

Luncheon Presentation

The Plasco Energy Conversion System

by Marc Bacon, P.Eng. & ing., Vice President Engineering, Plasco Energy Group, Inc.

Abstract

Plasco Energy Group Inc. (PlascoEnergy) of Ottawa, Ontario, has developed a material conversion system for conversion of municipal solid waste (MSW) to valuable products. Less than 2% of waste processed remains for disposal. The output of the Plasco Conversion System is synthetic gas (syngas) for use in internal combustion engines, fine aggregate for use in production of concrete, pure sulphur for agricultural use, salt and potable water. PlascoEnergy plans to build, own and operate facilities to receive MSW and to produce electricity by operation of engines using the PlascoEnergy syngas as fuel, together with additional power generation from heat recovered from the gas refining process and engines exhaust.

The variability of MSW has until now been a barrier to production of consistent clean syngas for internal combustion engine operation. Intelligent software controlling the operation of the conversion and refining process has overcome this obstacle. An 85 tonnes per day demonstration facility has been built in cooperation with the City of Ottawa, Sustainable Development Technology Canada and the Ontario Ministry of Research and Innovation.

The luncheon address will discuss the system and its environmental and economic results.

Speaker's Biography

Mr. Marc Bacon recently joined Plasco Energy Group Inc. as Vice President, Engineering. He most recently held the position of Executive Vice President of the Patella Group. Marc also has seven years of experience with Fabgroups Technologies, where he was Corporate Director, R&D, Engineering and Business Development and spearheaded the successful development of the plasma assisted oxidation process for municipal sludge. Prior to that, Marc held positions in engineering and operations management with Ingersoll-Rand, and was President of his own privately held engineering firm.

Marc graduated with a B.Sc. in Electrical Engineering (Summa cum Laude) and a B.Sc., Welding Engineering (Magna cum Laude) from Le Tourneau University in Longview, Texas. Subsequently, he received his MBA (Summa cum Laude) from the same University in the fall of 2006. He is currently pursuing his Ph.D. in Business Administration, with a concentration in Organizational Leadership. Marc is a member of the Ordre des Ingénieurs du Québec and Professional Engineers Ontario.