

**COMPOUND SEMICONDUCTOR  
ELECTRODEPOSITION, A HISTORICAL  
PERSPECTIVE.**

John Stickney<sup>1</sup>

<sup>1</sup>Department of Chemistry  
University of Georgia  
Athens, GA 30602  
USA

This paper will concern some of the major innovations in the formation of compound semiconductors electrochemically. The idea will be to describe the history and evolution of compound semiconductor electrodeposition. Selected examples of various methodologies will be described, including examples of codeposition, precipitation, two stage and EC-ALE. Most of the work addressed will concern the formation of II-VI compounds such as CdS and CdTe, however, there is a significant amount of work on III-V compounds, and some others. Oxides will not be addressed to a large extent, as such studies are contiguous with the vast literature of corrosion and passivation.