

OFFRE DE STAGE

Entreprise : Solvay
Secteur d'activité : Recherche en Chimie de Spécialité
Lieu du stage : Solvay Laboratoire du Futur, Pessac

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Service et labo : ARTI / LOF

Maître de stage : Steven Meeker / Hugues Bodiguel

Lieu d'accueil : Solvay Laboratoire du Futur, Pessac

Titre du stage : Fracturing fluids - Proppant suspension and transport mechanisms

Durée du stage : 4 à 6 mois

Dates Prévués : 2014

Profil souhaité : Bac + 5

Connaissances requises Some basic knowledge is expected in fluid mechanics and rheology.

Description du stage : Surfactant-based fracturing fluids are often used for proppant (e.g. sand) transport in oilfield stimulation. However, the basic mechanisms of proppant transport are poorly understood. In this internship we propose to study the flow of surfactant fracturing fluids incorporating glass spheres as a model proppant to better understand and to improve the performance of these fracturing fluids. Microfluidics and microscopy techniques will be used to control and visualize the flow.

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