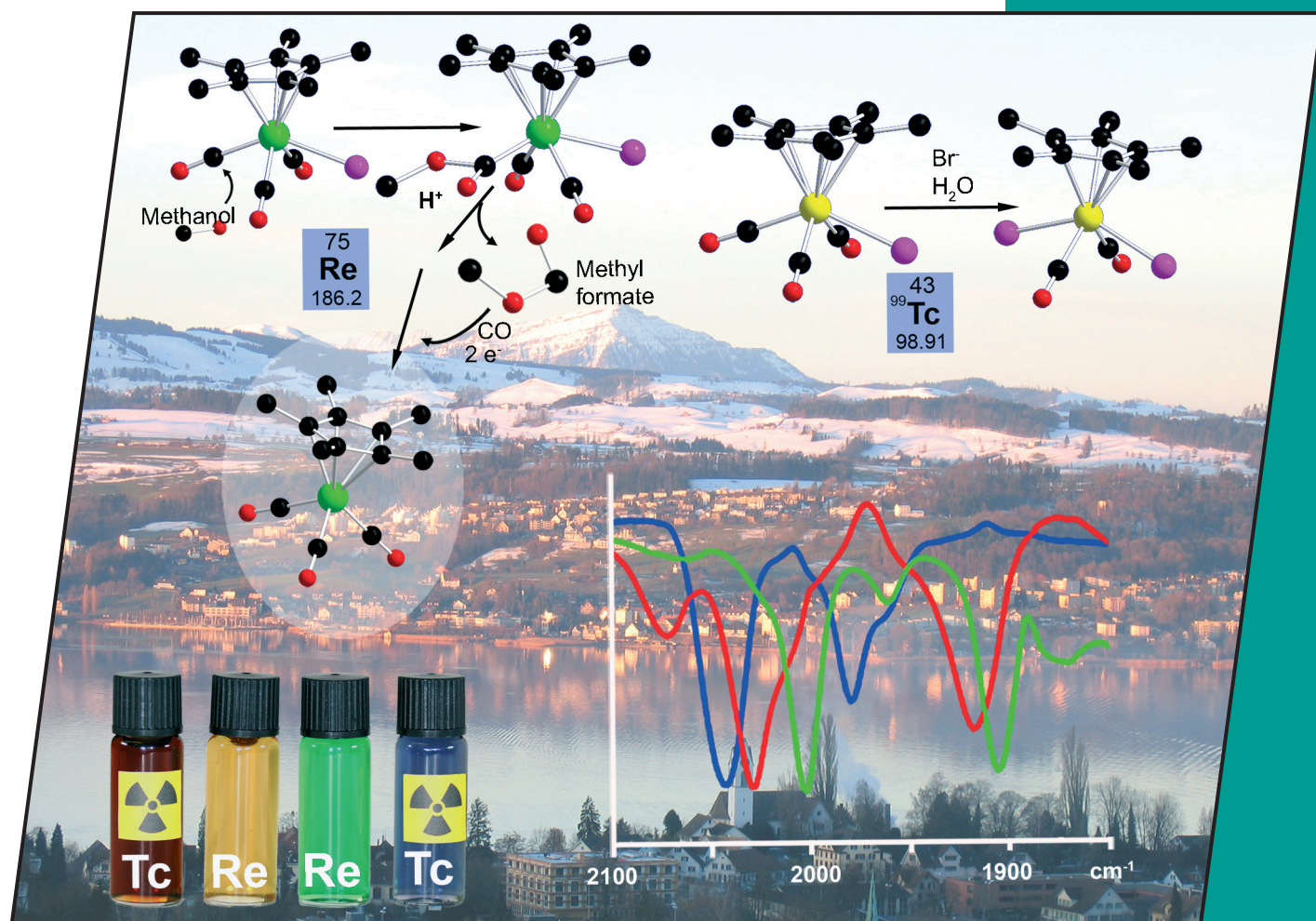


27/2008  
3rd September Issue

ALERTS and  
RSS-FEEDS  
Free Subscription

**EurJIC**  
European Journal of  
Inorganic Chemistry



**Cover Picture**

Roger Alberto et al.

Potential Radiopharmaceutical Tc- and Re-Prodrugs



A union formed by chemical societies in Europe (ChemPubSoc Europe) has taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further members of ChemPubSoc Europe (Austria, Czech Republic and Sweden) are Associates of the two journals.

## COVER PICTURE

The cover picture shows new aspects of  $[\text{Cp}^*\text{Re}(\text{CO})_3\text{Br}]^+$  and  $[\text{Cp}^*\text{Tc}(\text{CO})_3\text{Br}]^+$  chemistry. High-yield preparation of these basic complexes (especially for  $^{99}\text{Tc}$ ) enabled a comparative exploration of the respective chemistries in water and organic solvents. The Lewis acidic  $\text{Re}^{\text{III}}$  and  $\text{Tc}^{\text{III}}$  centres activate the CO ligands for directed substitutions and nucleophilic attack. The reaction with  $\text{CH}_3\text{OH}$  gave a methyl formate complex which reduced to  $[\text{Cp}^*\text{M}(\text{CO})_3]$  under acidic conditions. IR spectroscopy and kinetic studies with  $^{13}\text{C}$ -labelled formate revealed the source for CO in  $[\text{Cp}^*\text{Re}(\text{CO})_3]$ . Shown are the different colours of homologous Re and Tc complexes against a background of the Zurich lake area. The reactivity of the title compounds with alcohols implies potential for targeted inorganic medicinal chemistry if the OH group is pendent to a (radio)pharmaceutical. Details are discussed in the article by R. Alberto et al. on p. 4205ff. We thank Dr. F. Wild for designing this picture.

