

## 2019 Tran-SET Seminar at Texas A&M University

### August 28, 2019 / Center for Infrastructure Renewal

#### Galvanizing for Corrosion Protection of Rebar in Concrete

9:00 AM - 9:50 AM

*Dr Stephen R Yeomans, University of New South Wales, Canberra, Australia*

This seminar is a general overview of galvanized rebar designed to educate design professionals about the performance characteristics for both HDG (Hot-Dip Galvanized Coatings) and CGR (Continuous Galvanized Coatings). The behavior of zinc in concrete with principal applications in large scale production and precasting for road and bridge infrastructure will also be discussed in this session.

#### The Advantages of Galvanized Reinforcement toward Achieving 100 Years of Service Life

10:00 AM - 10:50 PM

*Sc.D. Frank E. Goodwin, IZA (International Zinc Association)*

This seminar examines the rebar component of the reinforced structure and the effect that different rebar types have on the economic and environmental performance of a reinforced concrete structure over its life cycle. Using life cycle cost analysis (LCCA) and life cycle assessment (LCA), a variety of rebar coating types and climate zones are compared during this seminar. As part of the efforts toward achieving bridges with a service life of 100(+) years, the advantages of galvanized reinforcement obtained from research will be discussed in this session.

#### The Future of Galvanized Rebar and Continuous Galvanized Product Innovations

11:00 AM - 11:30 AM

*Mike Stroia, AZZ GalvaBar*

This seminar is a look forward at existing dual coat technologies that can lower the total cost of ownership for the life of structures while providing a 100+ year life. Continuous galvanized rebar can be used as a substrate for epoxy coatings or can be used as an additional barrier coating for ChromX steels. These technologies can provide the life of stainless steel rebar at a lower cost to owners.

#### Comprehensive Corrosion Performance Study for Materials used for Reinforced Concrete (RC) System and Elements

11:30 AM - 12:00 PM

*Homero Castaneda Lopez, Ph.D., National Corrosion and Materials Reliability Laboratory (NCMRL) Texas A&M University College of Engineering*

This seminar covers a quantitative characterization of the effectiveness of the galvanized steel rebar, and the corrosion performance for long-lasting durability of the reinforcing steel in diverse environments with different rebar materials.

#### Corrosion Lab Tour (CIR Attendees)

1:00 PM - 1:30 PM

#### Infrastructure Corrosion Concept Discussion (CIR Attendees)

1:30 PM - 2:00 PM

NCMRL will explain the infrastructure corrosion concept that bring two or more organizations together to collaborate on new research in various industries seeking to mitigate corrosion and preserve reliability for infrastructure. NCMRL will present the overall structure and scope of the project.



**[Register for the seminar online today by clicking here!](#)**



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