gala dinner will be held at [la Péniche Le Chaland](#) at 19:30: Pont Bregille, avenue Edouard Droz, Parc Micaud, 25000 Besançon

