The Pavement Preservation Super Panel!

FACERS 2022







Today's Super Moderator

Florida Pavement Preservation Council

- Chris Evers Executive Coordinator
 - Introduction
 - Everything in moderation
 - The discussion



Industry Members and Government Affiliates























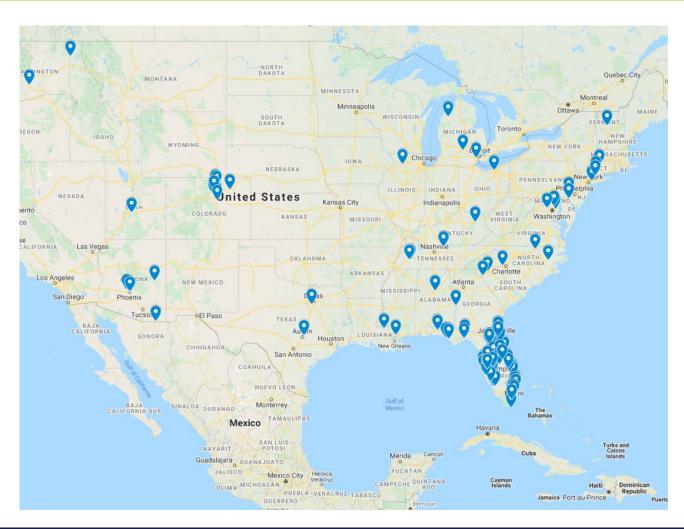






Ways to connect with FPPC





1. LinkedIn Group www.linkedin.com/groups/12

www.linkedin.com/groups/12312389/www.linkedin.com/in/chris-evers-florida

2. Facebook Group

www.facebook.com/groups/FloridaPave mentPreservationCouncil/

3. Website

http://floridappc.org/



FPPC Mission





The Council will provide regional education workshops through the **National Center for Pavement** Preservation for promoting the sound principles and genuine benefits of pavement preservation practices.



FPPC Strategic Goals



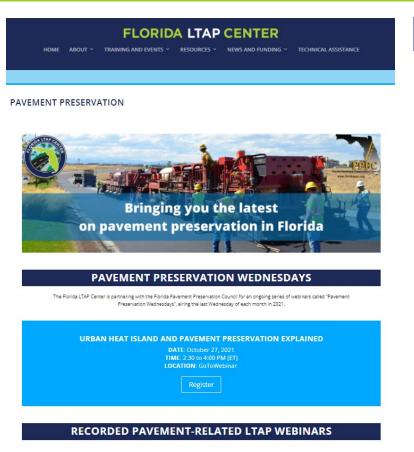


- Promote the implementation and benefits of pavement preservation principles through training and education throughout communities in Florida.
- Provide recommended regional specifications and guidelines for pavement preservation techniques in Florida.
- Foster beneficial technology transfers between academia, industry, and agencies.



Florida LTAP/FPPC Resources







Lots of new Pavement Preservation Pre-Recorded Webinars posted!

floridaltap.org/pavement-preservation/

Coming soon...

Next Pavement Preservation Wednesday July 27th

Florida Local Technical Assistance Program – Pavement Management Fundamentals







Final Pavement Preservation Wednesday of FY 2022 September 28th

Today's Super Panelists

Pavement Management Group

- James Golden Principal
 - Pavement Management introduction
 - A systematic approach
 - Systems, tools and processes



Polk County

- Austin Potts, P.E. Pavement Management Engineer
 - Polk County Network
 - Path to enlightenment
 - Results matter



Today's Super Panelists

Ergon Asphalt and Emulsions Inc.

- Larry Tomkins Vice President of Sales and Marketing - Southeast Region
 - ◆ The Pavement Preservation Why
 - Supplier perspectives
 - Industry resources and tools

Asphalt Paving Systems

- Kris Shane Technical & Marketing Manager
 - Pavement Preservation Tool example
 - Never say never
 - Get in the game







Today's Goals





- Discuss the different considerations from each leg of the table – Agency, Pavement Management Consultant, Supplier and Contractor
- Review lessons learned from implementing pavement preservation programs
- Understanding the "Why"
- 4. The future of infrastructure and the role of preservation
- 5. Answer your burning questions!

Panelists Presentations

Pavement Management Group – James Golden

WHO IS

THE PAVEMENT MANAGEMENT GROUP?

- Nationwide professional services firm
- Turn-key PMP Services







WHAT IS

PAVEMENT MANAGEMENT?

Software? GIS? Spreadsheet? Database?

Pictures? Videos? Maps?

Automated? Boots On The Ground? AI?

PCI? OCI? PASER? PCR?



A SYSTEMATIC

APPROACH TO THE ANNUAL MAINTENANCE AND REPAIR OF YOUR ROADWAY NETWORK.



Keep.lt.Simple.Silly

- Apply the right treatment
- To the right pavement
- At the right time





ISTHEGEAL

- Maximize the annual maintenance and repair budget
- Maximize taxpayer dollars
- Extending the life of the roadway network
- Optimizing the conditions of your roadway network



WHY DO I NEED A

PAVEMENT MANAGEMENT SYSTEM?

BECAUSE WHAT GETS
MEASURED GETS IMPROVE



SYSTEM TOOLS AND PROCESSES

- Industry standard software
- Complete network inventory
- High-definition video
- A.I Standard Condition Assessment
- GIS integration
- Reporting

- Pavement Modeling
- Condition Analysis
- Budget/Target Driven Scenario
 - **Work/Project Planning**
- Online Video Stream and Dashboard
- Managed Services and Support



PAVER®

- US Army Corps of Engineer Developed
- APWA Recommended, Distributed and Supported
- Network Accessible for Concurrent Use
- Full System Table Customization
- Leverages ASTM Condition Standards
- The Most Cost Effective Software Platform
- Industry Standard Application









INVENTORY

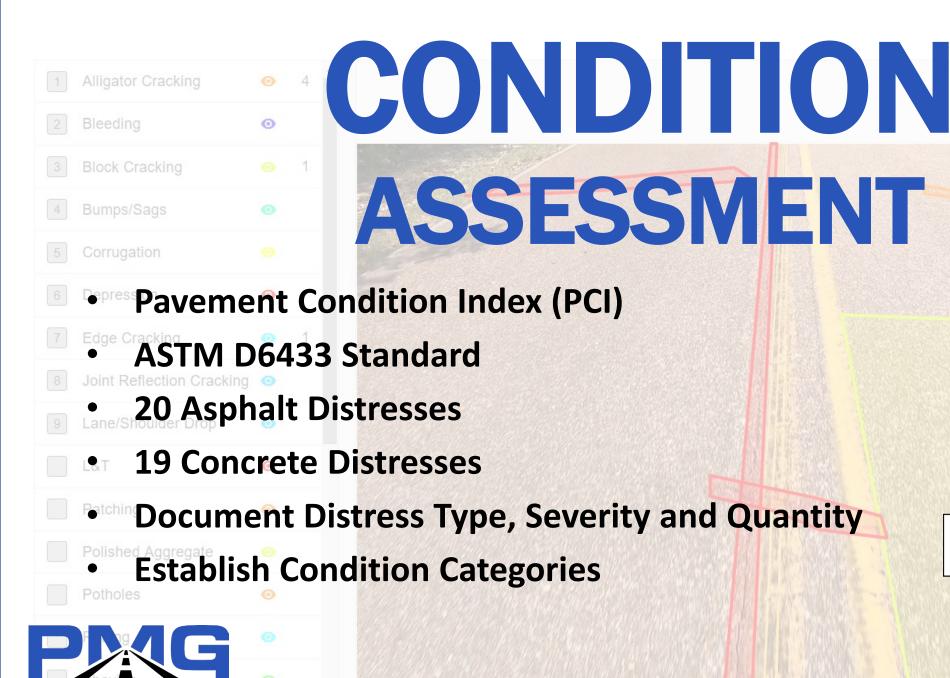
- An accurate account of your roadways
- Networks, branches and sections
- Sections are block by block
- All section attributes are tagged
- Latest work history is recorded



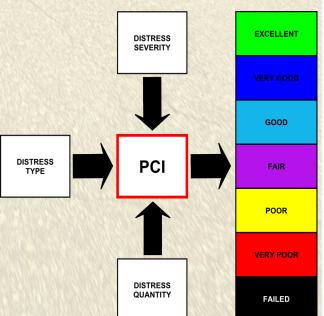
Rank: Collector Lanes: 2 Ward: 01 Surface: Asphalt

Length: 1,250 **Width:** 26 **Area:** 32,500





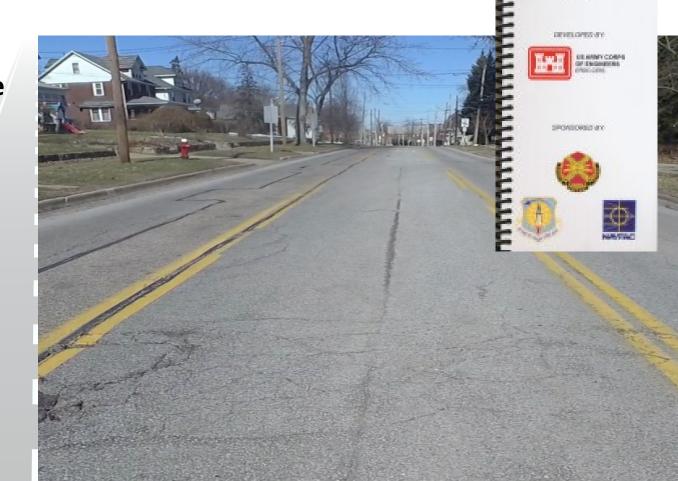




ASPHALT DISTRESSES

Alligator Cracking
Bleeding
Block Cracking
Bumps/Sags
Corrugation
Depression
Edge Cracking
Reflective Cracking
Lane/Shoulder Drop
Long./Trans. Cracking

Patching
Polished Aggregate
Potholes
Railroad Crossing
Rutting
Shoving
Slippage Cracking
Swell
Raveling
Weathering





CONCRETE DISTRESSES

Blow Up
Corner Break
Divided Slab
Durability Cracking
Faulting
Joint Seal Damage

Lane/Shoulder Drop

Linear Cracking Small Patching Large Patching **Polished Aggregate**

Popouts

Pumping

Punchout

Scaling

Railroad Crossing

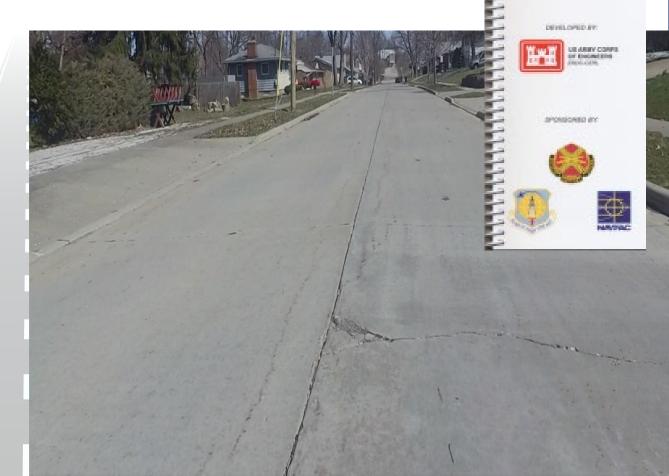
Shrink Cracking

Corner Spalling

Joint Spalling







DELIVERABLES

- Final Project Report
- Inventory Condition Report
- GIS Condition Map
- 1080P HD Videos
- Streaming Video Access
- Project Review
- PAVER Software
- ROADINSIGHTS

STREET NAME	SECT	FROM	ТО	LENGTH WID	TH T	TRUE AREA	SURFACE	RANK	SHOULDER	LANES IN	ISP DATE	PCI CONDT CATEGORY
ABBYSHIRE DB	01	BARLOW RD	BROOKSHIRE DR	1,260	26	32,760	Asphalt Concrete	С	CRB	2 10	0-12-2018	66.00 Fair
ABBYSHIRE DR	02	BROOKSHIRE DR	CHESHIRE DR	889	26	23,114	Asphalt Concrete	С	CRB	2 10	0-12-2018	74.00 Good
ABNER LN	01	HIGHGATE DR	HERRICK PARK DR	1,233	26	32,058	Asphalt Concrete	С	ROL	2 09	9-25-2018	56.00 Fair
ALEXANDRA DR	01	MIDDLETON RD	CHAMBERLIN BLVD	326	25	8,150	Asphalt Concrete	С	CRB	2 09	9-25-2018	92.00 Excellent
ALEXANDRA DR	02	CHAMBERLIN BLVD	ALEXANDRA DR (LOOP)	672	25	16,800	Asphalt Concrete	С	CRB	2 09	9-25-2018	92.00 Excellent
ALEXANDRA DR	03	ALEXANDRA DR	ALEXANDRA DR	313	25	7,825	Asphalt Concrete	С	CRB	2 09	9-25-2018	93.00 Excellent
ALEXANDRA DB	04	ALEXANDRA DR	CHAMBERLIN BLVD	364	25	9,100	Asphalt Concrete	С	CRB	2 09	9-25-2018	92.00 Excellent
ALISACT	01	LOOP	HERITAGE CT	971	22	21,362	Asphalt Concrete	С	ROL	2 10	0-12-2018	95.00 Excellent
ALLERTONICT	01	ANDOVER WAY	LOOP	417	25	10,425	Asphalt Overlay Over Asphalt	С	ROL	2 10	0-02-2018	55.00 Fair
ALSACE CT	01	WESTON DR	CUL DE SAC	279	26	11,114	Asphalt Concrete	С	ROL	2 10	0-05-2018	88.00 Very Good
AMBOY DR	01	ARBUTUS DR	SUNSET DR (SOUTH)	1,500	22	33,000	Asphalt Overlay Over Asphalt	С	ROL	2 10	0-05-2018	51.00 Fair
AMBROSE DR	01	CUL-DE-SAC	STEEPLEVIEW DR	1,958	26	50,908	Asphalt Concrete	С	CRB	2 10	0-04-2018	66.00 Fair
AMBROSE DB	02	STEEPLEVIEW DR	DEAD END	215	26	5,590	Asphalt Concrete	С	CRB	2 10	0-04-2018	26.00 Very Poor
ANDOVER WAY	01	MIDDLETON RD	WHITE MARSH WAY	719	26	18,694	Asphalt Concrete	С	ROL	2 10	0-02-2018	70.00 Good
ANDOVER WAY	02	WHITE MARSH WAY	WARREN POINT LN	466	26	12,116	Asphalt Overlay Over Asphalt	С	ROL	2 10	0-02-2018	66.00 Fair
ANDOVER WAY	03	WARREN POINT LN	ALLERTON CT	403	26	10,478	Asphalt Overlay Over Asphalt	С	ROL	2 10	0-02-2018	41.00 Poor
ANDOVER WAY	04	ALLERTON CT	WETHERBURN WAY	465	26	12,090	Asphalt Overlay Over Asphalt	С	ROL	2 10	0-02-2018	69.00 Good
ANDOVER WAY	05	WETHERBURN WAY	HAYMARKET (EB)	1,000	26	26,000	Asphalt Overlay Over Asphalt	C.	ROL	2 10	0-02-2018	57.00 Fair
ANNA LEE DR	01	WINSLOW DR	PLANTATION DR	364	24	15,628	Asphalt Overlay Over Portland Cement Ri					
ARBORWOOD DR	01	OLDE FARM LN	END LOOP	1,248	24	29,952	Portland Cement		LA.	US Army I and Devel	Engineer Res lopment Cent	search for
ARBUTUS DR	01	ARGYLE DR	AMBOY DR	529	22	11,638	Asphalt Overlay Over Asphalt	-		-		/*/
ARBUTUS DB	02	AMBOY DR	SUNSET DR (SOUTH)	1,131	22	24,882	Asphalt Overlay Over Asphalt					
ARGYLE DR	01	BARLOW RD	ARBUTUS DR	558	22	12,276	Asphalt Concrete				-	The same
ARGYLE DR	02	ARBUTUS DR	BECKWITH DR	348	22	7,656	Asphalt Concrete	- \		1		
ARISON WAY	01	DEAD END	WEEPING WILLOW DR	138	27	3,726	Asphalt Concrete					
ASHBROOKE WAY	01	WALTERS RD	ASHBROOK WAY (WB)	276	14	3,864	Asphalt Concrete		,		1	
ASHBROOKE WAY	02	ASHBROOK WAY (EB)	WALTERS RD	296	16	4,736	Asphalt Overlay Over Asphalt				1	
ASHBROOKE WAY	03	ASHBROOK WAY (WB)	HIGHWOOD WAY	954	26	24,804	Asphalt Concrete					
ASHBROOKE WAY	04	HIGHWOOD WAY	BENDELTON DR	511	26	13,286	Asphalt Concrete		-	PAVE	R™ 7	
ASHBROOKE WAY	05	BENDELTON DR	SILVERBERRY LN	496	26	12,896	Asphalt Overlay Over Asphalt		Pavem	ent Mana	gement S	System
ASHBROOKE WAY	06	SILVERBERRY LN	FARNHAM WAY	405	26	10,530	Asphalt Concrete			ARMY CORP	S OF ENGIN	EER8
ASHBROOKE WAY	07	FARNHAM WAY	NORBURY DR (WB)	433	26		Asphalt Concrete					







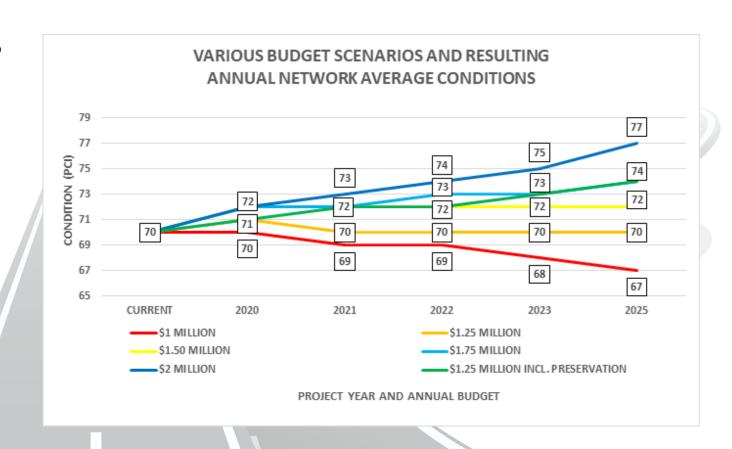




and Earth Condition and Video

DATA-DRIVEN

- Define maintenance policies
- Define maintenance costs
- Identify maintenance needs
- Compare annual budgets
- Compare various strategies
- Determine ROI
- Set condition targets
- Plan projects





DATA-DRIVEN EXAMPLE



A DATA-DRIVEN CONDITION ASSESSMENT

FOR ASPHALT REJUVENATION USING MALTENE REPLACEMENT TECHNOLOGY

SEPTEMBER 2021 PREPARED BY JAMES GOLDEN





INTRODUCTION

The following report aims to provide an objective, data-driven condition assessment of the maltene-based asphalt rejuvenation product, Reclamite® leveraging the ASTM D6433 inspection methodology and process for determining the surface condition of a roadway.







ASSESSMENT RESULTS

STREAMSIDE DRIVE, UNTREATED

The untreated lane shows noticeable longitudinal and transverse cracking that has been treated with a crack seal since being paved in 2013. Furthermore, you can see signs of raveling throughout 10% of the surface, and weathering throughout 100% of the surface.

70 PCI

After documenting these distresses within the PAVER® pavement management system, the PCI of the untreated lane is a 70.







ASSESSMENT RESULTS

STREAMSIDE DRIVE, TREATED

The treated lane shows that while longitudinal and transverse cracking is visible, it has just started to form and take shape. Furthermore, there are no signs of raveling within the treated surface, with light severity weathering only present within 20% of the surface.

84 PCI

After documenting these distresses within the PAVER® pavement management system, the PCI of the treated lane is 84.











ASSESSMENT RESULTS SAWMILL PARKWAY, UNTREATED

The untreated segment shows noticeable light and medium severity longitudinal cracking along the paving joint with light severity weathering present throughout 100% of the surface.

After documenting these distresses within the PAVER® pavement management system, the PCI of the untreated segment is 85.







ASSESSMENT RESULTS

SAWMILL PARKWAY, TREATED

The treated segment shows minimal, light severity longitudinal cracking along the paving joint, with light severity weathering present throughout just 50% of the surface.

After documenting these distresses within the PAVER® pavement management system, the PCI of the treated segment is 95.







What get's measured, gets improved!

Based upon the age of each pavement and PCI calculated from the ASTM D6433 condition assessment, the untreated locations lost an average of 3.5 PCI points per year, while the treated locations lost an average of just 1.5 points per year; resulting in a 2 point PCI gain.

It is within my professional opinion that an MRT application within the first three (3) years of an asphalt pavement's life will extend the life by up to an additional five (5) years, as shown in the below performance curves created directly from the aggregated data documented within this report.

James Mololutt

James Golden

Founder and CEO

James@PavementManagement.com



