

Protecting Salmon from Tire Wear Toxins –

6-PPDQ Workshop 2024

Day 1 (April 29, 2024)

Welcoming remarks, posters & refreshments to occur in the Dr. Ralph Nilson Centre for Health and Science (Building 210, 1st and 2nd floor atriums), Vancouver Island University (900 Fifth Street, Nanaimo)

Presentations & Panel Discussion located in the Faculty of Management Centre (Building 250, Room 125)

Time	Speaker	Content
8:00 – 9:00	Everyone arriving, poster/volunteer info/booths set up, etc.	
9:00 – 9:15	VIU President & VIU Elder in Residence	Conference Welcome
9:15 – 9:30	Grab Beverages & Head to Lecture Theatre	
9:30 – 10:15	Ed Kolodziej, <i>University of Washington</i>	Discovery of 6-PPDQ's acute toxicity: background of how it was discovered
10:15 – 11:00	Markus Brinkmann, <i>University of Saskatchewan</i>	Toxicity of 6PPD-quinone across fishes of commercial, cultural, and ecological importance
11:00 – 11:30	Quick Break	
11:30 – 11:45	Erik Krogh, <i>Vancouver Island University</i> & Haley Tomlin, <i>British Columbia Conservation Foundation</i>	Mitigating inputs of tire wear toxins to protect salmonid habitat on Vancouver Island project overview
11:45 – 12:00	Tanya Brown, <i>Simon Fraser University</i> & Rachel Scholes, <i>University of British Columbia</i>	Identifying and mitigating hotspots of salmon exposure to toxic road runoff project overview
12:00 – 12:30	Panel Q+A – including keynotes	
12:30 – 14:00	Short Lunch + Networking/Posters/Booths + lab tours	
14:00 – 15:00	John White, <i>Snuneymuxw First Nation</i> Tim Kulchyski, <i>Cowichan Tribes</i> Kyle Miller, <i>Tseshaht First Nation</i> Justin Budyk, <i>Peninsula Streams Society</i> Sylvie Spraakman, <i>City of Vancouver</i> Keith Estes – <i>Long Live the Kings</i>	Each panel member will speak for 5 -10 minutes with regards to: <ul style="list-style-type: none"> • currently 6-PPDQ related projects; • how 6-PPDQ impacts their community; • what they are hoping comes of ongoing research; and/or • what they are doing to combat the issue
15:00 – 15:30	Panel Q+A	
15:30 – 16:00	Dan Cheater, <i>Ecojustice</i>	6PPD and the <i>Canadian Environmental Protection Act</i> : Regulating toxics
16:00 – 17:00	Posters + Networking + lab tours	

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Day 2 (April 30, 2024)

Posters & Refreshments to occur in the Dr. Ralph Nilson Centre for Health and Science (**Building 210**, 1st floor atrium). **All panel discussions** hosted in the Faculty of Management Centre (**Building 250**, Room 125)

Time	Speaker	Content
8:00 – 8:50	Everyone arriving, poster/volunteer info/booths set up, etc.	
8:50 – 9:00	BCCF/VIU	Welcome; overview of the day
Topic 1: Toxicity		
9:00 – 9:15	Josh Baker, <i>Nautilus Environmental</i>	Aquatic toxicity testing approaches to identify, quantify and monitor 6-PPDQ effects
9:15 – 9:30	Catherine Roberts, <i>University of Saskatchewan</i>	Toxicity of 6PPD-quinone to early life stage rainbow trout and lake trout and putative toxicity pathways
9:30 – 9:45	Bonnie Lo, <i>Simon Fraser University</i>	Sub-lethal and lethal (health) effects of 6-PPDQ on Pacific salmonids
9:45 – 10:00	Garrett Foster, <i>Washington State University</i>	Habitat and life stage affect toxicity of 6-PPDQ to coho salmon
10:00 – 10:30	Panel Q&A	
10:30 – 11:00	Quick Break	
Topic 2: Occurrence		
11:00 – 11:15	Joseph Monaghan, <i>Vancouver Island University</i>	Condensed phase membrane introduction mass spectrometry (CP-MIMS): A flexible tool for environmental analysis of tire-wear toxins
11:15 – 11:30	Angelina Jaeger, <i>Vancouver Island University</i>	Intensive temporal and spatial sampling for the fate and distribution of 6PPD-Q in waterways.
11:30 – 11:45	Mason King, <i>Simon Fraser University</i>	High temporal resolution 6PPDQ water concentration time series in coho streams during rain events
11:45 – 12:00	Misha Zvekic, <i>Vancouver Island University</i>	Physicochemical properties and environmental partitioning of para-phenylenediamine quinones (PPDQs) measured with direct mass spectrometry
12:00 – 12:30	Panel Q&A	
12:30 – 13:30	Lunch + Posters + Lab Tours	
Topic 3: Fate & Remediation		
13:30 – 13:45	Simon Maguire, <i>Vancouver Island University</i>	Computational chemistry for understanding the properties of 6-PPDQ
13:45 – 14:00	Yanru Wang, <i>University of British Columbia</i>	Occurrence and leaching potential of 6PPD and 6PPD-quinone from Vancouver road dust
14:15 – 14:30	Tim Rodgers, <i>University of British Columbia</i>	Design guidelines to reduce 6PPD-quinone loadings using stormwater bioretention cells
14:30 – 14:45	Ani Jayakaran, <i>Washington State University</i>	The promise of permeable pavements in treating tire particles and associated leachable contaminants
14:45 – 15:15	Panel Q&A	
15:15 – 15:30	Wrap Up Discussion	
15:30 – 16:30	Open discussions + Posters	

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