## Crystal Structure of [RuCl(dpphen)(terpy)]PF<sub>6</sub> and [Ru(CH<sub>3</sub>CN)(phen) (terpy)](PF<sub>6</sub>)<sub>2</sub>

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The desired complex was prepared by a sequential procedure with ligand replacement.  $[RuCl_3]H_2O$  and

2,2':6',2''-terpyridine (terpy) were mixed in ethyleneglycol (15 ml). The suspended mixture was refluxed for 5 min. in a microwave oven under a purging nitrogen atmosphere. 4,7-Diphenyl-1,10-phenanthroline (dpphen) was added to the refluxing red solution for 10 min. A saturated aqueous solution of KPF<sub>6</sub> (20 ml) was added, and a black-red product began to



precipitate. We examined complexes 1 and 2 using X-ray analysis, CV, and UV.

Crystal data of [RuCl(dpphen)(terpy)]PF<sub>6</sub> (1) [1] Monoclinic, C2/c, a = 42.071(1) Å, b = 8.6042(1) Å, c = 19.9088(1) Å,  $\beta$  = 96.096(2), V = 7165.9(2) Å<sup>3</sup>, Z = 8, R(F2)= 0.083, wR(F2) = 0.201 for 28548 measured reflections.

Crystal data of [Ru(CH<sub>3</sub>CN)(phen)(terpy)](PF<sub>6</sub>)<sub>2</sub> (**2**) [2] Triclinic, P-1, a = 8.7861(3) Å, b = 10.3590(9) Å, c = 17.9636(7) Å,  $\alpha$  = 99.192(7),  $\beta$  =90.389(2),  $\gamma$  = 105.774(3), V = 1551.0 (2) Å<sup>3</sup>, Z = 2, R(F2)= 0.089, wR(F2) = 0.172 for 14369 measured reflections.

[1] Yoshikawa N., et al., *Acta Cryst.*, 2005, **E61**, m545-m547. [2] Yoshikawa N., et al., *Acta Cryst.*, 2005, **E61**, m55-m56.

Keywords: microwave, ruthenium, terpyridine