TARGETING QUALITY THROUGH PARTNERSHIP

VIRGINIA ASPHALT ASSOCIATION
2017 FALL CONFERENCE RICHMOND, VA

HAROLD MULLEN
TEXAS ASPHALT PAVEMENT ASSOCIATION
SAFETY SHARE

WHO IS RESPONSIBLE FOR SAFETY?

- HOME
- BEHIND THE WHEEL
- WORK

Awareness * Communication * Responsibility * Accountability

TXAPA
Texas Asphalt Pavement Association
BUILDING A SAFETY CULTURE

2016

- 2,500 Active Work Zones
- 25,814 Work Zone Crashes
- 181 Work Zone Fatalities
- 4 out of 5 Fatalities were Pedestrians, Bicyclists and Motorists

WORK ZONES NEED YOUR UNDIVIDED ATTENTION
The life you save could be your own!
EVERYTHING IS BIGGER IN HARRIS COUNTY, TEXAS

- Harris County’s population is an estimated 4.5 million residents. It has a larger population than 24 states.
- NASA is located in Harris County.
- Harris County is recognized as the Energy Capital of the world, with more than 3,000 energy related firms located here.
- The world’s largest medical center, the Texas Medical Center, is located in Harris County and employs 93,500.
- Harris County also is home to the Port of Houston, which is ranked first in the nation in volume of foreign tonnage and second in total tonnage.
Harvey Rainfall Overview
Harvey – 7 Day Precipitation through 9/1/17

Observed Precipitation
Valid Ending Friday September 1st, 2017 at 3 PM CDT

- Estimates for Texas alone...Harvey dumped an estimated 53.4 million acre-feet of water on Texas
- Gage reports in excess of 50 inches in the Houston area
- Heavy rainfall from just east of the Austin/San Antonio area to the Texas/Louisiana border
- Numerous new flood records on area rivers

Graphic Created September 1st, 2017 3:59 PM CDT

9/1/2017 4:05 PM www.weather.gov/wgrfc
EVERYTHING IS BIGGER IN TEXAS

TxDOT maintains 80,268 centerline miles (miles traveled in a one-way direction regardless of the number of lanes in a roadway).

State-maintained centerline miles:
- Interstate Highways 3,274
- U.S. Highways 12,062
- State Highways 16,411
- Farm to Market Roads 40,932
- Park Roads 345
- Frontage Roads 7,245

The total number of lane miles (miles per lane of roadway) in Texas is 195,022.
EVERYTHING IS BIGGER IN TEXAS

- 52,600 bridges – 76% more than any other state in the nation – 30 international bridges between Texas and Mexico
- More interstate mileage than any other state with 17 different interstates
- Largest airport system in the country with more than 300 eligible TxDOT airports
- Texas has more road signs than any other state. There are over 500,000 signs on state maintained highways.
- TxDOT averages letting eight to twelve million tons of asphalt pavement annually. Most ever 15 million tons.
- Statewide average for all asphalt pavement is approximately 20 to 35 million tons annually.
EVERYTHING IS BIGGER IN TEXAS

- Growing by 1200 people a day, Since 1990 population has grown 55% and the roadway miles have grown only 7%
- Funding $4 - 5 billion annually
- Need $11.0 – $12.0 billion annually
- Prop 1 $1.0 billion – oil and gas taxes
- Prop 7 Starting in FY 2019 $2.5 billion general sales tax and percentage of vehicle sales and rental tax from vehicles
- Stopped diversions $800 mil
- Estimate $7 billion a year in lettings for the next 10 years
200+ Members
- Contractors/Producers
- Liquid Asphalt Suppliers
- Associated Supplier and Service Firms

Services
- TECHNICAL
- EDUCATIONAL
- TRAINING
- PROMOTIONAL

TexasAsphalt.org
MEMBER DRIVEN ASSOCIATION!

Dedicated to Quality
Partners In Quality
Commitment ★ Communication Cooperation
1993 Partnership

Texas Department of Transportation

TXAPA
Texas Asphalt Pavement Association
Hot Mix Asphalt Center

- 24 year program – QC/QA Certification
- 5,000+ Current Certified Technicians In Texas
- Administer Proficiency Program For TxDOT For
  - HMA And Soils And Base Technicians
- Conduct Off-Site Training And Certification Classes
  - TxDOT Soils and Base
  - Industry HMA and Soils and Base
  - HMA Level 1B
Level 1A
HMA Plant Production Specialist
Level 1B
HMA Roadway Specialist
Level 2
HMA Mix Design Specialist

SB 101
Properties Specialist
SB 102
Field Specialist
SB 103
Materials Analyst Specialist
SB 201
Strength Specialist
SB 202
Compressive Strength Specialist

Buda, Texas

Quality Control/Quality Assurance Training & Certification

TXHMAC.ORG

Hot Mix Asphalt Center
Certification and Training

TXAPA
Texas Asphalt Pavement Association
Hot Mix Asphalt Center

HMAC Certification Steering Committee

<table>
<thead>
<tr>
<th>TxDOT</th>
<th>HMAC</th>
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<tbody>
<tr>
<td>Tommy Smith —</td>
<td>Corey Schwarz —</td>
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<td>Co-Chair</td>
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<td>Robert Lee</td>
<td>Mike Brown</td>
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<td>Cathey Galbreath</td>
<td>Harry Bush</td>
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<td>Richard Izzo</td>
<td>Brad Bradford</td>
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<td>Brett Haggerty</td>
<td>Jerry Lee</td>
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QUALITY MOTIVATION

- IF YÀ’II CANNOT BUILD QUALITY ASPHALT PAVEMENTS, TEXAS WILL GO WHITE.”
  Wes Heald & Kirby Pickett, TxDOT

- “QUALITY SELLS HOT MIX.”
  Mike Behrens, TxDOT
STRATEGIC PLANNING SESSION

- Strategic Planning Session
  - Board Members, Committee Chairs, Past Presidents’ Committee, Major Associate Chair, Associate Member Chair
- Held every year – short term & long term goals
- Meet goals and objectives through committees
- 2017…54 short term objectives
- TxDOT Flexible Pavements Director attends Strategic Planning Session
STATEGIC PLANNING SESSION

18 COMMITTEES

• Aggregates, Soils and Base
• Associate Member Advisory
• Environmental, Health and Safety
• Finance
• Level 2 Mix Design
• Major Associate Member
• Marketing and Membership Services
• Nominating
• Presidents Advisory
• Quality Paving and New Technology

• TXAPA Scholarship Program Auction Committee
• Seal Coat Committee
• Specification and Test Procedure Committee
• Testing Laboratories Sub-Committee
• Training and Education Committee
• TXAPA/TxDOT Quality Asphalt Pavement Awards Committee
• TXAPA/TxDOT Technician Awards Comm.
• HMAC Certification Steering Committee
PARTNERS IN QUALITY MEETINGS

- Number one priority to meet with all TxDOT districts
- Meet to discuss how to achieve award winning asphalt pavements.
- Meeting agenda is jointly developed by TxDOT and TXAPA members.
- Chuck Fuller is our Ambassador of Quality
PARTNERS IN QUALITY MEETINGS

- Meet with all TxDOT districts, 25 statewide

- Conduct 30 PIQ meetings and have multiple meetings with urban districts.

- Meet with Construction Division, Maintenance Division and Materials and Pavements Section

- Conduct pavement evaluations and follow-up meetings as requested

- Meet with cities and counties as requested
PARTNERS IN QUALITY

- Different Mix Types, challenges/opportunities
- Move to Superpave
- Use of Thermal Camera
- Aggregate Availability, get a plan
- Recycled Materials
- Importance of pre-paving meetings
- Communication
PARTNERS IN QUALITY

A Few Take Aways:

- New People in TxDOT District Positions
- More Third Party Testing and Inspection
- Districts Can Make Independent Decisions
- We Need to Take Time to Communicate
- Need More Education and Training
- Change our 2008 Thought Process
PARTNERS IN QUALITY

Follow-Up Meetings:
- Hamburg Wheel Test
- Liquid Asphalt Binders and Modifiers
- Quality Construction – Pavement Evaluation
- Specifying Equipment
- Testing Frequency
- Superpave
QUALITY RECOGNITION

Recognize Quality - People and Projects

- TxDOT/TXAPA Quality Asphalt Pavement Awards
- TxDOT/TXAPA Quality Asphalt Pavement Technicians Awards
- City, County, Specialty Quality Asphalt Pavement Awards
  - Airports, parking lots, city streets, etc.

Management Awards given at TXAPA Annual Meeting
Crew Awards are given to the people on the project responsible for the quality work
QUALITY AWARD – PHARR DISTRICT
QUALITY THROUGH PARTNERSHIP

- External Customers
  - Consulting Engineers, TxDOT, Cities and Counties

- Specifications
  - Low volume roadway specification
  - Medium volume roadway specification

- Education
  - Asphalt pavement users guide
  - Seminars and Webinars
  - Trade Shows

- ASCE – TSCE
- TPWA
- TCERA
- TCJCA
- TxDOT Aviation Conference
- TxDOT Maintenance Conference
- TxDOT Short Course
- Earth Day
EDUCATION / TRAINING

- Training and Education Opportunities
  - Asphalt Pavement User Guide
  - Fundamentals of Asphalt
  - Asphalt Pavement Mix Types
  - Principles of Paving and Compaction
  - Inspection Principles
  - New Technology Seminar
  - Superpave and Mix Design Courses
  - PaveXpress
  - Monthly Webinars
EDUCATION / TRAINING

MONTHLY WEBINARS

- July  Successful Pre-Paving Meetings
- August  Safety - Responsibility
- September  Best Practices for Compaction/Rolling Patterns
- October  Best Practices for Milling and Profiling
- November  The Importance of Testing and Accurate Results
- December  Best Practices for Joint Construction
EDUCATION / TRAINING

Quality Paving and New Technology Committee

- New Technology Seminar:
  - Thermal Cameras
  - Pave IR Bar (Scanner)
  - Safety Equipment
  - Non-Tracking Tack
  - Warm Mix Asphalt
  - Rejuvenators
  - Use of Drones
FUNDAMENTALS OF ASPHALT

- Quality Asphalt Materials and the Mix Design Process
- Asphalt Pavement Mix Types
- Planning and Communication
- Surface Preparation and Hauling of Asphalt Pavement
- HMA Plant and Production Process
- Proper Methods of Placing and Compacting Asphalt
- Importance of Testing Asphalt Pavement
- Inspection Principles
- TXAPA’s Partnership
EXTERNAL CUSTOMER COMMUNICATION
MEMBER COMMUNICATION

Friday, July 31, 2015

TECHNICALLY SPEAKING

TxDOT August 2015 Projects
The TxDOT Highway Setting is scheduled for August 4-5, 2015. The total tonnage for August is 1,597,557.
Read More...

Environmental, Health and Safety Brief
FYI: Do you know what your North American Classification Code (NACCS) is and why it is important?
- There are three main code numbers that are assigned by the Federal Government for the asphalt industry.
Read More...

WHAT’S GOING ON

TXAPA 41st Annual Meeting - La Cantera Resort - San Antonio, Texas Sept 22-25
Make sure you have your hotel room reserved for the 41st TXAPA Annual Meeting scheduled for the La Cantera Resort in San Antonio, Texas. September 22-25, 2015. Rooms are filling up fast and the room block ends on August 15.
Read More...

TXAPA Scholarship, Education and Research Live and Silent Auction
The TXAPA Raif Flanagan Scholarship, Education and Research Auction is held each year as the annual meeting. This event will take place on Thursday night, September 24, 2015 at the La Cantera Resort in San Antonio, Texas.
Read More...

2015 Annual Meeting Sponsorship Opportunities
The TXAPA 41st Annual Meeting is ahead the corner; September 22-25, 2015. TXAPA is currently accepting event and regular sponsorships. The following events are still available to be sponsored.
Read More...

IN THE WORKS

NAPA in the News - Funding Information
On July 30, the Senate passed a five-year surface transportation authorization bill by a vote of 65–34, sending the legislation to the House for further consideration. Visit http://spress.watch/1l0t4Q to see how your Senators voted.
Read More...

NAPA in the News - Web-Based Design Program
PaveXpress (www.pavexpressdesign.com), the free web-based pavement design tool, has been upgraded to version 2.0 with a new module for asphalt overlay designs. The majority of road projects managed by public works and road agencies today, may involve.
Read More...

Avoiding Collisions
Nearly half of the deaths that occur for roadway construction workers occur when workers are struck by moving vehicles, trucks, or equipment. Construction workers are often in the work area when they are hit by traffic. How can you avoid a "collision" in your work area?
- Be Seen: Always wear your safety vest as close as possible at all times.

Technical Talk

Things to think about

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Read More...

GUIDE SCHEDULE UPDATED

The Guide Schedule of Sampling and Testing has been updated for use with the 2014 Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges and can be found at the following link:

QUALITY THROUGH PARTNERSHIPS

TXAPA SCHOLARSHIP PROGRAM

- Any Major
- Scholarship is good for up to three years
- Full-time & Part-time students
- Vocational students
- Awarded 18 scholarships totaling $85,000

2017 Auction
Raised $201,000
EVERYTHING IS BIGGER AND FASTER IN TEXAS

Thank You VAA and VDOT Partners