

CEOCOR from June, 4th 2015 – ORGANISATION and ACTIVITIES

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COMMISSION 1

Internal Corrosion & Water Systems

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Commission 1 deals with the interactions between pipelines, reservoirs and waste water treatment plants and transported water, covering both the problems of corrosion of the materials involved and the change in water quality caused by the reaction products. These interactions are complex, ranging from electro-chemical corrosion of metals through disinfectant damage to plastics to changes in cement coatings. The Commission studies problems in existing plants, repair and measurement processes, as well as issues associated with modern material systems.

ACTIVE WORKING GROUPS

Working Group A: Asset Integrity Management for construction and rehabilitation strategies concerning water supply systems

Convener: Tom Levy – Luxembourg

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Definition of a “technical asset management strategy” for supply systems under consideration of “risk management” and “corrosion” in the water sector. Influence factors of pipe materials and hygienic aspects for technical and economic rehabilitation strategies.

COMMISSION 1 – WORKING GROUPS – PROGRESS OF ACTIVITIES

Working Group B: Influencing of water quality by water tanks

Conveners:

Peter Frenz – DVGW – Germany

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Adrian Rieder – Wasserversorgung Zürich – Switzerland

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The paper for renovation of water tanks under hygienic aspects is in cooperation with DVGW and SVGW in the final phase.

Working Group C: Strategies for reasonable and successful use of chemical disinfectants in drinking water systems

Conveners: **Wolfgang Werner – Germany**

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Jean Baron – Eaudeparis – France

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During the exchanges of experience it had been realized that in a number of EU Member States the obligations of the drinking water directive concerning the hygienic requirements of materials and products used in drinking water distribution networks and drinking water installations have not been implemented in national regulations and standards. Possibilities of quality control both for the materials and products and the drinking water under these conditions has been discussed.

Working Group D: Corrosion and Corrosion protection in sewer systems

Convener: *Dieter Weismann – Geco-Dialog – Germany*

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“Microbial induced corrosion in sewage systems” is the central theme for future work of this working group. Discussion about direct interaction by microorganisms and indirect interaction by formation of chemicals AND a mix of both.

Corrosion in different pipe - and coating materials like iron, copper, aluminium, stainless steel, plastic and concrete. Discussion about corrosion rate by sulphate-reducing bacteria.

COMMISSION 2

External Corrosion & Cathodic Protection

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Secretary: Lars Vendelbo Nielsen – Metricorr – Denmark

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Commission 2 deals with the interaction between pipelines and the electrolytes surrounding them. It studies materials, soil composition and coatings and the effects of electrical interferences, AC and DC stray currents and cathodic protection. In addition to innovative protection concepts, one of its key activities is the monitoring of corrosion protection measures. The participation to National & International Technical Committees and the development of pre-normative guidelines within Ceocor in specific subjects are among the main activities of its members.

ACTIVE WORKING GROUPS (C-D-E-F-G-H)

Working Group C : "CERTIFICATION"

Convener: Peter Frenz – DVGW – Germany:

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The present development in the transformation of EN 15257 to an ISO standard was discussed. They are relevant for the activity of ISO TC 156 WG10. During the evaluation of the ISO standard the activity of the Working Group will be focused on the elaboration of this document.

Working Group D "Off POTENTIAL"

Convener:

Arnaud Smeets – CATHODICA SPRL – Belgium:

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The work is in the last stages and is intended to be finished in Ljubljana.

Working Group E : "PERMANENT REFERENCE ELECTRODES"

Convener:

Brian Wyatt – CORROSION CONTROL – United Kingdom: brianwyatt@controlcorrosion.co.uk

The work was initiated due to importance of stable and durable reference electrodes. They are key for both working group A (Remote Monitoring) and D (Off Potential). The goal is to collect data on the behaviour and stability of the permanent reference electrodes, elaborate procedures for testing and develop a pre-Standard for reference electrodes.

Working Group F : "STRAY CURRENT CORROSION"

Convener:

Gerald Haynes – South Africa: gjhaynes@icon.co.za

There is significant discrepancy with respect to the mechanism of stray current corrosion, its implications on the durability of the affected structures, the methodology of assessment and mitigation. The implications on durability of interference conditions and the relevant parameters are being discussed.

The work will be initiated at the next CEOCOR meeting in Ljubljana. A panel discussion will be held with the operators of various countries explaining their assessment and mitigation procedures in order to form a joint basis for discussion.

Working Group G : "CASING CONTROL AND MONITORING"

Convener:

Ricardo Gutiérrez Machín CLH, S.A., Spain: rgutierrezm@clh.es

The work was initiated due to importance of managing the annulus of casings with respect to cathodic protection and control. The various products and measurement techniques are discussed and summarized.

The work was initiated at the November 2015 Meeting in Brussels and will continue in Ljubljana.

Working Group H : "PROTECTION CRITERIA"

Convener:

Markus Büchler – SGK – Switzerland: markus.buechler@sgk.ch

This is a joint Working Group between CEOCOR and EUROCORR. The work was initiated due to importance of addressing the requirements with respect to cathodic protection criteria. There is wide variety of methodologies with respect to the assessment of effectiveness of CP. It is relevant generate a common understanding of the relevant mechanisms and to agree on minimal and mandatory requirements. The outcome of this discussion is intended to form the basis for a future revision of EN 12954 and ISO 15589-1. Additionally the results are relevant for the revision of the standards EN 50162 for stray current interference.

The work will initiate in Ljubljana and continue at the EUROCORR conference in Montpellier (France).

COMMISSION 2 – WORKING GROUPS – PROGRESS OF ACTIVITIES

Working Group A : “REMOTE MONITORING”

Convener: Maros Melis – SPP Distribucia – Slovakia:

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The document: “Remote Monitoring and Control of Cathodic Protection” has been released in Jan. 2015 and will be available on the Web Site of Ceocor.

Working Group B : “COUPONS”

Convener: Lars Vendelbo Nielsen – Metricorr – Denmark

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The document on “Application of Coupons and Probes for Cathodic Protection Monitoring Purposes” has been released in Jan. 2015 and will be available on the Web Site of Ceocor.