

Séminaire SOLEIL

# Understanding carbon interfacial chemistry : mechanistic insights and applications

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Invitée par Emiliano FONDA

**Lundi 20 décembre à 14h00****Grand Amphi SOLEIL**

Carbon materials display a wide range of electronic and mechanical properties; this versatility makes them interesting candidates for applications from protective coatings to gas storage and gene delivery. The interfacial chemistry of carbon is at the heart of most of its current and potential applications, however, little is known about how bulk carbon properties control its surface reactivity and behavior.

In this presentation we will discuss our current work on understanding the role that electronic properties have in controlling the reactivity of carbon towards its functionalization. In particular, we have focused on functionalization strategies that rely on reactions at the carbon/liquid interface and that use light and radical species in order to yield surface modifications under mild conditions. We have found that reaction yields strongly depend on the carbon and liquid electronic properties and that mechanistic understanding can be used to improve and modulate reactivity. Finally, we will report on applications of carbon materials for imaging and delivery at the interface with biology.

**Ce séminaire sera suivi d'une pause-Café**

**Formalités d'entrée** : accès libre dans l'amphi du Pavillon d'Accueil. Si la manifestation a lieu dans le Grand Amphi Soleil du Bâtiment Central, merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

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