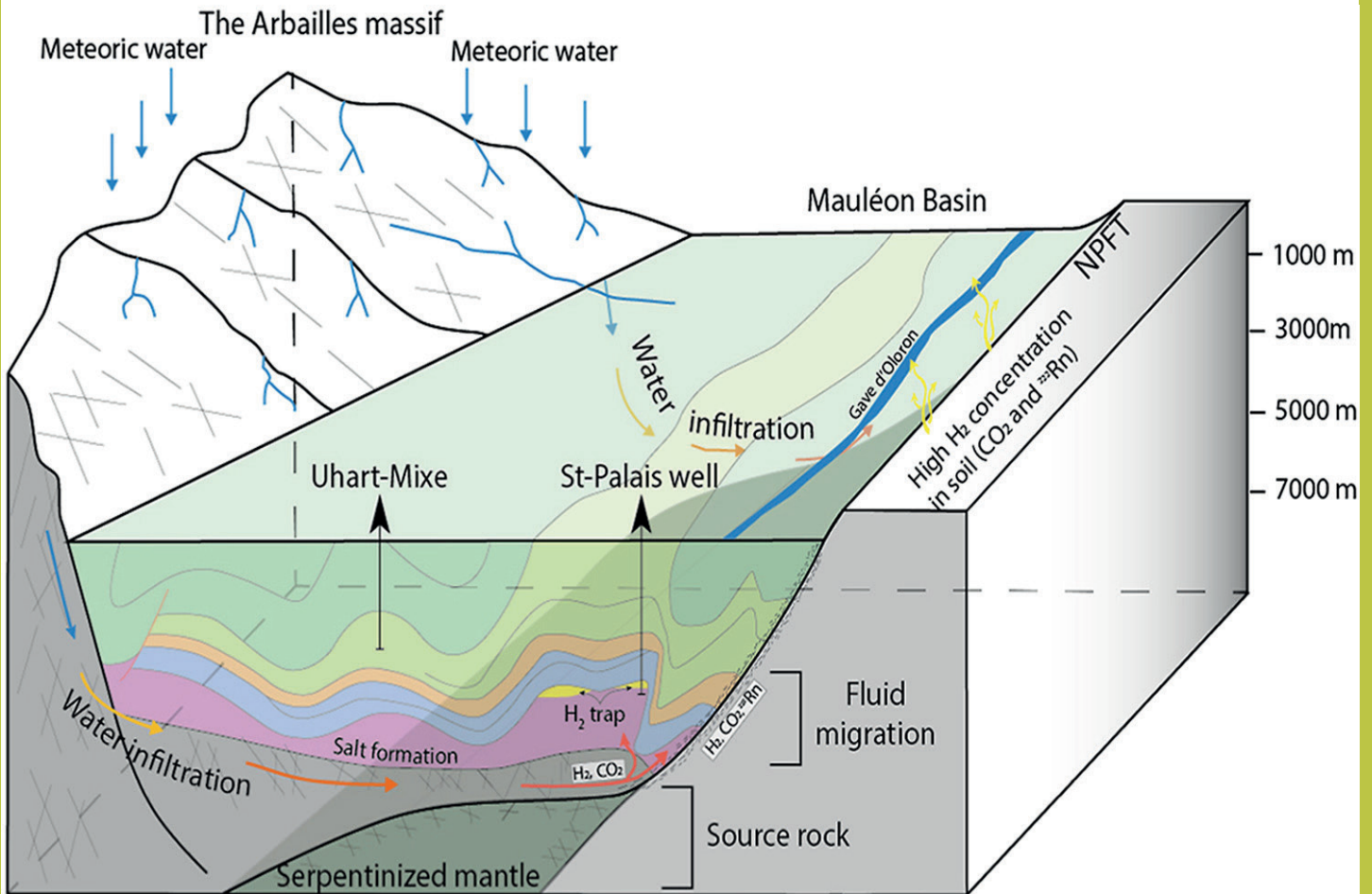


# NATURAL HYDROGENE RESSOURCES IN THE ALPS – From Exploration to an Economic Production

29.09.2022 / VAHRN (ITALY)



Lefevre, N., Truche, L., Donzé, F.V., Gal, F., Tremosa, J., Fakoury, R.A., Calassou, S. and Gaucher, E.C. (2022) Natural hydrogen migration along thrust faults in foothill basins: The North Pyrenean Frontal Thrust case study. *Appl. Geochem.*, 105396.



## NATURAL HYDROGEN RESSOURCES IN THE ALPS – From Exploration to an Economic Production

Hydrogen will gain tremendous importance managing **the transition from fossil to renewable energy sources**. Recently, hydrogen is almost exclusively produced by technical methods, which are very energy consuming. Naturally occurring hydrogen, which has been explored in different geological sites world wide can be an **additional source to cover the huge recent and future human demand**. Several studies were conducted so far, which proofed the occurrence and potential economic exploitation of natural hydrogen (cf. For example Gaucher, 2020, Zgonnik, 2020). A good overview in this topic can be found in following video: <https://vimeo.com/456641451>

Also in the Alps potential host rocks exist, which indicate the appearance and enrichment of natural hydrogen. The aim of this expert workshop is to show and develop effective exploration and exploitation strategies in the Alpine space.

The workshop will be held on **Thursday 29th of September 2022 at the IBI Euregio Kompetenzzentrum in Vahrn (Italy)** and will be organised as **hybrid event**.

### PRELIMINARY PROGRAMME

13:00–13:15 Uhr **Registration**

#### BLOCK 1

13:15–14:15

##### **Formation and occurrence of natural hydrogen in geological formations**

Dr. Eric Gaucher  
Rock-Water Interaction  
Institute of Geological Sciences  
University of Bern

14:15–15:00

##### **Potential hydrogen bearing formations in the Alps**

Prof. Othmar Müntener  
University of Lausanne | UNIL · Institute of Earth Sciences (ISTE)

15:00–15:30

##### **Coffee break**

#### BLOCK 2

15:30–16:00

##### **Feasible economic production of natural hydrogen**

Dr. Eric Gaucher  
Rock-Water Interaction  
Institute of Geological Sciences  
University of Bern

16:00–16:30

##### **Geochemical and geophysical exploration methods**

Thomas Fierz  
Solexperts AG  
  
Florian Eichinger  
Hydroisotop GmbH  
  
Klaus Brauch  
Terratec Geophysical Service

16:30–17:15

##### **Discussion**

from 17:15

##### **Get together with aperitif**

### ORGANIZER:



^ ALL INFO &  
REGISTRATION HERE

