



ENIGMA will be at AGU! Come see us all week long:

## Monday, 9<sup>th</sup>

ESR11 Richard Hoffmann [Oral]  
The potential of temperature and dissolved gas as smart tracers for process-based heterogeneity characterization  
Moscone West – 2022-2024, L2  
9:46 - 10:00

ESR12 Satoshi Izumoto [Oral]  
Spectral induced polarization of calcite precipitation in a 2D porous medium  
Moscone West – 2022-2024, L2  
14:58 - 15:12

## Tuesday, 10<sup>th</sup>

Olivier Bour [Poster]  
On the use of Distributed Temperature Sensing for characterizing groundwater dynamics and intermittent fluxes in heterogeneous aquifers  
Moscone South – Poster Hall  
8:00 – 12:00

Olivier Bour [Poster]  
An assessment of the relative information content of groundwater flux and pressure data in the context of geostatistical inversion  
Moscone South – Poster Hall  
8:00 – 12:00

Anja Klotzsche [Poster]  
Monitoring Soil Water Content Dynamics in a Field-Scale Infiltration Experiment by Combining Horizontal Borehole and Surface GPR  
Moscone South – Poster Hall  
8:00 – 12:00

Damien Jougnot [Poster]  
Comparing pore network modelling and an analytical flux averaging approach to determine the effective excess charge density for streaming potential generation in porous media  
Moscone South – Poster Hall  
8:00 - 12:20

Olaf A Cirpka [Oral]  
Conceptual Equifinality in Reactive Transient-Storage Modeling  
Moscone West - 3018, L3  
11:20 – 11:35

ESR7 Joel Tirado-Conde [Oral]  
Groundwater - surface water interactions in a lowland stream valley: thermal characterization of groundwater upwelling in a wetland  
Moscone West – 3018, L3, 11:35 - 11:50

## Wednesday, 11<sup>th</sup>

Niklas Linde [Oral]  
Probabilistic inference of fracture aperture fields using single-hole ground-penetrating radar data within a coupled hydrogeophysical inversion framework  
Moscone West – 3018, L3, 10:20 – 10:35

ESR5 Lara Blazevic [Oral]  
Time-Lapse seismic and electrical monitoring of the vadose zone during a controlled infiltration experiment at the Ploeumeur Hydrological Observatory (Brittany, France)  
Moscone West – 3020, L3, 10:50 – 11:05

ESR15 Jorge Lopez-Alvis [Oral]  
Efficient Deterministic Inversion of Geophysical Data Constrained by Deep Generative Models to Estimate Subsurface Parameters with Defined Spatial Patterns  
Moscone West – 3020, L3, 11:50 – 12:05

Niklas Linde [Oral]  
Deep learning and inversion  
Moscone West – 3020, L3  
12 :05 – 12:20

Marco Dentz [Oral]  
The Emergence of Stable Laws for Breakthrough Curves in Three-Dimensional Discrete Fracture Networks  
Moscone West – 3018, L3 13:40 – 13:55

Tanguy Le Borgne [Oral]  
Effect of subsurface fluid mixing on microbial growth and bioclogging in fractured media: field observations and modelling  
Moscone West – 3005, L3  
16:15 – 16:30

## Thursday, 12<sup>th</sup>

Thomas Hermans [Oral]  
Joint inversion of land and marine electrical resistivity tomography for imaging submarine freshwater discharge  
Moscone West – 2010, L2  
14:10 – 14:25

ESR4 Justine Molron [Poster]  
A field assessment of the ability of Ground Penetrating Radar to detect fractures in very low permeable crystalline rock  
Moscone South – Poster hall  
8:00 – 12:20

Philippe Davy [Poster]  
Validation of hydraulic models in fractured rocks. Application to the Formark site (Sweden)  
Moscone South – Poster Hall,  
8:00 – 12:20

## Friday, 13<sup>th</sup>

Marco Dentz [Poster]  
Modeling the effect of motility of bacteria on its transport in a porous media  
Moscone South – Poster Hall  
8:00 – 12:00

ESR2 Guilherme Nogueira [Poster]  
Reactivity and dynamics of Dissolved Oxygen in a Riparian Zone Unveiled through High Frequency Data and Fully-Integrated Modelling  
Moscone South – Poster Hall  
8:00 – 12:00

Jan Fleckenstein [Poster]  
Using dynamic transit times and StorAge Selection (SAS) functions to explore nitrate export from small agricultural catchments  
Moscone South – Poster Hall  
13:40 – 18:00

Damien Jougnot [Poster]  
Towards water flow monitoring in partially saturated porous media using streaming potentials, study of the effect of hysteresis on electrokinetic coupling  
Moscone South – Poster Hall  
13:40 - 18:00