

**2013 Water Reuse Conference
May 15 and 16 - Boise, Idaho**

Name: Ron Crites
Title: Natural systems Practice Leader
Organization: Brown and Caldwell
Address: 1590 Drew Ave., Suite 210
Davis, CA 95618
Phone: 530-204-5204
Email address:rcrites@brwncald.com

Session Title: Natural Systems Technologies: Old and New

Abstract:

Natural treatment systems are those that are primarily passive and rely on soil and biological processes for treatment. Land treatment is one of the oldest of technologies and is now used to remove nutrients and in some cases constituents of emerging concern. Ponds, intermittent sand filters, vertical flow wetlands and soil aquifer treatment all have continuing application in natural systems. Examples of new applications include treatment of de-icing fluids at airports, phosphorus removal through soil and media filters, and nitrification of landfill leachates.

Professional Background:

Ron Crites, Brown and Caldwell's Natural Systems Service Leader, has 43 years of experience in wastewater treatment and water reuse. He is a Stanford graduate and the author of 4 textbooks. Ron was the recipient of the 2009 WEF Camp Medal for Applied Research in recognition of his invaluable contributions in the areas of applied research, planning and designs employing green and sustainable technologies.