







2014 conference overview & committees



DEMONSTRATION PROJECTS

Live demonstrations will be held on Wednesday, April 23, from 8:00 AM to 12:00 noon, both inside the hotel and outside in a hotel parking lot. More than 25 industry partners will demonstrate products, practices, and systems showcasing the details of these integral elements of our constantly expanding bridge preservation process.

This will be a unique opportunity to see firsthand the outside demonstrations showing new, innovative, and trusted applications, as well as the inside demonstrations giving examples of the forefront of asset management and other consulting services.

To allow you to see as many of the demonstrations as possible, they will be running concurrently and presented several times by each demonstrator. A site layout for the outside demonstrations and industry locations for both inside and outside is noted on a separate page for ease of use during the demonstrations.

TECHNICAL PRESENTATIONS

The portion of the conference program from 1:00 PM on Wednesday, April 23, through 5:15 PM on Thursday, April 24, will be devoted to technical presentations by bridge preservation experts from DOTs, academia, and industry.

More than 40 presentations will be given on topics related to preservation of decks, superstructures, substructures, and joints as well as performance measures, asset management, and research. The program is organized into three concurrent tracks. Mixed in with the technical tracks will be several workshops and panel sessions as listed on the agenda in this program.

SPOUSE PROGRAM

If you are a spouse attending the conference, a special program is scheduled for your enjoyment. This is your opportunity to explore Orlando and see the local attractions. The program will include a Tuesday morning airboat ride at Boggy Creek to kick off your time in Florida.

Also, many other excursions and attractions will be discounted through the hotel, including Bok Tower Gardens, Florida Mall, Orlando Outlets, Gatorland, St. Augustine Tour, and Sea World.

For more details and early booking, call $(407) 351-5555 \times 254$ and ask for the convention rates. The spouse program includes breakfast on Tuesday, Wednesday, and Thursday, and the evening conference receptions and mixers.

EXHIBITS

Add to your educational experience! An important part of this conference is the participation of vendors who offer pertinent products and services. Share the latest information about hundreds of products and services available for bridge preservation programs and applications.



CONFERENCE COMMITTEES

ORGANIZING COMMITTEE

Ed Welch, *NCPP (Co-chair)* Jim Edgerton, *Agile Assets (Co-chair)* Chris Keegan, *Washington State DOT* Andy Doyle, *Georgia DOT* Richard Kerr, Florida DOT Scott Stotlemeyer, Missouri DOT Patte Hahn, NCPP Darlene Lane, NCPP Pete Weykamp, *Greenman-Pedersen, Inc.*Brian Keierleber

TECHNICAL COMMITTEE

John M. Hooks, *NCPP (Co-chair)*Jeff Milton, *Virginia DOT (Co-chair)*Ed Welch, *NCPP*Chris Keegan, *Washington State DOT*

Anthony McCloskey, *Pennsylvania DOT*Scott Stotlemeyer, *Missouri DOT*Don Whistler, *Kansas DOT*Rich VanAllen, *Connecticut DOT*

Anwar Ahmad, *FHWA*Richard Dunne, *Michael Baker Jr., Inc.*Mike Stenko, *Transpo Industries*Ted Hopwood, *Kentucky Transportation Center*

DEMONSTRATION COMMITTEE

Siva Vanugopalan, Siva Corrosion (Co-chair) Tom Donnelly, Transpo Industries (Co-chair) Dennis Buckshaw, AP/M Permaform Fred Grant, DBI Services Patte Hahn, *NCPP*John M. Hooks, *NCPP*Kevin Irving, *AZZ Galvanizing Services*Darlene Lane, *NCPP*

Ron Meade, *Florida DOT* Pete Weykamp, *Greenman-Pedersen, Inc.*

conference schedule

MONDAY

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¥.	CONFERENCE REGISTRATION		outside Oceans Ballroom	Exhibit booth setup 1:00 РМ—5:30 РМ
4	ICE BREAKER RECEPTION & EXHIBITOR DISPLAYS	5:30- 7:00 рм	Oceans Ballroom 1–8	

TUESDAY 7

	CONFERENCE	7:00 AM-	Oceans Ballroom	
	REGISTRATION	1:00 AM— 1:00 PM	1–8	
	BREAKFAST & EXHIBITOR DISPLAYS	7:00 ам	Oceans Ballroom 1–8	
	JOINT PRESERVATION	8:00 am		Introductions, Opening Remarks, & Introduction of Industry Sponsors Chris Keegan, Washington State DOT
		8:30 am	Crystal Ballroom D & E	TSP-2 Update Ed Welch, NCPP
RNING	PARTNERSHIP MEETING MODERATOR:	8:45 am		What the Regional Partnerships Are Working to Accomplish Midwest, Northeast, Southeast, and Western BPP Chairs
0	Chris Keegan, Washington DOT	9:15 ам		Updates by SCOM-BTWG, SCOBS T-9, FHWA BPETG, TRB AHD70
		10:00 AM		Summary & Showcase of Partnership Working Group Deliverables NORTHEAST: Research WESTERN: Product Matrix SOUTHEAST: Paint Tools WESTERN: Product Matrix
	BREAK & EXHIBITOR DISPLAYS	10:30 ам	Oceans Ballroom 1–8	
	REGIONAL PRESERVATION PARTNERSHIP MEETINGS	11:00 ам		* See partnership meeting agendas on page 7.
	MEETINGS			
	LUNCH & EXHIBITOR DISPLAYS	12:00 рм	Oceans Ballroom 1–8	
NOC	LUNCH & EXHIBITOR	12:00 PM		Welcoming Remarks & Keynote Speaker Brian Blanchard, Florida DOT Keynote Speaker John Barton, Texas DOT Industry Update Richard Dunne, Michael Baker International Update on FHWA Activities Anwar Ahmad, FHWA
RNOON	LUNCH & EXHIBITOR DISPLAYS PLENARY SESSION MODERATOR:		1–8 Crystal Ballroom	Brian Blanchard, Florida DOT Keynote Speaker John Barton, Texas DOT Industry Update Richard Dunne, Michael Baker International Update on FHWA Activities
AFTERNOON	LUNCH & EXHIBITOR DISPLAYS PLENARY SESSION MODERATOR: Larry Galehouse, NCPP BREAK & EXHIBITOR	1:00 PM	1–8 Crystal Ballroom D & E Oceans Ballroom	Brian Blanchard, Florida DOT Keynote Speaker John Barton, Texas DOT Industry Update Richard Dunne, Michael Baker International Update on FHWA Activities

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(BREAKFAST BUFFET & EXHIBITOR DISPLAYS	6:30 ам	Oceans Ballroom 1–8				
D Z	TECHNOLOGY	8:00 AM- 12:00 PM	Marriott North Parking Lot	OUTDOOR DEMONST	TRATION SESSIONS (s	ee demonstration guide)	
Z	DEMONSTRATIONS			INDOOR DEMONSTR	INDOOR DEMONSTRATION SESSIONS		
0	модекатокs: Pete Weykamp,	0.0		OCEANS BALLROOM 9	OCEANS BALLROOM 10	OCEANS BALLROOM 11	
Σ	Greenman-Pedersen, Inc. & Ron Meade.	8–9 ам & 9–10 ам	Oceans Ballroom	Bentley	Westfall Company	Carbon Wrap	
	Florida DOT	10–11 am & 11 am–12 pm	9–11	Agile Assets, Inc.	Teledyne BlueView, Inc.	Trinity	
	LUNCH & EXHIBITOR DISPLAYS	12:00 рм	Oceans Ballroom 1–8				
	PLENARY SESSION MODERATOR: John M. Hooks, NCPP	1:00 рм	Crystal Ballroom D & E	KEYNOTE SPEAKERS Strength & Value o Carlos Braceras, Utah l FHWA Support & Pa Butch Wadelich, FHWA		rogram	
			Oceans Ballroom 11–12	Steve W. Johnson, New Determining Service Substructures Siva Venugopalan, Siva Impressed Current Central Florida	Kerr, Florida DOT sures by Bridge Main	ost to Preserve	
AFTERNOON	THREE CONCURRENT TECHNICAL SESSIONS	1:30 рм	1:30 рм	Oceans Ballroom 9–10	Weathering Steel Tripp Shenton, Universi The 50-Plus Mainte Studies Kevin Irving, AZZ Galva	a, Wisconsin DOT t on the Performance ty of Delaware enance-Free Bridge v nizing -Permeability Bridge	with Current Case
AF			Crystal Ballroom D & E	MODERATOR: Jeff POL Painting Projects in Louis Ruzzi, Pennsylvan Design Build and Sol Bridge Coating Pro Daniel Gonzales, Florid Assessment of Wea	n Pennsylvania DOT I nia DOT ole Source Extended jects a DOT othering Steel Bridge nent of Inspection an	Warranties on Performance in	
	BREAK & EXHIBITOR DISPLAYS	3:00 рм	Oceans Ballroom 1–8				
	THREE CONCURRENT TECHNICAL SESSIONS	3:30 рм	Oceans Ballroom 11–12	Bridge Deck Preser Scanning Ken Maser, Infrasense Hydrodemolition of Concrete Overlays Edward M. Liberati, Hyd	Allen, Connecticut DOT vation Using High-S Reinforced Concret dro-Technologies, Inc. vation Strategies in	e; Latex-Modified	

conference schedule

WEDNESDAY

FTERNOON	THREE CONCURRENT TECHNICAL SESSIONS (continued)	3:30 рм	Oceans Ballroom 9–10	2 BRIDGE PRESERVATION TECHNIQUES MODERATOR: Delores Valls, California DOT Joint Sealing for Small Span Bridge Decks Joseph Becker, R. J. Watson, Inc. Small Movement Expansion Joints: Performance & State of Practice in the Northeast Tripp Shenton, University of Delaware Cyclic Testing of a Pile Repair System on Timber Piles Emory Montague, Simpson Strong-Tie Company, Inc.
A			Ballroom D & E	3 BRIDGE COATING PRACTICES MODERATOR: Jeff Pouliotte, Florida DOT
	RECEPTION & EXHIBITOR DISPLAYS	6:00 рм	Oceans Ballroom 1–8	
	⋈ DINNER	7:30 рм		(On your own)

THURSDAY 24

(BREAKFAST BUFFET & EXHIBITOR DISPLAYS	7:00 ам	Oceans Ballroom 1–8	
			Oceans Ballroom 11–12	DECK & JOINT PRESERVATION MODERATOR: David Leggett, California Public Utility Commission Rivermont Avenue Bridge Rehabilitation Rob Dean, AECOM Transportation Iowa DOT Process for Epoxy Injection of Delaminated PCC Bridge Deck Overlays Norman L. McDonald, Iowa DOT Proper Assessment in the Use of Polymer Technology for Bridge Deck Overlays Gregg Freeman, Kwik Bond Polymers Preserving Decks with Polymer Overlays Thomas Donnelly, Transpo Industries
MORNING		8:00 AM	Oceans Ballroom 9–10	2 INNOVATIVE MATERIALS FOR PRESERVATION MODERATOR: Tripp Shenton, University of Delaware Survey of Innovative Products for Bridge Preservation Lorella Angelini, Angelini Consulting Services David Juntunen, Michigan DOT Role of Migratory Corrosion Inhibitors for Protecting Embedded & Exposed Steel Robert Walde, Shore Chemical, LLC James Nichols, NASA PANEL DISCUSSION EMPLOYING INNOVATIVE MATERIALS FOR PRESERVATION
			Crystal Ballroom D & E	3 ASSET MANAGEMENT MODERATOR: Anthony McCloskey, Pennsylvania DOT Bridge Preservation Metrics & Examples in Pennsylvania DOT District 11 Louis Ruzzi, Pennsylvania DOT Bridge Life-Cycle Cost Analysis: A Practitioner's Approach Nathan Coley, FHWA California's Bridge Preservation Index Performance Measure Michael B. Johnson, California DOT Bridge Preservation and MAP-21 Bert Hartman, Oregon DOT
(BREAK & EXHIBITOR DISPLAYS	10:00 ам	Oceans Ballroom 1–8	

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		10:30 am	Oceans Ballroom 11–12	DECK & JOINT PRESERVATION MODERATOR: Mike Stenko, Transpo Industries Alkoxysilanes for Treatment of Reinforced Concrete: Beauty Beyond Skin-Deep David Selley, Dow Chemicals Protect Your Assets: Hot Applied Waterproofing Solutions for Bridge Decks Lisa M. Zentner, Crafco, Inc. Sealing Concrete Bridge Decks: Overview of Current Technologies Lorella Angelini, Angelini Consulting Services
MORNING	THREE CONCURRENT TECHNICAL SESSIONS		Oceans Ballroom 9–10	2 RESEARCH NEEDS MODERATOR: Steve Varnedoe, Agile Assets, Inc. Short Overview of FHWA's Web-Based Training Course on Bridge Preservation Richard W. Dunne, Michael Baker International WORKSHOP BRIDGE PRESERVATION NEEDS
			Crystal Ballroom D & E	3 ASSET MANAGEMENT MODERATOR: Anthony McCloskey, Pennsylvania DOT Incorporating Preservation Strategies in Bridge Management Systems Jeremy Shaeffer, Bentley Systems, Inc. Evaluating the Benefits of Bridge Preservation through an Integrated Asset Management System Gregory Martin, Agile Assets, Inc. Developing an Effective Bridge Preservation Program Chris Keegan, Washington State DOT
	LUNCH & EXHIBITOR DISPLAYS	12:00 рм	Oceans Ballroom 1–8	
	THREE CONCURRENT TECHNICAL SESSIONS		Oceans Ballroom 11–12	Innovations in Bridge Expansion Joints Irene N. Friedman, Emseal Joint Systems, Ltd. Protecting Superstructure & Substructure Members under Joints Jeffrey Milton, Virginia DOT Joint Elimination as a Preservation Technique T. Shawn Ausel, Vaughn & Melton The Critical Few of Sustainable Expansion Joints J. R. Barden, Watson Bowman Acme
AFTERNOON		1:00 PM	Oceans Ballroom 9–10	2 SUPERSTRUCTURE PRESERVATION MODERATOR: John Buxton, Maine DOT Preservation of a 1950s Pre-AASHTO Post-tensioned Concrete Beam Bridge Atiq Alvi, TY Lin, International Group Timber Bridge Preservation in Washington State Chris Keegan, Washington State DOT Preservation of Movable Bridges Stan Koderbek, Collins Engineers, Inc. Special Considerations for Maintenance of the Sunshine Skyway Bridge James J. Jacobsen, Florida DOT
			Crystal Ballroom D & E	PERFORMANCE MEASURES MODERATOR: Anwar Ahmad, Federal Highway Administration Federal/Reauthorization Update Allison Klein, ARTBA Bridge Preservation Program Implementation Strategies Anwar Ahmad, FHWA WORKSHOP BRIDGE PRESERVATION IMPLEMENTATION & STRATEGIES

conference schedule

THURSDAY 24

	BREAK & EXHIBITOR DISPLAYS	3:00 рм	Oceans Ballroom 1–8	
			Oceans Ballroom 11–12	DECK & JOINT PRESERVATION MODERATOR: Michael B. Johnson, California DOT PANEL DISCUSSION BRIDGE DECK PRESERVATION
NOONGHLAA	THREE CONCURRENT TECHNICAL SESSIONS 3:30 PM	3:30 рм	Oceans Ballroom 9–10	2 SUPERSTRUCTURE PRESERVATION MODERATOR: Siva Venugopalan, Siva Corrosion Services, Inc. Enhancing Effectiveness of Crack Arrest Holes Using Expanded Bushings with Induced Beneficial Residual Len Reid, Fatigue Tech Retrofit Techniques for Distortion-Induced Fatigue Details on Steel Girder Bridges Calvin Reed, Kansas DOT Severe Bridge Impact: Alternatives to Replacement Graham Bettis, Texas DOT
		Crystal Ballroom D & E	3 PERFORMANCE MEASURES MODERATOR: George Hearn, University of Colorado Element-Level Data in Performance Measures for Bridge Preservation George Hearn, University of Colorado PANEL DISCUSSION STATE OF GOOD REPAIR	
	₩ DINNER	5:00 рм		(On your own)

FRIDAY 25

(BREAKFAST BUFFET & EXHIBITOR DISPLAYS	7:00 ам	Oceans Ballroom 1–8	
	PLENARY SESSION	8:00 ам	Crystal Ballroom D & E	KEYNOTE SPEAKER: Butch Wlaschin, FHWA
	REGIONAL BRIDGE PARTNERSHIP MEETINGS	8:30 ам		* See partnership meeting agendas on page 7.
	BREAK & EXHIBITOR DISPLAYS	9:45 ам	Oceans Ballroom 1–8	
		10:15 ам		Workshop Reports & Discussion
S	JOINT BRIDGE	10:30 ам	Crystal Ballroom D & E	Development of National Focus Areas, Goals, Deliverables, Working Groups
N W O E	PARTNERSHIP MEETINGS MODERATOR:	10:45 ам		OPEN DISCUSSION Forming Multi-partnership Committees on Common Needs Such as Decks
	Jeff Milton, Virginia DOT	11:00 ам		OPEN DISCUSSION Research Needs. Finalizing Research Statements for NCHRP through SCOBS & SCOM
	PLENARY SESSION MODERATOR: Richard Kerr, Florida DOT	11:15 am	Crystal Ballroom D & E	New Bridge Design & Construction: The Missing Element in Bridge Preservation Ted Hopwood, Kentucky Transportation Cabinet Innovative Delivery Systems for Bridge Preservation Contracts Gregg Hostetler, Infrastructure Engineers, Inc. Conference Wrap-Up Ed Welch, NCPP
	CONFERENCE ADJOURNS	12:00 рм		(Lunch on your own)

* partnership meetings

Midwest Scott Stotlemeyer, Chair

		11:00 ам	WELCOME & SELF INTRODUCTIONS
77	Oceans Ballroom 11	11:15 ам	WORKING GROUP PRESENTATION Preservation Matrix & Deterioration Modeling
		11:40 ам	Working Group Report-Outs
FRIDAY Ocea			
FRIDAY	Oceans	8:15 ам	Review of Previous Minutes, Elections of Directors & Officers
FRIDAY 25	Oceans Ballroom	8:15 am 8:45 am	



Southeast Jeff Milton, Chair

TUESDAY	Crystal	11:00 ам	WELCOME & SELF INTRODUCTIONS
22	Ballroom	11:20 ам	WORKING GROUP PRESENTATIONS
	D & E	11:40 ам	Define Potential Working Group & Research Statement Needs
		8:15 ам	BUSINESS MEETING Review of Previous Minutes, Elections of Directors & Officers
25	Crystal Ballroom D & E	8:45 am	Open Discussion on Future Regional Partnership Actions, Goals, and Deliverables Working Groups: Development of New, Sunsetting of Existing, Define Deliverables for Existing Working Groups
		9:15 ам	Finalize Research Statements for Discussion with Partnerships



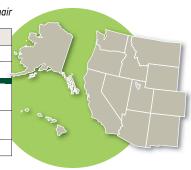
Northeast Richard Van Allen, Chair

TUESDAY	Oceans	11:00 ам	WELCOME & SELF INTRODUCTIONS
77	Ballroom	11:20 ам	WORKING GROUP REPORT-OUTS
77	9	11:40 ам	Define Potential Working Group & Research Statement Needs
FRIDAY	Oceans	8:15 ам	BUSINESS MEETING Review of Previous Minutes, Elections of Directors & Officers
25	Ballroom 9	8:45 am	Working Groups: Development of New, Sunsetting of Existing, Define Deliverables for Existing Working Groups
		9:15 ам	Finalize Research Statements for Discussion with Partnerships



Western Chris Keegan, Chair

TUESDAY	Oceans	8:00 am	WELCOME & SELF INTRODUCTIONS
177	Ballroom	11:20 ам	WBPP States Survey Questions Summary & Discussion
77	10	11:40 ам	Define Potential Working Group & Research Statement Needs
FRIDAY	Oceans	8:15 ам	BUSINESS MEETING Review of Previous Minutes, Elections of Directors & Officers
25		8:45 ам	Working Groups: Development of New, Sunsetting of Existing, Define Deliverables for Existing Working Groups
		9:15 ам	Finalize Research Statements for Discussion with Partnerships



exhibitors & exhibit/banquet hall











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Kwik Bond Polymers, Inc	. 41
Fermarust Technologies, Inc	. 47
Гhe Quikrete Company	. 51

Transpo Industries, Inc	9
Watson Bowman Acme	52

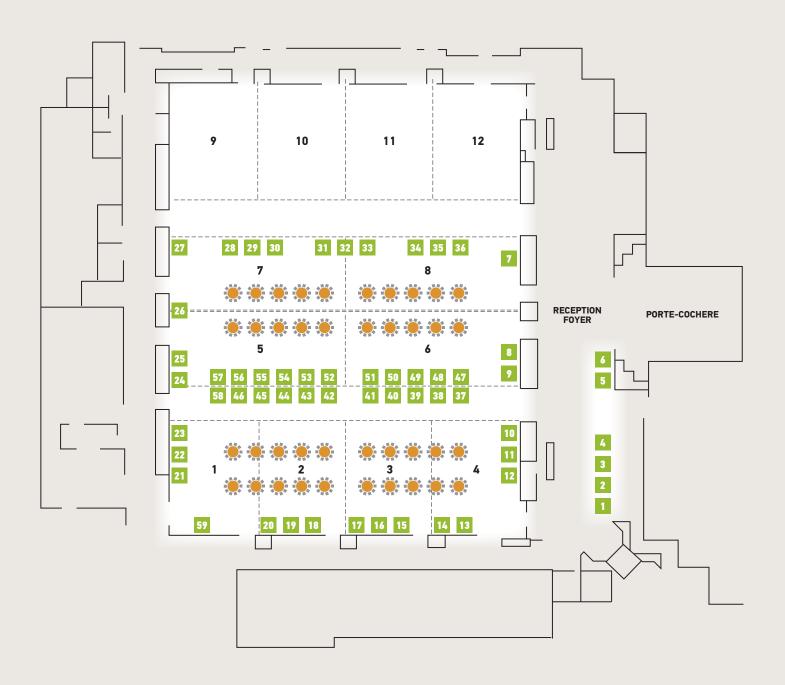
silver sponsor

Trinity Highway Products

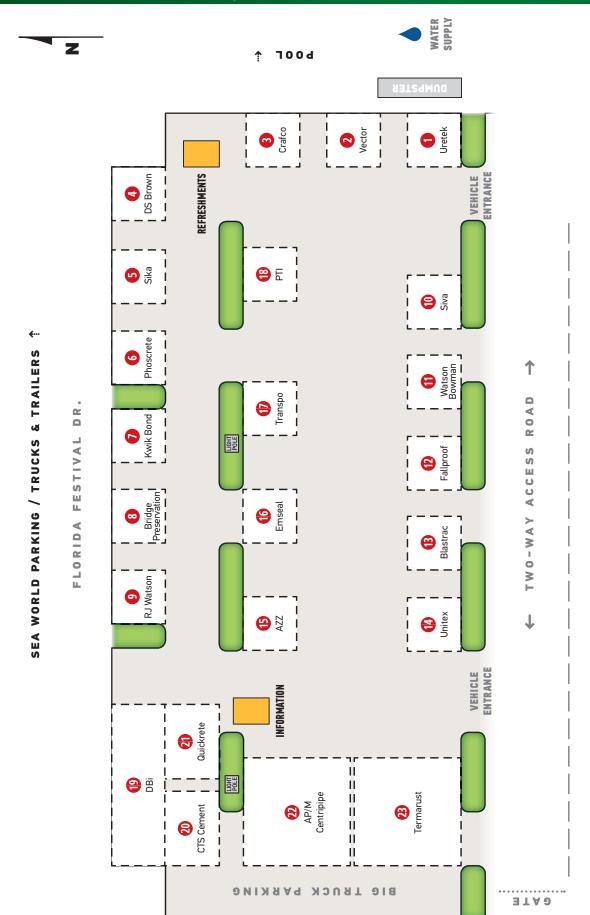
exhibitors

AASHT0 5	Infrasense, Inc	38
Advanced Chemical Technologies, Inc	Innovative Products/Surtreat	46
Advitam, Inc	Kentucky Transportation Cabinet	59
AgileAssets, Inc	KTA-Tator, Inc	32
Amroad, LLC	Kwik Bond Polymers, Inc.	41
AP/M CentriPipe 29	Metal Fatigue Solutions, Inc	55
Aspen Aerials, Inc	Michael Baker International	. 3
AZZ Galvanizing Services	Pavement Technology, Inc	16
BASF Corporation34	Phoscrete Concretes	18
Bentley Systems, Inc	R.J. Watson, Inc.	27
Blastrac	Resource International, Inc	. 8
Bridge Preservation, LLC	Sherwin Williams	58
Certainty 3D, LLC	Sika Corporation	10
Collins Engineers, Inc	Siva Corrosion Services, Inc.	39
Crafco, Inc	Structural Technologies	21
CTS Cement	Styron, LLC	23
DBi Services50	SureLift, Inc1	13
Dow AKSA	Teledyne BlueView, Inc.	35
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Euclid Chemical Co	Unitex/Dayton Superior	. 7
Fallproof Networks Systems, Inc	Uretek USA, Inc.	49
FRP Bridge Drain Pipe	Vaughn & Melton	14
Fyfe Co., LLC	Vector Corrosion Technologies	43
Greenman-Pedersen, Inc	Volkert, Inc.	. 4
GSSI, Inc	Watson Bowman Acme	52
Hydro-Technologies, Inc./Modified Concrete		

oceans ballroom



demonstrations map & schedule

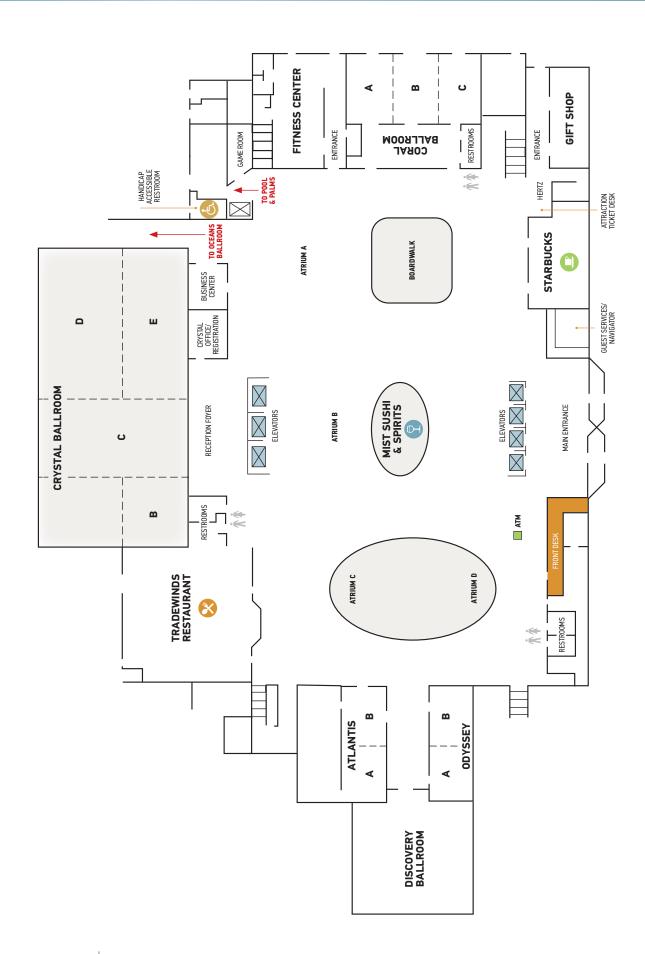


PARKING LOT

OCEANIA CONFERENCE ROOM .

RESTROOMS

SETUP



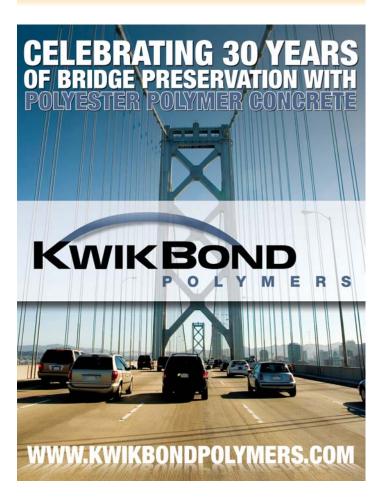


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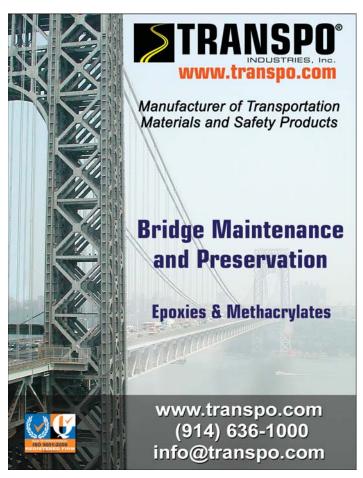
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BPP regional committees

midwest

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Indiana DOT Secretary/Treasurer (State Rep)

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Jerry Frantz Jay Ruohonen Jeff Christoff Siva Vanugopalan David Steele Drew Storey Scott Stotlemeyer Carl Puzev Glenn Washer William McEntee

Meredith Brothers, Inc. Bridge Guard, Inc. Watson Bowman Acme. Inc. Kentucky Transportation Cabinet Indiana DOT Missouri DOT Illinois DOT University of Missouri-Columbia

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Chair (State Rep)

Vice-Chair (Agency)

Vice-Chair (Industry)

EX-OFFICIO (NON-VOTING)

Cory Yeager Don Whistler FHWA. Oklahoma Division Kansas DOT

MI Trans. Asset Mgt. Council

FHWA Ex-Officio Past-Chair

Local Agency Director

northeast



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Connecticut DOT Rhode Island DOT Collins Engineers, Inc. Pennsylvania DOT

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Mike Stenko Richard Dunne Grea Roby Rod Thornton Tripp Shenton

Transpo Industries, Inc. Michael Baker International Marvland SHA Maryland SHA University of Delaware

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Dennis O'Shea FΗWΔ Pete Weykamp Greenman-Pedersen, Inc.

Regional Representative Past-Chair

southeast



OFFICERS

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Chair (State Rep) Vice-Chair (State Rep) Vice-Chair (Industry) Secretary/Treasurer (State Rep)

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Keith Ramsey John Sobanio Hector Laureano Agile Assets, Inc. Inspect Tech Alabama DOT Virginia DOT Georgia DOT North Carolina DOT Texas DOT Florida State University PR Highways & Trans. Authority

Industry Organization Director Industry Organization Director At-large Director State Agency Director

State Agency Director State Agency Director State Agency Director Academic Director State Agency Director

EX-OFFICIO (NON-VOTING)

Earl Dubin FHWA Danny Tullier Louisiana DOT Regional Representative

Past-Chair

western



OFFICERS Chris Keegan

Mike Johnson Gregg Freeman Bert Hartman

Washington State DOT California DOT Kwik Bond Polymers Oregon DOT

Chair (State Rep) Vice-Chair (State Rep) Vice-Chair (Industry) Secretary/Treasurer (State Rep)

DIRECTORS Gregg Freeman

Bert Hartman George Hearn Mike Johnson Chris Keegan Joshua Sletten

Debbie Steiger

Kwik Bond Polymers Oregon DOT University of Colorado California DOT Washington State DOT Utah DOT

Watson Bowman Acme Corp.

Industry Organization Director State Agency Director Academic Director State Agency Director

State Agency Director State Agency Director at Large At-large Director

EX-OFFICIO (NON-VOTING)

Domingo Galicinao FHWA, Hawaii Division Regional Representative