



The Electrochemical Society – Detroit Section
Seminar Notice: Wednesday, January 31st, 2007

Cathode Structure Property Relationships: Electrochemistry & Mechanics

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The electrochemical responses of battery electroactive materials are evaluated with formulations which yield porous electrodes. In this study we detail the effects of the choice of binder, homopolymer PVDF and its copolymers, and its loading level on the electrochemical performance of LiCoO₂ cathodes, coupling the analysis to electrode porosity.

Electrode mechanical properties are also examined and correlated with the electrochemical responses. We establish a fundamental trade-off between mechanical durability and electrochemical performance based in the need for complex porous microstructures to provide Li⁺ transport.

Date: *Wednesday, January 31st, 2007*

Location: Lawrence Technological University
21000 West Ten Mile Road
Southfield, MI 48075

Building # 8 (Technology Bldg. in the Gallery, Main Floor)

Enter from 10 Mile Rd. Use Parking Lot A or H (Parking Lot H is across 10 Mile Rd.)

Time: 5:30 pm Reception / 6:30 pm Dinner / 7:30 pm Speaker

Price: \$20 Members / \$22 Guests / \$15 Students

Payment: Cash or Check

RSVP by: **Friday, January 26th, 2007 to Alvaro Masias**
alvaro.masias@tema.toyota.com, (734) 995-4025

For Directions

Area Map: <http://www.ltu.edu/contacts/directions.asp>

Campus Map: <http://www.ltu.edu/contacts/campusmap.asp>



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