



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

<p>TOPIC:</p> <p>PRESENTER:</p> <p>TIME AND DATE:</p> <p>LOCATION:</p>	<p>Basics of Geomagnetically Induced Current and Effects on Power Transformers</p> <p>Dan Boyd</p> <p>12:00 Noon, Tuesday, May 17, 2016</p> <p>Holiday Inn South, 1330 Pembina Highway, Winnipeg</p>						
<p>◇ Lunch served at 12:15 PM.</p> <p>◇ Meeting concluded at 1.30 PM.</p> <p>REGISTRATION FEES</p> <table style="margin-left: 20px;"> <tr> <td>IEEE and PES Members</td> <td style="text-align: right;">\$17.00</td> </tr> <tr> <td>IEEE Members</td> <td style="text-align: right;">\$20.00</td> </tr> <tr> <td>Non-Members</td> <td style="text-align: right;">\$25.00</td> </tr> </table> <p>Please visit our website to register for the technical meeting. The IEEE PES Winnipeg Chapter must provide the Holiday Inn with the number of attendees. Our best estimate of walk-in registrants will be submitted but we cannot guarantee all walk-in registrants will be served lunch. Registration closes on Friday Noon, 13 May 2016. No refunds after registration closes.</p> <p>If you have any question, please contact Kang Liu at 204-360-6419.</p>	IEEE and PES Members	\$17.00	IEEE Members	\$20.00	Non-Members	\$25.00	<p>Abstract:</p> <p>The impact of Geomagnetically Induced Currents (GICs) on the operation of the power grid and power apparatus, especially transformers, is in recent years of increasing interest. This presentation will address fundamentals of geomagnetic disturbance, generation of GICs, and their impact on in-service power transformers. Further areas of discussion will include how various transformer constructions impact their vulnerability to this phenomena, and a brief touch on how the industry has moved to address GICs.</p> <p>Biography:</p> <p>Dan Boyd received his B. Sc. in electrical engineering from the University of Manitoba in Winnipeg, Canada in 2006. Dan has worked in the transformer industry for 10 years and currently operates in the role of Product Sales Manager for PTI Manitoba Inc. He has worn a number of hats including Control System Designer, Transformer Designer, and Quotation Design Group Leader. During this time he has developed transformer designs up to 500kV class and 650MVA for a variety of applications including GSU, power, autotransformers, mobile substations, static VAR applications, and others. He has also been involved in research in the area of Geomagnetically Induced Currents and their effects on transformers.</p>
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