

Free Event!
Registration Required
(Spaces Limited)
PDH to be confirmed

The ICE invites you to a talk on:

*“The Use of ISO 9223 as a Means of
Understanding Material Performance
And Material Durability*

Speakers:

Gina Crevello: Principal, Echem Consultants

Paul Noyce: Technical Director, Echem Consultants

ABSTRACT:

Understanding the impact of engineering material degradation, rates of deterioration, and how this occurs over time are governed by the environment in which structures are built or the loads to which they are subjected. Forecasting remaining service life and planning for durability of an existing structure is critical, particularly when the subject structure is advancing in age, and is a key structure in a major urban center. Additionally, understanding the consequence of material interactions which occur as the materials begin to degrade can guide future repair choices. Rehabilitation guidelines and service life extension options can be better established once the team understands the rate at which a structure is degrading.

The presentation will discuss utilizing ISO 9223, establishing a corrosivity index, and how this approach can apply to material degradation. The talk will illustrate this approach not just in relation to atmospheric metals, but in relation to reinforced concrete, and steel framed structures. In addition to understanding environment, information about performance from the site testing programs are used in durability and service life models. These models allow the team to understand how long the structure or components will perform and when a structure may encounter critical failures. With advance enough information, the team can determine the use of proactive repairs, mitigate issues prior to failures, and make more informed material selection choices going forward.

Case studies will include examples of the investigative approach being applied to the structure or components within tunnels, facades and bridges in both existing and new structures.

Date and Time

Wednesday 5th April 2017
6:00-8:00pm

Venue

WSP | Parsons Brinckerhoff
One Penn Plaza, NY 10119

Register by **Eventbrite**
<https://tinyurl.com/ma7runo>
Password: iceiso9223

For further information contact David Smith:
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