

Outline of the programme for the remaining part of the workshop and overview of standardisation in atmospheric corrosion

ISO Standards concerning “Atmospheric corrosion”

- General
- Classification of corrosivity
- Accelerated testing

- Primarily within
 - ISO/TC156 Corrosion of metals and alloys
 - ISO TC 35 Paints and varnishes

ISO TC 156 Corrosion of metals and alloys

WG 1 Terminology

WG 2 Stress corrosion cracking

WG 4 Atmospheric corrosion testing and classification of corrosivity of atmosphere

WG 5 Intergranular corrosion

WG 6 General principles for testing and data interpretation

WG 7 Accelerated corrosion tests

WG 8 Coordination

WG 9 Corrosion testing of materials for nuclear power generation

WG 10 Cathodic protection of buried and immersed metallic structures

WG 11 Electrochemical test methods

WG 12 Corrosion, scale and fouling inhibition

WG 13 High temperature corrosion

General

- ISO 8044 Corrosion of metals and alloys – Basic terms and definitions
- ISO 8565 Metals and alloys – Atmospheric corrosion testing – General requirements
- ISO 17752 Corrosion of metals and alloys – Procedure to determine runoff rates of metals from materials as a result of atmospheric corrosion (CD)
- ISO 7441 Corrosion of metals and alloys – Determination of bimetallic corrosion in outdoor exposure corrosion tests
- ISO 8407 Corrosion of metals and alloys – Removal of corrosion products from corrosion test specimens
- ISO 7384 Corrosion test in artificial atmosphere – General requirement

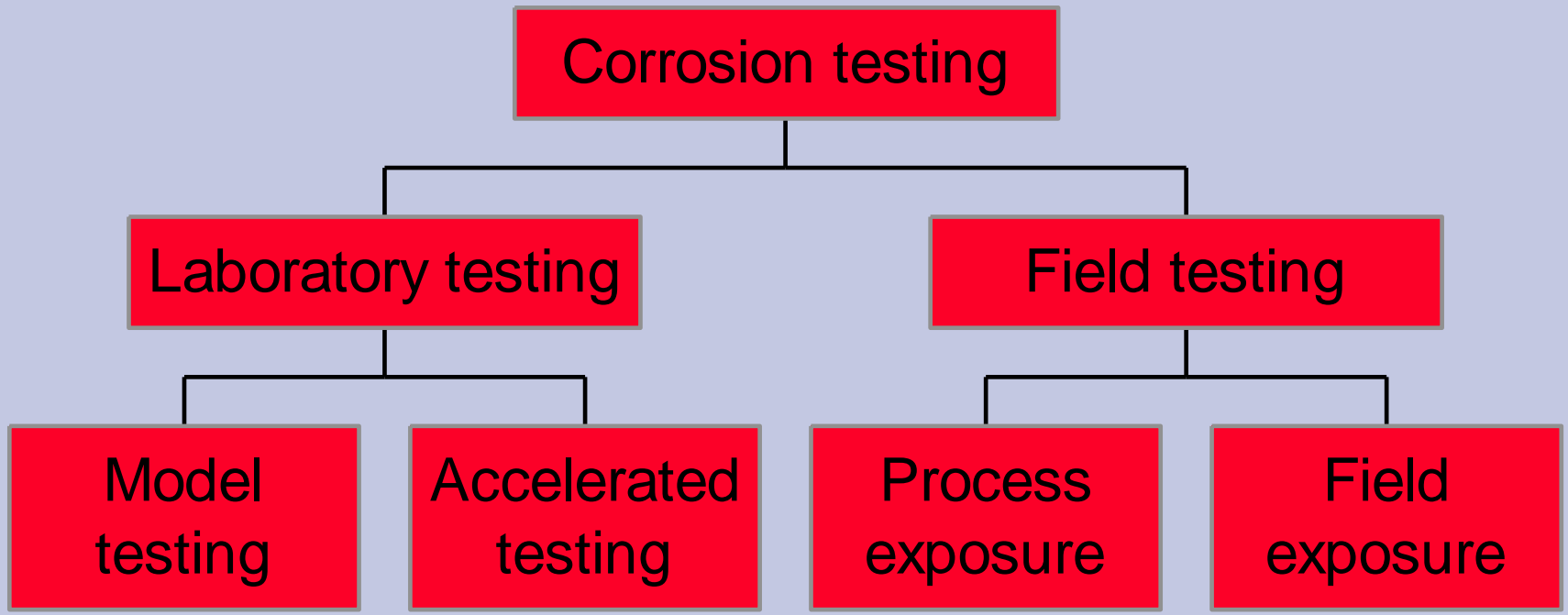
Classification of corrosivity, outdoor

- ISO 9223 Corrosion of metals and alloys – Corrosivity of atmospheres – Classification
- ISO 9224 Corrosion of metals and alloys – Corrosivity of atmospheres – Guiding values for the corrosivity categories
- ISO 9225 Corrosion of metals and alloys – Corrosivity of atmospheres – Measurement of pollution
- ISO 9226 Corrosion of metals and alloys – Corrosivity of atmospheres – Determination of corrosion rate of standard specimens for the evaluation of corrosivity
- ISO 11303 Corrosion of metals and alloys – Specification of protection methods on the basis of atmospheric corrosivity classification

Classification of corrosivity, indoor

- ISO 11844-1 Corrosion of metals and alloys – Classification of low corrosivity in indoor atmospheres – Part 1: Determination and estimation of indoor corrosivity
- ISO 11844-2 Corrosion of metals and alloys – Classification of low corrosivity in indoor atmospheres – Part 2: Determination of corrosion attack in indoor atmospheres
- ISO 11844-3 Corrosion of metals and alloys – Classification of low corrosivity in indoor atmospheres – Part 3: Characterization and measurement of environmental parameters affecting indoor corrosivity

Classification of methods for corrosion testing



Accelerated testing

- ISO 9227 Corrosion tests in artificial atmospheres – Salt spray tests
- ISO 10062 Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es)
- ISO 11474 Corrosion of metals and alloys – Corrosion tests in artificial atmosphere – Accelerated outdoor test by intermittent spraying of a salt solution (Scab test)
- ISO 14993 Corrosion of metals and alloys – Accelerated corrosion testing involving cyclic exposure to salt mist, dry and wet conditions

Accelerated testing, contd.

- ISO 16151 Accelerated corrosion testing involving cyclic exposure to simulated acid rain, "dry" and "wet" conditions
- ISO 16701 Corrosion of metals and alloys – Corrosion in artificial atmosphere – Accelerated corrosion test involving exposure under controlled conditions of humidity cycling and intermittent spraying of salt solution
- ISO 21207 Corrosion tests in artificial atmospheres – Accelerated corrosion test involving alternative exposure for corrosion promoting gases, neutral salt spray and drying