



Northeastern University

College of Engineering

Please join us for a
SPECIAL SEMINAR

Wednesday, November 2, 2011
110 West Village H
11:45 a.m. – 1:00 p.m.

***“A Spectrum of Electrochemical Studies
in the Department of Physical Chemistry
at Vilnius University”***

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ABSTRACT

An overview of our research at Vilnius University will be presented. The scope of investigations on the electroreduction kinetics of Co (II) and Ni (II) will be examined and different electrochemical behaviors between these two metals discussed, for the development of corrosion and wear resistant coatings. Fundamental electrochemical processes can also be probed using Electrochemical Impedance Spectroscopy (EIS). An example of EIS will be discussed for the study of CoW electrodeposition. Additionally, the electrodeposition of nanostructured W- and Mo- alloys, the bath chemistry, and the tribological, corrosion and tribocorrosion behavior of coatings and perspectives in microtechnology will be presented.

Refreshments will be served.