

## Workshop on Ultrafine Particle Emissions from Transportation: Agenda

**Date and time:** September 18<sup>th</sup>, 2019 – 1:00 pm to 4:00 pm

**Location:** University of Toronto, St. George Campus  
George Ignatieff Theatre – 15 Devonshire Place  
Toronto, ON, M5S 2C8

**Hosts:** Pollution Probe, University of Toronto Transportation and Air Quality Research Group, Global Automakers of Canada, and Canadian Fuels Association

Time	Item
12:30 – 13:00	Registration
13:00 – 13:10	Opening remarks from conference hosts <ul style="list-style-type: none"> <li>• University of Toronto: <b>Marianne Hatzopoulou</b>, Associate Professor, Civil Engineering Department, and Canada Research Chair in Transportation and Air Quality</li> <li>• Pollution Probe: <b>Melissa De Young</b>, Director</li> <li>• Global Automakers of Canada: <b>David Adams</b>, President</li> </ul>
13:10 – 13:20	<b>Presentation 1: A Brief History of Vehicle Emissions Regulations</b> <ul style="list-style-type: none"> <li>• Speaker:               <ul style="list-style-type: none"> <li>○ <b>Greg Overwater</b>, Director, Technical and Regulatory Affairs, Global Automakers of Canada</li> </ul> </li> </ul>
13:20 – 13:40	<b>Presentation 2: UFPs from transportation: Sources and trends</b> <ul style="list-style-type: none"> <li>• Emissions from new technologies (e.g., UFP emissions from gasoline direct injection (GDI) light-duty vehicles and diesel vehicles with catalyzed diesel particle filters (DPF))</li> <li>• Speaker:               <ul style="list-style-type: none"> <li>○ <b>James S. Wallace</b>, Department of Mechanical and Industrial Engineering, University of Toronto</li> </ul> </li> </ul>
13:40 – 14:00	<b>Presentation 3: Human health impacts of UFPs</b> <ul style="list-style-type: none"> <li>• Health effects from exposure to ambient UFPs</li> <li>• Speaker:               <ul style="list-style-type: none"> <li>○ <b>Jeff Brook</b>, Dalla Lana School of Public Health, University of Toronto</li> </ul> </li> </ul>
14:00 – 14:20	<b>Presentation 4: UFP Measurement, characterization and monitoring</b>

	<ul style="list-style-type: none"> <li>• What are the existing technologies and methods to measure and characterize UFPs? Are we monitoring UFPs? What are the barriers (e.g. technological and other aspects)?</li> <li>• Speakers:           <ul style="list-style-type: none"> <li>○ <b>Jonathan Wang</b> and <b>Greg Evans</b>, Southern Ontario Centre for Atmospheric Aerosol Research (SOCAAR), University of Toronto</li> </ul> </li> </ul>
14:20 – 14:35	<b>Break</b>
14:35 – 14:55	<b>Presentation 5: UFP Mitigation - Technologies and strategies</b> <ul style="list-style-type: none"> <li>• Methods such as gasoline particulate filters (GPFs) and vehicle electrification</li> <li>• Speaker: <b>Rasto Brezny, PhD</b>, Executive Director, Manufacturers of Emission Controls Association (MECA)</li> </ul>
14:55 – 15:10	<b>Presentation 6: UFP Mitigation - International and domestic policy overview</b> <ul style="list-style-type: none"> <li>• Summary of UFP mitigation approaches implemented in Europe and other jurisdictions globally</li> <li>• Speaker: <b>Derek May</b>, Senior Project Manager, Pollution Probe</li> </ul>
15:10 – 15:55	<b>Panel Discussion:</b> <ul style="list-style-type: none"> <li>• Moderator:           <ul style="list-style-type: none"> <li>○ <b>Marianne Hatzopoulou</b></li> </ul> </li> <li>• Potential questions:           <ul style="list-style-type: none"> <li>○ What research is needed to support a broader understanding of UFPs from transportation?</li> <li>○ Are there research studies that are required and could benefit from collaboration?</li> <li>○ What are the most effective mitigation strategies (e.g., technology, policy approaches)?</li> <li>○ What next steps are recommended?</li> </ul> </li> </ul>
15:55 – 16:00	<b>Closing Remarks and Next Steps</b>