

EFC WP WORK PROGRAMME PROFORMA (SEPTEMBER 2011 - AUGUST 2014)

Working Party No. 1: Corrosion and Scale Inhibition

MAIN OBJECTIVES FOR THE NEXT THREE YEARS		
<p>Focus on industrially interesting topics in workshops, seminars, courses, WP meetings with defined main themes, invited presentations specifically from related industries; close cooperation with initiatives in other WPs.</p> <ul style="list-style-type: none"> - Monitoring systems for performance of corrosion and scale inhibitors in important fields of application (oil & gas industry, cooling water, hydraulic fluids, metal treatment fluids) - Influencing the standardisation of inhibitor testing by cooperation with active groups in different organisations (e.g. ASTM, NACE, DIN, CEN, ISO) - critical survey on present day knowledge in corrosion and scale inhibition: defining new fields for future research, fostering research networks 		
DETAILED MEASURES BY WHICH THE ABOVE OBJECTIVES WILL BE ACHIEVED (Please complete, as appropriate, using continuation pages if necessary)		
No.	Type of Activity	Target Date(s)
1	<u>WP Meetings</u> (state expected attendance levels & business/technical split) 1 WP meeting regularly in connection with WP1 session at EUROCORR (ca. 20-25 experts)	2011-2014
1	<u>Sessions at EUROCORR</u> (identify special topics): Predictive modeling inhibitor structure - efficiency relationships Non-toxic corrosion inhibitors (review - EFC Green Book) Corrosion inhibitors from natural products - how much sense makes it? Corrosion inhibitors for stainless steel in high saline media (crevice, pitting, SSC) Corrosion inhibition and drag reduction - smart corrosion protection in flowing media Corrosion inhibition in the oil & gas industry and in CCS technology Corrosion inhibition in functional fluids (potable waters, cooling waters, hydraulic fluids, metal machining fluids, etc.), Corrosion inhibition in oil and gas production and transportation (cooperation with WP13) Antiscalants VCI	2011-2014
2	<u>Cooperation with other WPs e.g. Joint Sessions at EUROCORR</u> (give details): WP6 , Surface Science and Mechanisms of Corrosion Protection‘ (Mechanisms in inhibition; theory and practical experience with predictive models of inhibitor efficiencies) WP 10 ,MIC‘ (Inhibiting micro-organisms) WP 11 ,Corrosion of Reinforcement in Concrete‘ (Critical survey on inhibitor efficiencies in reinforced concrete) WP 13 ,Oil&Gas‘ (Status of online performance monitoring of corrosion inhibitors in oil and gas industry) WP 14 ,Coatings‘ (special features of the use of ‘real’ corrosion inhibition in coatings) WP 15 ,Corrosion in Refinery Industry‘ (Corrosion inhibitors in refinery industry, e.g. naphthenic acids)	2011-2014
3	<u>Maintenance of a WP page on the new www.EFCWEB.org website:</u> WP1 will use the EFC website for communication and exchange of information	2011-2014
4	<u>Contributions to the EFC Newsletter:</u> Report on technical meetings	2011-2014
5	<u>Organisation of EFC Workshops/Courses/Meetings, etc</u> (give details): International Course on Corrosion Inhibition (Basics, application, legal aspects) (2013)	2011-2014

6	<u>Organisation of Collaborative Research or Testing Programmes</u> (give details) No project planned so far	2011-2014
7	<u>E.U. Projects formulated in your Working Parties</u> (give details) No project planned so far	2011-2014
8	<u>Participation in the Development of Standards</u> (give details)	2011-2014
9	<u>Preparation of Publications for the EFC Series of Books</u> (give details) Non-toxic corrosion inhibitors (review on status of the art)	2013
10	<u>Other(s)</u> (please specify)	

Brief Summary of Activity during the last year

EUROCORR 2010 Moscow:

Technical Session: 2.5 days WP1 session with 3 keynote lectures,
8 cancellations: 2 x RUS, 1x Egypt, 1 x France, 3 x India, 1 x Iran
attendance during sessions: 24-50,

joint session with WP13 and NACE (Corrosion Mechanisms and Corrosion Inhibition in Oil & Gas Production)

Business Meeting:

Discussion: Corrosion inhibition - Where is research going today

(New inhibitors: Do we need them? Synergisms: Do we understand them? Inhibitor combinations: Innovation or Alchemy? Methodology of testing: Do we use the right ones? Surface analysis: Which question answers which method? Theoretical approaches: How far did we come? Industrial applications: Where are improvements needed?)

Very lively discussion; will be continued on business meeting at EUROCORR 2011.