

NCWRA FORUM, WEBINAR & LUNCHEON

11:30 AM - 1:30 PM, Monday
September 24, 2018
 Jane S. McKimmon Center
 NC State University, Raleigh, NC

Dam Removal: Propagation of Sediment and a NC Case Study

Celso Castro-Bolinaga, Ph.D.,
 Assistant Professor, BAE, NCSU
 &
George Howard, CEO
 Restoration Systems

The occurrence of sediment pulses due to dam removal is expected to become more common in the near future. Over the last three decades, more than 1,000 dams have been removed in the U.S., of which nearly 60% have been removed within the past ten years. This presentation will examine lessons learned from previous removals and the challenges that remain when predicting the fate of the impounded sediment.

Dam Removal Case Study: Restoration Systems proposed removing the Milburnie Dam in Raleigh for compensatory mitigation in 2010, obtained an approved Mitigation Banking Instrument for the project on March 16, 2017, and removed the dam between Nov. 15, 2017 and Jan. 12, 2018. The project is the nation's first mitigation bank for stream impacts based on large-scale dam removal and will produce more than 40,000 stream restoration credits based on monitored improvements in four areas: T&E species habitat, Water Quality, Aquatic Habitat and Fish Passage. Migratory fish were allowed passage this spring to critical spawning grounds in the upper reaches of the Neuse not visited since 1760.

ONLINE REGISTRATION AVAILABLE!

Visit www.ncwra.org/events
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Continuing Education Credits: This forum will provide 1 PDH (professional development hour) for professional engineers and surveyors contingent upon board approval.

NCWRA FORUM & LUNCHEON REGISTRATION FORM FOR SEPT. 24, 2018

Make all checks payable to NCWRA - Send check and form to: Water Resources Research Institute,
 NCSU Box 7912, Raleigh, NC 27695-7912 or **FAX: (919) 515-7095**

LUNCHEON		WEBINAR
Early Rate (Postmarked by 09/10/18)	Late Rate (after 09/10/18)	Register by 09/21/18
<input type="radio"/> \$20 NCWRA Member*	<input type="radio"/> \$30 NCWRA Member*	<input type="radio"/> \$20 NCWRA Member*
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No changes to registration category after 09/17/18. Payments at the door will add \$5 to the late rate above (\$35 and \$45). *Enter your NCWRA member number below. **See ncwra.org/webinars for rules regarding group webinar viewing policy.		<input type="radio"/> \$100 Group Viewing**

NOTE: You must provide a valid email address below to register for the webinar. An access link will be emailed to you.

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October 2018

(topic & location TBD)

&

December 3, 2018,

Raleigh, NC

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WRRI

Water Resources Research Institute
of The University of North Carolina
North Carolina State University
Box 7912
Raleigh, NC 27695-7912



Forum, Webinar & Luncheon

Dam Removal: Propagation of Sediment and a NC Case Study



Milburnie Dam Removal, Nov. 2017

With Speakers:

Celso Castro-Bolinaga, Ph.D.,
Assistant Professor, BAE, NCSU

&

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