

Les Conférences pharmaceutiques Barré



Les **2 et 3 mai** prochains, la Faculté de pharmacie aura l'honneur d'accueillir dans le cadre des Conférences pharmaceutiques Barré, le **Dr Joseph M. DeSimone**, éminent professeur de génie chimique de l'Université de la Caroline du Nord et PDG et cofondateur de Carbon Inc. Dr. DeSimone a notamment reçu en 2016 du président Barack Obama la *National Medal of Technology and Innovation* et, en 2018, le prestigieux prix de la « National Academy of Sciences for convergent science ». À cette occasion, le Dr. DeSimone donnera deux conférences dont vous trouverez tous les détails ci-dessous. [Nous vous invitons à cliquer ici afin de découvrir son impressionnant parcours.](#)

Jeudi, 2 mai 2019 à 11h30

Salle S1-151 – Pavillon Jean-Coutu

Mot d'accueil : Lyne Lalonde, doyenne, Faculté de pharmacie

Introduction : Davide Brambilla, professeur, Faculté de pharmacie

Conférence : Digital Light Synthesis to Drive Manufacturing : Convergence of Hardware, Software and Molecular Science

Résumé de la première conférence :

In many ways, manufacturing processes define what's possible in society. The opportunities to make things that can improve the health and well being of society are central to our interests to develop scalable methods that can make complex structures more economically than in the past. This lecture will describe a new advance in additive manufacturing, referred to as Digital Light Synthesis, that is rapid, uses materials that have the requisite properties to yield final parts and is economically competitive. Our approach promises to advance industry beyond basic prototyping, which is what 3D printing has primarily been limited to, to truly enable 3D objects from a pool of resin instead of printing them layer-by-layer. DLS capitalizes on the fundamental principle of oxygen inhibited photopolymerization to generate a continual liquid-interface of uncured resin between the growing part and the exposure window.

Vendredi, 3 mai 2019 à 11h30

Salle S1-151 – Pavillon Jean-Coutu

Conférence : Convergent Research to Address Societal Needs

Résumé de la deuxième conférence :

This presentation will discuss connections that links polymer synthesis in supercritical CO₂ to cancer treatment and vaccines, non-flammable polymer electrolytes for lithium ion batteries, and 3D printing. I will attempt to show the value of versatility in applying one's primary area of expertise to address pertinent questions in science and in society. I will discuss the key factors to enable a research effort to take shape in an effort to influence diverse fields and have a tangible impact in the private sector to improve the health and well-being of society through the translation of discoveries into the marketplace.
