

EUROCORR 2018

SEPTEMBER 9-13, 2018
ICE, KRAKOW, POLAND



Announcement of Workshop on “The perspectives on sustainable building and products - challenges and opportunities. Anticorrosion in sustainable building industry.”

GENERAL: The rapidly developing world and economic intensification have caused a massive surge in environmental pollution, energy consumption and carbon emission. Construction plays a significant role in causing ecological problems. Specific attention has to be paid to developing sustainable and green solutions in the design of buildings, structures and their protective systems. Architecture should be environmental friendly and resource-efficient throughout the structures' service life, from design to construction, maintenance, repair and finally recycling or disposal stage.

Green building technology refers to many performance functions like anti-corrosion, strength and durability among them. Corrosion is a constant and indiscriminate enemy of building elements. What is a role of anticorrosion in a sustainable building?

AIM: The aim of session is to cultivate interaction between researchers, producers, designers and practicing professionals involved in sustainability including corrosion problems and anticorrosion protection, finally to find sustainable roadmap and possible solutions that meet requirements of sustainable building and green certification.

CONTENT: The mission for a construction sector is to create sustainable buildings for everyone, everywhere, enabling people to thrive both today and tomorrow. Sustainable construction is a wide continuously evolving concept. This has resulted in several iterations of “green” building from early notions of durability, flexibility, natural building and returning to self-sufficiency, to the currently dominant approach of eco-efficiency. The new perspectives on sustainable building are to be found, understood and used.

Green building certification in Poland and worldwide is an important information on green performance? What are the challenges and opportunities? Is “Level(s) certification” – the new EU wide approach to sustainable building performance reporting a right answer to the market need?

Sustainable construction standards – a necessary language of engineers? CEN/TC35 is responsible for the development of horizontal standardized methods for the assessment of the sustainability aspects of new and existing construction works (buildings and civil engineering works), including horizontal core rules for the development of environmental product declaration of construction products (EPD). CEN/TC350 is also entrusted with an advisory function to CEN TCs to ensure the effective implementation of horizontal core rules regarding the development a specific product category rules based on en 15804.

Environmental declarations of construction- necessary information of green products? ECO Platform is an International Non-Profit Association established by European EPD Program Operators registering ECO EPD (Environmental Product Declarations), European Trade Associations in the construction sector and LCA Practitioners. The objective of ECO Platform is the development of verified environmental information of construction products, in particular type III declarations called EPD. The added value of EPD under the ECO Platform framework is the possibility to use these declarations in all European but also international markets. Manufacturers providing ECO Platform EPDs to their customers will be able to optimize their investments avoiding additional fees, work repetition and reducing communication efforts. ECO Platform EPDs are supported by the most important program operators in Europe and their quality and international acceptance is guaranteed.

Traditional anti-corrosion methods have proved messy, costly and can be hazardous to workers and the environment what are the challenges and opportunities? What are the new direction in a research and technology development?

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TARGET GROUP:

- Organizations that promote sustainability internationally and at a local level, providing trainings and certifications;
- Manufacturers of anticorrosion systems interested in expanding the company's business by learning how they can bring sustainable value to own development;
- Designers;
- Contractors;
- Persons looking for an opportunity to develop their skills, wishing to acquire the rights of an independent sustainable building consultant (when any organizations confirm a training course which will give an overview of sustainability assessment methods).

TO BE DISCUSSED DURING THE WORKSHOP:

- The new perspectives on sustainable building and green products;
- The problem of designing and maintaining anti-corrosion systems in the strategy of sustainable development and environmental protection;
- Ecological education in the steel construction industry;
- European and international standards focusing on environmentally sustainable constructions and protective systems;
- Certification systems used to assess the sustainable design, construction, buildings and products throughout their life cycle;
- LCA (Life cycle assessment) of products: purpose and scope;
- Environmental declarations for anticorrosive systems as construction products;
- From the local perspective, we believe it is essential to initiate discussion, especially at a time when painting systems for the protection of steel substrate became the construction products in accordance to the Polish Regulation of the Minister of Infrastructure from Nov17, 2016.

FORM: International lectures which will give an overview of sustainability assessment methods and afterward discussion upon announced problems.

WORKSHOPS MATERIALS: Lectures notes distributed during the workshop.

DURATION: 2-3 hours.

WORKSHOP CHAIRMEN: PhD Eng. Michał Piasecki, The Building Research Institute, Warsaw