Identifying and Distinguishing Stress Corrosion Cracking from Dezincification in Potable and Non-Potable Water Brass Components

Abstract: This presentation discusses methods of identifying and distinguishing the root cause of corrosion damage in potable and non-potable water brass components. Stress corrosion cracking and dezincification are the two most common mechanisms of corrosion or corrosion assisted degradation mechanisms for brass in water. This presentation will highlight methods for characterizing and distinguishing between the two mechanisms, specifically when both are present. Expected observations during failure analysis and common pitfalls will be discussed using examples from previous failure investigations.

Biography: Dr. Eric Weishaupt is the Founder and a Principal at Bruch Engineering with over twenty years of experience conducting complex failure investigations. Dr. Weishaupt specializes in the study of mechanical behavior of materials in relation to structure and properties and the corrosion performance of copper alloys.