Modeling River Temperatures & Modeling a River Revisited: To Refurbish or Remove a Large Dam?

Dr. Allen Curry, Professor, Canadian Rivers Institute, University of New Brunswick; www.canadianriversinstittue.ca

Dr. Allen Curry will present two of his research projects on modelling river temperatures and modelling to plan for a large dam restoration or its removal. His group is examining the hydrological control of temperature in river and especially at the riverscape and landscape scales. In our coldwater ecosystems, thermal refugia can be critical for animals in summer and winter. Dr. Curry's group is building models to assist landuse planners and resource managers, as they work to protect the integrity of our river ecosystems. NB Power has announced the end of life of Mactaquac Dam hydro electricity facility; It is a large dam (200' high) and reservoir (100km long). They have asked Dr. Curry's group to determine how either the replacement or removal of the dam will impact and how to mitigate the impacts on the river ecosystem. Dr. Curry will discuss the planning that has begun.