

STEINER LECTURE  
=====**LINDA DOERRER**

BOSTON UNIVERSITY

\*\*\*\*\*

**WEDNESDAY****3/5/08****4:45 P.M.****SCIENCE CENTER A255*****“Fluorinated Alkoxide and Aryloxi-  
Metal Complexes:  
The Power of Fluorine”***

Fluorine, the most electronegative element in the periodic table, is responsible for stabilizing some exceptional molecules such as  $[\text{XeF}_2][\text{PF}_6]$  and  $\text{PtF}_6$ . Fluoride's usefulness as a ligand is limited, however, because it can be quite sensitive to hydrolysis and strongly prone to bridging. Our group has prepared two families of transition metal compounds with heavily fluorinated aryloxi and alkoxide ligands. These ligand environments have the potential to stabilize high oxidation state species and facilitate useful reactivity, but do not suffer the same vulnerabilities. The synthesis, characterization, and reactivities of these new compounds will be discussed.

\*\*\*\*\*

---

THERE WILL BE A RECEPTION FOR THE SPEAKER AT 4:30 P.M.  
WEDNESDAY IN LOVE LOUNGE, REFRESHMENTS WILL BE PROVIDED

---

*SPONSORED BY THE STEINER FUND*

