List of posters

- Physical state of di-nitrogen in the presence of porous solids probed by $^{15}$N spin-lattice relaxation in the 30 K – 300 K range. Is the nitrogen adsorption at 77 K usable for the characterization of microporous solids?
  J. Fraissard$^1$, S. Leclerc$^{2,3}$, W. Conner$^4$, D. Canet$^5$ (1 LPEM-ESPCI-UPMC, 2 Univ. de Lorraine-LEMTA, 3 Univ. de Lorraine-ENSEM, France; 4 Univ. of Massachusetts, USA; 5 Univ. de Lorraine, France)

- Development of a new multi-shape particle description strategy: from meshing to discrete resolution
  S. Ferreira, J-M. Schweitzer, T. Sozinho (IFPEN, France)

- Electricity resonance of nanometer water channel
  J. Kou$^{1,2}$, J. Yao$^1$ (1 China Univ. of Petroleum, 2 Zhejiang Normal Univ., China)

- Modelling of exchange and transport of gas and fluids in nanopores: from molecular to continuous description
  P. Simonnin$^{1,2}$, B. Noetinger$^1$, C. Nieto-Draghi$^1$, V. Marny$^2$, B. Rotenberg$^2$ (1 IFPEN, 2 CNRS-UPMC-Phenix, France)

- Effect of permeation configuration on the permeability estimation
  H. Najmi$^1$, E. El Tabach$^2$, K. Chetehouna$^1$, N. Gascoin$^1$, G. Fau$^1$ (1 INSA-CVL-Univ. of Orleans-Prisme, 2 IUT de Bourges-Univ. of Orleans-Prisme, France)

- Spatial temporal modelling of permeability evolution during coking and blocking of porous medium
  E. El Tabach$^1$, K. Chetehouna$^2$, N. Gascoin$^2$, F. Gaschet$^{1,2}$, G. Fau$^2$ (1 IUT de Bourges-Univ. of Orleans-Prisme, 2 INSA-CVL-Univ. of Orleans-Prisme, France)

- A modified pressure-pulse decay approach for determining permeability of unconventional cores
  Y. Li$^1$, Z. Yang$^1$, M. Dong$^{1,2}$, H. Gong$^1$, Q. Sang$^1$ (1 China Univ. of Petroleum, China; 2 Univ. of Calgary, Canada)
- Molecular simulations of supercritical fluids permeating through microporous constrictions
  F. Oulebsir, R. Vermorel, G. Galliero (1 LFC-R-CNRS-Total-UPPA, France)

- Fine pore structure of two different claystones
  Y. Song¹, C. Davy¹, D. Troade², J.C. Robinet³, J. Talandier³, M. Dymitrowska⁴, F. Skoczylas¹ (1 EC Lille-CNRS, 2 IEMN-CNRS, 3 Andra, 4 IRSN-PRP-DGE-SEDRAVN- BERS, France)

- No reduction, by CH₄ in presence of excess O₂, over aluminated and functionnalized organised mesoporous silica MCM-41 type
  K. Benabou¹, A. Belhakem¹, S.A. Ghomari³, F. Taleb¹, M. Belhakem¹, A. Khelifa¹ (1 Lab. SEA2M-FST-Univ. Mostaganem, 2 Lab. MBAFS-FSNV-Univ. Mostaganem, Algeria)

- Effect of hydrostatic loading on the micro-structure and the transfer properties of a tight gas sandstone
  Y. Wang¹, F. Agostini¹, F. Skoczylas¹, L. Jeannin² (1 EC Lille, 2 GDF Suez E&P, France)

- Experimental study and modelling of the effect of pore size distribution on hydrocarbon phase behaviour in nanopores
  L. Wang, K. B. Neeves, X. Yin, E. Ozkan (Colorado School of Mines, USA)

- Laboratory threshold pressure measurements under in situ conditions
  E. Jahns, H. Baumgartner, C. Dietl (Gesteinslabor Dr. Eberhard Jahns, Germany)

- The step-decay: a new method to characterize poorly permeable porous media
  D. Lasseux¹, Y. Jannot², S. Profice³, G. Hamon³ (1 CNRS-Univ. Bordeaux-I2M, 2 CNRS-Univ. Lorraine-LEMTA, 3 CSTJF-Total)

- A coupled hydro-mechanical model for compacted bentonite under in situ conditions
  A-C. Dieudonné¹, J. Talandier³, F. Collin¹, R. Charlier¹ (1 Univ. of Liege, 2 FRIA-FRS-FNRS, Belgium; 3 Andra, France)

- A quasi-steady method to measure permeability of poorly permeable porous media
  Y. Jannot¹, D. Lasseux² (1 CNRS-Univ. Lorraine-LEMTA, 2 CNRS-Univ. Bordeaux-I2M, France)

- Immiscible water-alternating-gas experiments on a high-temperature low-to-middle permeability reservoir with vertical heterogeneity
  L. Zhang, X-A. Yue, Z. Yang (China Univ. of Petroleum, China)

- Effect of larger pores and cracks on diffusion in zeolite membranes
  M. Dudák (Univ. of Chemistry and Technology, Czech Republic)

- Direct observation of the impact of nanopore confinement on hydrocarbon gas condensation
  E. Parsa, X. Yin, E. Ozkan (Colorado School of Mines, USA)

- Influence of a macroporal heterogeneity on fluid flow and solute transport at pore scale in model porous media
  S. Batany, P-E. Peyneau (IFSTTAR, France)
• Specificity of ionic adsorption in silicas studied with molecular dynamics and potential of mean force
  B. Siboulet¹, S. Hocine¹, B. Coasne²,³,⁴, M. Duvail¹, P. Turq⁵, J.-F. Dufrêche¹ (¹ ICSM-CEA-CNRS-Univ. Montpellier 2-ENSCM, 2 Institut Charles Gerhardt Montpellier-ENSCM-Univ. Montpellier 2-CNRS, France; 3 MultiScale Material Science for Energy and Environment-CNRS-MIT, 4 MIT, USA; 5 UPMC, France)

• Gas adsorption and characterisation of organic matter in shales
  M.F. Romero-Sarmiento, M. Fleury, R. Fabre, M. Thomas, H. Biguerd, F. Delbos, I. Kowalewski, C. Nieto-Draghi (IFPEN, France)

• A hollow cylinder device for low permeability measurements: application on intact and sheared specimens of swelling shale at ambient and elevated temperature
  H. Menaceur¹, P. Delage¹,², A.M. Tang¹, J. Talandier² (¹ Ecole des Ponts ParisTech-Navier-CERMES, 2 Andra, France)

• Gas transfer mechanisms in unconventional resources, how to determine key parameters: porosity, permeability, Knudsen diffusion, sorption isotherms and diffusivity
  G. Berthe (IFPEN, France)

• Characterization of hydraulic fracturing in low permeability sandstone from Sichuan basin, China
  X. Li¹, Q. Li¹, X. Lei² (¹ Chinese Academy of Sciences, China; ² AIST, Japan)

• Multi-step upscaling of shale sequences: from cm-scale to genetic-unit scale
  J. Ma, G. Couples (Heriot-Watt Univ., UK)

• Using digital rocks to calculate pore-scale flows in Mudrocks
  J. Ma, G. Couples, Z. Jiang, R. van Dijke (Heriot-Watt Univ., UK)

• The KG²B project: a world-wide benchmark of low permeability measurement
  C. David¹, J. Wassermann¹, F. Amann², the KG²B Team (¹ Univ. Cergy-Pontoise, France; ² ETH Zürich, Switzerland)

• Confinement effect on gas-liquid flow through various porous media
  M. Serres¹,², V. Vidal¹, R. Philippe² (¹ Univ. Lyon-ENS-CNRS, ² CNRS-CPE Lyon, France)