

## CBC SEMINAR ANNOUNCEMENT



**Professor Pierre Braunstein**  
**Université de Strasbourg**

### The colourful chemistry of zwitterionic quinonoid ligands and their metal complexes

Functional ligands combining chemically different donor atoms within the same molecule are of considerable current interest owing to their implication in a number of chemical or physical processes.<sup>1</sup> A recently discovered class of quinonoid zwitterions provides new insights into the synthesis and properties of quinonoid molecules and their use in coordination chemistry, organometallic chemistry and homogeneous catalysis.<sup>2</sup> Furthermore, these zwitterions afford new types of self-assembled molecular films which offer interesting possibilities for engineering metal-organic interfaces, of critical importance for organic electronics.<sup>3</sup>

- 1 P. Braunstein, F. Naud, *Angew. Chem. Int. Ed.* 2001, 40, 680; C. S. Slone, D. A. Weinberger, C. A. Mirkin, *Prog. Inorg. Chem.* 1999, 48, 233; A. Bader, E. Lindner, *Coord. Chem. Rev.* 1991, 108, 27, and references cited therein.
- 2 see e.g. : P. Braunstein, O. Siri, J.-P. Taquet, M.-M. Rohmer, M. Bénard, R. Welter, *J. Am. Chem. Soc.* 2003, 125, 12246; P. Braunstein, O. Siri, J.-P. Taquet, Q.-Z. Yang, *Angew. Chem., Int. Ed.* 2006, 45, 1393; P. Braunstein, O. Siri, J.-P. Taquet, Q.-Z. Yang, *Angew. Chem. Int. Ed.* 2006, 45, 1393; Q.-Z. Yang, A. Kermagoret, M. Agostinho, O. Siri, P. Braunstein. *Organometallics*, 2006, 25, 5518; J.-P. Taquet, O. Siri, P. Braunstein, R. Welter, *Inorg. Chem.* 2006, 45, 4668; O. Siri, J.-P. Taquet, J.-P. Collin, M.-M. Rohmer, M. Bénard, P. Braunstein, *Chem. Eur. J.* 2005, 11, 7247; Q.-Z. Yang, O. Siri, P. Braunstein, *Chem. Commun.* 2005, 2660.
- 3 J. Xiao, Z. Zhang, D. Wu, L. Routaboul, P. Braunstein, B. Doudin, Y. B. Losovyj, O. Kizilkaya, L. G. Rosa, C. N. Borca, A. Gruverman, P. A. Dowben, *Phys. Chem. Chem. Phys.* 2010, 12, 10329–10340; L. Routaboul, P. Braunstein, J. Xiao, Z. Zhang, P. A. Dowben, G. Dalmas, V. Da Costa, O. Félix, G. Decher, L. G. Rosa, B. Doudin, *J. Am. Chem. Soc.* 2012, 134, 8494; D. A. Kunkel, S. Simpson, J. Nitz, G. A. Rojas, E. Zurek, L. Routaboul, B. Doudin, P. Braunstein, P. A. Dowben, A. Enders, *Chem. Commun.*, 2012, 48, 7143.

<b>Date:</b>	<b>1<sup>st</sup> August 2012 (Wednesday)</b>
<b>Time:</b>	<b>2:30pm – 4:00pm</b>
<b>Venue:</b>	<b>NTU SPMS CBC Building Level 2, Conference Room</b>
<b>Host:</b>	<b>Professor Francois Mathey</b>