



November 21, 2011

Sheila Hall, Executive Director
Clarington Board of Trade
181 Liberty Street South, P.O. Box 434
Bowmanville, ON L1C 2P6

Dear Ms. Hall,

I would like to extend an invitation to you and your colleagues to visit and tour the new Automotive Centre of Excellence (ACE) at the University of Ontario Institute of Technology (UOIT) in Oshawa.

ACE is the first commercial testing, research and innovation centre of its kind in Canada, and in many respects the world. It offers a range of full-size chambers that allow for full climatic, structural durability and lifecycle testing in support of advanced technologies like battery and fuel cell development.

The signature chamber is one of the largest and most sophisticated climatic wind tunnels on the planet. In this test chamber wind speeds exceed 240 km/h, temperatures range from -40C to 60C and relative humidity ranges from five to 95 per cent. We can also create driving snow, falling snow and freezing rain, any severe climate you can imagine.

The climatic wind tunnel also has a unique variable nozzle that can optimize the airflow from 7 to 13 square metres (and larger) allowing for an unprecedented range of vehicle and test property sizes. Coupled with this feature is a large chassis dynamometer that is integrated into an 11.7-metre turntable. Now, for the first time anywhere, vehicles and test properties can be turned into the airstream under full operating conditions to facilitate crosswind development. The large open-jet chamber has a readily reconfigurable solar array that will replicate the effects of the sun. The chamber is also hydrogen-capable, allowing for alternative fuels and fuel cell development.

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AUTOMOTIVE CENTRE OF EXCELLENCE

www.gm-ace.uoit.ca

ACE is a university owned and operated testing and research facility

ACE is an independent facility that is owned and operated by the university and available to rent by manufacturers, startup companies and researchers in Canada and abroad. ACE will help foster an environment of collaboration between top industries and our best and brightest researchers and students. By working together they will discover, test and validate a wide variety of products, including those we haven't even thought of yet.

ACE is well positioned to be a real game changer by facilitating groundbreaking research and training the students of today for the jobs of tomorrow. We like to say that in ACE we are creating the "perfect storm" in the name of innovation.

I hope you can find the time for you and your colleagues to visit ACE in the near future. For a tour please contact my colleague Dan Miles at dan.miles@uoit.ca or 905-721-8668 ext. 5436. For more information about ACE please visit: www.ace.uoit.ca.

Sincerely,



Dr. Gary Elfstrom
ACE Director of Business Development



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