

**CHROMATE AND SULFATE ADSORPTION AT THE
GIBBSITE/SOLUTION INTERFACE**

Rohan Weerasooriya¹ and James O. Leckie
Department of Civil Engineering, Stanford University,
California 94305

1 Present Address: Institute of Fundamental Studies, Hantana Road, Kandy, Sri Lanka

Gibbsite is a common soil component and provides a likely reactive surface for adsorption of trace metals. Recent experimental studies of the adsorptive behaviour of chromate in heterogeneous aqueous systems have been modelled using the triple layer model (TLM). The variables explored experimentally were pH, adsorbent concentration, ionic strength and sulfate as a competitive ion.