



INDUSTRY OPEN HOUSE

Dynamic Demonstrations

WED. MARCH 26, 2014 1-7PM

TOUR MULTIPLE LOCATIONS

at McMaster University & McMaster Innovation Park

- ▶ McMASTER MATERIALS & MANUFACTURING RESEARCH LABS
- ▶ McMASTER AUTOMOTIVE RESOURCE CENTRE
- ▶ CanmetMATERIALS

with complimentary shuttle & parking

- ❑ **Material and Process Development** Sustainable Nano-composites, light metal material development, high pressure die casting, forging and rolling technology / Steel development & process improvement / Heat treatment process development
- ❑ **Material Characterization** Electron microscopy, mechanical, corrosion, thermal and electrochemical performance / Corrosion prediction and protection
- ❑ **CAD/CAM** Inspection path generation, integrated laser/blue LED scanning with touch probe, point cloud to CAD GD&T analysis
- ❑ **Machining** Tooling selection and development / Virtual machining - process development and optimization using CUTPRO® and MACHPRO™
- ❑ **Bulk and Sheet Metal Forming** Formability assessment including forming limits, fracture prediction / Process development and optimization for hot/cold rolling, extrusion, upsetting and forging
- ❑ **Polymer Processing** Formulation, conversion and characterization, modeling of single and twin screw extrusion, co-extrusion, injection molding, thermoforming, rotational molding, reactive extrusion, mixing and coating
- ❑ **Metrology** Closed loop machining / Final part inspection and on machine geometric calibration using PolySAMBA
- ❑ **Design, Public Policy and Entrepreneurship** Student project highlights
- ❑ **Powertrain Test Facilities** Advanced test facilities covering all major automotive powertrain components and assemblies up to complete vehicles / Hybrid powertrain technologies, including batteries, electric motors, SI and CI engines, hybrid transmissions, power electronics and controls

REGISTER AT: <http://industry-open-house.eventbrite.ca>