

UCA Department of Chemistry Seminar

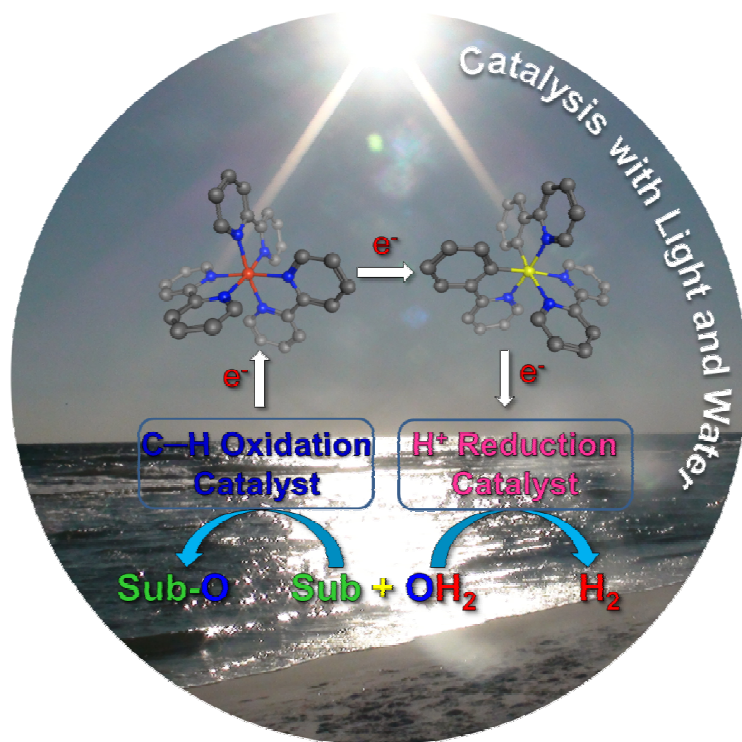
February 3, 2012 2 pm Laney Hall Rm 102

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Hydrogen Production Coupled to Hydrocarbon Oxygenation from Photocatalytic Water Splitting

The development of a homogeneous system for H₂ production and hydrocarbon oxidation in the absence of any sacrificial reagent will be discussed. It consists of [Ru(TPA)(H₂O)₂]²⁺ and Fe₃(CO)₁₂ as catalysts, [Ru(bpy)₃]²⁺ and [Ir(bpy)(ppy)₂]⁺ as photosensitizers (PS). Water is not only the oxygen source for hydrocarbon oxygenation, but also the source for H₂ formation from photocatalytic water splitting.



Lunch provided for students with the seminar speaker from 12 – 1 pm in Rm 105.
Contact P. Desrochers (patrickd@uca.edu) for more information.