## 2023 Highway Geology Symposium Schedule

Monday, August 14, 2023		Location
8:00 AM - 12:00 PM	Rockfall Fragmentation Demo (Pre-Registration Required)	Offsite: UW Tacoma
8:30 AM - 5:00 PM	Registration Open	Rotunda
9:00 AM - 4:00 PM	Exhibitor Setup	Pavilion BCEF
9:00 AM - 11:30 AM	FHWA Workshop: "What you Need to Know About Seismic Geophysics for Engineering Applications" (Pre-Registration Required)	Pavilion AG
1:00 PM - 5:00 PM	Transportation Research Board Session: "Geotechnical Data Sourcing and the Quality and Use of Models for Geotechnical Design" (Pre-Registration Required)	Pavilion AG
5:00 PM - 6:30 PM	National Steering Committee Meeting	Torcello/Burano
6:00 PM - 8:00 PM	Icebreaker Reception	Pavilion BCEF

Tuesday, August 15,	2023	Location
7:00 AM - 8:00 AM	Breakfast	Pavilion D
7:00 AM - 5:00 PM	Registration	Rotunda
8:00 AM - 8:50 AM	HGS Welcome & Opening Remarks	Pavilion AG
8:00 AM - 8:30 AM	Marc Fish WSDOT State Eng. Geologist & Kerri Woehler WSDOT Dep	outy Asst. Secretary
8:30 AM - 8:50 AM	Washington Geology, Trevor Contreras, WA Geological Survey	
8:50 AM - 9:30 AM	AM Technical Talks - Session 1 Pavilion AG	
8:50 AM - 9:10 AM	Innovative Geophysical Application for Bridge Foundation Design an Young Author: Ronan Jones	d Construction
9:10 AM - 9:30 AM	Design and Construction of a Bottom-up Retaining Wall in Slickensic Young Author: Kirsten Grant	led Red Bed Material
9:30 AM – 10:00 AM	Mid-Morning Break	Pavilion BCEF
10:00 AM - 12:00 PM	Technical Talks - Session 2	Pavilion AG
	Impacts of Weak Rock Units on Cut Slope Construction	
10:00 AM - 10:20 AM	Young Author: Justin Manning	
10:20 AM - 10:40 AM	Comparative Analysis of Rock Slope Scaling Quantities and Crew Hol for Standardizing the Practice Young Author: Katelyn Card	urs: A Strategic Approach
	Seward Highway Rockfall Mitigation, Anchorage, Alaska	
10:40 AM - 11:00 AM	Young Author: Sebastian Dirringer	
11:00 AM - 11:20 AM	A Multi-Phased Approach to Rockfall Mitigation at Don Pedro Dam: Critical Facilities and Roadways Young Author: Joey Renner	Lessons Learned for
	Quarrying a Hillslope in Waltham: Considerations and Lessons Learn in an Open Excavation	ed from Stabilizing Rock
11:20 AM - 11:40 AM	Young Author: Nolan Lescalleet	
	Bolt Creek Fire: Post-Wildfire Debris Flow Risk Assessment and Barrier Design on US 2, Near	
11.40 ANA 12.00 DNA	Grotto, WA	
11:40 AM - 12:00 PM 12:00 PM - 1:00 PM	Young Author: Cody Chaussee	Pavilion D
1:00 PM – 3:00 PM	Technical Talks - Session 3	Pavilion AG
1:00 PM - 1:20 PM	Emergency planning and mitigation for post-fire debris flows in Glenwood Canyon, Colorado Young Author: Aliena Debelak	
	Freemont Hall Landslide	
1:20 PM - 1:40 PM	Young Author: Jamie Cravens	

	Landslide Study and Final Repair Design Route 3 Randolph County,	Missouri
1:40 PM - 2:00 PM	Author: John Szturo	
	The SR112 / Clallam Bay Landslide(s) - Charaterization and Mitigation	on
2:00 PM - 2:20 PM	Author: Gabriel Taylor	
	State Route 112: Landslide Alley – Striving for Resiliency	
2:20 PM - 2:40 PM	Author: Tom Badger	
	Raised Draperies - Defining Hybrid Barriers and Attenuators by App	lication
2:40 PM - 3:00 PM	Author: John Duffy	
3:00 PM – 3:30 PM	Afternoon Break	Pavilion BCEF
3:30 PM – 4:40 PM	Technical Talks - Session 4	Pavilion AG
	How To Develop Rockslope Mitigation For Very Large Roadway-Dip	ping Blocks Along an
	Interstate Highway	
3:30 PM - 3:50 PM	Author: Stephen Newman	
	"What If the Rock Only Threatens to Fall?" Emergency Response to	a Decoupled Cliff Face in
	Washington State	
3:50 PM - 4:10 PM	Author: Eric Smith	
	I-90 Rock Slopes: A Retrospective of the Snoqualmie Pass Project	
4:30 PM - 4:50 PM	Author: Norm Norrish	
4:40 PM - 5:00 PM	Mt. Rainier Field Trip Preview	Pavilion AG
6:00 PM – 8:00 PM	Sailing Cruise on Lady Washington (Pre-Registration Required)	Offsite

Wednesday, August 16, 2023		Location
7:30 AM - 8:00 AM	Grab N' Go Breakfast	Pavilion Pre-Function
8:00 AM	Board Buses for HGS Field Tour	
8:00 AM - 6:00 PM	HGS Field Tour to Mount Rainier National Park	

Thursday, August 17,	. 2023	Location
7:00 AM - 8:00 AM	Breakfast	Pavilion D
7:00 AM - 5:00 PM	Registration	Rotunda
8:00 AM - 5:00 PM	Exhibits Open	Pavilion BCEF
11:00 AM - 5:00 PM	Companion Activities	Offsite: 7 Seas Brewery & Museum of Glass
8:00 AM - 10:00 AM	Technical Talks - Session 5	Pavilion AG
8:00 AM - 8:20 AM	Climate Reslience and Infrastructure Adaptation on California's National Forests Author: Gordon Keller	
8:20 AM - 8:40 AM	Geohazard Management on Colorado SH 133 From Planning to Mitigation Author: Randy Post	
0.40 444 0.00 444	The State of Measurment While Drilling for the Washington State Department of Transportation	
8:40 AM - 9:00 AM 9:00 AM - 9:20 AM	Author: Mike Mulhern Advancing Subsurface Investigations Beyond the Borehole with Passive Seismic Horizontal-to- Vertical Spectral Ratio and Electromagnetic Geophysical Methods at Transportation Infrastructure Sites in New HampshireAuthor: J.R. Degnan	
9:20 AM - 9:40 AM	Non-destructive Surface Wave Geophysics Characterizes Salt Dissolution 140m Under US Highway 50 at Brandy Lake, Reno County, Kansas Author: Johari Pannalal	
9:40 AM - 10:00 AM	Mitigation Alternatives for Salt Dissolution Subsidence Impacting US Highway 50 at Brandy Lake, Reno County, Kansas Author: Jeff Keaton	
10:00 AM - 10:30 AM	Mid-Morning Break	Pavilion BCEF

10:30 AM – 11:50 AM	Technical Talks - Session 6	Pavilion AG
10:20 414 40:50 414	Using State-of-the-Art Technologies and Tools for Geotechnical Investigation and Design	
10:30 AM - 10:50 AM	Author: Brian Collings The Development and Utilization of a Cloud-Based Database and Visualization App	
	Results and Design: PileTrac	Suanzation App for the
10:50 AM - 11:10 AM		
	Pavement Bump at the Bridge End Elimination	
11:10 AM - 11:30 AM	Author: Jeremiah Kokes	
	US 460 Bridges over Marrowbone Creek, Pond Creek and Russell Fo	ork River
11:30 AM - 11:50 AM	Author: Tony Beckham	
11:50 AM – 1:00 PM	Lunch	Pavilion D
1:00 PM – 3:00 PM	Technical Talks - Session 7	Pavilion AG
	Taking into Account the Fragmentation and Variability of Rockfall a	nd the Third Dimension in
4.00 PM 4.20 PM	Rockfall Barrier Design	
1:00 PM - 1:20 PM	Author: Time Shevlin	
1:20 PM - 1:40 PM	Introducing A New Impact Alert System for Rockfall Barriers Author: Sage Evans	
1.20 PIVI - 1.40 PIVI		
1:40 PM - 2:00 PM	The Geohazard Pro must know "Section 262 Slope Scaling" Author: Todd Hansen	
1.401101 2.001101	Rock Stabilization at Pompeys Pillar National Monument: The Use of Numerical Modeling to	
	Analyze Risk of Toppling Failure	
2:00 PM - 2:20 PM		
	Padden Creek I-5 Stream Crossing	
2:20 PM - 2:40 PM	Author: Mark Rose	
	The Erodibility Index in Washington State's Intermediate Geomaterials: The Need for a	
	Practical Tool	
2:40 PM - 3:00 PM	Author: Robert Humphries	Pavilion BCEF
3:00 PM - 3:30 PM	Afternoon Break Technical Talks - Session 8	Pavilion AG
3:30 PM – 5:30 PM		Pavilion AG
3:30 PM - 3:50 PM	Accelerating the Transition to Digital Deliverables Author: Katie Aquilar	
5.50 FIVI - 5.50 FIVI	GIS Enterprise-based Prototype Erosion and Slope Stability Screeni	ng Tool for Transportation
	Infrastructure Management	
3:50 PM - 4:10 PM	Author: Bin Wang	
	Integrating Field Data with Physics Engine Simulations of Fragmental Rockfalls	
4:10 PM - 4:30 PM		
	Emergency Response and Cures for Karst on Chemical Road	
4:30 PM - 4:50 PM	A Author: Sarah McInnes	
	A Comprehensive Approach to Rock Slope Design Solutions along NC-88 in Ashe County,	
	North Carolina Author: Bret Watkins	
4:50 PM - 5:10 PM		acament Racad Dasian
	Hybrid Design Approach for Anchored Wire Mesh: Towards A Displ	acement based Design
5.10 DN1 - 5.20 DN1	Author: Lucas Martins	
5:10 PM - 5:30 PM	Author: Lucas Martins Student Poster Social	Rotunda
5:10 PM - 5:30 PM 5:30 PM - 6:30 PM	Student Poster Social	Rotunda
		Rotunda Pavilion D