



University of Hawai'i at Mānoa

Hawai'i Natural Energy Institute

School of Ocean & Earth Science & Technology

Material Issues for Energy Storage and Conversion Research and Development in Canada

An overview of the present situation in Canada will be presented. Highlighted will be the reasons for the interests in Canada, its history, the current R&D programs of interest to NRC, our research networks and examples of materials research projects. Hydrogen production, storage and utilization will be covered, along with fuel cell systems [PEM, DMFC, SOFC] and their applications, demonstration projects, international networks, etc. Materials challenges associated with the operation of these systems will be discussed, as well as design and scale-up issues. Examples of some of our best current results will be presented, with a view to eventual wide-scale applications.

Barry MacDougall

National Research Council Canada (NRC)

Ottawa, Canada

President of The Electrochemical Society

Monday, April 14, 2008

4:00 – 5:30 PM

Holmes 287

Co-Sponsored by

**Department of Mechanical Engineering and
Hawai'i Natural Energy Institute**