# Hybrid Franco-Brazilian Workshop on Numerical Modeling of Fractured Porous Media

**Hybrid workshop on May 5–6**
08:30 BR (13:30 FR) – 12:00 BR (17:00 FR)

## Location: Laboratoire Jean Alexandre Dieudonné

## Tuesday, 5 May 2026

**Salle 2**
**Zoom:** https://univ-cotedazur.zoom.us/j/82630312291?pwd=fdHhy50Ihavp9C1vJRHGzZd4PmfLrM.1 (https://univ-cotedazur.zoom.us/j/82630312291?pwd=fdHhy50Ihavp9C1vJRHGzZd4PmfLrM.1)

| Time (BR) | Time (FR) | Speaker | Title |
|---|---|---|---|
| 08:30–08:40 | 13:30–13:40 | — | Welcome and Opening Remarks |
| 08:40–09:10 | 13:40–14:10 | Michel Kern | A Space-Time Multiscale Mortar Mixed Finite Element Method for Parabolic Equations |
| 09:10–09:40 | 14:10–14:40 | Géraldine Pichot | The Spectral Domain Decomposition Method GenEO as a Robust Preconditioner for Single-Phase Flow in Fractured Porous Media |
| 09:40–10:00 | 14:40–15:00 | — | Break |
| 10:00–10:30 | 15:00–15:30 | Frédéric Valentin *(Hybrid)* | A Three-Field Multiscale Method |
| 10:30–11:00 | 15:30–16:00 | Antônio Tadeu Gomes *(Hybrid)* | MSL: The software libraries for the family of Multiscale Hybrid Methods |
| 11:00–11:30 | 16:00–16:30 | Konstantin Brenner | Multiscale Discretization of Flow in Discrete Fracture Networks |
| 11:30–12:00 | 16:30–17:00 | — | Discussion |

# Wednesday, 6 May 2026

### Salle Fizeau

**Zoom:** https://univ-cotedazur.zoom.us/j/83443278323?pwd=uYGYlUq4b0Ed8CGfcNS1Nuiqrbdn2X.1 (https://univ-cotedazur.zoom.us/j/83443278323?pwd=uYGYlUq4b0Ed8CGfcNS1Nuiqrbdn2X.1)

| Time (BR) | Time (FR) | Speaker | Title |
|---|---|---|---|
| 08:30–09:00 | 13:30–14:00 | Juan Pacazuca *(Hybrid)* | Stabilized Multiscale Hybrid-Mixed Methods for Reaction-Advection-Dominated Models |
| 09:00–09:30 | 14:00–14:30 | Roland Masson | VEM-Bubble Discretisation of Quasi-Dynamic Models for Induced Seismicity |
| 09:30–09:50 | 14:30–14:50 | — | Break |
| 09:50–10:20 | 14:50–15:20 | Larissa Martins *(Hybrid)* | On the Robustness of H(div; Ω)-Conforming MHM Methods for Elasticity with Weak and Strong Symmetry in Faulted Multilayer Media |
| 10:20–10:50 | 15:20–15:50 | Marcio Murad | Upscaling Relative Permeability Curves in Fractured Porous Media |
| 10:50–11:20 | 15:50–16:20 | Josué Barroso *(Hybrid)* | Graph-Based Permeability Upscaling in Fracture Networks |
| 11:20–12:00 | 16:20–17:00 | — | Discussion |

**Organizing team:** Konstantin Brenner and Frédéric Valentin

**Funding:** Inria–LNCC Associate Team GEM3: Geophysical Modeling and Multiscale Methods