

K. Kreislova, D. Knotkova, P. Fialova
SVUOM Ltd., Czech Republic



3rd World Summit on

Climate Change and Global Warming

February 27-28, 2019 | Prague, Czech Republic

THE EFFECT OF POLLUTION ONTO STRUCTURAL MATERIALS' DEGRADATION

The air pollution effected the degradation of structural materials due to corrosion of metals and deterioration of paints. In the Czech Republic the SO₂ pollution decreased during two decades (1195-2005) from 150 µg.m⁻³ to 15 µg.m⁻³. It results into decreasing of corrosion rate and increasing durability of materials. On the other hand during last decade the extreme climatic effect as long-term periods with high temperature and ozone concentration may significantly degrade organic paint coatings. All these changes need to be included into service life prediction models.

Biography

Katerina Kreislova was graduated on University of Chemistry and Technology Prague and completed her PhD from Czech Technical University in Prague. She is the director of SVUOM Ltd., a R&D organisation focus onto corrosion and material protection. She has published more than 35 papers in reputed journals. She is a convenor of ISO/TC 156/WG 4 for atmospheric corrosivity classification.

kreislova@svuom.cz