

# EFC WP/TG WORK PROGRAMME PROFORMA (SEPTEMBER 2007 - AUGUST 2010)

## Working Party No. 1 : Corrosion and Scale Inhibition

<b>MAIN OBJECTIVES FOR THE NEXT THREE YEARS</b>		
<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"> <li>- Monitoring systems for performance of corrosion and scale inhibitors in important fields of application (oil &amp; gas industry, cooling water, hydraulic fluids, metal treatment fluids)</li> <li>- Influencing the standardisation of inhibitor testing by cooperation with active groups in different organisations (e.g. ASTM, NACE, DIN, CEN, ISO)</li> <li>- critical survey on present day knowledge in corrosion and scale inhibition: defining new fields for future research, fostering research networks</li> </ul>		
<b>DETAILED MEASURES BY WHICH THE ABOVE OBJECTIVES WILL BE ACHIEVED</b>		
<b>No.</b>	<b>Type of Activity</b>	<b>Target Date(s)</b>
1	<p><u>WP Meetings</u> (state expected attendance levels &amp; business/technical split)</p> <p>1 – 2 WP meetings per year (1 meeting regularly in connection with EUROCORR (ca. 20 experts, mainly business), 1 meeting (1 day) with focussed topic presented by invited speakers (40-50 attendees, mainly technical)</p>	2007-2010
1	<p><u>Sessions at EUROCORR</u> (identify special topics):</p> <ul style="list-style-type: none"> <li>- Corrosion inhibition in functional fluids (potable waters, cooling waters, hydraulic fluids, metal machining fluids, etc.),</li> <li>- Corrosion inhibition in oil and gas production and transportation (cooperation with WP13)</li> <li>- Standardisation in inhibitor testing</li> </ul>	2007-2010
2	<p><u>Cooperation with other WPs e.g. Joint Sessions at EUROCORR :</u></p> <p>WP6 ,Surface Science and Mechanisms of Corrosion Protection‘ (Mechanisms in inhibition; theory and practical experience with predictive models of inhibitor efficiencies)</p> <p>WP 10 ,MIC‘ (Inhibiting microorganisms)</p> <p>WP 11 ,Corrosion of Reinforcement in Concrete‘ (Critical survey on inhibitor efficiencies in reinforced concrete)</p> <p>WP 13 ,Oil&amp;Gas‘ (Status of online performance monitoring of corrosion inhibitors in oil and gas industry)</p> <p>WP 14 ,Coatings‘ (special features of the use of ‘real’ corrosion inhibition in coatings)</p> <p>WP 15 ,Corrosion in Refinery Industry‘ ( Corrosion inhibitors in refinery industry)</p>	2007-2010
3	<p><u>Maintenance of a WP page on new www.EFCWEB.org website:</u></p> <p>WP 1 will use the EFC website for communication and exchange of information</p>	2007-2010
4	<p><u>Contributions to the EFC Newsletter:</u></p> <p>Report on technical meetings</p>	2007-2010
5	<p><u>Organisation of EFC Workshops/Courses/Meetings, etc</u> (give details):</p> <p>Organisation of EFC Workshop on “Evaluation and Monitoring of Functional Fluid’s Performance - Hydraulic and Metal Working Fluids”</p>	late 2008

6	<u>Organisation of Collaborative Research or Testing Programmes</u> (give details) Cooperation with NACE TG 361 in the effort to harmonize the EFC and NACE documents on cooling water (EFC 40, NACE Publ. 11106 and 11206)	2007-2009
7	<u>Participation in EU-supported Projects</u> (give details) No project planned so far	
8	<u>Participation in the Development of Standards</u> (give details) Participation in Round Robin Tests related to flow influenced corrosion: ASTM G184 (2005), "Standard Practice for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors using the Rotating Cage"	2008
9	<u>Preparation of Publications for the EFC Series of Books</u> (give details) Monitoring of inhibitor efficiency in functional fluids (hydraulic fluids, metal machining fluids)	2008
10	<u>Other(s)</u> (please specify)	

Brief Summary of Activity during the last year  
see WP1-Report at the STAC Meeting, 2006 in Maastricht



## Working Group 1 Corrosion and Scale Inhibition

### Activity Report 2003 - 2007

STAC Meeting, 24th September 2006  
MECC Congress Centre, Maastricht,  
The Netherlands

### Activities of WP1 at EUROCORR Conferences

EUROCORR	Sessions	Keynote Lectures	Oral Papers	Poster Papers	Participants
2003 Budapest	1 d WP1	2	13	10	20-85
	0.5 d WP1+WP13	1	6	3	40-80
2004 Nice	1 d WP1	2	16	21	20-80
	0.5 d WP1+WP13	1	8	5	40-60
2005 Lisbon	1 d WP1	1	21	7	20-80
	0.5 d WP1+WP13	-	6	3	30-85
	0.5 d WP1+WP15*	1	8	4	40-80
2006 Maastricht	1.5 d WP1	1	14	17	
	0.5 d WP1+WP13	-	7	3	
	0.5 d WP1+WP15	1	4		

\* Workshop: Inhibition in Naphthenic acids

### Activities of WP1 at EUROCORR Conferences

EUROCORR	Sessions	Keynote Lectures	Oral Papers	Poster Papers	Participants (anticipated)
2007 Freiburg (planned)	1.5 d WP1	2	21	?	20-90
	1 d WP1 Workshop: Functional Fluids (HFA + Metal Working) *	2	12 Invited Lectures		50-80
	0.5 d WP1+WP13	tbd	tbd	?	30-85
	0.5 d WP1+WP15	tbd	tbd		40-80

\* National Startup: GfKORR- Workshop „Performance Assurance of Metal Working and HFA Fluids“, 21st February 2007, Iserlohn, Germany

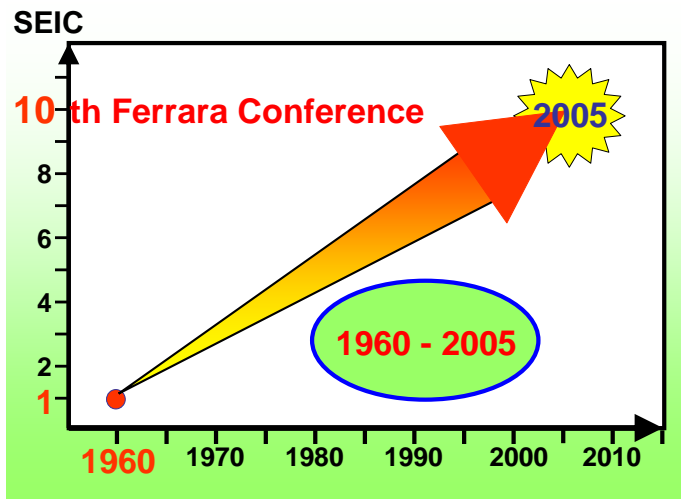
### Further Activities of WP1

## Organisation of the 10 SEIC 10th European Symposium on Corrosion and Scale Inhibitors

274th Manifestation of the  
European Federation of Corrosion

29th August to 2nd September, 2005

University of Ferrara, Italy



### Further Activities of WP1

Cooperation in standardisation work

#### ■ Corrosion Inhibition in Cooling Water

- ◆ Cooperation with ISO groups (e.g. ISO/TC156 WG12) on ongoing standardisation work in the field of **Industrial Cooling Water Systems – Testing and Performance (ISO 16874)**

(Part 1: Pilot Scale Evaluation of Corrosion and Scale Control additives for Open Recirculation Cooling Water Systems;

Part 2: Evaluation of the Performance of Cooling Water Treatment Programs)

- ◆ Cooperation with NACE groups (TG 316 (Initiative G.Hays): Harmonization of EFC and NACE documents on cooling water)

### Further Activities of WP1

Cooperation in standardisation work

#### ■ Testing of Inhibitor Efficiencies under Flow Conditions

- ◆ Cooperation with ASTM groups (Examples)

G170.01a Standard Guide for Evaluating and Qualifying Oilfield and Refinery Corrosion Inhibitors in the Laboratory

G184.06 Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cage

G185.06 Standard Practice for Evaluating and Qualifying Oil Field and Refinery Corrosion Inhibitors Using the Rotating Cylinder Electrode

### Further Activities of WP1

#### ■ Cooperation with other WPs

e.g.

WP 6 ,Surface Science and Mechanisms of Corrosion Protection';

WP 10 ,MIC';

WP 11 ,Corrosion of Reinforcement in Concrete';

WP 13 ,Oil&Gas';

WP 14 ,Coatings';

WP 15 ,Corrosion in Refinery Industry')