

IEEE Power & Energy Society Winnipeg Section PRESENTS...A LUNCHEON MEETING

TOPIC:	Developments in the Line Fault Location Technology for HVDC Systems
PRESENTER:	Kasun Nanayakkara and Athula Rajapakse
TIME AND DATE:	12:00 Noon, Tuesday, April 23, 2013
LOCATION:	Holiday Inn South, 1330 Pembina Highway, Winnipeg

- ◇ Cash bar available at Noon.
- ◇ Lunch served at 12:15 PM.
- ◇ Meeting concluded at 1.30 PM.
- ◇ Cost of the meal (payable at the door).

Early registration (*On or Before 19th Apr.*)

IEEE Members - **\$16.00**
Non-Members - **\$20.00**

Late registration (*After 19th Apr.*)

IEEE Members - **\$18.00**
Non-Members - **\$22.00**

The IEEE PES Winnipeg Chapter must guarantee a minimum attendance to the hotel, so please take a moment to register early by RSVP to **Kang Liu** by **Friday Noon, 19th April 2013**, in one of the following ways:

Phone: 204-360-6419
Email: kliu@hydro.mb.ca

Abstract:

Quick and accurate location of permanent faults on the transmission lines is very important for speedy restoration of high voltage direct current (HVDC) transmission systems that carry vast amounts of power over long distances. The current fault location technology based on travelling wave principle has served well with the conventional point-to-point HVDC systems. However, new developments in HVDC technology such as extremely long HVDC transmission lines and cables, HVDC transmission systems consisting of segments of cables and overhead lines, voltage source converter (VSC) based HVDC systems, and multi-terminal HVDC schemes (MTHVDC) pose challenges to the existing fault location technology. This presentation will introduce some cost effective fault location solutions for these non-conventional HVDC configurations, developed through collaborative research by the University of Manitoba and the Manitoba Hydro International (MHI).

Biography:

Kasun Nanayakkara received the B.Sc. (Eng.) degree from the University of Moratuwa, Sri Lanka, in 2005 and the M.Sc. degree from the University of Manitoba, in 2009. He is pursuing the Ph.D. degree in the Department of Electrical and Computer Engineering at the University of Manitoba. He is currently with the Teshmont Consultants.

Athula Rajapakse is an Associate Professor at the Department of Electrical and Computer Engineering at the University of Manitoba with research interests in power system protection and grid integration of renewable energy systems.

Re: IEEE PES Luncheon Meeting at 12:00 Noon on Tuesday, April 23, 2013

Name: _____ Any Diet Restrictions: _____

Company: _____

Telephone no.: _____ Number in party: _____

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