



The Electrochemical Society – Detroit Section

Seminar Notice: Tuesday, December 4th, 2007

NEW DEVELOPMENTS IN ELECTROCHROMIC DISPLAY DEVICES

Dr. Aline Rougier

Laboratoire de Réactivité et de Chimie des Solides
33 rue St Leu, 80039 Amiens, France

Electrochromic materials, which are able to change their optical properties under an applied voltage, were brought to public attention by S.K. Deb in the late sixties, thanks to his work on tungsten oxide films. Initially, such materials received attention for applications involving information displays but were not competitive with liquid-crystal technology. Further interest was generated in the mid-1980s, with the commercialization of rear-view mirrors and their development in smart windows for buildings and automobiles. The range of applications for electrochromic materials has recently opened up to include systems that are optically active in the infrared region, for use in thermal exchange and night vision sensors. In this presentation, the electrochromic behavior of thin oxide films in the IR region will be discussed. Modelling results will accompany experimental data in order to demonstrate the design of complete devices.

Speaker bio:

Dr. Aline Rougier received her PhD in Materials Chemistry from the University of Bordeaux in France. She was a post doctoral fellow at the General Motors R&D Center in Warren Michigan and at the Lawrence Berkeley National Laboratory. She joined the Laboratoire de Réactivité et de Chimie des Solides, where she is a senior staff member and in charge of the electrochromic group. Dr. Rougier has extensive experience in the areas of advanced batteries, hydrogen storage, and display devices.

Date: *Tuesday, December 4th, 2007*

Location: Lawrence Technological University
21000 West Ten Mile Road
Southfield, MI 48075
Building #5 (Taubman Welcome Center), 4th Floor, Room 406
Use Parking Lot A, C or D (Lots C & D are accessed off NW Highway)

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: **Tuesday, November 27th, 2007 to Chad Kotarba**
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