



INSTITUTE OF CORROSION (ICORR) ABERDEEN BRANCH

Technical Meeting

Tuesday 30th March 2021, Start Time: 18.00 (GMT).

This Webinar Event is free and open to all

Topic: Galvanic Corrosion / CP Control of Reinforced Concrete; Lessons learnt from 20 years of Site Trials.



- **Speaker: Dr George Sergi**, Technical Director at Vector Corrosion Technologies, West Midlands, England, United Kingdom, B64 5HX.

For registration: Please contact amirattarchi@gmail.com

Giving your Full Name and **Stating - ICorr Member or Non-Member**

Event Programme:

- 17:50 – 18:00 Webinar Login
- 18:00 – 18:10 Introductions ICorr
- 18:10 – 19:00 Technical Presentations
- 19:00 – 19:20 Q&A Session
- 19:20 – 19:30 Closing Remarks ICorr.



ABOUT THE TALK:

Sacrificial anodes have been used in reinforced concrete structures for up to 20 years. These prototype anodes, designed for a 10-year life, have continued to deliver a reduced but significant current complying with currently accepted criteria. The overall reduction in current has been found to be adequately described by an **'anode aging' model** where the current delivered is halved over constant time intervals, enabling determination of an 'aging-factor'.

This presentation will review the performance of the oldest set of anodes used in enhanced patch repairs where anodes were placed at the periphery of the patch at around 600 mm spacing on centre. It will demonstrate, from results of current output and steel de-polarisation levels that the repair system is still functioning adequately.

ABOUT THE SPEAKER:

Dr George Sergi is Technical Director at Vector Corrosion Technologies heading the Research and Development Department which develops products for durability of concrete and steel reinforcement protection and offers corrosion mitigation techniques for the Civil Engineering and Construction Industries. He is author of several international patents and has developed noble products for corrosion protection of steel reinforcement.



Dr Sergi holds a PhD in Corrosion of Steel in Concrete and was formerly Technical Director and Head of Corrosion at the Building Research Establishment, UK and Technical Director at Aston Material Services Ltd. He had originally spent 20 years researching the fundamentals of concrete durability and corrosion as applied to steel reinforced concrete at Aston University.

He is Editor of the Construction and Building Materials Journal. He is a member of Cathodic Protection Committee GEL/603 assisting in the editing and publication of BSI and EN Standards.

ABOUT THE COMPANY:

Vector Corrosion Technologies is a leading full-service supplier of corrosion mitigation products and services for reinforced concrete and masonry structures including bridges, parking garages, buildings, marine structures and industrial facilities. Vector currently has offices in Canada, the UK and the United States through which it services its clients worldwide.

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