EE 500E Energy & Environment Seminar

Title: Advanced Battery Technologies - From Lead to Lithium

Speaker: Walter van Schalkwijk
Affiliate Professor of Chemical Engineering
University of Washington

Location: Winkenwerder 201, UW campus
Time and Date: 3:30 pm - 4:20 pm, Thursday, November 13, 2008

Abstract

New materials hold the key to fundamental advances in energy conversion and storage, both of which are vital in order to meet the challenges for support of the electrical grid and transportation systems. Work continues on most major battery chemistries with lithium technologies getting the most attention, but other chemistries are perhaps more suitable for large applications. One question arises: with the advent of large cell and large scale applications of lithium-ion batteries is there enough lithium to support significant use on a large scale?

Walter van Schalkwijk is a battery industry consultant and affiliate professor of Chemical Engineering at the University of Washington. He is also chairman of the university’s advisory board for the IGERT Bio-Energy Program. His recent research interests include the use of computed tomography for non-invasively studying batteries as a diagnostic tool in failure analysis and prevention.