River Restoration Knowledge Exchange Workshop for British Columbia

November 2, 2022 8:30 am to 4:00 pm

FULLY RECONNECTING INCISED CHANNELS TO THEIR FLOODPLAINS

(a.k.a. Restoration to Stage 0/8):

RESTORATION POTENTIAL, APPROACHES, OUTCOMES AND BASIS FOR DESIGN

Full YouTube playlist, click here.

Schedule - Morning

8:30-8:45	15	**Welcome, Introductions and Aim of Workshop**	Dale / Jason
8:45-9:10	25	**Background, theory and practice** Understanding system-scale sediment dynamics, floodplains as water & sediment capacitors, anthropogenic impacts, constrained vs unconstrained reaches, designing dynamically stable channel-wetland-floodplain systems.	Colin Thorne
9:10-9:30	20	**The Long Road to Stage 0** Review of disturbance history, early attempts at restoring channels, and transition to 'thinking outside the channel', stressing lessons learned & learning by doing.	Janine Castro
9:30-10:15	45	**Identifying potential reaches for floodplain reconnection** GIS-based analysis to identify potential reaches for reconnecting anthropogenically-incised streams to some (Stage 8) or all (Stage 0) of their pre-disturbance floodplains	Paul Powers
10:15-10:30	15	**Questions for Colin Thorne / Janine Castro / Paul Powers**	
10:30-10:45	15	**Morning break and time for additional questions (if necessary)**	
10:45-11:45	60	**Low-tech approaches to project design & implementation** H & H analysis & modeling, stream & site surveys, restoration design, contracting, and construction (incl. water management planning, sediment control, fish salvage, supervising contractors, & partnering with beaver)	Jared McKee
11:45 – 12:00	15	**Questions for Jared McKee**	
12:00-12:45	45	**LUNCH BREAK**	

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Schedule - Afternoon			
12:45 –1:30	45	**Case Studies 1: Overview of completed projects** Starting with small projects in meadows and creeks and scaling up to large rivers. Drawing on examples from the Pacific Northwest and UK.	Colin Thorne
1:30-2:15	45	**Case Studies 2: Low-Tech Process Based Restoration (LTPBR)** Putting the LTPBR approach into practice when restoring streams to Stages 8 or 0 in a variety of stream-scapes and watershed contexts.	Damion Ciotti
2:15-2:30	15	**Questions for Colin and Damion**	
2:30–2:45	15	**Afternoon break and time for additional questions (if necessary)**	
2:45-3:30	45	**Geomorphic Basis for Design** Channel-floodplain reconnection based on Geomorphic Grade Line (GGL), Relative Elevation Models (REM), cut/fill balance, d/s grade control, and preserving relict features in upland and lowland contexts.	Paul Powers
3:30–3:45	15	**Questions for Paul**	
3:45 – 4:00	15	**Closure**	Jason / Dale

Instructors

Janine Castro RG	US Fish and Wildlife Service
Damion Ciotti	US Fish and Wildlife Service
Jared McKee PE	US Fish and Wildlife Service
Paul Powers	US Forest Service
Colin Thorne	University of Nottingham & Wolf Water Resources Inc.

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