



IEEE London Section



The London Section of the Institute of Electrical and Electronics Engineers

In partnership with the UWO IEEE Student Branch present:

The Atmospheric Vortex Engine

Tuesday March 25th, 2008

7:00 pm.

Room SEB 2094

Cost: FREE (Open to Everyone)

Keynote Speaker:

Louis Michaud (Owner - AVEtec Energy Corporation)

ABSTRACT

An atmospheric vortex engine (AVE) uses an artificially created anchored tornado like vortex to capture the mechanical energy produced when heat is carried upward by convection in the atmosphere. The vortex is created by admitting warm or humid air tangentially at the base of a circular wall. The heat source can be waste industrial heat, warm sea water or simply warm humid air. This mechanical energy is produced in peripheral turbines. The talk describes the vortex engine by explaining its relation the solar chimney and to industrial cooling towers. The technology is akin to the process engineering technologies that Sarnia is good at including: power plants, cooling towers, turbines and chimneys. A vortex engine could be an add-on to a thermal power plant. A vortex engine could increase the efficiency of thermal power plants by reducing its cold source temperature. The atmospheric vortex engine would alleviate global warming by reducing the quantity of fuel required to meet our energy needs. The process could remediate global warming by lifting heat above greenhouse gases so that the heat can more easily be radiated back to space.

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