

Record of Professional Development Hours

COMPLETED FORM IS DUE TO AREMA BY OCTOBER 15, 2014

Please check the PDH credits earned for each session in the **PDH Earned** column.
Then total your PDH credits earned for the 2014 Annual Conference and enter on the last page.

Time	Session Description	PDH Credit	PDH Earned
Monday September 29, 2014			
10:00 am	Engineering Services Presentation FRA Autonomous Track Geometry Measurement System, Freight Car Demonstration		
10:30 am	Communications & Signals Presentation Understanding the Complexity of Implementing PTC Communications Technology		
11:00 am	Track Presentation Field Evaluation of Improved Track Components Under Heavy Axle Loads		
11:30 am	Structures Presentation CSX Transportation J&L Tunnel Modification Project		
12:00 pm	Passenger & Transit Presentation Railroad Infrastructure: Planning for Sea Level Rise		
12:30 pm	Maintenance Presentation Transition From Bridge End to Bridge and Bridge to Bridge End		
Monday General Session Total		3.0	Check here if attended. <input type="checkbox"/>

Tuesday | September 30, 2014

Technical Sessions: Communications & Signals

8:00 am	Condition Based Monitoring for Power Switch Machines		
8:30 am	Fuel Cell Technology for Backup and Supplemental Power Applications		
9:00 am	Industry Leaders' Panel		
10:30 am	Computer-Aided Analysis of Non-Coded Alternating-Current Track Circuits Using a Finite-Element Transmission-Line Model		
11:00 am	Train Detection in Non-Track Circuited Areas of Diamond Crossovers Utilizing Overhead Microwave Radar		
11:30 am	Bridging the European and North American Rail Safety Assurance Gaps		
2:00 pm	Benefits of Using Modern Axle Counters in CBTC and Light Rail Projects		
2:30 pm	Extending Your Ethernet Signal		
Communications & Signals Technical Session Total		4.5	Check here if attended. <input type="checkbox"/>

American Railway Engineering and Maintenance-of-Way Association

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Tuesday Technical Sessions: Engineering Services

8:00 am	Rail Temperature Prediction Model as a Tool to Issue Advance Heat Slow Orders
8:30 am	Kinder Morgan Edmonton Rail Terminal – Design and Construction Within 19 Months of a 4.6 Mile Long Spiral Loop for Crude Oil Loading of Unit Trains with Service Connections to CN and CP
9:00 am	Union Pacific Railroad Santa Teresa Terminal Project
9:30 am	Harrison Hub Fractionation Facility
10:30 am	Canadian Pacific Network Capacity
11:00 am	Development of Former Oakland Army Base
11:30 am	A Linear Programming Model for Optimization of the Railway Blocking Problem
2:00 pm	CSX Worcester Intermodal Terminal Expansion
2:30 pm	The Role of Rail in the National Freight Policy
3:00 pm	FRA Overview to On-Track Safety for Certain Roadway Work Groups and Adjacent Tracks Regulation
Engineering Services Technical Session Total	
	5.0
	Check here if attended. <input type="checkbox"/>

Tuesday Technical Sessions: Maintenance

8:00 am	A Comprehensive and Integrated Approach to MOW Planning: Leveraging the Power of Linear Asset Management Tools, Track Inspector Assessments and Automated Track Inspection Data
8:30 am	Replacing Drainage Systems Under Rail Beds With the Pipe Ramming Method
9:00 am	Right-of-Way Vegetation Management with Selective Spray Control
9:30 am	Effects of Track Parameters and Maintenance on Joint Bars
10:30 am	Coatings to Control Solar Heat Gain on Rail
11:00 am	Field Investigations of Track Conditions Associated with Joint Bar Failure
11:30 am	Weld Repair of Manganese Frogs for Enhanced Safety in Shared Service
2:00 pm	Implementation of Bridge Management Plan for IAIS
2:30 pm	Development of Exercise Gage Method to Improve Repeatability of the Track Strength Measurements
Maintenance Technical Session Total	
	4.5
	Check here if attended. <input type="checkbox"/>

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Tuesday Technical Sessions: Passenger & Transit

8:00 am	Chicago - St. Louis High Speed Rail Program Update		
8:30 am	Safety and Security Management Plan (SSMP) and Rail Transit Project Development		
9:00 am	Systems Integration on a Light Rail Project: A Tale of Two Agencies		
9:30 am	Automated High Level Platform Retractable Edge Feasibility to Accommodate Wide Load Passenger Freight Manual on High Speed Passenger Rail Lines		
10:30 am	High Output Work Trains for the Installation of Overhead Catenary Systems		
11:00 am	MBTA's Fitchburg Line Commuter Rail Line: Implementing Innovation Transitioning from Planning through Construction to Deliver a Design to Budget Project		
11:30 am	Don't Spill Your Coffee: The Importance of Spiral Design for Passenger Comfort		
2:00 pm	The Santa Margarita River Bridge Replacement Project: Overcoming Construction and Planning Challenges in Rebuilding Railway Infrastructure		
2:30 pm	Aerodynamic Effects of High Speed Trains on Track Workers and People on Platforms		
Passenger & Transit Technical Session Total		4.5	Check here if attended. <input type="checkbox"/>

Tuesday Technical Sessions: Structures

8:00 am	Retaining Wall Design for the Railroad Infrastructure: What Makes their Design & Construction Unique? A Selection Approach		
8:30 am	CSX Hoffman's Span Replacement over the Mohawk River		
9:00 am	Emergency Demolition of Partially Collapsed Rail Bridge		
9:30 am	CSX's Novel Approach to Accelerated RR Bridge Replacement & Rehabilitation - New Year, New Bridge		
10:30 am	East Alburgh Swing Span Automation: Modernizing a 100-Year-Old Movable Bridge		
11:00 am	"Where is the Rock?" - Substructure Remediation During Construction of Norfolk Southern Bridge MI-130.35 over the Shenango River in Shenango, PA		
11:30 am	Innovative Avalanche and Drainage Mitigation, BNSF Snowshed No. 7, Essex, Montana		
2:00 pm	Replacement of the East River Bridge		
2:30 pm	Bridge within a Bridge - Rehabilitation of CN Bridge 182.0 over Mississippi River, Dubuque, IA		
3:00 pm	A Tale of Two Floods - Reconstruction and Improvements to the CRANDIC Iowa River Crossing		
3:30 pm	Development of Crash Wall Design Loads from Theoretical Train Impact		
Structures Technical Session Total		5.5	Check here if attended. <input type="checkbox"/>

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Tuesday Technical Sessions: Track

8:00 am	Innovation in Tie Treatments Using One-Step Primary Preservatives Plus Borates
8:30 am	Considerations in Choosing a Top-of-Rail (TOR) Material
9:00 am	Measured and Predicted Rail Performance Adjacent to Deep Utility/Structure Excavations
9:30 am	Applied Heat by Geothermal Innovation - Enhancing Rail Operation and Safety
10:30 am	Wheel Matching Technology (WMT) for Railway Crossovers
11:00 am	Ultrasonic Tomography for Rail Flaw Imaging
11:30 am	Mass Stabilization of Marginal Soil for Rail Construction and Maintenance
2:00 pm	Performance Evaluation of Corrugated High Density Polyethylene Pipe in Intermodal Applications
2:30 pm	Investigation of the Effects of Lateral Load Distribution on Concrete Crosstie Track
Track Technical Session Total	
	4.5
	Check here if attended. <input type="checkbox"/>

Wednesday | October 1, 2014

8:45 am	Structures Presentation Alaska Railroad Corporation - Planning, Design & Construction of the Tanana River Bridge
9:15 am	Track Presentation BNSF/Laurel Street Grade Separation: Drainage Challenges and Solutions
9:45 am	Communications & Signals Presentation Central Control Facility Design and Modern Data Center Practices
10:45 am	Engineering Services Presentation CREATE Update
11:15 am	Maintenance Presentation Automated Crosstie Inspection Using Internal Imaging Techniques
11:45 am	Passenger & Transit Presentation Cost Savings Through Innovation - Eagle P3 Project, Regional Transportation District, Denver, CO
TOTAL for Wednesday General Session	
	3.0
	Check here if attended. <input type="checkbox"/>
TOTAL PDH CREDITS EARNED – INSERT TOTAL HERE	

Return this form to the AREMA Registration desk or via mail. Your PDH Certificate will be mailed to you after the conference. For questions regarding this form, please contact Desirée Knight at dknight@arema.org.

Please Print:

Name _____ Title _____

Organization _____ E-mail address _____

Address _____ City, State, Zip _____

Phone _____ Fax _____

I certify that I attended the above checked sessions.

Signature _____ Date _____ ID# _____