



Summary of OAETG 5-year vision

SINA VARAMINI

OAETG, Chair

*Research and Development Manager,
McAsphalt Industries Ltd.*

Ontario Asphalt Expert Task Group (OAETG)

Established in Fall 2020 to satisfy specific mandates

- Brainstorm asphalt-related and emerging issues – particularly on subjects of RAC and Mix Performance acceptance
- Identify improvements to binder and mixture specification and testing methods – Ontario-specific climate and traffic conditions
- Act as an advisory group to recommend and/or perform asphalt research interests and needs
- Contribute to content development and organization of the Asphalt Technical Symposium (ATS)



Ontario Asphalt Expert Task Group (OAETG)

Executive Committee Member



Sina Varamini, Ph.D., P.Eng., Chair

Manager, Research & Development, McAsphalt Industries Ltd.



Pejoochan Tavassoti, Ph.D., Vice Chair

Senior Research Associate, University of Waterloo



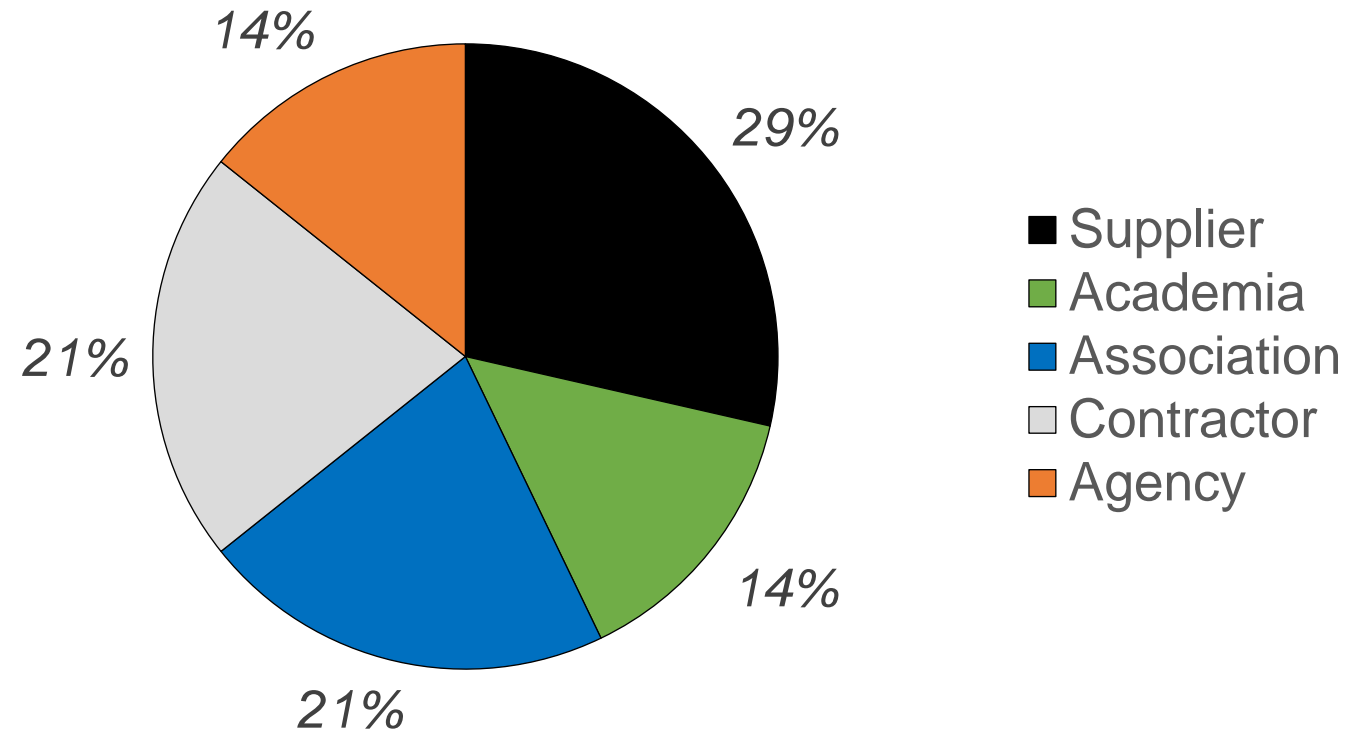
Amma Wakefield, MAsc., P.Eng., Secretary

Canadian Regional Engineer, Asphalt Institute



Ontario Asphalt Expert Task Group (OAETG)

Total of 14 Members



OAETG – Five Year Vision

LONG TERM
INDUSTRY TRENDS

Bridge the knowledge gap in “Performance Testing methods and Acceptance”

Literature search on practice-ready performance thresholds

Develop a framework to execute industry-wide mix exchange program

2021

2022

2023

2024

2025

2026

*Short-term topics led by volunteers from this committee
Few months time-frame to complete*



2021 OAPC ASPHALT

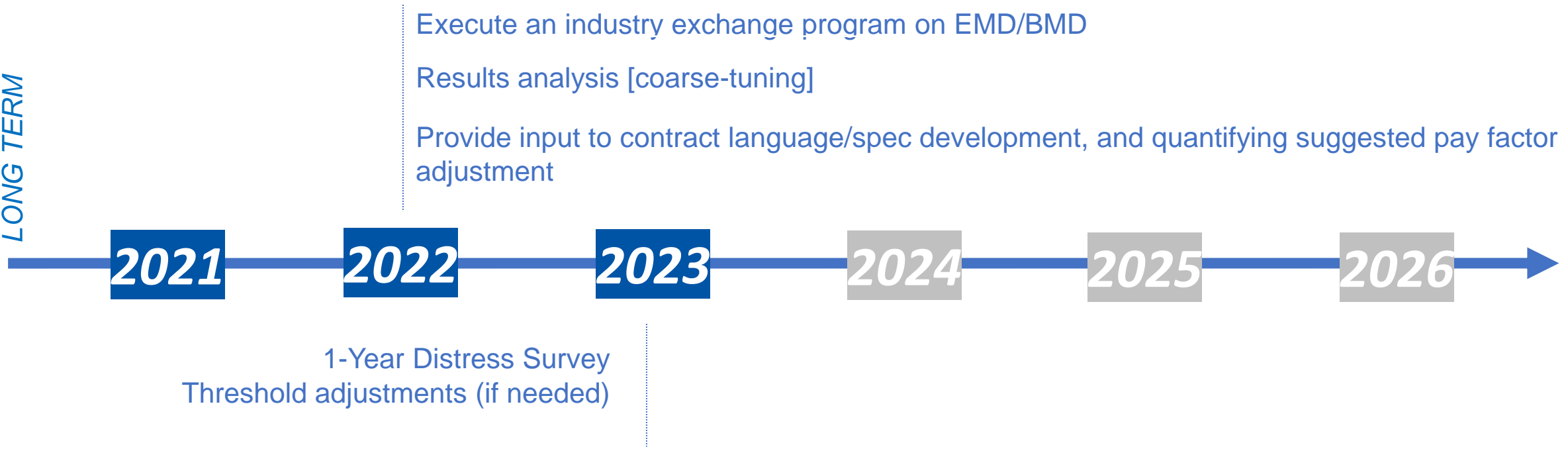
TECHNICAL SYMPOSIUM (ATS) WEBINAR

ORBA



OAETG – Five Year Vision

LONG TERM



2021 OAPC ASPHALT

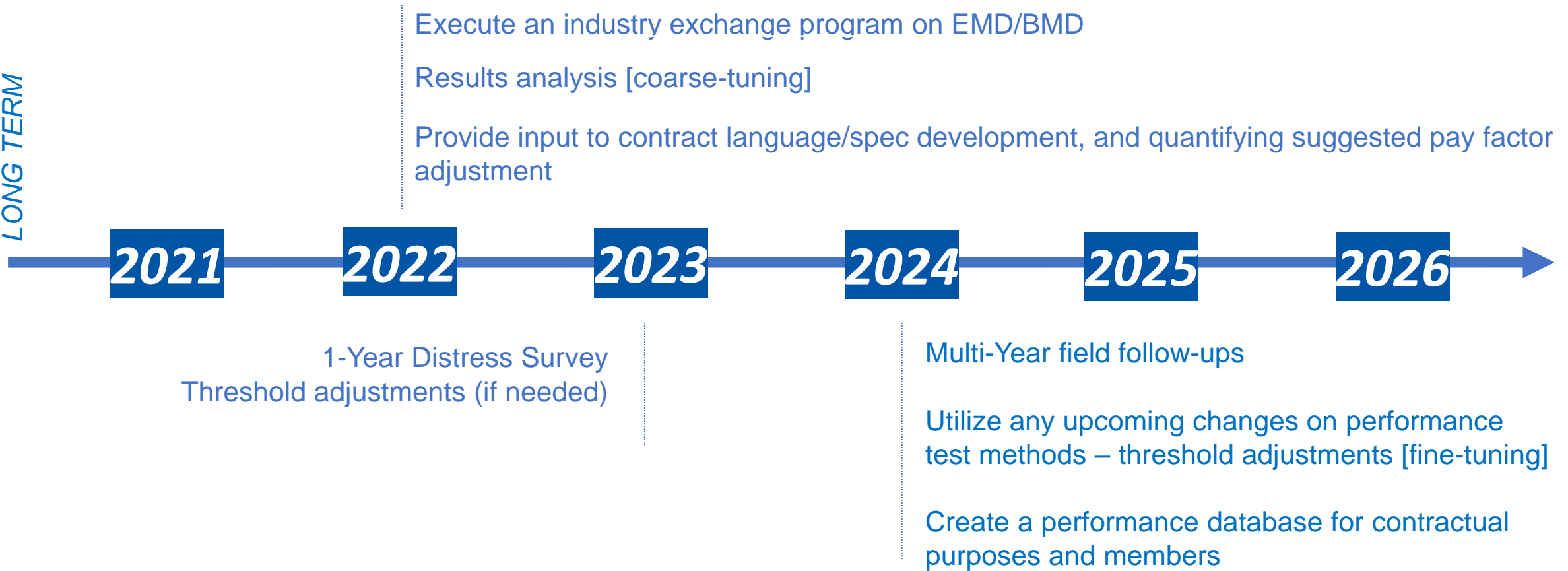
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OAETG – Five Year Vision

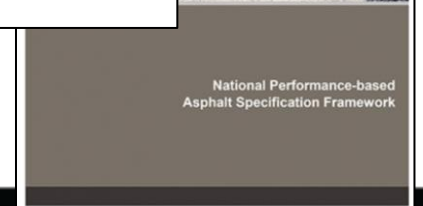
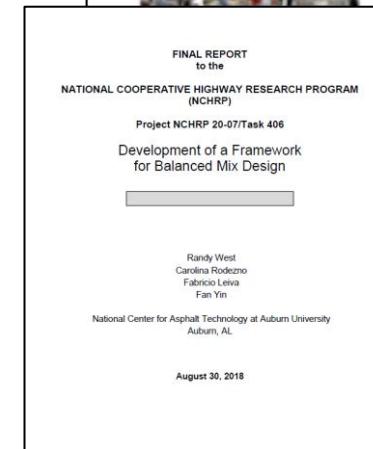
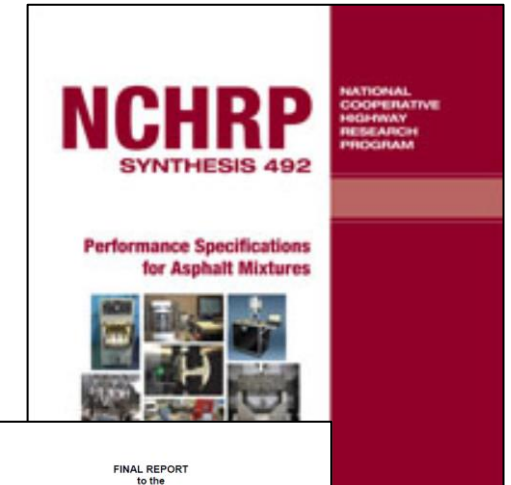
LONG TERM



Completed Tasks

Selected international publications reviewed, summarized, and presented by committee members

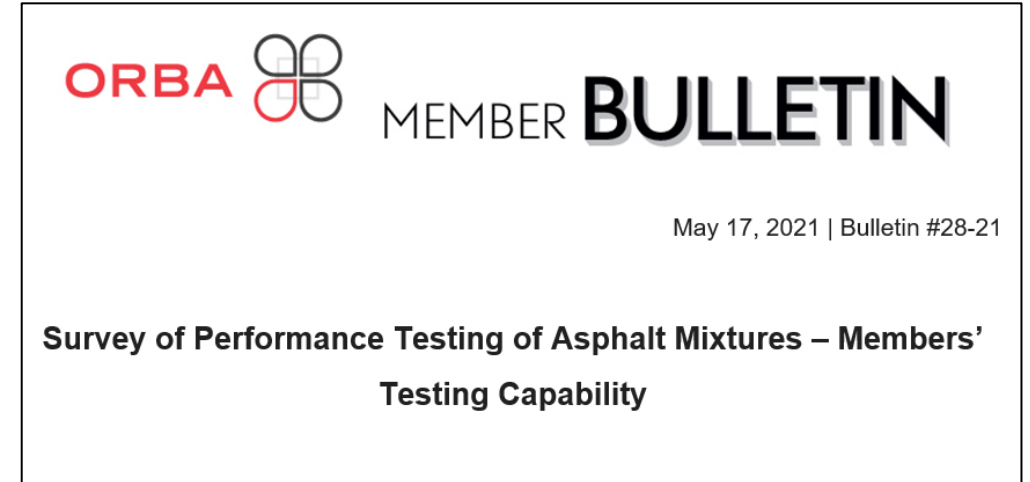
1. **“Framework For Development Of Performance-related Specifications For Hot-mix Asphaltic Concrete” NCHRP Report 332**
Reviewed/Presented by A. Mneina (OGRA)
2. **“Development of a Framework for Balanced Asphalt Mixture Design” NCHRP 20- 07/Task 406**
Reviewed/Presented by P. Lubana (PNJ Consulting)
3. **“National Performance-based Asphalt Specification Framework”** by Austroads
Reviewed/Presented by Dr. Y. Alamdary (Coco Paving)
4. **“Performance Specifications for Asphalt Mixtures” – NCHRP Synthesis 492**
Reviewed/Presented by M.Farashah (York Region) & S.Salehiashani (UW)
5. **“FHWA-NJ-2015-1010: Performance Testing for HMA Quality Assurance”**
Reviewed/Presented by M. Aurilio (Yellowline)
5. **“The French Approach to Asphalt Mixture Design: A Performance-related System of Specifications”** AAPT 2000 proceeding *(Reviewed by F. Magisano)*



Completed Tasks

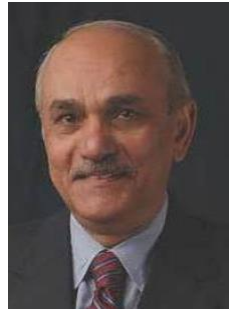
ORBA members' Survey on Testing Capabilities

- Communicated by ORBA team
- Asphalt Mixture and Binder Testing Capability
 - Intermediate Fatigue Cracking
 - Rutting
 - Low-Temp Cracking
 - Overall Mixture Stiffness
 - Binder Testing (PG, and PG+)
 - Mix preparation (Gyratory, Slab, Coring/Cutting)



Completed Tasks

Committee meeting presentations to generate “owner-contractor” balanced expert review on short-term topics & Industry-Trends



Responsible Use of RAP in Surface Mixes

*Prof. H. Bahia
University of Wisconsin-Madison*



Evaluation of Asphalt Mixture Cracking Performance Tests at Full-Scale Pavement Facility: Lessons Learned and Knowledge Gaps

*Dr. M. Elwardany
Manager of the Asphalt Binder and Mixture Laboratories at FHWA Turner-Fairbank Highway Research Center*



Review of OAPC-CPATT Study – RAC and Performance Testing

*Amma Wakefield
Canadian Regional Engineer, Asphalt Institute*



Lowering Gyration in Superpave Mixes – An Ontario Perspective

*Dr. D. Ambaiowe
Technical Director – ORBA/OAPC*



GET INVOLVED - JOIN US

- *Contact any of Executive Committee members to join*
- *Bi-Monthly Meetings*
- *Open forum discussing what matters in improving quality of asphalt mixtures*

