



NATURAL CHANNELS 2018

Sustaining Connectivity: Exploring the Importance of Connectivity in Systems, Knowledge, Practice and Policy

Channel Design Principles

This workshop will provide an overview of the fundamentals of channel design. Information will be introduced in a classroom setting and further reinforced through the review of case studies and a tour of recently constructed sites. The In-class component will review design terminology, design process and design methods. Participants will be introduced to the concept of stream function pyramid, as well as better understand the right channel design for the right setting. Specific topics that will be covered include:

- Fundamental design parameters
- Key components of design drawings and design briefs
- What to consider to determine the correct design approach with specific review of when it's appropriate to consider natural channel versus geomorphically referenced engineered, urban versus rural, and constrained versus unconstrained
- Perspective on balancing the disciplines
- Opportunities to look for in a design

Following the in-class component, attendees will be taken on a tour of sites throughout Kitchener and Waterloo of implemented channel restoration projects. The combination of in-class and site tours will provide attendees with a toolbox of methods that can be used in natural channel design and in turn provide a better capacity of review design briefs and design drawings. The workshop will be taught by an interdisciplinary panel and tour sites will be presented by Project Lead Designers.

Timeline – Wednesday May 23, 2018

7:30 AM – 8:30 AM	Registration and refreshments
8:30 AM – 10:00 AM	In-class review of fundamentals of design
10:00 AM – 10:20 AM	Break
10:20 AM – 12:00 PM	Continuation of in-class component
12:00 PM – 1:00 PM	Lunch (and travel to Kitchener Waterloo area)
1:00 PM – 4:00 PM	Site tour
4:00 PM – 4:30 PM	Travel back to University of Guelph

Who Should Attend?

This course is intended for a junior to intermediate audience with specific focus on proponents, agency review staff, young practitioners, contractors, and regulators. The course is designed for an interdisciplinary group of practitioners from various backgrounds including planning, engineering, ecology and biology. The course will benefit parties who play a role, or are interested in pursuing a career,



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in the design and/or review of channel design. The course will also benefit those interested in further understanding the fundamental components of natural channel design and implementation.

Additional Information

Lunch will be provided. Attendees will have an opportunity to share dietary restrictions at a later date. The tour will commence rain or shine. Please bring appropriate apparel.

Course is contingent on sufficient registration.