

Conférence - CEISAM - UMR CNRS 6230

**Mardi 08 Mars 2016
9h00 - Salle Marie Curie**

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Towards Bright Blue-Emitting Materials for Solid-State Lighting

“Artificial lighting represents an almost \$91 Billion worldwide, corresponding to 20% of total worldwide electricity output. The fabrication of solid-state lighting devices that are significantly more energy efficient and lower cost than the current state-of-the-art is particularly germane to addressing issues relating to energy consumption, environmental impact and quality of living. Organic Light Emitting Diodes (OLEDs) and Light-emitting electrochemical cells (LEECs) represent two promising technologies. However, stable and bright white light devices have yet to be fully realized in the latter while the cost is presently too high in the former. One of the main challenges remaining is the development of bright blue emitters that when incorporated produce bright and stable devices of the same colour. In this presentation I will outline our recent efforts towards the rationale design of blue-emitting cationic iridium complexes and small molecule organic emitters and their incorporation into LEECs and OLEDs.”

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