Origin

- The Municipal HMA Liaison Committee was established in 2010 as a partnership between Ontario Hot Mix Producers Association (OHMPA) and OGRA in response to requests from municipal staff for a committee to discuss municipal issues surrounding HMA.
Municipal HMA Liaison Committee

Committee Makeup

Associations:
- Working for Municipalities
- Ontario Hot Mix Producers Association

Cities:
- Hamilton
- Oshawa

Prepare To Be Amazed
Municipal HMA Liaison Committee

Counties:
- County of Essex
- Middlesex County
- Niagara Region
- County of Peterborough
- York Region
- Region of Waterloo
Committee Mandate

- Facilitate the development of Best Practice Guides.
- Provide/develop educational materials and program.
- Recommend updates to asphalt related Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD).
Quality Assurance Subcommittee

- Payment Adjust Sheet for Borderline Material (OPSS 310).
- Contract Language for MGAC.
- Development of a Best Practice on Segregation.
Municipal HMA Liaison Committee

Contractor Work Subcommittee

- Development of a Contractor Prequalification Document.
- Development of a Project Evaluation/Performance Sheet.
Municipal HMA Liaison Committee

Education/Innovation Subcommittee

- Development of technical information to help municipalities deal with HMA Quality.
  - Asphalt Plants and Pavers.
  - Asphalt Inspection and Sampling/Testing.
  - Best Practices.

- Creation - Municipal Paver of the Year.
2011 Municipal HMA Survey

- Top three (3) issues identified.
  - Drainage.
  - Longitudinal Joints.
  - Late Season Paving.
2015 Municipal HMA Survey

- Snapshot of the existing condition of asphalt pavement condition in Ontario.
- Results to be used to establish priorities to address municipal concerns.
  - Best practices.
  - Whitepapers.
  - Amendments to OPSS.
2015 Municipal HMA Survey

• Collecting information on:
  • Pavement details.
    • Age, road class, paved shoulders, lift thickness, …
  • Surface coarse mix design details
    • Type, AC grade and content, RAP content, …
  • Pavement distresses.
    • Type and severity based on MTO SP-024.
2015 Municipal HMA Survey

- Worksheets provide guidance on individual distresses.
  - Example – Longitudinal Cracking.

<table>
<thead>
<tr>
<th>Description</th>
<th>Crack which follows a course approximately at right angles to the pavement centre line. Full transverse cracks tend to be regularly spaced along the length of the road, while half transverse and part transverse occur at shorter, intermediate distances.</th>
</tr>
</thead>
</table>
| Possible Causes | 1. Natural shrinkage caused by very low temperatures.  
  2. High temperature susceptibility of asphalt cement binder in asphalt mixes.  
  3. Frost action.  
  4. Reflection cracks. |
<table>
<thead>
<tr>
<th>Severity</th>
<th>Class</th>
<th>Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Slight</td>
<td>Less than 3 mm single crack.</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>Single crack 3 mm to 12 mm.</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>13 mm to 19 mm single crack, or multiple cracks even if crack opening is less than 13 mm. Cracks starting to develop cupping or lipping.</td>
<td></td>
</tr>
<tr>
<td>Severe</td>
<td>20 mm to 25 mm single crack, or multiple cracks even if crack opening is less than 20 mm but greater than 13 mm. Cracks have developed cupping or lipping distortion.</td>
<td></td>
</tr>
<tr>
<td>Very Severe</td>
<td>Greater than 25 mm single crack, or multiple cracks even if crack opening is less than 25 mm but greater than 20 mm. Cracks are distorted with cupping and lipping, and spalling of the cracked edges.</td>
<td></td>
</tr>
</tbody>
</table>
# Municipal HMA Liaison Committee

## 2015 Municipal HMA Survey

- Example.

<table>
<thead>
<tr>
<th>Distresses</th>
<th>Total Projects</th>
<th>Mix Type</th>
<th>Mix Desc.</th>
<th>SP 12.5</th>
<th>AC Spec.</th>
<th>OPSS</th>
<th>AC Grade</th>
<th>PG 58-28</th>
<th>AC Content</th>
<th>Rap Content</th>
<th>Cracking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructed 2013 to 2014</td>
<td>2.0</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>2.0</td>
<td>None</td>
</tr>
<tr>
<td>Constructed 2009 to 2012</td>
<td>2.0</td>
<td>2.0</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>2.0</td>
<td>None</td>
</tr>
<tr>
<td>Constructed 2000 to 2008</td>
<td>0.0</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>1.0</td>
<td>None</td>
</tr>
<tr>
<td>Constructed pre 2000</td>
<td>0.0</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>None</td>
<td>Slight</td>
<td>Moderate</td>
<td>Severe</td>
<td>1.0</td>
<td>None</td>
</tr>
<tr>
<td>Additional Comments</td>
<td>Only occasional transverse cracking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>For slight, only in a few locations</td>
<td></td>
</tr>
</tbody>
</table>
2016 Municipal Paving Forecasts and Issues/Concerns

OHMPA Partners in Quality Workshops
May 3, 2016
2016 Local Municipal Forecast

Municipality of Chatham-Kent

59,000 tonnes
2016 Local Municipal Forecast

Dufferin County

40,800 tonnes
2016 Local Municipal Forecast

Elgin County

HMA 26,500 tonnes
CIP 110,000 m²
2016 Local Municipal Forecast

Essex County

HMA 32,000 tonnes
CIP 137,000 m²
2016 Local Municipal Forecast

Huron County

HMA 25,500 tonnes
CIP 198,000 m²
2016 Local Municipal Forecast

Lambton County

HMA 40,800 tonnes
CIP 160,000 m²
2016 Local Municipal Forecast

City of London

HMA 20,000 tonnes
2016 Local Municipal Forecast

Niagara Region

HMA 50,000 tonnes
2016 Local Municipal Forecast

Oxford County

HMA 18,400 tonnes
Bonded Wearing Course 82,600 m²
CIP 133,170 m²
2016 Local Municipal Forecast

Wellington County

HMA 31,550 tonnes
CIP 55,800 m²
Municipal Issues/Concerns

- Polymers
- Service Life
- REOB
- AC Quality
- RAP
- Suors
- Elastomers
- Cracking
- Specifications
- AC Content
- Potholes
- Tack Coat
- MSCR
- EXBRR
- Late Season Paving
- Testing
- Ash Content
- VMA
- Grade Running
- Lift Thickness
- Rutting Resistance
Thank you

James Smith,
Manager,
OGRA Member/Technical Services
james@ogra.org

Fahad Shuja,
Coordinator,
OGRA Member Services
fahad@ogra.org