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Subsurface Multiphase Flow and Contamination Remediation

Guest Editors:

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Deadline for manuscript submissions: closed (20 May 2020)



Dear Colleagues,

The accidental release of hazardous hydrophobic organic chemicals including light (L) and dense (D) non-aqueous phase liquids (NAPLs, such as petroleum hydrocarbons and chlorinated solvents respectively) into the subsurface is a significant environmental problem. The varied physical and chemical dynamics in the subsurface create complex multiphase, multicomponent, and multiscale issues when addressing subsurface NAPL contamination.

The aim of this Special Issue is to encourage the submission of works focused on various aspects of multiphase multicomponent flow, biotic and abiotic reactions, and multi-phase remediation of NAPLs. We consider theoretical, computational and experimental addressing multiphase dynamics papers and measurement techniques at various scales (pore to Darcy and field scale). Papers addressing natural source zone depletion (NSZD) and the longevity of chemicals in different phases are also encouraged. Site characterization and case studies are considered only if they discuss novel observations and techniques. Papers on single-phase contamination transport and remediation will not be given a priority.









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Dr. Jean-Luc PROBST

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