



#### EDUCATION

B.S., Engineering, Construction  
Western Michigan University, 2010

#### REGISTRATIONS

Michigan

#### CERTIFICATIONS

National Association of Corrosion  
Engineers, Cathodic Protection  
Technologist

#### PUBLICATIONS

Berke, N., Ade, K., Bucher, B., and  
DeNicola, P. (2015) "Protective Surface  
Treatments for New and Existing Concrete  
to Mitigate Corrosion," Department of  
Defense Corrosion Conference 2015,  
NACE International, Houston, TX  
Berke, N., Bucher, B., Ade, K. and  
DeNicola, P., (2016) "Organofunctional  
Silane Inhibitor Surface Treatment of  
Concrete for Corrosion," Transportation  
Research Board Meeting, Paper Number  
16-4030, Transportation Research Board,  
Washington, DC.

Kristin is a construction engineer experienced with bridge, tunnel, piers and wharfs, building, stadium, and parking structure projects. She provides site inspections, design, and construction administration for new and existing structures. Her project work includes service life analysis, obtaining Department of Transportation approvals, creating detailed design documents, and corrosion testing.

Kristin's areas of expertise include cathodic protection services, materials engineering, specifications development, durability assessments, construction materials development, and optimization, troubleshooting, and forensic investigations.

#### PROJECT EXPERIENCE

##### **POL Pier Repair, Diego Garcia, B.I.O.T.**

Conducted a site investigation to obtain information on the current condition of the pier and the cathodic protection that was in place at the time. From the information obtained, a new cathodic protection system was designed and specified for the steel piles and upon installation commissioning measurements were taken.

##### **NAVFAC Quaywall Cathodic Protection, Hawaii**

Developed design documents for cathodic protection including detailed drawings, specifications and "basis of design" for the precast concrete piles; answered client queries; completed commissioning measurements

##### **Trident and Poseidon Wharf, Cape Canaveral, FL**

Conducted a site investigation and laboratory testing to find the residual life of the different elements of the wharfs so that recommendation for service life and repairs could be made. Based on recommendations a cathodic protection system was designed for the prestressed concrete piles of both wharfs.

##### **P-652 and P-661, Guam**

Completed an investigation to determine the the amount service life left in the existing impressed current cathodic protection system It was determined that a new system was required to meet the service life requirements of the client. A redesign of the existing cathodic protection system was completed included all construction documentation, assistance during contractor bid, and review of contractor submittals during construction.

##### **P-519, Guam**

Prepare design-build bid documentation to ensure that wining contractor will properly design and install cathodic protection as part of a larger pier rehabilitation.