10th European Symposium on Corrosion and Scale Inhibitors

274th Manifestation of the European Federation of Corrosion

29th August – 2nd September, 2005
University of Ferrara (Italy)

General Programme

The 10th European Symposium on Corrosion and Scale Inhibitors will be held at the:

Corrosion Study Centre "Aldo Daccò"
Department of Chemistry
University of Ferrara
Via L. Borsari, 46
I-44100 Ferrara (Italy)
Telephone ++39 (0)532 291135
Telefax ++39 (0)532 240709
E-mail zhf@dns.unife.it
www.unife.it/centro/corr_study_centre/10SEIC/10SEIC.htm
The Symposium is organized by the Corrosion Study Centre "A. Daccò" of the University of Ferrara. The Symposium is under the auspices of the Working Party on Corrosion and Scale Inhibition of the European Federation of Corrosion.

SPONSORS
The 10th European Symposium on Corrosion and Scale Inhibitors is sponsored by:
Università degli Studi di Ferrara

SCIENTIFIC COMMITTEE
The Working Party on Corrosion and Scale Inhibition of the European Federation of Corrosion takes the scientific responsibility of the 10th SEIC.

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E-mail zhf@dns.unife.it
www.unife.it/centro/corr_study_centre/10SEIC/10SEIC.htm

GENERAL PROGRAMME
SUNDAY, August 28th
15.00 - 19.00 Registration of the participants
(Department of Chemistry of the University
Via L. Borsari, 46)

MONDAY, August 29th
8.00 - Registration of the participants
9.00 - Opening Ceremony
Session meetings
14.30 - Poster presentation
15.30 - Session meetings
18.30 - Reception

TUESDAY, August 30th
9.00 - Session meetings
14.30 - Poster presentation
15.30 - Session meetings
21.00 - Social event

WEDNESDAY, August 31st
8.00 - Excursion to Venetian Villas

THURSDAY, September 1st
9.00 - Session meetings
14.30 - Poster presentation
15.30 - Session meetings
20.30 - Official banquet

FRIDAY, September 2nd
9.00 - Session meetings
12.15 - Closing of the Symposium

SCIENTIFIC PROGRAMME
The Symposium will highlight recent developments in science and technology of corrosion inhibitors and scale inhibitors. The aim is to present solutions for present day problems and future challenges in the development and application of corrosion and scale inhibitors in diver field of technology, such as industrial cooling systems, geothermal heat recovery, oil and gas production, transportation and refining, industrial surface cleaning, functional fluids in metal working and hydraulic systems, concrete, paints and coatings, etc. Theoretical as well as practical aspects will be considered in the Symposium.
PROGRAMME OF PAPERS

MONDAY, August 29th

9.00 - 9.30 - Opening Ceremony

9.30 - 10.15 - G. SCHMITT
Corrosion inhibitors in the mirror of the Ferrara conferences  page 1075

10.15 - 11.00 - B. TRIBOLLET
Electrochemical techniques for studying corrosion inhibition  page 1

11.00 - 11.15 - Coffee Break

Session Meeting

11.15 - 11.40 - K. ARAMAKI and T. SHIMURA
Prevention of passive film breakdown by coverage of passivated iron with a carboxylate self-assembled monolayer modified with alkyltrithioxysilanes  page 63

11.40 - 12.05 - B. SCHNEIDER, M. AMKREUTZ, M. BENEKE, A. FANGMEIER, S. DIEKHOFF, E. KOCK, T. KOWALIK, P. SCHIFFELS and M. SCHNEIDER
Application of density functional calculations to investigate corrosion inhibition mechanisms  page 935

12.05 - 12.30 - I. LUKOVITS, A. SHABAN and E. KÁLMÁN
Thiosemicarbazides: non-linear relationships between the chemical structure and corrosion inhibition efficiency  page 79

14.30 - 15.30 - Poster Presentation

Session Meeting

15.30 - 15.55 - H. VEZIN, M. LAGRENÉE, M. LEBRINI and F. BENTISS
LR model of the inhibition mechanism of steel in HCl by triazole derivatives: structure–activity correlations  page 89

15.55 - 16.20 - A. ALAGTA, I. FELHÖSI and E. KÁLMÁN
Di-hydroxamic acid as corrosion inhibitor for low carbon steel in the presence of some metal ions  page 51

16.20 - 16.35 - Coffee Break

16.35 - 17.00 - P. BOMMERSBACH, C. DUMONT-ALEMANY, J.P. MILLET and B. NORMAND
Influence of the formation on the structure of a corrosion inhibitor  page 23

17.00 - 17.25 - V.P. GRIGORIEV, V.V. BOGINSKAJA, S.P. SHPANKO and A.F. NASSAR
Dependence of the protective concentration of a mixture of inhibitors from several reaction series on the polarities of substituents in their molecules  page 99

MONDAY, August 29th

Session Meeting

Effect of organic substances on critical chloride threshold for chlorides induced corrosion in reinforced concrete  page 683

11.40 - 12.05 - M. SANCHEZ, C. ALONSO, J. FULLEA, C. ANDRADE, L. GRANIZO and J.D. IZQUIERDO
Inhibition efficiency of FG 903 on corrosion of reinforcements. Effect of contact conditions  page 699

12.05 - 12.30 - L. CREAZZI, P.L. BONORA, L. FEDRIZZI and D. ROSIGNOLI
Study of protective ability of different corrosion inhibitors in cement by means of FT-IR analysis and potentiodynamic measurements  page 759

14.30 - 15.30 - Poster Presentation

Session Meeting

15.30 - 15.55 - N. ETTEYEB, M. SANCHEZ, L. DHOUIBI, C. ALONSO, C. ANDRADE and E. TRIKI
Corrosion protection of steel reinforcement by a pre-treatment in phosphate solutions  page 745

15.55 - 16.20 - S. AKHTAR, M.A. QURAISHI and M. ARIF
Assessment of corrosion inhibition efficiency in ferrocement composites  page 713

16.20 - 16.35 - Coffee Break
TUESDAY, August 30th

9.00 - 9.45 – K.S. SORBIE
Scale inhibitor adsorption onto minerals in oilfield well treatments  page 571

Session Meeting
9.45 - 10.10 - M. HEINE, M. BODEWIG, M. WINKLER and W. HATER
New method for the evaluation of dispersing agents for cooling water systems  page 467

10.10 - 10.35 - K.D. DEMADIS, E. NEOFOTISTOU, E. MAVREDAKI and A. STATHOULOPOULOU
Silica scale growth, fouling and deposition: can chemists solve water treatment’s “Gordian Knot”?  page 451

10.35 - 10.50 - Coffee Break

10.50 - 11.15 - A.-L. VAUR, A. NEVILLE and K.S. SORBIE
Going green – what is involved in inhibiting scale with biodegradable inhibitors?  page 413

11.15 - 11.40 - K. RAVI, S. SRIKANTH and A. BHATTACHARYYA
Elimination and prevention of scaling in cooling tubes by magnetic water treatment  page 399

11.40 – 12.05 - F. AL-TAHER, T. RIGÓ, J. TELEGDI and E. KÁLMÁN
Influence of Langmuir-Blodgett nanolayers on microbial adhesion  page 1049

14.30 - 15.30 - Poster Presentation

Session Meeting
15.30 - 15.55 - B. A. MIKSIC, M. A. KHARSHAN and A.Y. FURMAN
Vapor corrosion and scale inhibitors formulated from biodegradable and renewable raw materials  page 525

15.55 - 16.20 - L.E. TSYGANKOVA, P.N. BERNATSKY, F.A. RUMYANTSEV and V.I. VIGDOROVICH
The influence of the water soluble inhibitor on corrosion and kinetics of the electrode processes on carbon steel and copper covered by thin oil films  page 673

16.20 - 16.35 - Coffee Break

16.35 - 17.00 - N.N. ANDREEV and Yu.I. KUZNETSOV
Protection of metals by volatile corrosion inhibitors under heat-exchange conditions  page 541

TUESDAY, August 30th

Session Meeting
9.45 - 10.10 - K. BILKOVA, E. GULBRANDSEN, M. KNAG and J. SJÖBLOM
Kinetic study of model CO₂ corrosion inhibitors  page 585

10.10 - 10.35 - B. KINSELLA, D. JOHN, S. BOSENBERG and R. HART
Inhibition of preferential weld corrosion in sweet well environments  page 1019

10.35 - 10.50 - Coffee Break

10.50 - 11.15 - M. SÁNCHEZ, A. LIRA and E. SÁNCHEZ
Inhibiting effect of organic compounds on alloys with different chromium contents  page 651

11.15 - 11.40 - N.M. AGAEV, Ch.A. CHALABIEV, S.S. DZHARCHIEVA and B.A. MAMEDOV
Inhibitors of acidic steel corrosion on the base of side products of epichlorohydrin production  page 629

11.40 - 12.05 - T. E. POU and Y. GUNALTUN
Top of line corrosion inhibitor  page 641

14.30 - 15.30 - Poster Presentation

Session Meeting
15.30 - 15.55 - M. FOSS, K. BILKOVA, E. GULBRANDSEN and J. SJÖBLOM
Interaction of CO₂ corrosion inhibitors with corrosion product deposits  page 601

Connection of the protective action of sas with a nonpolar solvent nature  page 483

16.20 - 16.35 - Coffee Break

16.35 - 17.00 - A. ELBASIR, K. ELGANBOUR, F. ELSHAWESH, A. ELHOUD
Factors effect on amine corrosion inhibitor efficiency of mild steel in CO₂ containing environment.  page 1063
THURSDAY, September 1st

9.00 - 9.45 - V.S. AGARWALA
Corrosion and wear inhibitors for naval aerospace systems

Session Meeting
9.45 - 10.10 - Yu.I. KUZNETSOV
Current state of the theory of metal corrosion inhibition by phosphonates page 233

10.10 - 10.35 - F. MORAN and N. PÉBÈRE
Study of the inhibitive properties of fatty amines in association with sulphonated polyacrylate used for water treatment in cooling circuits page 289

10.35 - 10.50 - Coffee Break

10.50 - 11.15 - D. A. MEIER and J. T. MONTGOMERY
Performance results of the long-term application of a novel corrosion inhibitor and active polymer dosage control in industrial cooling water systems page 325

Non-phosphorous and non-metal cooling water treatment program page 273

11.40 - 12.05 – J. S. GILL
Recent developments in water treatment and future challenges page 305

12.05 - 12.30 – J. J. MAZUR and E. B. SMYK
Innovative technology uniting new chemicals with advanced monitoring and control optimizes the performance of cooling water systems in metal production processes page 345

14.30 - 15.30 - Poster Presentation

Session Meeting
15.30 - 15.55 - N. OCHOA, F. MORAN, N. PÉBÈRE and B. TRIBOLLET
Inhibitive properties of fatty amines in association with phosphonocarboxylic acid salts for corrosion protection of carbon steel page 249

15.55 - 16.20 - B.V. APPA RAO and M. VENKATESWARA RAO
Environmentally friendly corrosion inhibitor formulation containing phosphonated glycine, Zn²⁺ and citrate for carbon steel page 263

16.20 - 16.35 - Coffee Break

16.35 - 17.00 - S. RAJENDRAN, J.W. SAHAYARAJ, J.A. SELVI and A.J. AMALRAJ
Corrosion inhibition by the phenyl phosphonic acid –Zn²⁺ system for carbon steel in rain water page 375

Corrosion inhibition by the adipic acid–Zn²⁺ system page 387

THURSDAY, September 1st

Session Meeting
9.45 - 10.10 - B. MÜLLER
Corrosion inhibition and adsorption of different resins on aluminium pigment page 903

10.10 - 10.35 - C.M. RANGEL, T.I. PAIVA and P.P DA LUZ
Understanding conversion coating growth on Al 2024 alloys page 993

10.35 - 10.50 - Coffee Break

10.50 - 11.15 - S.A. KALUZHINA and E.I. NEUPOKOEOVA
The concentration borders of copper local corrosion inhibition by the compounds of piperidine and morfoline page 831

Inhibiting treatments for outdoor bronzes page 843

11.40 - 12.05 - B.V. APPA RAO and V.V.N. SOWMITHRI
2-mercapto-3-amino-5-methyltriazenone – A new corrosion inhibitor for copper in aqueous environment page 805
Session Meeting

9.00 - 9.25 - E. HÜR, G. BEREKET and Y. ŞAHIN
The corrosion protection of stainless steel by sulfonated polypyrrole films in acidic media page 187

9.25 - 9.50 - D.G. KINGERLEY, P.J. BODEN and S.J. HARRIS
Molybdates as chloride pitting inhibitors for electroless nickel coatings page 983

9.50 - 10.15 - S. M. BELOGLAZOV, G. S. BELOGLAZOV and M. N. LAYKOVA
Experimental and quantum chemical study of benzenesulfonamide derivatives as inhibitors of hydrogen absorption and microbiological corrosion of Ni - coated steel in aqueous media page 505

10.15 - 10.30 - Coffee Break

10.30 - 10.55 - M. LAGRENÉE, M. LEBRINI, F. BENTISS and H. VEZIN
Inhibition of mild steel corrosion by some new macrocyclic compounds in hydrochloric acid page 117

Benzotriazole derivatives as inhibitors of iron acid corrosion page 955

11.20 - 11.45 - V.V. EKILIK, V.V. CHERNYAVINA, G.N. EKILIK , E.N. BALAKSHINA and A.G. BEREZHNAYA
Azoles as inhibitors of anodic iron dissolution in sulphate solutions page 149

11.45 - 12.10 - V.P. GRIGORIEV, S.P. SHPANKO, V.V. BOGINSKAJA and A.F. NASSAR
Dependence of the protective properties of mixtures based on one and several reaction series as inhibitors metal corrosion on the number and concentrations of the components page 161

12.15 - Closing of the Symposium

POSTER PRESENTATION

MONDAY, TUESDAY and THURSDAY
14.30 - 15.30

1 - A. POPOVA and M. CHRISTOV
Investigation of inhibitive properties of azoles in acidic solution by impedance method page 39

2 - F. BENTISS, M. LEBRINI and M. LAGRENÉE
Corrosion inhibition of mild steel in 0.5 M sulphuric acid medium by a thiadiazole derivative: synergistic effect of iodide ions page 219

3 - M. LEBRINI, M. LAGRENÉE, F. BENTISS and H. VEZIN
Inhibitive effect of new substituted thiadiazoles on the corrosion of mild steel in acid media page 203

4 - G. QUARTARONE, A. ZINGALES, L. BONALDO and C. TORTATO
The corrosion inhibition of the mild steel by indole-5-carboxylic acid in deaerated 0.5 M H2SO4 page 173

5 - A.I. ALTSYBEEVA, V.V. BURLOV and T.M. KUZINOVA
Applying corrosion inhibitors to metal surfaces in electrostatic field page 551

6 - A. POPOVA
Inhibitor protection of mild steel corrosion in hydrochloric acid of varying concentrations page 133

7 - F. SAIID, N. SOUISSI, A. DERMAJ, N. HAJJAJI, E. TRIKI and A. SRHIRI
Contribution to the survey of the corrosion inhibition of the nickel in sulphuric acid solution page 889

8 - M.C. RITOLES, Y. ADAMES and M.E. CASAS
Inhibitor formulation from cuban raw material page 1035

9 - M. MORARU, A. SCHIOPESCU, I. CAMENITA and O. PANTEA
Corrosion and scale inhibition in oil production page 407

10 - M.C. RITOLES, Y. ADAMES, J. DAVIS and M. CABRALES
Protective properties of the national crude page 1043

11 - M.C. RITOLES, Y. ADAMES and M.E. CASAS
Corrosion inhibitor for oil well stimulation page 1007

12 - A. LLABANI and Z. GAÇE,
Investigation on inhibitive sodium benzoate and buffer phosphate on the corrosion of carbon steel in brine solution of crude oil page 667
13 - A.I. ALTSYBEVA, V.V. BURLOV, T.M. KUZINOVA, G.F. PALATIK and S.M. RESHETNIKOV
Amide-imidazoline corrosion inhibitors: peculiarities of behavior in water-petroleum environments

14 - L.E. TSYGANKOVA, N.V. SHEL, A.S. VERVEKIN and V.I. VIGDOROVICH
Protective efficiency of the oil composition coatings against carbon steel atmospheric corrosion in the SO$_2$ presence

15 - H. OTMAČIĆ, T. BRAJDIĆ, K. TADIĆ and E. STUPNIŠEK-LISAC
Synergistic effect of KI and azole compounds on copper corrosion inhibition in hydrochloric acid

16 - M. SHAGLOUF, A. SHABAN, Gy. VASTAG, E. SZÖCS and E. KÁLMÁN
Investigation of the inhibition effect of 5-mercapto-1-phenyl-tetrazole against copper corrosion in acidic media

17 - K. RHATTAS, Z. AIT CHIKH, N. HAJJAI, A. SRHIRI and T. JAZOULI
Corrosion inhibition of copper in chloride solution NaCl 3% by synthetic derivatives of 3-amino-1,2,4-triazole

18 - Z. AIT CHIKH, D. CHEBABE, A. DERMAJ, N. HAJJAI and A. SRHIRI
Study of the dezincification of alloy 60Cu-Zn in 3% NaCl solution using spectroscopic techniques

19 - M. KLIŠKIĆ, J. RADOŠEVIĆ, L. VRSALOVIĆ and S. GUDIĆ
Phenolic acid as corrosion inhibitor of Al-2.5Mg alloy in non-stationary conditions

20 - D. IONOVA and L. FACHIKOV
Influence of the presence of Al$^{3+}$ in natural water on corrosion behaviour of mild steel

21 - S. ALFORJANI, R. SOLA, S. ABUOUN and M. ALARABI
Scale inhibitor evaluation and optimization

22 - M. TUNARU, M. DRAGOMIR, L. VELCIU, A. VOICU and M. LAZAROAIE
The use of Adirol ETA 75 biocide in the inhibition of the corrosion activity of the iron-oxidizing bacteria

23 - S.M. BELOGLAZOV, G.S. BELOGLAZOV and L.V. MALASHENKO
New inhibitors of aluminium alloy D16 SRB-induced corrosion in water-salt media

24 - D.B. VERSHOK and Yu.I. KUZNETSOV
Magnetite coatings modified by corrosion inhibitors

25 - E.H. JAMIL, R. BOULIF, A. SRHIRI, M.F. MONTEMOR and M.G.S. FERREIRA
The use of organic corrosion inhibitors in concrete. electrochemical behaviour of steel samples in mortar

26 - F. AL-TAHER, T. RIGÓ, J. TELEGDI and E. KÁLMÁN
Inhibition of copper corrosion by Langmuir-Blodgett layers of hydroxamic acid salts
SOCIAL EVENTS AND EXCURSIONS
LADIES PROGRAMME

MONDAY, August 29th
15.00 - Meeting point in front of the Castle (Largo Castello).
   Sightseeing in Ferrara.
   Guided visit to the town and the Castle.
18.30 - Reception

TUESDAY, August 30th
14.30 - Meeting point in front of the Hotel Astra (Viale Cavour, 55).
   Guided visit to Comacchio.
   Coaches will leave for a guided visit to the Museum of the “Valli di Comacchio”.
   Return to Ferrara.
21.00 - Social event (Concert).
   Palazzo Renata di Francia

WEDNESDAY, August 31st
8.15 - Coaches will leave from the Corrosion Study Centre to Villa Pisani (Padua).
   Canal cruise through the Venetian Villas.
   Guided visit to the Venetian Villas.
   Return to Ferrara.

THURSDAY, September 1st
9.00 - Meeting point in front of the Castle (Largo Castello).
   Sightseeing in Ferrara.
   Guided visit to the town and the picture-gallery of “Palazzo dei Diamanti”.
20.30 - Official Banquet.

FRIDAY, September 2nd
Day free for shopping.

GENERAL INFORMATION

Registration fees
For participants 400 EURO (before June 15th, 2005), 450 EURO (after June 15th, 2005). The cost includes the volumes of Proceedings, reception on Monday, cultural event on Tuesday, light refreshments at coffee-breaks every day.
For accompanying persons: 150 EURO (including guided visit to the town and the Castle on Monday, guided visit to Comacchio and the Museum of the “Valli”on Tuesday, guided visit to the town and the picture-gallery of “Palazzo dei Diamanti” on Thursday, Reception, Concert and Banquet). The cost of the excursion to the Venetian Villas (Wednesday) is not included in the registration fee.

Hotel accomodation
Rooms at preferential rates are available for participants to 10 SEIC from 29th August to 2nd September 2005 in a selection of hotels located in close proximity to the Symposium place in Ferrara. No shuttle buses will be provided between the hotels and the Symposium place.
To make your hotel accomodation booking you must contact hotels directly as participants to the 10 SEIC. Due to the high number of manifestations and cultural events in Ferrara during August and September, the participants are kindly requested to book hotel rooms as soon as possible.

Travel information
Ferrara is on the railway line connecting Rome with Venice. The closest international airports are Marco Polo (Venice, ca 110 Km) and Guglielmo Marconi (Bologna, ca 45 Km). In addition, Milan is at two and a half hours train (with change in Bologna). There are several daily flights from Rome (Fiumicino airport) to Bologna and Venice. Driving to Ferrara is easy on the freeway network connecting North Europe to Italy.
REGISTRATION FORM
(To be mailed by July 1st, 2005)
Please fill and return to:
10 SEIC Corrosion Study Centre “A. Daccò”
University of Ferrara
Via L. Borsari, 46
I-44100 FERRARA (Italy)

Name…………………………………………………………….
Surname                    first name                 prof./dr./Mr./Mrs.
Mailing address…………………………………………………
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Tel.…………………….Fax………………………………
E-mail…………………………………………………………….
Fisc.Code or Vat. No.………………………..…for the invoice

Accompanying Persons
Surname………………….…First Name…………...…………

Registration fees:
before 15th June - after 15th June, 2005
Participant 400 Euro*  450 Euro*
Accompanying Persons 150 Euro* 150 Euro*
*20% VAT included

Payment
☐ Enclosed is a copy of my bank transfer payable to:
Consortio Ferrara Ricerche (W/SPO/ZUC/02/05),
Monte dei Paschi di Siena, Ferrara,
COD.IBAN: IT 36 U, ABI 01030, CAB 13000,
C/C n°. 705290, COD. SWIFT: PASCITMMFER

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Expiry date……………………………………………………
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☐ at the arrival in Ferrara to the Symposium Secretariat

Date……………….Signature………………………………….

HOTEL BOOKING
To make your hotel accommodation booking you must contact hotels directly as participants to the 10 SEIC.
Below you will find the list of hotels. On the website of the Symposium you can find a map of Ferrara illustrating their locations.
Prices (Euro) are per room per night basis and include breakfast. Taxes are included.

<table>
<thead>
<tr>
<th>Hotels</th>
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Other hotels located in close proximity to the Symposium place in Ferrara are reported. If not specified no rooms at preferential rates are available for participants of 10 SEIC.

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<td>115-130* 10% discount for participants of 10 SEIC</td>
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You can find other information about accommodation in the website [http://www.ferraraterraeacqua.it/default_eng.htm](http://www.ferraraterraeacqua.it/default_eng.htm)