



Proudly invites you to the Virtual Professional Development Seminar 2021

Registration: www.fmc-egm.ca (Upcoming Events)

Cost: Free

CPD: Total 2 PD Hours

Where: Zoom Meeting – Links will be provided through email

When: 10:00 AM CST on July 24, 2021

ProDev 5.0: Powering the Transition to Zero Emission Vehicles: A Polytechnique Perspective

Introductions, Presentation and Q&A - 15 minutes

Presentation - 30 to 45 minutes



1. Overview

In Canada, the transportation sector is the second-largest source of greenhouse gas emissions. Passenger transportation alone makes up 53% of emissions. Canadians and Americans also drive the world's most polluting cars and trucks, emitting 60 tonnes of climate pollution over their lifespan. If Canadians continue to drive internal combustion engine vehicles that rely on fossil fuels, we as a country will fail to meet our climate targets to help reduce the worst effects of climate change.

The good news is that there are alternatives. Electric and alternative fuel vehicles for personal and commercial use are rapidly entering the market. The presentation will provide a general overview of the Canadian EV landscape and some particular activities and unique facilities supporting EV demonstration and applied research at Red River College.

2. Our Speaker

Jose "Jojo" Delos Reyes has a B.S. Information Technology from the Manuel Enverga S. University in the Philippines. He also completed an Advanced Diploma in Technology Management (2010) and a certificate in Project Management (2015) from Red River College (RRC).

Before coming to Canada, Jojo worked for more than a decade at a multi-national company – Intel Corporation, with solid experience in process and equipment engineering, new product introduction, test hardware development, and project management.

Jojo joined RRC's Research Partnerships and Innovation department in 2010 as an intern and became the Research Manager in 2013. He supported applied research and development activities related to sustainable infrastructure, alternative energy demonstration and testing (i.e., parabolic solar trough, vertical axis wind turbine), and cold-weather testing of electric vehicles. His role in the department has evolved over the years. He is currently leading a small research team working on applied research and development activities related to connected and zero-emission vehicle technologies, applied research services, performance testing using RRCs climatic chamber with a built-in dynamometer (Motivelab), and program administration support on heavy equipment vehicle GHG emissions reduction. In addition, he also supports all research grant applications as the liaison between RRC and the funding agencies.

ProDev 6.0: Becoming an Energy Advisor

Introductions, Presentation and Q&A - 15 minutes
Presentation - 30 to 45 minutes



1. Overview

Residential buildings contribute about 17% of total global energy-related CO₂ emissions. The climate pollution from buildings comes from burning of fossil fuels for our heating, cooling, and domestic water needs. We need to act to limit global warming to well below 2 degrees Celsius compared to pre-industrial levels. To achieve this, we need to reach global peaking of greenhouse gas emissions as soon as possible to achieve a climate neutral world by 2050. Energy advisors play an important role in the fight against climate change by performing home energy evaluation and providing recommendations to improve the energy efficiency and indoor air quality. This presentation will narrate the steps and requirements on how to become a certified energy advisor.

2. Our Speaker

Norman A. Garcia, P.Eng., LEED AP BD+C

Norman is the founder of Mr. Peg Property Inspections and has been personally trained by former US Vice President Al Gore and The Climate Reality Project to serve as a volunteer Climate Reality Leader. Norman graduated BS Civil Engineering in University of the Philippines Diliman and is currently practicing residential building energy modelling, energy efficiency, and net-zero energy design. Norman also sits as current director of the Sustainable Building Manitoba that advocates sustainable and fossil-fuel-free green buildings. Outside of work and family, he trains and competes in Ironman triathlons and ultramarathons on plant-based nutrition to reduce food carbon footprint.