



How carbon fiber repaired and strengthened 90-year-old steel penstock to be featured at HydroVision 2017



June 22, 2017 – One of the strongest fiber reinforcement materials known to engineers was used to make repairs to a hydroelectric dam serving millions of customers in Central Arizona, and the details of this repair will be presented at this year's **HydroVision International 2017 conference in Denver**.

“Repair of Riveted Steel Penstock in Mormon Flat Dam with Carbon FRP,” will be presented by the pioneer of the technology of using FRP to repair and strengthen large structures and pipes, Dr. Mo Ehsani, Centennial Professor Emeritus of Civil Engineering at the University of Arizona. Ehsani is also currently President and CEO of QuakeWrap, Inc., the developer of innovative fiber reinforced polymer (FRP) repair solutions used for infrastructure renewal.

The penstock repair using FRP presentation is scheduled as part of Hydrovision's “Systems and Technology: What's New? What Works?” technical session, which features a group of industry specialists providing experience and lessons learned from a variety of applications, from tunnels and penstocks, to cloud applications.

In addition to strengthening and sealing tunnels and penstocks against further corrosion damage, carbon FRP also has the extraordinary capability of converting standard, older pipes into high pressure pipes. By lining the inside with carbon FRP, Ehsani's solutions extend the expected service life of pipes and adds pressure ratings that allow them to generate more electricity by increasing the volume of water that can flow through them. An example of this unique pipe repair – a 1.1-mile pipe repaired in Costa Rica by Ehsani's company -- will also be highlighted.

AT A GLANCE: PENSTOCK REPAIR USING FRP AT HYDROVISION 2017

QuakeWrap's Professor Mo Ehsani, presenting “Repair of Riveted Steel Penstock in Mormon Flat Dam with Carbon FRP” at Hydrovision International 2017. The conference runs June 27 -- 30 in Denver, CO.

When and where

Technical session, “Systems and Technology: What's New? What Works?” on Thursday, June 29 at 11 a.m. in Room 203

Photos and captions available upon request: Steve Delgado, QuakeWrap, Inc., 520-791-7000 ext. 129 or sdelgado@quakewrap.com