



2018 Summer Workshop | July 15–17

TRB Committee on Resource Conservation and Recovery

Waste Recycling, Upcycling, and Sustainable Transportation

Washington State University – Spokane

Spokane Academic Center Building, 600 N Riverpoint Blvd, Spokane, WA 99202

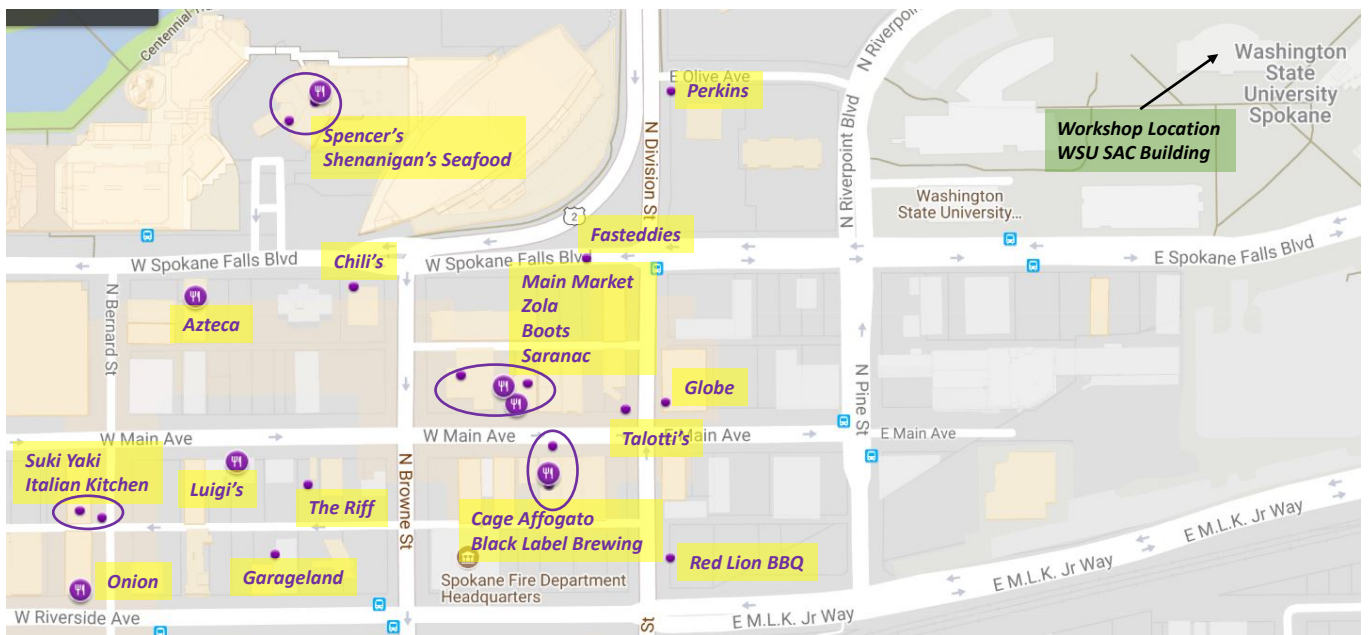
Parking/Transit Information and Campus Map

- <https://spokane.wsu.edu/facilities/parking/visitor-parking/>
- Vehicle permit required, \$6/day orange lot or \$4/day green lot
- Spokane Transit Authority bus routes serving campus are #26, #28, and #29

Room Locations

- Spokane Academic Center (SAC) building
- SAC 20: All Session Presentations (except 3A)
- SAC 30: Meetings and Session 3A presentations
- SAC 45: Check-in and Break Room

Nearby Restaurants, 0.2 to 0.7 miles from WSU SAC Building



AGENDA

Sunday July 15	
11 am – 1 pm SAC 45	Check-In Lunch options available on site: Soup's On food truck
1 – 3 pm SAC 30	ADC60 Committee Business Meeting
3 – 3:30 pm SAC 45	Afternoon Break
3:30 – 5:30 pm SAC 30	ASCE Bituminous Materials Committee mid-year meeting
After 5:30 pm	Dinner on your own
Monday July 16	
Before 9	Breakfast on your own
7:30 – 9 am SAC 45	Check-In
9 – 9:30 am SAC 20	Welcome, Opening Speakers <ul style="list-style-type: none"> • Cyrus Parker, GeoEnvironmental Supervisor, North Carolina Department of Transportation • Cadie Olsen, Environmental and Sustainable Programs Manager, City of Spokane
9:30 – 10:30 am SAC 20	Presentations – Energy Harvesting Moderator: Suzie Boxman, US Environmental Protection Agency <ul style="list-style-type: none"> • Lukai Guo, University of South Florida, A New Design Concept of Energy Harvesting Pavement • Samer Dessouky, University of Texas at San Antonio, Experimental Assessment and Economic Feasibility of Harvesting Thermoelectric Energy from Asphalt Pavement • Kristine Major, City of Spokane Solid Waste Disposal Dept., Waste to Energy in Spokane County
10:30 – 11 am SAC 45	Morning Break & Check-In

<p>11 am – 12:30 pm A: SAC 30 B: SAC 20</p>	<p>Presentations (Track A: Salt Impacts; Track B: Pavements) Track A: Salt Impacts Moderator: Jane Hann, Colorado Department of Transportation</p> <ul style="list-style-type: none"> • Andy Alden, Virginia Tech, Road Salt Recycling and Water Quality Improvement through Phytoremediation and Bio-Fuel Production • Mehdi Honarvar Nazari, Washington State University, New green deicers prepared from local fruit wastes using an innovative method • Michelle Akin, Washington State University, Friction and Snow–Pavement Bond after Salting and Plowing Permeable Friction Surfaces • Gang Xu, Washington State University, Storm water infiltration test and NMR study on salt scaling resistance of fly ash based pervious concrete <p>Track B: Pavements Moderator: Steven Gobelman, Andrews Engineering, Inc.</p> <ul style="list-style-type: none"> • Somayeh Nassiri, Washington State University, Recycled Glass Fiber Reinforced Polymer Composites Incorporated in Mortar for Improved Mechanical Performance • Xiaochao Tang, Widener University, Characterization of a Local Municipal Sewage Sludge Ash for Potential Use as Cementitious Additives • Sen Du, Washington State University, Abrasion Resistance of High Volume Fly Ash Concrete As Influenced By Inclusion Of Graphene Oxide • Jialuo He, Washington State University, Opportunities and Challenges of the Use of Bio-based Additives to Pavement: A Review
<p>12:30 – 2 pm</p>	<p>Lunch on your own (café on campus or nearby restaurants)</p>
<p>2 – 3:30 pm SAC 20</p>	<p>Presentations – Stormwater & Water Quality Moderator: Joyce Rebar, Maryland Department of Transportation</p> <ul style="list-style-type: none"> • Aaron Poresky, Geosyntec Consultants, New Guidance and Tools to Support Decisions about Stormwater Infiltration in the Highway Environment • Mary Ellen Tuccillo, The Cadmus Group, Green Stormwater Infrastructure Strategies for Airports • Lewis Lloyd, Virginia DOT, Characterization of Residuals Collected from Street Sweeping Operations • Helen Corley, WOOD Environment & Infrastructure Solutions, Suitability & Success of a Low-tech, Cost-effective, and Passive Remedy for Groundwater Contamination
<p>3:30 - 4 pm SAC 45</p>	<p>Afternoon Break & Check-In</p>

4 – 5:30 pm SAC 20	Presentations – Reuse Moderator: Christy Gerencher, Transportation Research Board <ul style="list-style-type: none"> • Marsha Meinders, University of Minnesota Duluth, Beneficial Uses of Sediment Dredged from the Duluth-Superior Harbor, MN • Larry Zanko, University of Minnesota Duluth, Mine It and Use It: Making the Most of Mining Materials and Post-Mining Landscapes • Leonard Farr, Stantec, Using State and Federal Brownfield Grants to Fund Environmental Assessment in Transit Corridors • Joe Radonich, Montana Department of Transportation, Beneficial Reuse of Asphalt Millings: A Balance between Practicality, Feasibility, and Regulatory Authority
After 5:30 pm	Dinner on your own
Tuesday July 17	
Before 9	Breakfast on your own
7:30 – 9 am SAC 45	Check-In
9 – 10:30 am SAC 20	Presentations – DOT Risk Management Moderator: Shawn Schmelzer, Maryland State Highway Administration <ul style="list-style-type: none"> • Shawn Rapp, Oregon Dept. of Transportation and Kirsten White, Cascadia Associates LLC, Oregon Statewide Study of Traffic-Related Soil Contaminants for Waste Management Planning • Cyrus Parker, NCDOT, Communicating The Hazard • David Wilson, Virginia Department of Transportation, Management of Environmental Commitments during Road Construction Projects: VDOT's Environmental Performance Program • Chris Lalli, EEE Consulting, Inc., Risk Management Decisions & Media Management Challenges Related to the Remediation of an Illicit Tire & Solid Waste Dump Prior to Roadway Right-of-Way
10:30 – 11 am SAC 45	Morning Break & Check-In
11 am – 12:30 pm SAC 20	Presentations – Pavements Moderator: Xianming Shi, Washington State University <ul style="list-style-type: none"> • Md Islam, Colorado State University Pueblo, Performance of Cold-in-Place Recycled Asphalt Pavements in Colorado • Kelly Cook, Edw. C. Levy Company, Washington DOT Utilization of Steel Furnace Slag Aggregate in HMA Surface • Monte Niemi, First State Tire Recycling & TDA Mfg., Tire Derived Aggregate: Green Solutions • George Wang, East Carolina University, Mechanical Properties of Concrete Containing EAF slag and Shredded Scrap Rubber
After 12:30 pm	Lunch on your own
2 – 4:30 pm	Field trip to Spokane Waste to Energy Facility, limited to 40 persons, indicate during Check-In if you can participate