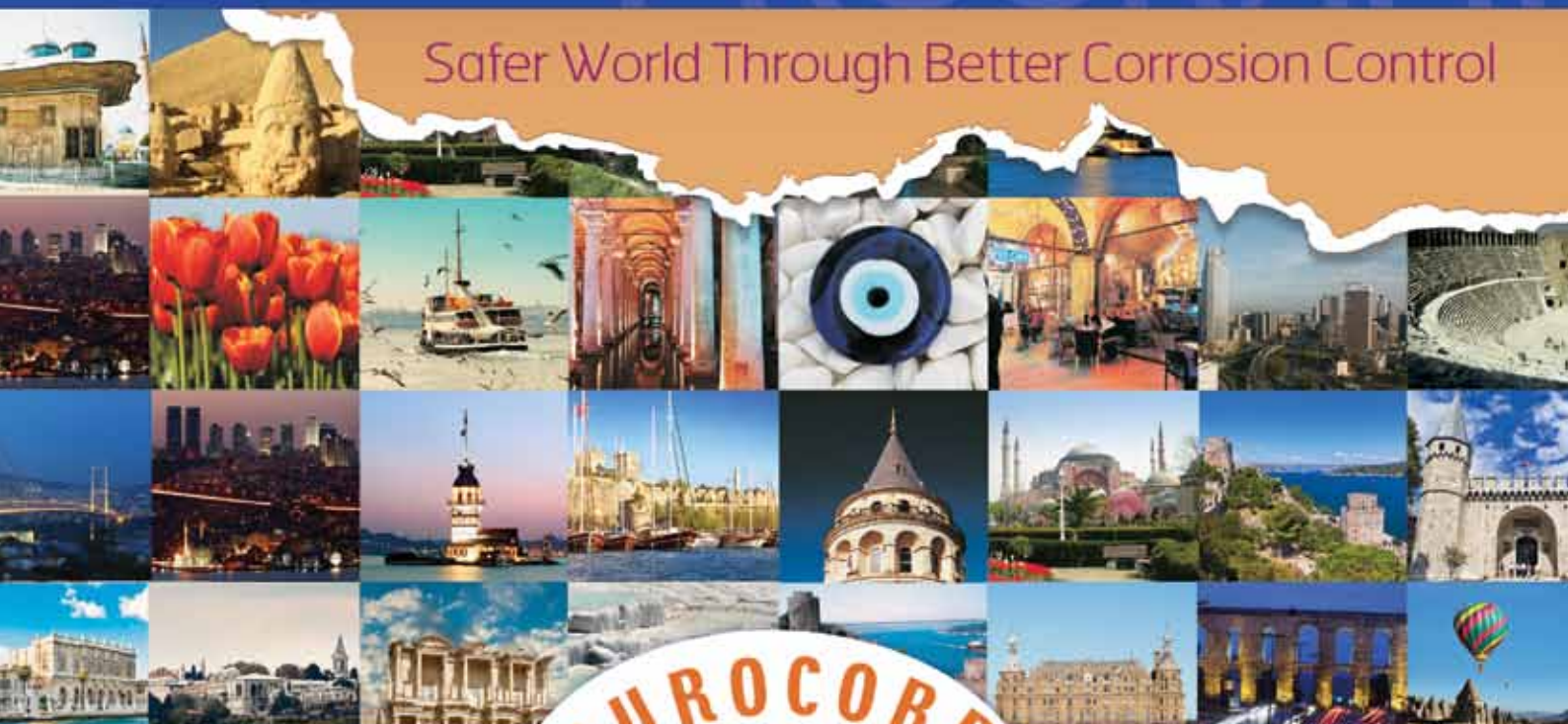


PROGRAMME

Safer World Through Better Corrosion Control



EUROCORR 2012

The European Corrosion Congress
9-13 September, Istanbul • TURKEY
Sheraton Istanbul Maslak Hotel

www.eurocorr.org
www.eurocorr2012.org





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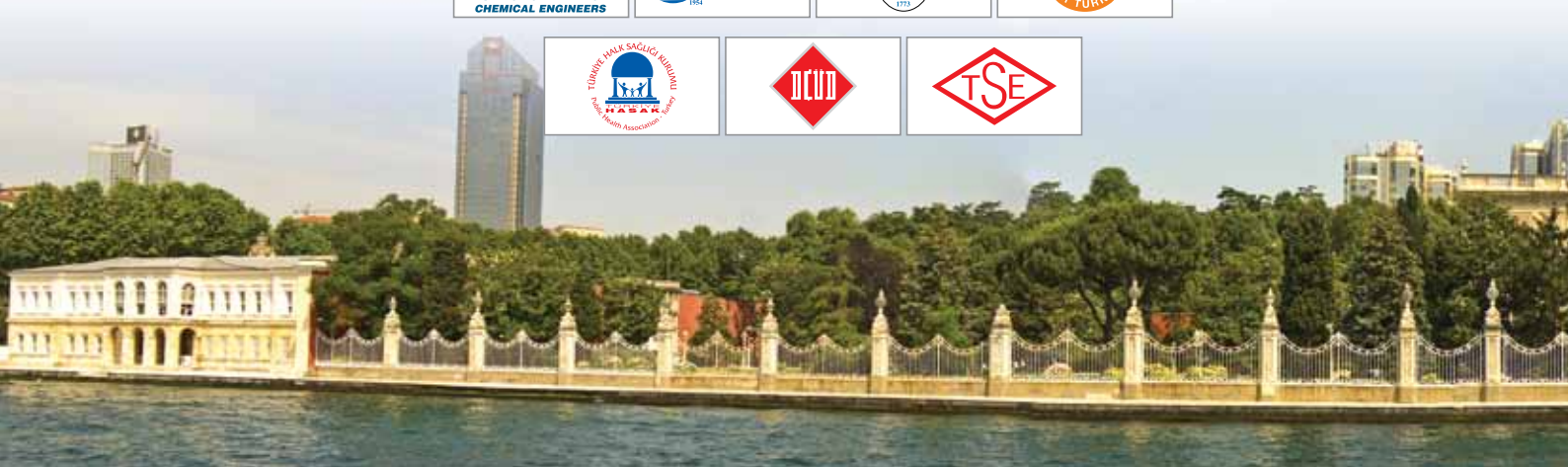




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GENERAL INFORMATION



Congress Venue:

Sheraton Istanbul Maslak Hotel
Buyukdere Cad. No: 233, Uc Yol Mevkii,
34398 Maslak - Istanbul / Turkey

Contact : (+90)(212) 3359999
Toll-Free : 00800 353 90024
E-Mail : info@sheratonistanbulmaslak.com

Congress Office

Room: SATURN

Sunday, 9 September 2012	08.30- 20.00
Monday, 10 September 2012	08.30- 20.00
Tuesday, 11 September 2012	08.30- 20.00
Wednesday, 12 September 2012	08.30- 20.00
Thursday, 13 September 2012	08.30- 20.00

Computer Room

Room: PLUTON

Sunday, 9 September 2012	08.30- 20.00
Monday, 10 September 2012	08.30- 20.00
Tuesday, 11 September 2012	08.30- 20.00
Wednesday, 12 September 2012	08.30- 20.00
Thursday, 13 September 2012	08.30- 20.00

Exhibition

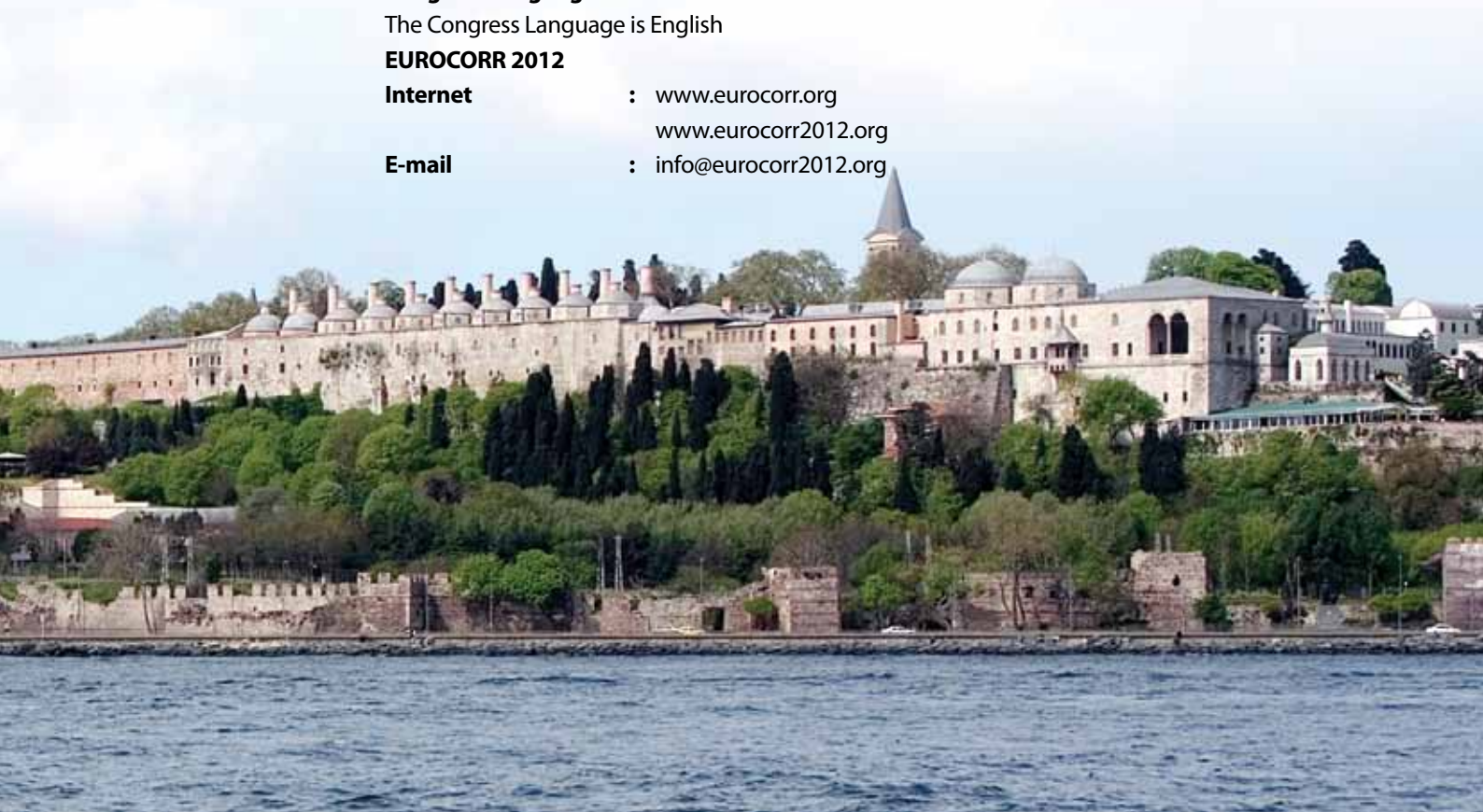
Exhibition Room : Valentin Room
Contact : Doruk KOFOGLU
+90 533 966 60 97

Congress Language

The Congress Language is English

EUROCORR 2012

Internet : www.eurocorr.org
www.eurocorr2012.org
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Sunday, 9 September 2012

Registration and Welcome Reception with drinks and snacks

The Conference will start with registration for all participants on Sunday, 9 September 2012 from 16:30 to 19:00 in Sheraton Maslak Hotel. Drinks and snacks will be served by invitation of organisers.

Tuesday, 11 September 2012

Poster and Exhibition Party

Visit the posters and exhibition area. All participants are invited from 17:10 to 19:00 in the poster and exhibition area (VALENTIN EXHIBITION ROOM). Drinks and snacks will be served.

Poster Award will be presented to an author below 35. Winner will also receive his/her registration fee back.

Wednesday, 12 September 2012

THE CONGRESS DINNER, 19:00- 23:30

DINNER ON THE BOAT WHILE CRUSING THE BOSPHOROUS

BOSPHOROUS

The most beautiful strait in the World joining EUROPE and ASIA and surrounded with colorful flowery woods, palaces, castles, suspension bridges and historical buildings of TWO CONTINENTS; all mixed with fascinating mansions.

GALA DINNER will be held on a boat while crusing the BOSPHOROUS, accompanied with International and Turkish music. Dine while making the most fantastic INTERCONTINENTAL TRAVEL.

CITY TOUR FOR PARTICIPANTS AND ACCOMPANYING PERSONS

Tuesday, 11 September 2012

A guided CITY TOUR is organized for all Participants and Accompanying Persons. Lunch will be served at a local Restaurant.

Includes : Transportation by air conditioned vehicles, Fully escorted by English speaking tour guide, Admission fees, Lunch, V.A.T

Excludes : Drinks, All personal expenses

Fee : For Participants 100 €/person. FOR ACCOMPANYING PERSONS: FREE OF CHARGE

At the Conference during Office Hours a special Desk will assist people to book Guided Tours. Payment by credit card.

For further information please visit: www.eurocorr2012.org

CONTENT COURSE ON TRIBOCORROSION



EUROCORR 2012 - ISTANBUL COURSE ON TRIBOCORROSION

Meeting Room: Jupiter

Day: Tuesday, 11 September 2012

Time: 10:00 am - 17:10 pm

Morning session:

- Introduction - Phenomena of tribocorrosion in medical and industrial sectors
Luis Rochas, Univ. do Minho (Portugal) **(20')**
- Module 1 - Depassivation and repassivation phenomena: synergism in tribocorrosion
Vincent Vivier, Univ. P& M. Curie (France) **(2 x 20' inclusive discussion)**
- Module 2 - Depassivation and repassivation phenomena: multi-scale and multi-disciplinarity
Vincent Vivier, Univ. P& M. Curie (France) **(2 x 20' inclusive discussion)**
- Module 3 - An industrial tribotesting strategy
Dirk Dees, Falex Tribology N.V. (Belgium)
(2 x 20' inclusive discussion)

Afternoon session:

- Module 4 - Studying tribocorrosion in-situ: electrochemical measurement
Vincent Vivier, Univ. P& M. Curie (France) **(2 x 20' inclusive discussion)**
- Module 5 - The design of a protocol for passivating materials
Nikitas Diomidis, Nagra - National Cooperative for the Disposal of Radioactive
Waste (Switzerland) **(2 x 20' inclusive discussion)**
- Module 6 - Testing procedure for passivating materials : Case study
Raquel Bayon, Tekniker (Spain)
(2 x 20' inclusive discussion)
- Module 7 - Normative approach
Amaya Igartua, Tekniker (Spain) **(20' inclusive discussion)**
- Conclusion - Round Table discussion
Jean-Pierre Celis, KU Leuven (Belgium) & Pierre Ponthiaux, ECP (France) **(20')**



Monday, 10 September 2012

EUROCORR 2012, 9 - 13 September 2012, programme as of July 19, 2012

Sunday, 9 September 2012

09:00 - 13:00	Assembly Exhibition, Congress counter
13:00 - 14:00	STAC Meeting
14:00 - 18:00	Joint Lunch
16:30 - 19:00	BOA Meeting
	Registration and Welcome Reception

08:45 - 9:00	<p>Opening Address: Prof. Dr. A. F. Cakir, Istanbul Technical University, Chair of EUROCORR 2012. Prof. Dr. P. Marcus, EFC President Cavaliaro Medal/Award Presentation (5 min) and Lecture (20min) Prof. Yuri Ignorovich Kuznetsov, A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Science, Moscow/ RUS Kurt Schwabe Prize Presentation (5 Min) and lecture (15min): Assoc. Prof. Dr. Ramazan Solmaz, Bingöl University, Science and Letters Faculty, Bingöl - Turkey</p> <p>Invited Plenary Lecture: Prof. Dr. Kemal İNİSANOĞLU, Norwegian University of Science and Technology, Trondheim, Norway; Title: " Nanofilm Segregations in Localized Corrosion of Aluminium Alloys"</p>									
09:00 - 09:25	Coffee Break									
09:25 - 09:45	Coffee Break									
09:45 - 10:30	Coffee Break									
10:30 - 11:00	Coffee Break									
	GALAXY III	GALAXY I	MARS	SUN	DELTA	FLAM	GALAXY II	NEPTUNE		
Topic	Pretreatments	Mechanisms & Methods	WS CO2 Corrosion	Hot Gases	WS in environmentally assisted cracking	Microbial Corrosion	Corrosion and Scale Inhibition	Tribocorrosion		
Chair(s)	L. Fedrizzi/W. Fürbeth	P. Marcus/D. Persson	R. Baisler	M. Schütze	J. Kittel/K. Woiski	T. Liengen	G. Schmitt	J.-P. Celis		
11:00 - 11:20	Ö. Özkanat	C. Leygraf	G. Stein-Brzozowska	D. Young	Keynote	R. Basseguy	Keynote	F. Oliveira		
11:20 - 11:40	B. Salgin	V. Maurice	R. Stadler	A. Sultan	T. Cassagne	(Focus Talk) E. Turcu	Yu.I. Kuznetsov	I. Golvano		
11:40 - 12:00	P. Taheri	E. Martinez-Lombardia	P. Pearson	P. Berthod	U. Kivisaikk	M. Sitpanicev	G. Sigircik	A.L. Ribeiro		
12:00 - 12:20	G. Luckeneeder	K. Ogle	T. Urios	M. Montgomery	V. Olden	C. Cote	N. Kovacevic	L. Benea		
12:20 - 12:40	J. Cerezo	Y.J. Kwak	J. Kittel	T. Amano	C. Bosch					
12:40 - 14:00	LUNCHTIME									
Topic	Pretreatments	Mechanisms & Methods	WS CO2 Corrosion	Hot Gases	WS in environmentally assisted cracking	Microbial Corrosion	Corrosion and Scale Inhibition	Tribocorrosion		
Chair(s)	L. Fedrizzi/W. Fürbeth	A. Mol/H. Terry	R. Baisler	M. Schütze	V. Olden/D. Feron	R. Basseguy	G. Schmitt	J.-P. Celis		
14:00 - 14:20	W. Fürbeth	P. Marcus	A. Dugstad	R. Pettersson	Keynote	L. Dall' Agnol	R.V. Kashkovskiy	F. Tabatabaei		
14:20 - 14:40	I. Recloux	C. Vichytil	X. Zhang	E. Larsson	P. Combrade	A. Wikiel	Y. Al-Janabi	L. Benea		
14:40 - 15:00	K. Pohl	V. Vivier	O. Yevtushenko	S. Tuurna	T. Couvant	M. Sztlyer	G. Schmitt	E. Marin		
15:00 - 15:20	I. Costa	K. Ogle	M. Wolf	A. Al-Meshari	J. Bouhattate	I. Comanescu	A. Al Salami	S.S. Akkaya		
15:20 - 15:50	COFFEE BREAK									
Topic	Metallic Coatings	Mechanisms & Methods	Corrosion in Oil and Gas	Hot Gases	WS in environmentally assisted cracking	Microbial Corrosion	Corrosion and Scale Inhibition	Tribocorrosion		
Chair(s)	L. Fedrizzi/W. Fürbeth	A. Mol/H. Terry	M. Bons/NACE	M. Schütze	T. Couvenic, Powell	C. Dupont	G. Schmitt	J.-P. Celis		
15:50 - 16:10	T. Aljohani	R. Lackner	J. Kittel	M. Galez	R. Rebak	(Focus Talk) M. Libert	A. Jenkins	F. Toplan		
16:10 - 16:30	S. Eraslan	E. Rocca	K. Kobayashi	E. Rocca	N. Lortho	R. Leite de Souza Moreira	B. Majeed	F. Pagano		
16:30 - 16:50	M. Lekka	V. Verdingovas	C. Plenneveaux	D. Oquab	S. Ritter	M. Kerber-Schutz	N.N	G. Tansug		
16:50 - 17:10	E. Garcia-Lecina	P. Dillmann	E. Fallahmohammadi	Business Meeting	K. Woiski		WP Business Meeting	A. Lanzutti		
18:00	GENERAL ASSEMBLY									

Monday, 10 September 2012

Tuesday, 11 September 2012

PROGRAMME AT A GLANCE



Topic	Chair(s)	GALAXY III	GALAXY I	FLAM	NEPTUNE	DELTA	KUBBE	GALAXY II	JUPITER	GAMMA	SUN	MARS	
		Metallic Coatings	Mechanisms & Methods	Corrosion In Oil and Gas	Refinery Industry	Automotive Corrosion	Microbial Corrosion	Corrosion and Scale Inhibition	WS: Course on Tribocorrosion	WS Aerospace	Steel in Concrete	Catholic Protection	
		L. Fedrizzi/W. Fürbeth	K. Ogle/C. Leygraf	M. Bonis/NACE	F. Ropital	F. Hannour	J. Telegdi	G. Schmitt	J.-P. Cells	T. Hack	M. Raupach		
10:00 - 10:20		F. Andreatta	O.P. Enegele	M. AlSaab	B. Chambers	Keynote H. Terry	(Focus talk) P. Cristiani	Keynote A. Cakir	L. Rochas	M. Zheludkevich	K. Minagawa	WP	
10:20 - 10:40		H.N. McMurray	E. Volpi	Y. Gunaltun	M. Millet	E. Kormienko	M. Carvalho	H. Gerengi	V. Vivier	D. Shchukin	H. Bensabra		
10:40 - 11:00		S. Zein El Abedin	J. Alexis	B. Chambers	S. Srinivasan					P. Visser	T. Bellezze		
11:00 - 11:30		Coffee Break											
		Metallic Coatings	Mechanisms & Methods	Corrosion In Oil and Gas	Refinery Industry	Automotive Corrosion	Microbial Corrosion	Corrosion and Scale Inhibition	WS: Course on Tribocorrosion	WS Aerospace	Steel in Concrete	Business	
		L. Fedrizzi/W. Fürbeth	K. Ogle/C. Leygraf	M. Bonis/J. Kittel	F. Ropital	F. Hannour	B. Tribollet	G. Schmitt	J.-P. Cells	T. Hack	M. Raupach		
11:30 - 11:50		C. Schulz	K.A. Yasakau	M. Maruta	C. Claesen	Y. Song	Y. Yang	K. Schaefer	J. Nikkola	J. Osborne	D. Koleva		
11:50 - 12:10		M. Pazerova	Y. Gonzalez-Garcia	P. Pohjanne	N. N	K. Bauer	L. Romaszki	K. Demadis	V. Vivier	A.E. Hughes	D. Koleva	meeting	
12:10 - 12:30		M. Kocabas	M. Taryba	T. Sunaba	E. Lyublinski	S. Ootsuka	B. Torres Bautista	N.N.	D. Dees	A. Acquesta	A. Araujo		
12:30 - 12:50		S. Xing	A. Alvarez Pampilega	E. Caldwell	A. Groysman	C. Krauß	P. Beese	G. Gece			F. Montemor		
12:50 - 14:00		Lunchtime											
		Inorganic Coatings	Mechanisms & Methods	Corrosion In Oil and Gas	Refinery Industry	Automotive Corrosion	Microbial Corrosion	Corrosion and Scale Inhibition	WS: Course on Tribocorrosion	WS Aerospace	Steel in Concrete		
		L. Fedrizzi/W. Fürbeth	V. Maurice/S. Lyon	M. Bonis/J. Kittel	F. Ropital	F. Hannour	J. Moura	G. Schmitt	J.-P. Cells	T. Hack	M. Raupach		
14:00 - 14:20		M. Atagür	D.J. Mills	T. Ohe	A. Demma	M. Yasir	Keynote W. Sand	T. Jentsch	V. Vivier	G. Eich	M.C. Bignozzi		
14:20 - 14:40		M. Bestetti	M. Jellesen	S. Aribo	M. Melampy	T. Troßmann	C. Thyssen	Y. Tan	N. Diomidis	M. Garcia-Rubio	M.G. Sohail		
14:40 - 15:00		D. Veys-Renaux	F. Andreatta	D. Motoya	M. Bokhari	F. Norouzi Afshar	A. Kuklinski	W. Hater		F. Bellucci	J. Head		
15:00 - 15:20		P. Rosemann	F. Depentori	S. Mannan	Sh. Azadi	P. Seemann		N.N.		A.E. Hughes	R. Giorgini		
15:20 - 15:50		Coffee Break											
		Inorganic Coatings	Mechanisms & Methods	Corrosion In Oil and Gas	Refinery Industry	Automotive Corrosion	Microbial Corrosion	Corrosion and Scale Inhibition	WS: Course on Tribocorrosion	WS Aerospace	Catholic Protection in concrete		
		L. Fedrizzi/W. Fürbeth	V. Maurice/S. Lyon	M. Bonis/J. Kittel	F. Ropital	F. Hannour	I. Beech	G. Schmitt	J.-P. Cells	T. Hack	M. Raupach/M. Roche		
15:50 - 16:10		M. Poelmann	J. Lengsfeld	L. Ke	R. Pettersson	G. Okay Secgin	B.J. Little	W. Ghannem	R. Bayon	S. Kallip	R. Sorensen		
16:10 - 16:30		L. Calabrese	S. Lamaka	M. Rogowska	M. Golarz	C. Savell	R. Avci	S. Al Subai	A. Igarua	J. Tedim	R. Sorensen		
16:30 - 16:50		WP Business meeting	A. Simoes	W. He	J. Zhang	A. Talus	R. Jeffrey	I.B. Obot	J.-P. Cells	J.C.S. Fernandes	C. Helm		
16:50 - 17:10			E. Guerrini	M. Mohajer	V. Bour Beulier		R.E. Melchers	K. Demadis		A. Zervaki	F. Auder		
17:10 - 19:00		Poster Party / Poster Discussion											

Tuesday, 11 September 2012

Wednesday, 12 September 2012

ROOM: GALAXY II +III											
Invited Plenary Lecture: Prof. Dr. Oya Altın, Institute of Marine Sciences and Management, Istanbul University, Istanbul/TR "İSTANBUL: How old is SHE?" From a geo-archaeological point of view.											
Break for Changing Lecture Hall											
09:00 - 09:45											
09:45 - 10:00											
Topic	GALAXY III	GALAXY I	GALAXY II	FLAM	DELTA	KUBBE	MARS	SUN	NEPTUNE	JUPITER	
Chair(s)	Inorganic Coatings	Mechanisms & Methods	Corrosion in Oil and Gas	Steel in Concrete	Automotive Corrosion	Microbial Corrosion	Nuclear Corrosion	Cathodic Protection	Refinery Industry		
10:00 - 10:20	L. Fedrizzi/W. Fürbeth	A. Simoes/R. Ambat	M. Bonis/W. Achour	M. Raupach	F. Hannour	R. Meichers	S. Ritter	M. Roche/C. Crouzillac	F. Ropital		
10:20 - 10:40	H. Cimenoglu	A.M. Homborg	R. Lindsay	M.E. Mitzithra	R. Ambat	T. Ünsal	O. Picho	E. Lyublinski	Business Meeting		
10:40 - 11:00	D. Kek Merl	R. Feser	C. Plennevaux	I.K. Khan		I. Vargas	M. Roy	A.V. Goncharov	all day		
11:00 - 11:30	V. Sammelselg	M. Jez	N. Zwazl	T.A. Söylev	M. Jönsson	I. Vargas	S. Uchida	Y.B. Huang			
Coffee Break											
Chair(s)	Inorganic Coatings	Mechanisms & Methods	Corrosion in Oil and Gas	Steel in Concrete	Automotive Corrosion	Environment Sensitive Fracture	Nuclear Corrosion	Cathodic Protection	Refinery Industry		
11:30 - 11:50	L. Fedrizzi/W. Fürbeth	A. Simoes/R. Ambat	M. Bonis/W. Achour	M. Raupach	F. Hannour	V. Olden	S. Ritter	M. Roche/C. Crouzillac	F. Ropital		
11:50 - 12:10	O. Ozcan	D. Persson	A. Sherik	M. Kosalla	N. LeBozec	J. Bouhattate	J.S. Kim	Z. Romatani	Business Meeting		
12:10 - 12:30	R. Ambat	R. Jeffrey	M. Che Ismail	R. Hussain	K. Kreislova	F. Vučko	L. Carvalho	M.S. Al Jaberl	all day		
12:30 - 12:50	E. Härkönen	I. Azoulay	A.H. Mustafa	M. Jafari	J. Aromaa	A.K. Uysal	B. Gwinner	G. Pimenta			
12:50 - 14:00	N. Bağcivan	A. Alajouji Mouayd	M. Vakili	C. Monticelli	E. Morris	G. Nakayama	C. Ornek	B. Edward			
Lunchtime											
Chair(s)	Organic Coatings	WS Marine renewable Energy	Corrosion in Oil and Gas	Steel in Concrete	Automotive Corrosion	Environment Sensitive Fracture	Nuclear Corrosion	Cathodic Protection	Refinery Industry		
14:00 - 14:20	L. Fedrizzi/W. Fürbeth	L.R. Hilbert/P. Demt	M. Bonis/W. Achour	M. Raupach	F. Hannour	K. Wolski	A. Legat	M. Roche/C. Crouzillac	F. Ropital		
14:20 - 14:40	H. Terry	L. Hilbert	A. Palencsar	M. Serdar	K. Bauer	A. Keserovic	H. Badet	O.A. Engin	Business Meeting		
14:40 - 15:00	D. Mills	O. Knudsen	M. Migahed	D.M. Bastidas	L. Yu	J. Sobetzki	F. King	H. Sabri	all day		
15:00 - 15:20	L.G. Ecco	A. Bjorgum	L.I. Aliyeva	Z. Panossian	WP Business Meeting	H. Masuda	N. Diomidis	K. Karadag			
15:20 - 15:40	S. Rossi	J. Aromaa	J.I. Ukpal	E. Salamci		V.S. Sinayvskiy	S. Lehmusmies	M. Behbahani-Nejad			
15:40 - 16:10	A. Bjorgum	F. van Rodijnen	G. Instanes	T. Nishimura		A. Almubarak	O. Necib	R. Omid			
Coffee Break											
Chair(s)	Organic Coatings	Marine Corrosion	Corrosion in Oil and Gas	Steel in Concrete	Automotive Corrosion	Environment Sensitive Fracture	Nuclear Corrosion	Cathodic Protection	Refinery Industry		
16:10 - 16:30	L. Fedrizzi/W. Fürbeth	U. Kivisakk	M. Bonis/W. Achour	M. Raupach	F. Hannour	S. Bouhattate	D. Feron	M. Roche/C. Crouzillac	F. Ropital		
16:30 - 16:50	J. Pan	WP 9	I. Comanescu	WP	WP Business Meeting	H. Hoffmeister	WP 4	A.M. Grolleau	Business Meeting		
16:50 - 17:10	S. Schmitz-Stöwe	Business Meeting	M. Al-Hammad	Business Meeting	WP Business Meeting	H. Hoffmeister	Business Meeting	M. Khosravi	all day		
17:10 - 17:30	H.B. Xue	Meeting	E. Lyublinski	Meeting		M. Yunovich	Meeting	X. Yu			
19:00	J. Repp		M. Javidi			WP5 business meet		F. Alanazi			
Boat Trip and Gala Dinner											
Historical Artifacts											
Ph. Dillmann											
M. Bouchar											
C. Remazelles											
R. Fako											
D. Watkinson											

Thursday, 13 September 2012

PROGRAMME AT A GLANCE

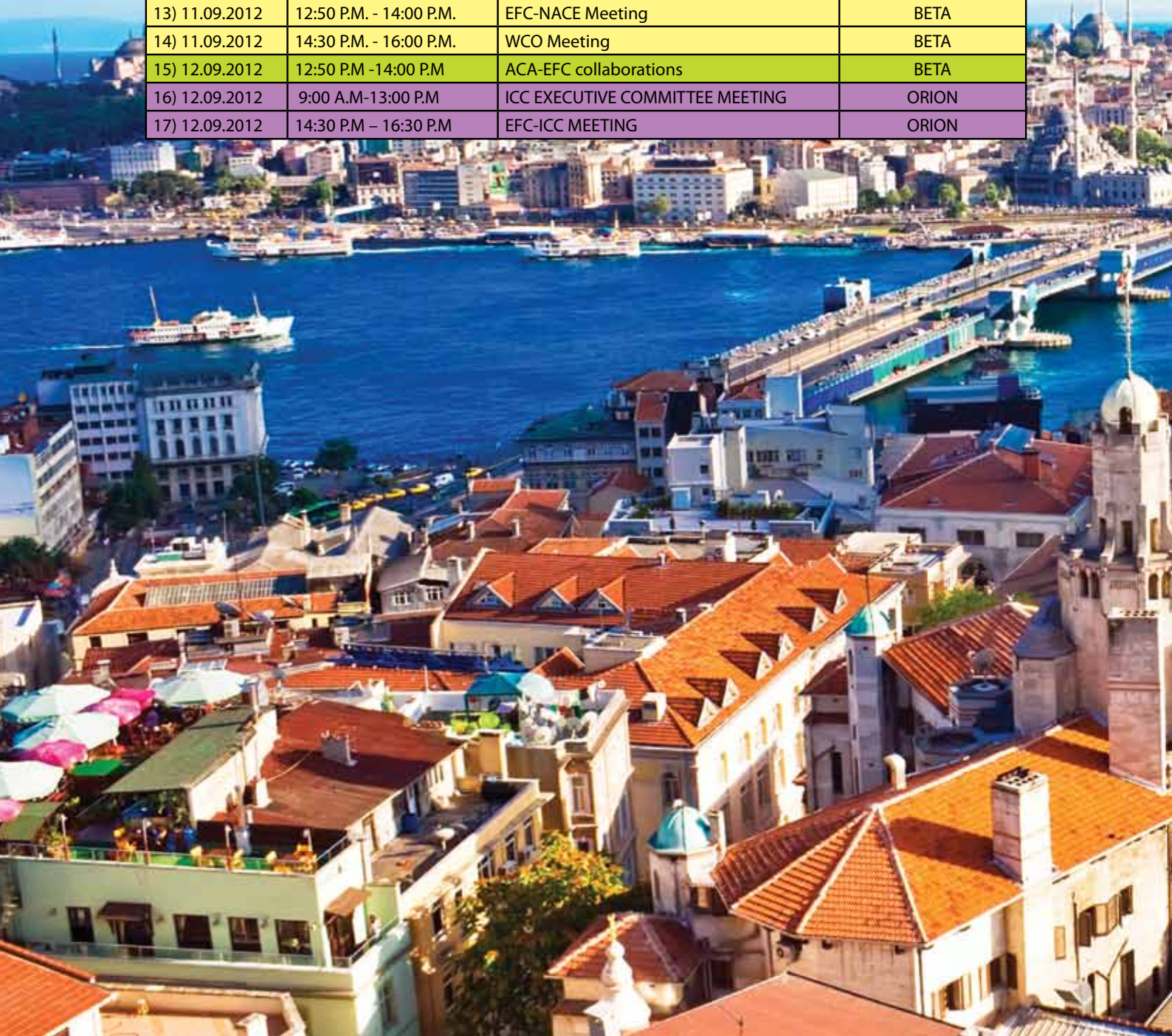


Break for Changing Lecture Hall										
09:00-9:45	Invited Plenary lecture: H. Terryn, Vrije Universiteit Brussel/B (1738) <i>Interfacial bonding and (de)adhesion of corrosion protective coatings on metals</i>									
9:45 - 10:00	ROOM: GALAXY II +III									
	GALAXY II + III	SUN	GALAXY I	NEPTUNE	DELTA	FLAM	JUPITER	GAMMA		
	Self-healing Coatings	Marine Corrosion	Corrosion in Oil & Gas	Coatings for High Temperatures	Historical Artefacts	Cathodic Protection	Corrosion Education	Polymers		
Chair(s)	L. Fedrizzi/W. Fürbeth	C.Powell/A.-M. Grolleau	M. Bonis/J. Kittel	M. Galetz	Ph. Dillmann	M. Roche/C. Crouzillac	A. Heyn/S. Trasatti	J. Heinemann/W. Erning		
10:00 - 10:20	F. Montemor	X. Zhang	Business meeting WP 13	F. Shahriari Nogorani	N.J. Emmertson	F. Alanazi	A. Groysman	M. Weltschhev		
10:20 - 10:40	I.V. Aoki	D. Thierry		F. Velasco	A. Saeed	R. Ballerini	G. Ebell	J. Heinemann		
									Drinking Water	
										J. Wilhelm ERNING
10:40 - 11:00	D. Shchukin	M. Taylan	Business meeting WP 13	B. Yildirim	S. Grassini	D. Sirota	S. Trasatti	A. Becker		
11:00 - 11:20	I. De Graeve	A. Sakhri		M. Oksa	C. Monticelli	T. Aktar	T. Trofmann	C. Powell		
11:20 - 11:50	Coffee Break									
	Self-healing Coatings	Marine Corrosion	Corrosion in Oil & Gas	Coatings for High Temperatures	Historical Artefacts	Cathodic Protection	Corrosion Education	Drinking Water		
	L. Fedrizzi/W. Fürbeth	C.Powell/A.-M. Grolleau	M. Bonis/J. Kittel	M. Galetz	Ph. Dillmann	M. Roche/C. Crouzillac	A. Heyn/S. Trasatti	J. Wilhelm ERNING		
11:50 - 12:10	D. Snihirova	I.M. Medvedev	Business meeting WP 13	N. Chellah	C. Chiavari	M. Thieme	A. Heyn	F. Delaunois		
12:10 - 12:30	D. Grigoriev	K. Gao		M.A. Shoeb	S. Grassini	S. Brasil	WP Business meeting	X. You		
12:30 - 12:50	I. Kartsonakis	A. Kahoul		P. Audigie	M.P. Casaleto	E. Broesder		M. Sakairi		
12:50 - 13:10	A. Yabuki			H. Murakami	V.K. Gouda	Christophe Baeté				
13:10 - 13:20	Break for Changing Lecture Hall									
13:20 - 13:40	Closing Remarks									
ca. 13:40	End of Scientific Programme									

(Programme subject to change)

Thursday, 13 September 2012

ROOMS FOR THE EUROCORR 2012 MEETINGS			
Date	Hour	Meeting	Meeting Room Name
1) 07.09.2012	08:00 A.M. - 05:00 P.M.	ISO/TC 6*7/WG 7/TG "Non-metallics"	JUPITER
2) 07.09.2012	13:00 P.M. - 05:00 P.M.	NACE MEETING	PLUTON
3) 07.09.2012	08:00 A.M. - 05:00 P.M.	ISO/TCWG7/TG"MR0103"	MARS&NEPTUN
4) 08.09.2012	08.00 A.M. - 12:00 A.M	ISO/TC/WG 7/TG "Non-metallics"	JUPITER
5) 08.09.2012	08:00 A.M. - 12:00 A.M	ISO 15156 Maintenance Panel	MARS&NEPTUN
6) 08.09.2012	01.30 P.M. - 04:00 P.M.	Joint Meeting ISO/TC 67/WG 7 + NACE TG 299 (ISO 15156 Oversight Committee)	GALAXY I
7) 08.09.2012	16:30 P.M. - 17:30 P.M.	ISO 15156 Maintenance Agency	JUPITER
8) 09.09.2012	09:00 A.M. - 13:00 P.M.	EFC: STAC Meeting	MARS&NEPTUN
9) 09.09.2012	14:00 P.M. - 18:00 P.M.	EFC: BoA Meeting	MARS&NEPTUN
10) 10.09.2012	18:00 P.M.	EFC: General Assembly Meeting	FLAM
11) 10.09.2012	11.00 A.M-15.20 P.M	ISO MEETING 17348	ORION
12) 10.09.2012	12:50 P.M. - 13:50 P.M.	International Scientific Committee 2013	SUN
13) 11.09.2012	12:50 P.M. - 14:00 P.M.	EFC-NACE Meeting	BETA
14) 11.09.2012	14:30 P.M. - 16:00 P.M.	WCO Meeting	BETA
15) 12.09.2012	12:50 P.M -14:00 P.M	ACA-EFC collaborations	BETA
16) 12.09.2012	9:00 A.M-13:00 P.M	ICC EXECUTIVE COMMITTEE MEETING	ORION
17) 12.09.2012	14:30 P.M – 16:30 P.M	EFC-ICC MEETING	ORION



SCIENTIFIC LECTURE PROGRAMME



Sunday, 9 September 2012

Sunday, 9 September 2012	
	Assembly Exhibition, Congress counter
09:00 - 13:00	STAC Meeting
13:00 - 14:00	Joint Lunch
14:00 - 18:00	BOA Meeting
16:30 - 19:00	Registration and Welcome Reception

Monday, 10 September 2012

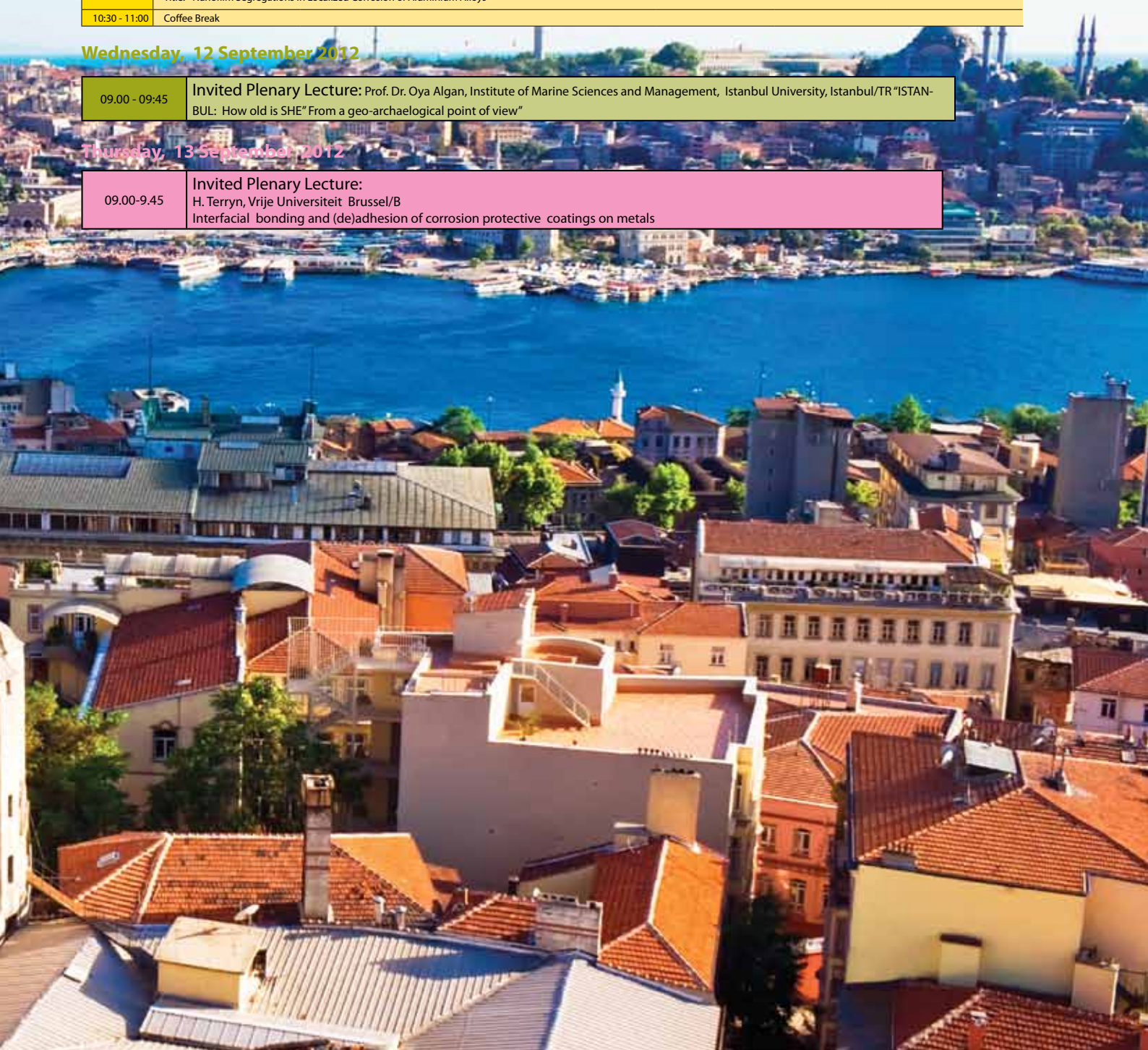
08:45 - 9:00	Opening Address: Prof. Dr. A.F. Cakir, Istanbul Technical University, Chair of EUROCORR 2012, Prof. Dr. P. Marcus, EFC President
09:00 - 09:25	Cavallaro Medal Award Presentation (5 min) and Lecture (20min) Prof. Yury Igorevich Kuznetsov, A.N.Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Science, Moscow/ RUS
09:25 - 09:45	Kurt Schwabe Prize Presentation (5 Min) and lecture (15min): Assoc. Prof. Dr. Ramazan Solmaz, Bingöl University, Science and Letters Faculty, Bingöl - Turkey
09:45 - 10:30	Invited Plenary Lecture: Prof. Dr. Kemal NIŞANCIOĞLU, Norwegian University of Science and Technology, Trondheim, Norway; Title: " Nanofilm Segregations in Localized Corrosion of Aluminium Alloys"
10:30 - 11:00	Coffee Break

Wednesday, 12 September 2012

09.00 - 09.45	Invited Plenary Lecture: Prof. Dr. Oya Algan, Institute of Marine Sciences and Management, Istanbul University, Istanbul/TR "ISTANBUL: How old is SHE" From a geo-archaeological point of view"
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Thursday, 13 September 2012

09.00-9.45	Invited Plenary Lecture: H. Terry, Vrije Universiteit Brussel/B Interfacial bonding and (de)adhesion of corrosion protective coatings on metals
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Mechanisms of Environmentally Assisted Cracking (WP 5)		Room: DELTA
Chairs	Krzysztof Wolski École Nationale Supérieure des Mines de Saint-Étienne/F	
	J.Kittel Lyon Direction Chimie et Physicochimie Appliquées Département Electrochimie et Matériaux	
11:00	Environmental cracking in the upstream oil and gas industry	
	T. Cassagne, Total Exploration and Production, Pau/F	
11:40	Contributions to a mechanism for HISC of duplex stainless steels based on inhomogeneous deformation	
	U. Kivisäkk, J. Eidhagen, AB Sandvik Materials Technology, Sandviken/S	
12:00	The influence of plastic strain on hydrogen diffusion and trapping in weld simulated heat affected zone of X70 pipeline steel.	
	V. Olden, SINTEF, Trondheim/N; O.M. Akselsen, Norwegian University of Science and Technology / SINTEF, Trondheim/N; A. Senumstad Hauge, NTNU, Trondheim/N	
12:20	Effect of hydrogen on low cycle fatigue properties and deformation behavior of a tempered martensitic high strength steel	
	F. Vucko, C. Bosch, D. Delafosse, Ecole Nationale Supérieure des Mines, Saint-Etienne/F	
12:40-14:00	LUNCHTIME	
Mechanisms of Environmentally Assisted Cracking (WP 5)		Room: DELTA
Chairs	Vigdis Olden SINTEF Materials and Chemistry, Trondheim/N	
	D.Feron STAC Chairman, CEA Saclay, Gif-sur-Yvette/F	
14:00	Mechanisms of stress corrosion cracking of Ni-Fe-Cr austenitic alloys in PWRs - what we know and what we need to understand ?	
	P. Combrade, Consultant, Le Bessat/F; P.M. Scott, Consultant, Noisy Le Roi/F	
14:40	Modelling intergranular stress corrosion cracking of austenitic alloys exposed to PWR primary water	
	T. Couvant, EDF R&D, Moret-sur-Loing/F	
15:00	Some recent advances on the diffusion and trapping of hydrogen in relation to the stress state, the microstructural heterogeneity and microstructural defects	
	J. Bouhattate, A. Oudriss, E. Legrand, J. Creus, C. Savall, E. Conforto, X. Feugas, Université de La Rochelle, La Rochelle/F	
15:20	COFFEE BREAK	
Mechanisms of Environmentally Assisted Cracking (WP 5)		Room: DELTA
Chairs	T.Couvent	
	C.Powel	
15:50	Environmentally Assisted Cracking of Nickel Alloys in Nuclear Power Generation and Nuclear Waste Disposal	
	R. Rebak, GE Global Research, Schenectady/USA	
16:10	SCC susceptibility in alloy 600 with different strain histories	
	N. Lorho, J. Quinta Da Fonseca, University of Manchester/UK; F. Vaillant, EDF, Moret sur Loing/F; F. Léonard, University of Manchester/UK	
16:30	Influence of reference electrode distance on the electrochemical potential noise during SCC in high-purity, high-temperature water	
	S. Ritter, H.P. Seifert, Paul Scherrer Institute, Villigen PSI/CH	
16:50	Physical metallurgy issues in Environmentally Assisted Cracking under oxidising environments at high temperature	
	K. Wolski, Centre SMS - UMR CNRS 5146, Saint-Etienne CEDEX 02/F	

SCIENTIFIC LECTURE PROGRAMME



MONDAY • 10 SEPTEMBER

	Corrosion and Scale Inhibition (WP1) Room: GALAXY II
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
11:00	New possibilities of inhibition of metal corrosion by organic heterocyclic compounds Yu.I. Kuznetsov, Russian Academy of Science, Moscow/RUS
11:40	Inhibition behaviour of benzonitriles on mild steel in HCl solution G. Sigircik, T. Tüken, M. Erbil, Cukurova University, Adana/TR
12:00	Adsorption of triazole, benzotriazole, and naphthotriazole on copper N. Kovacevic, A. Kokalj, S. Peljhan, M. Finsgar, A. Lesar, I. Milosev, Jozef Stefan Institute, Ljubljana/SLO
12:20	Does benzotriazole deprotonate on copper surfaces? S. Peljhan, A. Kokalj, Jozef Stefan Institute, Ljubljana/SLO
12:40-14:00	LUNCHTIME
	Corrosion and Scale Inhibition (WP1) Room: GALAXY II
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
14:00	Some features of inhibition of hydrogen sulfide corrosion of low carbon steel by tributylamine R.V. Kashkovskiy, Gazprom VNIIGAZ, Moscow/RUS; Yu.I. Kuznetsov, Russian Academy of Science, Moscow/RUS
14:20	Applications and limitations of pH stabilisation for pipeline corrosion control Y. Al-Janabi, A.I. Abdulhadi, T.A. Al-Khalidi, H.A. Al-Ajwad, Saudi Aramco, Dhahran/SAR
14:40	ECN study on pitting corrosion in pipelines in the water/hydrocarbon interface region - effect of corrosion inhibitors G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technologies n.f.p.Ltd, Iserlohn/D; G. Karbasi, S. Nestic, B. Brown, Institute for Corrosion and Multiphase Technology, Athens, OH/USA; R.H. Hausler, Corro-Consulta, Kaufman, TX/USA; B. Kinsella, Institute for Corrosion and Multiphase Technology, Athens, OH/USA
15:00	Oilfield scale risk - scale inhibition strategy A. Al Salami, A. Al Busaedi, A. Abdel Monem, Zakum Development Company (ZADCO), Abu Dhabi/UAE
15:20	COFFEE BREAK
	Corrosion and Scale Inhibition (WP1) Room: GALAXY II
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
15:50	Development of a novel multifunctional production chemical with biocidal, solids removal and corrosion inhibition properties A. Jenkins, M. White, C. Young, M-I SWACO, Aberdeen/UK
16:10	Corrosion of carbon steel in aqueous mixtures of ([bmim] [BF ₄] + MEA+ CO ₂) and ([bmim] [DCA]+ MEA + CO ₂) Solutions B. Majeed, University of Malaya, Selangor/MAL; M.K. Aroua, B. S. Ali, R. Yusoff, University of Malaya, Kuala Lumpur/MAL
16:30	Inhibitive behavior of pyridine-2-thiol on mild steel in HCl acidic media: influence of hydrodynamic condition A. Kosari, R. Parvizi, M. Momeni, M.H. Moayed, Ferdowsi University of Mashhad/IR; A. Davoodi, Tarbiat Moallem University of Sabzevar/IR
16:50-17:10	CORROSION AND SCALE INHIBITION BUSINESS MEETING (WP 1) ROOM: GALAXY II

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Corrosion by Hot Gases and Combustion Products (WP 3) Room: SUN	
Chairs	Michael Schütze DECHEMA e.V., Frankfurt am Main/D
11:00	Cyclic oxidation resistance of nanocrystalline 304 stainless steel D. Young, University of New South Wales, Sydney/AUS; J. Zhang, State Key Laboratory for Corrosion and Protection, Liaoning/PRC; X. Peng, University of New South Wales, Sydney/AUS
11:20	Comparison of behaviors of low chromium steels in air and moist atmospheres at high temperatures A. Sultan, I. Karakaya, M. Erdogan, Middle East Technical University, Ankara/TR
11:40	Influence of the concentration in H ₂ O vapour of the high temperature oxidation of a chromia-forming nickel-based alloy P. Berthod, L. Aranda, S. Mathieu, M. Vilasi, University of Lorraine, Vandoeuvre-les-Nancy/F
12:00	High temperature corrosion investigations in an oxyfuel combustion test rig M. Montgomery, Vattenfall Thermal Engineering, Copenhagen/DK; M. Bjurman, A. Hjornhede, Vattenfall Research and Development, Stockholm/S; A. Findeisen, H.J. Krautz, BTU Cottbus/D
12:20	High-temperature oxidation resistance of FeCrAl and FeCrAl(Y, Pd, Pt, Hf, Y ₂ O ₃) alloys in oxygen-water vapor (47vol%) T. Amano, H. Ouchi, T. Shishido, K. Yubuta, Shonan Institute of Technology, Fujisawa/J
12:40-14:00	LUNCHTIME
Corrosion by Hot Gases and Combustion Products (WP 3) Room: SUN	
Chairs	Michael Schütze DECHEMA e.V., Frankfurt am Main/D
14:00	Corrosion of stainless steels in condensing flue gases R. Pettersson, A. Bergquist, Outokumpu Stainless, Avesta/S; J. Flyg, Swerea KIMAB, Stockholm/S
14:20	The influence of small amounts of KCl(s) and ZnCl ₂ (s) on the high temperature corrosion of a Fe-2.25Cr-1Mo steel at 300 and 400°C E. Larsson, J. Liske, T. Jonsson, Chalmers University of Technology, Göteborg/S
14:40	Corrosion performance of stainless steels in Na ₂ CO ₃ -V ₂ O ₅ -CaSO ₄ deposit S. Tuurna, VTT Technical Research Centre of Finland, Tampere/FIN; P. Pohjanne, VTT Technical Research Centre of Finland, Espoo/FIN; A. Silvonen, M. Turunen, Wärtsilä Oy, Vaasa/FIN; M. Kujansuu, Outokumpu Stainless Oy, Tornio/FIN
15:00	Factors affecting oxidation behaviour of heat-resistant alloys in petrochemical industries A. Al-Meshari, M. Al-Rabie, G. Van Zyl, SABIC Technology Centre, Jubail Industrial City/SAR
15:20	COFFEE BREAK
Corrosion by Hot Gases and Combustion Products (WP 3) Room: SUN	
Chairs	Michael Schütze DECHEMA e.V., Frankfurt am Main/D
15:50	Innovative aluminide slurry coatings produced in air for nickel-based alloys M. Galetz, X. Montero, M. Schütze, DECHEMA-Forschungsinstitut, Frankfurt/D
16:10	Aluminium-based corrosion inhibitors against sodium-induced hot corrosion in gas turbine environment E. Rocca, L. Aranda, A. Chiaravalle, University of Lorraine, Vandoeuvre-Les-Nancy/F; M. Moliere, GE Energy Product France, Belfort/F
16:30	High temperature oxidation behaviour of bulk MCrAlY and MCrAlY-hBN composite alloys fabricated by spark plasma sintering technique D. Oquab, CIRIMAT, Toulouse/F; N. Ratel-Ramond, CEMES, Toulouse/F; Y. Thebault, D. Monceau, C. Estournes, CIRIMAT, Toulouse/F
16:50-17:10	CORROSION BY HOT GASES AND COMBUSTION PRODUCTS BUSINESS MEETING (WP 3) ROOM: SUN

SCIENTIFIC LECTURE PROGRAMME



MONDAY • 10 SEPTEMBER

Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I	
Chairs	Philippe Marcus, EFC President, Ecole Nationale Supérieure de Chimie de Paris/F
	D. Persson
11:00	Experimental and computational studies of initial atmospheric corrosion <i>C. Leygraf, P. Qiu, H. Gil, KTH Royal Institute of Technology, Stockholm/S; J. Tidblad, Swerea KIMAB, Stockholm/S</i>
11:20	Surface structure and morphology in the early stages of sulfidation of silver in alkaline solution <i>V. Maurice, N. Li, L. Klein, P. Marcus, Chimie ParisTech - CNRS/F</i>
11:40	Study of the influence of microstructure on the electrochemical activity of copper <i>E. Martinez Lombardia, Free University of Brussels/B; L. Lapeire, University of Ghent/B; I. De Graeve, H. Terryn, Free University of Brussels/B; K. Verbeken, L. Kestens, University of Ghent/B</i>
12:00	Activation and inhibition of elementary dissolution reactions for Zn, Zn-Al and Zn-Al-Mg coatings in H ₃ PO ₄ and H ₂ TiF ₆ solutions <i>K. Ogle, L. Jiang, P. Volovitch, Chimie ParisTech/F; M. Wolpers, Henkel AG & Co. KGaA, Düsseldorf/D</i>
12:20	Influence of intermetallic compounds on corrosion behavior of Zn-Mg thin film <i>Y.J Kwak, T.Y Kim, D.Y Lee, K.H Nam, Y.H Jung, W.S Jung, M.J Eom, S.J Hong, POSCO, Gwangyang/ROK; Y.R Yoo, H.K Sohn, J.K Min, K.Y Kim, POMIA, Pohang/ROK</i>
12:40-14:00	LUNCHTIME
Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I	
Chairs	J.M.C. Arjan MolDelft University of Technology/NL
	H. Terryn Vrije Universiteit Brussel/B
14:00	The passive state of stainless steel surfaces under bacteria <i>P. Marcus, A. Seyeux, S. Zanna, CNRS - ENSCP Chimie ParisTech/F; A. Allion, Aperam Isbergues Research Center/F</i>
14:20	Influence of alloying elements on the passivity and repassivation of austenitic stainless steels <i>C. Vichytil, G. Mori, A. Umgeher, Montanuniversity of Leoben, Leoben/A; R. Fluch, Bohler Special Steels, Kapfenberg/A</i>
14:40	Study of a single pit evolution on 316L stainless steel <i>N. Aouina, CNRS, Paris/F; F. Balbaud-Célérier, CEA, Gif sur Yvette/F; F. Huet, S. Joiret, H. Perrot, CNRS, Paris/F; F. Rouillard, CEA, Gif sur Yvette/F; V. Vivier, CNRS, Paris/F</i>
15:00	Interpretation of the second anodic current peak on polarisation curves of stainless steel in H ₂ SO ₄ <i>F. Ruel, Ecole Nationale Supérieure des Mines de Saint-Etienne/F; P. Volovitch, Chimie ParisTech - CNRS/F; L. Peguet, A. Gaugain, Aperam R&D, Stainless Europe Research Center, Isbergues/F; K. Ogle, Chimie ParisTech - CNRS/F</i>
15:20	COFFEE BREAK
Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I	
Chairs	J.M.C. Arjan MolDelft University of Technology/NL
	H. Terryn Vrije Universiteit Brussel/B
15:50	Molybdenum and chromium depletion at grain boundaries in alloy 926 <i>R. Lackner, G. Mori, University of Leoben/A; M. Prohaska, BHDT GmbH, Kapfenberg/A; G. Tischler, R. Egger, voestalpine Grobblech GmbH, Linz/A</i>
16:10	Linear carboxylates as corrosion inhibitors from plant chemistry. Towards biomimetic surface treatments <i>E. Rocca, University of Lorraine, Vandoeuvre-Les-Nancy/F; D. Veys-Renaux, University of Lorraine, Vandoeuvre-Les nancy/F</i>
16:30	Effect of ionic contamination on corrosion reliability of printed circuit board assemblies <i>V. Verdingovas, M. Jellesen, R. Ambat, TU of Denmark, Kgs. Lyngby/DK</i>

MONDAY
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SEPTEMBER

16:50	Presence of nanolayers controlling the corrosion processes on iron based archaeological artefacts, detected by high spatial resolution Raman. TEM, STXM and nanoSIMS analyses.
	E. Drouet, D. Neff, J.-P. Gallien, E. Foy, CEA/CNRS, Gif/F; E. Leroy, ICMPE, Thiais/F; P. Dillmann, CEA/CNRS, Gif/F
Microbial Corrosion (WP 10) Room: FLAM	
Chairs	Turid Liengen Statoil ASA, Stavanger/NOR
11:00	BIOCOR ITN: a MIC-based research and training European network to answer industrial concerns
	R. Basseguy, CNRS - University of Toulouse/F
11:20	DNV - mitigating risks in the oil and gas industry
	E. Turcu, Det Norske Veritas, Bergen/N
12:00	Laboratory evaluation of the corrosivity of a bacterial consortium isolated from an offshore water injection system
	M. Stipanicev, F. Turcu, E. Loic, Det Norske Veritas, Bergen/N
12:20	Corrosion of carbon steel by microorganisms from the 'Pigging' operations debris in water injection pipelines
	C. Cote, O. Rosas, R. Basseguy, University of Toulouse/F
12:40-14:00	LUNCHTIME
Microbial Corrosion (WP 10) Room: FLAM	
Chairs	Turid Liengen Statoil ASA, Stavanger/NOR
14:00	Influence of respiratory substrate in carbon steel corrosion by a SRP model organism
	L. Dall'Agnol, L. Maia, M.G. Almeida, C.M. Cordas, J.J.G. Moura, New University of Lisbon, Caparica/P
14:20	Impact of sulphate reducers and extracellular polymeric substances on corrosion behaviour of low carbon steel in marine environment
	A. Wikiel, I. Datsenko, M. Vera, W. Sand, University of Duisburg-Essen/D
14:40	Oligonucleotide probes for detection of microbial genes implicated in biocorrosion in oil field environments
	M. Sztyler, J. Doma, I. Beech, V. Zinkevich, University of Portsmouth/UK
15:00	Framework model for under deposit corrosion in water injection pipelines
	C. Taxen, Swerea KIMAB, Stockholm/S; E.M. Melcher, University of Newcastle/AUS; I. Comanescu, Swerea KIMAB, Stockholm/S
15:20	COFFEE BREAK
Microbial Corrosion (WP 10) Room: FLAM	
Chairs	Turid Liengen Statoil ASA, Stavanger/NOR
15:50	Biocorrosion for underground disposal of radioactive waste: implications for the safe disposal of High Level Nuclear Waste
	M. Libert, M. Kerber Schutz, Atomic energy commission, Saint Paul lez Durance cedex/F
16:30	Microelectrochemical study of carbon steel biocorrosion mechanism by <i>Shewanella oneidensis</i> under the influence of H ₂ as electron donor.
	R. Leite de Souza Moreira, UPMC, Paris/F; M. Libert, CEA / DEN / DTN / SMTM / LMTE, Saint Paul de la Durance/F; B. Tribollet, V. Vivier, UPMC, Paris/F
16:50	Impact of Iron-Reducing Bacteria on the carbon steel corrosion: implications for the safe disposal of High Level Nuclear Waste
	M. Kerber Schutz, M. Libert, Atomic energy commission, Saint Paul lez Durance cedex/F; M.L. Schlegel, Atomic energy commission, Gif-sur-Yvette/F

	Pretreatments (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
09:45	Nanofilm segregations in localized corrosion of aluminium alloys K. Nisancioglu, Norwegian University of Science and Technology, Trondheim/N
11:00	Influence of oxide film properties on the interfacial bonding of epoxy-coated aluminium <u>Ö. Özkanat</u> , J.H.W. de Wit, J.M.C. Mol, TU Delft/NL; H. Terryn, Free University of Brussels/B
11:20	Ion mobility studies at Al ₂ O ₃ /polymer interfaces <u>B. Salgin</u> , M. Rohwerder, MPI for Iron Research GmbH, Düsseldorf/D
11:40	A correlation between the coating delamination and metal-coating interfacial bonding properties <u>P. Taheri</u> , TU Delft/NL; T. Hauffman, Free University of Brussels/B; J.R. Flores, F. Hannour, Tata Steel Research, IJmuiden/NL; J.H.W. de Wit, J.M.C. Mol, TU Delft/NL; H. Terryn, Free University of Brussels/B
12:00	Phosphating of zinc-magnesium-aluminium coatings: effect of the alloying elements on the phosphate layer and its performance <u>G. Luckeneder</u> , voestalpine Stahl Linz/A; M. Rohwerder, R. Krieg, P. Keil, A. Bashir, MPI for Iron Research GmbH, Düsseldorf/D
12:20	Initiation and growth of zr-based conversion coatings on multi-metal surfaces <u>J. Cerezo</u> , TU Delft/NL; I. Vandendael, Free University of Brussels/B; K. Lill, Henkel AG & Co KGaA, Düsseldorf/D; J.H.W. de Wit, J.M.C. Mol, TU Delft/NL; H. Terryn, Free University of Brussels/B
12:40-14:00	LUNCHTIME
	Pretreatments (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
14:00	Combination of chemical conversion with water-based nanoparticle coatings for the corrosion protection of magnesium alloys <u>W. Fürbeth</u> , B. Tigges, F. Feil, A. McSloy, DECHEMA Research Institute, Frankfurt am Main/D
14:20	SiO ₂ mesoporous thin films for controlled corrosion inhibitors delivery <u>I. Recloux</u> , University of Mons/B; Y. Paint, Materia Nova asbl, Mons/B; A. Baroni, University of Mons/B; A. Lanzutti, University of Udine/I; M.-G. Olivier, University of Mons/B
14:40	Application of phosphonic acids on plasma activated zinc alloys surfaces for improved corrosion and adhesion properties <u>K. Pohl</u> , O. Oezcan, University of Paderborn/D; M. Giza, ThyssenKrupp Steel Europe AG, Dortmund/D; G. Grundmeier, University of Paderborn/D
15:00	Corrosion protection of AA1050 by a modified Ce conversion coating W.I.A. Santos, J.L. Rossi, <u>I. Costa</u> , IPEN/CNEN-SP, Sao Paulo/BR
15:20	COFFEE BREAK
	Metallic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
15:50	High-throughput measurement of corrosion resistance of metal alloy thin film materials <u>T. Aljohani</u> , B.E. Hayden, D. Pletcher, Southampton University/UK; A. Anastasopoulos, Ilika Technologies Ltd., Southampton/UK
16:10	Comparison of corrosion and tribocorrosion behaviour of high phosphorous electroless Ni-P and DMAB reduced electroless Ni-B deposits <u>S. Eraslan</u> , TU Istanbul/TR; F. Tabatabaei, TU Isfahan, Isfahan/IR; H. Sesigür, Sisecam Glass Research Center, Istanbul/TR; M. Urgan, TU Istanbul, Istanbul/TR

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16:30	Corrosion resistance in different environments of Ni matrix micro- and nano- composite electrode- deposits
	<u>M. Lekka</u> , A. Lanzutti, A. Casagrande, P.L. Bonora, University of Udine/I; L. Fedrizzi, University of udine/I
16:50	Tribological and corrosion properties of Ni/TiO ₂ nanocomposite coatings
	<u>E. Garcia-Lecina</u> , I. Garcia-Urrutia, J.A. Diez, Fundacion CIDETEC, San Sebastian/E; E. Pellicer, J. Sort, Autonomous University of Barcelona/E
Task Force: CO₂-Corrosion in CCS-Applications Room: MARS	
Chairs	Ralph Bäßler BAM, Berlin/D
11:00	Dedicated nickel-based superalloys in ultra-supercritical coal-fired power plants: fireside corrosion
	<u>G. Stein-Brzozowska</u> , D. Florez, J. Maier, G. Scheffknecht, E. Miller, University of Stuttgart/D
11:20	Approaching the corrosion issues in post combustion carbon capture & storage
	<u>R. Stadler</u> , Alstom Thermal Power Steam CO ₂ Capture Systems, Mainz-Kastel/D; F. Kozak, Alstom Thermal Power Steam CO ₂ Capture Systems, Knoxville, TN/USA
11:40	Corrosion in amine post combustion capture plants
	<u>P. Pearson</u> , CSIRO Energy Technology, Melbourne/AUS; A. Cousins, CSIRO Energy Technology, Bris- bane/AUS; A.J. Cottrell, CSIRO Energy Technology, Newcastle/AUS; B. Duncombe, CSIRO Energy Technology, Brisbane/AUS; P.H.M. Feron, CSIRO Energy Technology, Newcastle/AUS; A.F. Hollen- kamp, CSIRO Energy Technology, Melbourne/AUS; S. Huang, CSIRO Energy Technology, Brisbane/ AUS; E. Meuleman, CSIRO Energy Technology, Melbourne/AUS
12:00	Electrochemical study of steel corrosion in MEA medium during CO ₂ capture
	<u>T. Urios</u> , M. Poelman, D. Lahem, Materia Nova ASBL, Mons/B; M-G. Olivier, University of Mons/B; S. De Vroey, Laborelec, Linkebeek/B
12:40-14:00	LUNCHTIME
Task Force: CO₂-Corrosion in CCS-Applications Room: MARS	
Chairs	Ralph Bäßler BAM, Berlin/D
12:20	Corrosion in post-combustion CO ₂ capture plants - comparisons between MEA30% and new pro- cesses
	<u>J. Kittel</u> , S. Gonzalez, E. Lemaire, L. Raynal, IFP Energies nouvelles, Solaize/F
14:00	Corrosion in dense phase CO ₂ with small amounts of SO ₂ , NO ₂ and water
	<u>A. Dugstad</u> , M. Halseid, B. Morland, Institute for Energy Technology, Kjeller/N; A.O. Sivertsen, Gass- co AS, Haugesund/N
14:20	Corrosion of steels in CO ₂ transport and storage environments
	<u>X. Zhang</u> , TNO, Den Helder/NL; J. Zevenbergen, TNO, Rijswijk/NL; M. Spruijt, T. Benedictus, TNO, Utrecht/NL
14:40	Corrosion of pipeline steels due to the condensation effects caused by SO ₂ and NO ₂ impurities in CO ₂
	<u>O. Yevtushenko</u> , R. Bäßler, BAM Federal Institute for Materials Research and Testing, Berlin/D; I. Car- rillo Salgado, Autonomous University of Baja California, Mexico/MEX
15:00	Corrosion fatigue of X46Cr13 at 60 °C exposed to CO ₂ -saturated geothermal brine
	A. Pfennig, <u>M. Wolf</u> , R. Wiegand, HTW University of Applied Sciences Berlin/D; C.-P. Bork, BAM Fede- ral Institute of Materials Research and Testing, Berlin/D
15:20-15:50	TASK FORCE: CO₂-CORROSION IN CCS-APPLICATIONS BUSINESS MEETING ROOM: MARS

SCIENTIFIC LECTURE PROGRAMME



MONDAY • 10 SEPTEMBER

15:20	COFFEE BREAK
	Corrosion in Oil & Gas Production (WP 13) Room: MARS
Chairs	Michel Bonis Total S.A., Pau/F
15:50	Hydrogen evolution in aqueous solution containing dissolved CO ₂ : impact of traces H ₂ S J. Kittel, IFP Energies nouvelles, Solaize/F; F. Ropital, IFP Energies nouvelles, Solaize/F; F. Grosjean, IFP Energies nouvelles, Solaize/F; E. Remita, Technip, Le Trait/F; E. Sutter, B. Tribollet, CNRS, Paris/F
16:10	Effect of buffer solution type on K _{ISSC} values of low alloy steel K. Kobayashi, T. Omura, Sumitomo Metal Industries, Ltd., Amagasaki/J; H. Amaya, Sumitomo Metal Industries, Ltd., Wakayama/J; S. Shademan, BP America Inc., Houston. TX/USA; J. Martin, BP Exploration Operating Co. Ltd., Sunbury/UK
16:30	Influence of H ₂ S / CO ₂ ratio on hydrogen charging in low alloy steels. C. Plennevaux, T. Cassagne, Total, Pau/F; M. Fregonese, B. Normand, Insa de Lyon, Villeurbanne/F; J. Kittel, F. Ropital, F. Grosjean, IFP Energies nouvelles, Solaize/F
16:50	Hydrogen permeation in pipeline steels E. Fallahmohammadi, F. Bolzoni, G. Fumagalli, G. Re, L. Lazzari, Polytechnic University of Milan/I
	Tribocorrosion (WP 18) Room: NEPTUNE
Chairs	Jean-Pierre Celis Katholieke Universiteit Leuven/B
11:00	Tribocorrosion of biocompatible titanium oxide films obtained by anodization F. Oliveira, L.A. Rocha, University of Minho, Guimaraes/P
11:20	Biotribocorrosion behaviour of CpTi and Ti-13Nb-13Zr alloy in simulated oral environment I. Golvano, W. Tato, G. Arruebarrena, A. Aginagalde, University of Mondragon/E
11:40	Corrosion and tribocorrosion behaviour of new Ti35Nb5Zr and Ti35Nb10Zr alloys in artificial saliva A.L. Ribeiro, L.G. Vaz, Sao Paulo State University, Araraquara/BR; L.A. Rocha, University of Minho, Guimaraes/P
12:00	Comparative tribocorrosion behaviour of untreated and surface modified Ti-6Al-4V alloy in bio-simulated fluid solution L. Benea, E. Mardare, University of Galati/RO; J.P. Celis, Catholic University of Leuven/B
12:40-14:00	LUNCHTIME
	Tribocorrosion (WP 18) Room: NEPTUNE
Chairs	Jean-Pierre Celis Katholieke Universiteit Leuven/B
14:00	Investigation on tribocorrosion behaviour of heat treated high phosphorus Ni-P electroless coatings F. Tabatabaei, TU Istanbul/TR; A. Saatchi, K. Raeissi, TU Isfahan/IR; M.K. Kazmanli, M. Urgan, TU Istanbul/TR
14:20	Tribocorrosion behavior of Co/CeO ₂ nanocomposite coatings in simulating body fluid solution L. Benea, University of Galati/RO; P. Ponthiaux, Ecole Centrale Paris/F; F.S. Sorcaru, University of Galati/RO; F. Wenger, Ecole Centrale Paris/F
14:40	Hybrid diffusive/PVD treatments to improve the tribo-corrosion resistance of titanium alloys E. Marin, R. Offoiach, A. Lanzutti, University of Udine/I; M. Regis, M. Pressacco, LimaCorporate, Villanova di San Daniele (UD)/I; L. Fedrizzi, University of Udine/I
15:00	Increasing the corrosion resistance of WC-Co based hardmetals by cathodic arc plasma treatment S.S. Akkaya, TU Istanbul/TR; E. Sireli, Böhler Sert Maden, Istanbul/TR; M.K. Kazmanli, M. Urgan, TU Istanbul/TR
15:20	COFFEE BREAK

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Tribocorrosion (WP 18) Room: NEPTUNE	
Chairs	Jean-Pierre Celis Katholieke Universiteit Leuven/B
15:50	Corrosion and tribocorrosion behaviour of AlSi9Cu3Mg-B ₄ C Composites in 0.05 M NaCl Solution <u>F. Toptan</u> , University of Minho, Guimaraes/P; I. Kerti, TU Yildiz, Istanbul/TR; L.A. Rocha, University of Minho, Guimaraes/P
16:10	Phosphonium ionic liquids used in tribology. A tribocorrosion study <u>F. Pagano</u> , R. Bayon, Fundacion Tekniker, Eibar/E; M. Kronberger, University of Ljubljana/SLO; N. Doerr, AC2T, Neustadt/A; A. Igartua, Fundacion Tekniker, Eibar/E
16:30	Electrochemical techniques for tribocorrosion investigations of polyurea greases <u>G. Tansug</u> , T. Tüken, M. Erbil, Cukurova University, Adana/TR
16:50	Morphological, tribological and electrochemical characterisation of coatings, deposited on ASTM 387 gr.22 steel <u>A. Lanzutti</u> , M. Lekka, E. Marin, A. Casagrande, L. Fedrizzi, University of Udine/I

	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
10:00	Challenges in multimetal pretreatment for automotive applications H. Terryn, Vrije Universiteit Brussel/B
10:40	Corrosion of organic coated structured sheet metals E. Kornienko, R. Ossenbrink, V. Michailov, BTU Cottbus/D
11:00-11:30	COFFEE BREAK
	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
11:30	Corrosion behavior of coated steel sheets exposed to the corrosive fuel environment Y. Song, C. Jung, G. Kim, POSCO, Incheon/ROK
11:50	Influence of superimposed mechanical loading on the susceptibility of aluminium alloys to alcohol corrosion in alcohol blended biofuels K. Bauer, G. Andersohn, TU Darmstadt/D; H. Kaufmann, Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt/D; T. Troßmann, TU Darmstadt/D
12:10	Monitoring techniques of hydrogen absorption into steel on automobiles in actual environments S. Ootsuka, Y. Sugimoto, S. Fujita, JFE Steel Corporation, Fukuyama, Hiroshima/J; E. Tada, A. Nishikata, T. Tsuru, Tokyo Institute of Technology/J
12:30	Hydrogen re-embrittlement of high strength steel with different zinc-containing topcoats T. Troßmann, C. Krauß, TU Darmstadt/D
12:50-14:00	LUNCHTIME
	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
14:00	New corrosion tests to study the influence of crevice gaps on automotive exhaust corrosion M. Yasir, U. Troeger, H. Wieser, Faurecia Emissions Control Technologies, Augsburg/D; G. Mori, Christian Doppler Laboratory of Localized Corrosion, Leoben/A
14:20	Short-time corrosion test for the evaluation of corrosion sensitivity of aluminum alloys for the automotive industry T. Troßmann, L. Yu, J. Grimm, K. Bauer, TU Darmstadt/D; H. Kaufmann, Fraunhofer LBF, Darmstadt/D
14:40	Towards a <i>green</i> generation of aluminium brazing sheet F. Norouzi Afshar, J.H.W. de Wit, TU Delft/NL; H. Terryn, Free University of Brussels/B; J.M.C. Mol, TU Delft/NL
15:00	Corrosion behaviour of cold worked CrNi and new Mn-alloyed metastable austenitic Steel Grades P. Seemann, WITg, Taegerwilen/CH; P. Guempel, Constance University of Applied Science/D
15:20-15:50	COFFEE BREAK
	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
15:50	Corrosion behaviour of AZ31 magnesium alloys produced by twin roll casting and direct chill casting G. Oktay Secgin, TUBITAK-MRC, Materials Institute, Kocaeli/TR; M. Urgen, TU Istanbul/TR

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16:10	ACES accelerated corrosion expert simulator C. Savell, GCAS Incorporated, San Marcos, CA/USA
16:30	Corrosion of metals in biodiesel blend B30 I. Annergren, A. Talus, Swerea KIMAB AB, Stockholm/S
Corrosion and Scale Inhibition (WP1) Room: GALAXY II	
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
10:00	Synergism caused by a blend of nitrite based inhibitors and vaccinium myrtillus plant extract on boiler steel in de-aerated weak acid A. Turhan, B. Karahan, Dokuz Eylul University, Izmir/TR; I. Ince, Argefar Research Centre, Izmir/TR; H. Ekinci, Gunsu A.S., Antalya/TR; A. Albayrak, A. Cakir, Dokuz Eylul University, Izmir/TR
10:40	<i>Schinopsis lorentzii</i> extract as a green corrosion inhibitor for low carbon steel in 1 M HCl solution H. Gerengi, H.I. Sahin, Duzce University/TR
11:00-11:30	COFFEE BREAK
Corrosion and Scale Inhibition (WP1) Room: GALAXY II	
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
11:30	Corrosion-inhibiting effect of Mimosa extract on brass-MM55 corrosion in 0.5 M H ₂ SO ₄ acidic media H. Gerengi, University of Duzce/TR; K. Schaefer, TU Gdansk/PL; H.I. Sahin, University of Duzce/TR
11:50	"Green" scale inhibitors K. Demadis, A. Ketsetzi, A. Tsistraki, I. Antonakaki, University of Crete, Heraklion/GR
12:30	Understanding corrosion inhibition mechanisms of two β-lactam antibiotics - a theoretical approach G. Gece, TU Bursa/TR; S. Bilgic, University of Ankara/TR
12:50-14:00	LUNCHTIME
Corrosion and Scale Inhibition (WP1) Room: GALAXY II	
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
14:00	Electrochemical testing of different corrosion inhibitors and their effect on copper pitting corrosion in drinking water T. Jentzsch, A. Becker, U. Ruhrberg, C.-L. Kruse, IWW Water Centre, Mülheim an der Ruhr/D; W. Hater, P. Schmidt, BK Giulini GmbH, Düsseldorf/D
14:20	An overview of localised corrosion inhibition and its evaluation Y. Tan, Deakin University, Geelong/AUS; M. Forsyth, B. Hinton, Deakin University, Melbourne/AUS
14:40	New corrosion inhibitors for evaporative cooling systems A. Wehlmann, W. Hater, BK Giulini GmbH, Düsseldorf/D; F. Wolf, R. Lunkenheimer, BK Giulini GmbH, Ludwigshafen/D; C. Foret, BKG France SAS, Vaas/F
15:20-15:50	COFFEE BREAK
Corrosion and Scale Inhibition (WP1) Room: GALAXY II	
Chairs	Günter Schmitt IFINKOR, Iserlohn/D
15:50	Electrochemical behavior and corrosion inhibition of zinc electrode in solutions of (NH ₄) ₂ SO ₄ containing Ce(IV) ions W. Hussein, Al-Azhar University, Cairo/ET; W. Ghanem, Central Metallurgical Research and Development Institute (CMRDI), Cairo/ET; E. Attia, Al-Azhar University, Cairo/ET
16:10	Investigation of corrosion problem in loops of direct contact air coolers system (DCAC) S. Al Subai, Saudi Basic Industries Corporation (SABIC), Jubail/SAR; A. Babakr, Saudi Basic Industries Corporation (SABIC), Houston, TX/USA

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16:30	Temperature effect, thermodynamic and DFT investigation of sulphathiazole as corrosion inhibitor at mild steel/hydrochloric acid interface
	<u>I.B. Obot</u> , University of Uyo/WAN; E.E. Ebenso, North-Western University, Mmabatho/ZA
16:50	Metal phosphonate anticorrosion coatings: insights on the corrosion inhibition mechanism at the molecular level
	K. Demadis, University of Crete, Heraklion/GR; <u>M. Papadaki</u> , University of Crete, Heraklion/GR; E. Barouda, University of Crete, Heraklion/GR
Corrosion in Oil & Gas Production (WP 13) Room: FLAM	
Chairs	Michel Bonis Total S.A., Pau/F
10:00	Sulfide stress cracking failure of valve equalising tube due manufacturing defect resulting in H ₂ S gas leak and shutdown of teg system unit
	<u>M. AlSaab</u> , S. Rao, Saudi Aramco, Dhahran/SAR
10:20	Sulfide stress cracking risk evaluation for CRA tubing during production shutdown.
	<u>Y. Gunaltun</u> , Total S.A, Abu Dhabi/UAE; S. Punpruk, PTTEP, Bangkok/THA; S. Daopiset, KMUTNB, Bangkok/THA
10:40	Sour service limits of high strength 15Cr martensitic stainless steel tubular material
	<u>B. Chambers</u> , Honeywell Corrosion Solutions, Houston, TX/USA; R. Kane, iCorrosion, LLC, Houston, TX/USA; J. Skogsberg, James Skogsberg Consultation, Houston, TX/USA; M. Kimura, Y. Miyata, K. Shimamoto, JFE Steel Corporation, Handa/J
11:00-11:30	COFFEE BREAK
Corrosion in Oil & Gas Production (WP 13) Room: FLAM	
Chairs	Michel Bonis Total S.A., Pau/F
	J.Kittel Lyon Direction Chimie et Physicochimie Appliquées Département Electrochimie et Matériaux
11:30	Role of MO on corrosion resistance of 13%Cr steels in sweet environments
	<u>M. Maruta</u> , N. Nisizawa, Waseda University, Tokyo/J; S. Hashizume, TenarisNKK Tubes, Tokyo/J; J. Sakai, Waseda University, Tokyo/J
11:50	Effect of stress level on the crevice corrosion induced SSC of super duplex stainless steel tubing exposed to H ₂ S/CO ₂ sour environment
	<u>P. Pohjanne</u> , VTT Technical Research Centre of Finland, Espoo/FIN; L. Scoppio, Pipe Team srl., Milano/I; P.I. Nice, Statoil ASA, Stavanger/N
12:10	Effect of organic acids on localised corrosion of super martensitic stainless steel in sweet corrosion environment
	<u>T. Sunaba</u> , H. Honda, INPEX CORPORATION, Tokyo/J; Y. Miyata, S. Asakura, Yokohama National University/J; T. Shinohara, National Institute for Materials Science, Tsukuba/J; T. Yakou, Yokohama National University, Yokohama/J; Y. Tomoe, INPEX CORPORATION, Tokyo/J
12:30	NACE method A SSC prediction and stress corrosion cracking of M13Cr-110 martensitic stainless steels
	<u>E. Caldwell</u> , S. Aylsworth, L. Jordan, A. Simsek, GATE Inc., Houston, TX/USA
12:50-14:00	LUNCHTIME
Corrosion in Oil & Gas Production (WP 13) Room: FLAM	
Chairs	Michel Bonis Total S.A., Pau/F
	J.Kittel Lyon Direction Chimie et Physicochimie Appliquées Département Electrochimie et Matériaux
14:00	Corrosion resistance of newly developed super 17Cr stainless steel for extreme high pressure high temperature wells
	<u>T. Ohe</u> , S. Nakatsuka, D. Matsuo, Y. Otome, H. Takabe, H. Amaya, Sumitomo Metal Industries, Ltd., Wakayama/J; T. Omura, Y. Tomio, K. Kondo, Sumitomo Metal Industries, Ltd., Amagasaki/J

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14:20	XPS analyses of the passive film formed on lean duplex stainless steels in marine and oilfield environments S. Aribo, University of Leeds/UK
14:40	Development of new duplex stainless steel for line pipe in slightly sour condition at elevated temperature D. Motoya, K. Yamada, S. Nakatsuka, H. Takabe, M. Hamada, H. Amaya, Sumitomo Metal Industries, Ltd., Wakayama/J; M. Sagara, K. Ogawa, Sumitomo Metal Industries, Ltd., Amagasaki/J
15:00	Mechanical properties and corrosion resistance of mechanical tubing of HPHT INCOLOY alloys 945 and 945X S. Mannan, Special Metals Corporation, Huntington, WV/USA
15:20-15:50	COFFEE BREAK
Corrosion in Oil & Gas Production (WP 13) Room: FLAM	
Chairs	Michel Bonis Total S.A., Pau/F
J.Kittel Lyon Direction Chimie et Physicochimie Appliquées Département Electrochimie et Matériaux	
15:50	The use of alloy 31 and alloy 59 as carcass materials for unbonded flexible pipelines, for highly sour applications L. Ke, C. Tavel-Condat, D. Marchand, Technip, Le Trait/F
16:10	Influence of shot peening on the fatigue life of steel armours in flexible pipes M. Rogowska, NKT Flexibles/TU of Denmark, Brøndby/DK; J. Gudme, A. Rubin, NKT Flexibles, Brøndby/DK; R. Ambat, K. Pantleon, TU of Denmark, Lyngby/DK
16:30	A comparison between welded- and seamless tubing for control lines and chemical injection lines W. He, G. Chai, Z. Zhou, Sandvik Materials Technology, Sandviken/S; R. McIntyre, Sandvik Materials Technology, Houston, TX/USA
16:50	Comparative investigation of 17-4ph CO ₂ corrosion behavior under different aging conditions M. Mohajer, M.H. Moayed, Ferdowsi University of Mashhad/IR
Corrosion in the Refinery Industry (WP 15) Room: NEPTUNE	
Chairs	François Ropital IFP Energies nouvelles, Solaize/F
10:00	Introduction to experimental methodology for evaluation of crude corrosivity - naphthenic acid and sulfidic corrosion B. Chambers, S. Srinivasan, Honeywell Corrosion Solutions, Houston, TX/USA; R. Kane, iCorrosion, LLC, Houston, TX/USA; M. Blades, Honeywell Corrosion Solutions, Houston, TX/USA
10:20	Naphthenic acid corrosion of sulfided carbon steel at high temperature: a combined AFM and ToF-SIMS approach M. Millet, A. Galtayries, A. Seyeux, L. Klein, Chimie ParisTech - CNRS/F; X. Roumeau, G. Morel, Total, Le Havre/F; P. Marcus, Chimie ParisTech - CNRS/F
10:40	Critical issues in refinery crude corrosivity assessment S. Srinivasan, B. Chambers, KM. Yap, Honeywell International, Inc, Houston, TX/USA
11:00-11:30	COFFEE BREAK
Corrosion in the Refinery Industry (WP 15) Room: NEPTUNE	
Chairs	François Ropital IFP Energies nouvelles, Solaize/F
11:30	On stream analysers improve crude unit corrosion control C. Claesen, Nalco, Antwerpen/B; N. Hilton, Nalco, Sugarland/USA

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11:50	Mechanisms of cracking of austenitic-ferritic microstructure steels in corrosive environment - case study <u>S. da Silva</u> , L.C. Candido, J.A.C.P. Gomes, Federal University of Rio de Janeiro/BR
12:10	Corrosion protection of oil storage tank tops application experience <u>E. Lyublinski</u> , Y. Vaks, Northern Technologies International Corporation, Beachwood/USA; <u>M. Schultz</u> , Petrobras, Rio de Janeiro/BR; <u>R. Singh</u> , Zerust, Rio de Janeiro/BR
12:30	Examination of "green" corrosion inhibitors and corrosion resistant alloys for the overhead of the crude oil distillation unit <u>A. Groysman</u> , Oil refineries Ltd. and ORT Braude, Karmiel/IL; <u>J. Penner</u> , Oil refineries Ltd., Haifa/IL; <u>L. Mizrahi</u> , ORT Braude, Karmiel/IL; <u>N. Brodsky</u> , Oil refineries Ltd., Haifa/IL
12:50-14:00	LUNCHTIME
Corrosion in the Refinery Industry (WP 15) Room: NEPTUNE	
Chairs	François Ropital IFP Energies nouvelles, Solaize/F
14:00	Guided wave testing for the detection of corrosion under insulation (CUI) in pipes and pipelines <u>A. Demma</u> , D. Alleyne, Guided Ultrasonics Limited, Brentford/UK
14:20	Selection of coatings for use in preventing corrosion under insulation <u>M. MeLampy</u> , Hi-Temp Coatings Technology, Acton, MA/USA; <u>P. Bock</u> , Hi-Temp Coatings Technology, Inc., Acton, MA/USA
14:40	Risk Based Inspection (RBI). Saudi Armco Refinery- case study <u>M.A. Bokhari</u> , Saudi Armco Refinery, Jeddah/SAR
15:00	Corrosion investigation of gas sweetening plant /case studies <u>Sh. Azadi</u> , South Zagros Oil&Gas Company, Shiraz/IR; <u>N. Deris</u> , South Pars Gas Complex, Assaluyeh/IR
15:20-15:50	COFFEE BREAK
Corrosion in the Refinery Industry (WP 15) Room: NEPTUNE	
Chairs	François Ropital IFP Energies nouvelles, Solaize/F
15:50	Evaluation of an electrochemical method to determine critical crevice corrosion temperatures <u>J. Flyg</u> , <u>M. Sparr</u> , Swerea KIMAB, Stockholm/S; <u>S. Hägg Mameng</u> , <u>R. Pettersson</u> , Outokumpu Stainless AB, Avesta/S
16:10	Corrosion behaviour of 617 and 625 alloys in PbCl ₂ - KCl <u>M. Golozar</u> , <u>A. Alfantazi</u> , University of British Columbia, Vancouver/CDN
16:30	Case studies of caustic gauging of boiler tubes <u>J. Zhang</u> , Sabic, Redcar/UK
16:50	New cooling system copper corrosion inhibitors improves sustainability, performance and reliability and reduces total cost of operation at Petrochemical plant in Europe <u>V. Bour Beucler</u> , NALCO Europe, Wasquehal/F
Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I	
Chairs	K.Ogle Ecole Nationale Supérieure Chimie Paris, ParisTech Physical Chemistry of Surfaces C.Leygraf KTH Royal Institute of Technology
10:00	Effect of surface contamination on the atmospheric corrosion of aluminium <u>O. Enegele</u> , <u>S. Lyon</u> , University of Manchester/UK
10:20	Effect of polypyrrole conformational rearrangements on Al alloys corrosion protection <u>E. Volpi</u> , <u>M. Trueba</u> , <u>S.P. Trasatti</u> , University of Milan/I

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10:40	Corrosion and stress corrosion cracking behaviour of 2050 aluminium-lithium alloy joined by friction stir welding (FSW)
	V. Proton, J. Alexis, E. Andrieu, G. Odemer, C. Blanc, University of Toulouse/F; J. Delfosse, EADS France IW, Suresnes/F
11:00-11:30	COFFEE BREAK
	Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I
Chairs	K.Ogle Ecole Nationale Supérieure Chimie Paris, ParisTech Physical Chemistry of Surfaces
	C.Leygraf KTH Royal Institute of Technology
11:30	Localised corrosion inhibition of AA2024 by cerium molybdate nanowires
	K.A. Yasakau, J. Tedim, University of Aveiro/P; M.F. Montemor, TU of Lisbon/P; M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro/P
11:50	A combined microstructural and local electrochemical evaluation of inhibitor-aluminum alloy interaction
	Y. Gonzalez-Garcia, J.M.C. Mol, TU Delft/NL; A.E. Hughes, T.H. Muster, CSIRO, Clayton South/AUS; H. Terryn, Free University of Brussels/B
12:10	pH-measurements on a steel-coating interface with micro-electrode
	M. Taryba, S.V. Lamaka, M.G.S. Ferreira, University of Lisbon/P; M.G.S. Ferreira, University of Aveiro/P
12:30	Cut-edge corrosion study on Al-rich metallic coated steel by local electrochemistry.
	A. Alvarez Pampliega, Free University of Brussels/B; S.V. Lamaka, M.G. Taryba, University of Lisbon/P; M. Madani, J. De Strycker, K. Van Den Bergh, OCAS N.V., ArcelorMittal Global R&D Ghent, Zelzate/B; M.G.S. Ferreira, University of Aveiro/P; H. Terryn, Free University of Brussels/B
12:50-14:00	LUNCHTIME
	Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I
Chairs	V.Maurice
	S.Lyon
14:00	Use of wire-beam multi-Electrode to examine coating heterogeneity and thus assist in understanding how it arises and can be improved
	D.J Mills, S.S. Jamail, University of Northampton/UK
14:20	Detection of acid release from reflow solder flux residues using localised test methods
	M. Jellesen, TU of Denmark, Kgs. Lyngby/DK
14:40	Study of corrosion inhibition by cerium species on AA1050 aluminium alloy by SKPFM
	F. Andreatta, University of Udine/I; M.E. Druart, University of Mons/B; E. Marin, University of Udine/I; M. Lekka, university of Udine/I; D. Cossement, Materia Nova asbl, Mons/B; M. Olivier, University of Mons/B; L. Fedrizzi, University of Udine/I
15:00	Oxidation of lanthanum precipitates in free-machining titanium alloys investigated by atomic force microscopy
	F. Depentori, DECHEMA Research Institute, Frankfurt am Main/D; J. Laukart, University of Braunschweig/D; S. Benfer, DECHEMA Research Institute, Frankfurt am Main/D; C. Siemers, University of Braunschweig/D; W. Fürbeth, DECHEMA Research Institute, Frankfurt am Main/D
15:20-15:50	COFFEE BREAK
	Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I
Chairs	V.Maurice
	S.Lyon
15:50	Dissolution behavior of recrystallised amorphous steels studied by a scanning flow cell coupled to mass spectrometry
	J. Lengsfeld, S.O. Klemm, J. Duarte, K.J.J. Mayrhofer, F.U. Renner, MPI for Iron Research, Düsseldorf/D

16:10	Local, quasi-simultaneous current density, pH and oxygen measurements using a pseudo-triple head stage
	<u>S. Lamaka</u> , M. Taryba, H.B. Xue, M.G.S. Ferreira, University of Lisbon/P
16:30	Surface-resolved electrochemical study of the galvanic effects between Copper and AA2024 alloy
	<u>A. Simoes</u> , Technical University of Lisbon, Lisboa/P; <u>Z. Panossian</u> , G.M. Bragagnolo, Institute for Technological Research, Sao Paulo/BR
16:50	Anodic films containing zirconia nanoparticles for corrosion protection of AA1050 aluminium alloy
	<u>E. Guerrini</u> , <u>S. Vallini</u> , <u>S.P. Trasatti</u> , University of Milan/I
Corrosion of Steel in Concrete (WP 11) Room: SUN	
Chairs	Michael Raupach RWTH Aachen University/D
10:00	An inverse analysis for detecting a distribution of impedance on rebar surface in concrete
	<u>K. Minagawa</u> , <u>K. Suga</u> , <u>M. Kikuchi</u> , Tokyo University of Science, Chiba/J
10:20	Effect of surface conditions on the corrosion behaviour of steel rebar in simulated concrete pore solution using impedance spectroscopy
	<u>H. Bensabra</u> , <u>N. Azzouz</u> , Jijel University/DZ
10:40	Chemical transformation of zinc passivating products after carbonation process
	<u>G. Roventi</u> , <u>T. Bellezze</u> , <u>R. Fratesi</u> , Marche Polytechnic University, Ancona/I
11:00-11:30	COFFEE BREAK
Corrosion of Steel in Concrete (WP 11) Room: SUN	
Chairs	Michael Raupach RWTH Aachen University/D
11:30	Steel corrosion resistance in model solutions and reinforced mortar containing wastes
	<u>D. Koleva</u> , <u>K. van Breugel</u> , TU Delft/NL
11:50	Corrosion performance of reinforced mortar in the presence of incorporated polymeric vesicles
	<u>J. Hu</u> , <u>D. Koleva</u> , <u>K. van Breugel</u> , TU Delft/NL
12:10	Behavior of carbon steel in simulated concrete pore solutions of air-entrained and conventional concrete
	<u>A. Araujo</u> , <u>Z. Zehbour</u> , <u>D. Filho</u> , <u>A. Junior</u> , IPT - Institute for Technological Research, Sao Paulo/BR
12:30	Corrosion of reinforcing steel in mortar samples modified by spent FCC catalyst and exposed to chloride containing environments
	<u>Y. Morozov</u> , <u>A.P Dias</u> , University of Lisbon/P; <u>A. Castela</u> , Polytechnic Institute of Setubal/P; <u>F. Montemor</u> , University of Lisbon/P
12:50-14:00	LUNCHTIME
Corrosion of Steel in Concrete (WP 11) Room: SUN	
Chairs	Michael Raupach RWTH Aachen University/D
14:00	Corrosion behaviour of steel reinforced mortars based on alkali activated materials
	<u>M.C. Bignozzi</u> , <u>S. Manzi</u> , <u>E. Tattini</u> , University of Bologna/I
14:20	Numerical study of an accelerated corrosion test in concrete
	<u>M.G Sohail</u> , <u>S. Laurens</u> , <u>F. Deby</u> , <u>J.P Balaýssac</u> , University of Toulouse/F

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14:40	Hybrid electrochemical repair to a concrete treatment tank in North Queensland, Australia I. Godson, J. Head, Infracorr Consulting Pty Ltd, Hawthorn East/AUS
15:00	Issues using potential decay techniques to assess a CP system of steel in concrete caused by macrocell corrosion R. Giorgini, CorrPRE Engineering, Waddinxveen/NL
15:20-15:50	COFFEE BREAK
	Cathodic Protection in Concrete (WP 16) Room: SUN
Chairs	Michael Raupach RWTH Aachen University/D Marcel Roche Le Mesnil-le-Roi/F
15:50	Design, installation and performance of cathodic protection systems on langeland bridge, Denmark R. Sorensen, J. Kok, COWI A/S, Kgs.Lyngby/DK; K. Riis, Danish Road Directorate, Copenhagen/DK
16:10	Cathodic protection of 8,000 m reinforced concrete edge beams on the Oeland Brigde in Sweden R. Sorensen, COWI A/S, Kgs.Lyngby/DK; J. Nyberg, 3C Corrosion Control Compagny AB, Landskrona/S; A. Maglica, Trafikverket, Jönköping/S
16:30	On the performance of carbon based conductive coatings used for cathodic protection of reinforced concrete structures C. Helm, M. Raupach, RWTH Aachen University/D
16:50	Hydrogen embrittlement of prestressed steel due to electrochemical protection: influential parameters F. Auder, L. Gaillet, University of Paris Est, Bouguenais/F; T. Chaussadent, V. Bouteiller, University of Paris Est/F; J.P. Balayssac, LMDC Toulouse/F
	Metallic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
10:00	Local electrochemical investigation of hot dip aluminium coatings on steel F. Andreatta, A. Lanzutti, E. Marin, University of Udine/I; I. Schoukens, Free University of Brussels/B; J. De Strycker, K. Van den Bergh, OCAS, Zelzate/B; L. Fedrizzi, University of Udine/I; H. Terry, Free University of Brussels, Brussel/B
10:20	Localised corrosion of brazed, clad aluminium sheet characterised using 3-D height-profiling SVET H.N. McMurray, J.E. Board, University of Swansea/UK; A. Howells, J. Hunter, Novelis, Kingston/CDN
10:40	All that glistens is not gold: bright Al-coatings from ionic liquids S. Zein El Abedin, F. Endres, TU Clausthal/D
11:00-11:30	COFFEE BREAK
	Metallic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
11:30	Corrosion protection and sustainability of thermally sprayed zinc based coating systems K. Bobzin, T. Warda, N. Kopp, C. Schulz, T. Ingendahl, W. Bleck, C. Heinemeyer, M. Feldmann, RWTH Aachen University/D; B. Poller, Salzgitter Mannesmann Forschung GmbH/D
11:50	Evaluation of Zn based composite coatings M. Pazderova, L. Diblikova, VZLU - Aerospace Research and Test Establishment, Prague/CZ; J. Kudlacek, TU of Czech, Prague/CZ

12:10	Effect of plasma nitriding of electroplated chromium coatings on the corrosion protection AISI 1010 steel
	<u>M. Kocabas</u> , N. Cansever, TU Yildiz, Istanbul/TR
12:30	Electrodeposition of Cu-Sn alloy with Cu-graphite anodes
	<u>S. Xing</u> , C. Zanella, F. Deflorian, University of Trento/I
12:50-14:00	LUNCHTIME
	Inorganic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
14:00	Electrochemical behavior of plasma electrolytic oxidised WE43 and Elektron 21 magnesium alloys
	<u>M. Atagür</u> , Izmir Katip Celebi University/TR; K.C. Tekin, U. Malayoglu, Dokuz Eylul University, Izmir/TR; S. Shrestha, Keronite International Ltd, Cambridge/UK
14:20	Corrosion resistant coatings on AZ31 magnesium alloy
	<u>M. Bestetti</u> , A. Da Forno, Polytechnic University of Milan/I; S.P. Trasatti, M. Trueba, University of Milan/I
14:40	Low energy-consuming plasma electrolytic oxidation (PEO): from fundamental mechanisms to potential applications
	<u>D. Veys-Renaux</u> , E. Rocca, Z. Ait El Haj, T. Vu, University de Lorraine, Vandoeuvre les Nancy/F
15:00	Short and long term evaluation of the degradation behaviour of Mg-1Ca magnesium alloys with combined coating systems
	<u>P. Rosemann</u> , University of Magdeburg/D; J. Schmidt, Innovent e.V. Technology Development, Jena/D; A. Heyn, BAM Federal Institute for Materials Research and Testing, Berlin/D
15:20-15:50	COFFEE BREAK
	Inorganic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
15:50	On the use of sol-gel/nanoclay hybrid coating as an effective protection against corrosion for galvanized steel
	<u>M. Poelman</u> , Materia Nova Research Centre, Mons/B; C. Vandermiers, University of Mons/B; C. Motte, Materia Nova Research Centre, Mons/B; M. Zago, M. Fedel, University of Trento/I; M.-G. Olivier, University of Mons/B; F. Deflorian, University of Trento/I
16:10	Hydrophobic silane-zeolite coatings for corrosion protection of aluminium substrate
	<u>L. Calabrese</u> , L. Bonaccorsi, A. Capri, E. Proverbio, University of Messina/I
16:50-17:10	INORGANIC COATINGS BUSINESS MEETING (WP 14) GALAXY III
	Microbial Corrosion (WP 10) Room: KUBBE
Chairs	Judit Telegdi Hungarian Academy of Sciences, Budapest/HU
10:00	Antifouling strategies and corrosion control in cooling circuits
	P. Cristiani, RSE-Ricerca sul Sistema Energetico SpA, Milan/I
10:40	Developing of corrosion products on 70Cu-30Ni in natural seawater environment
	<u>M. Carvalho</u> , Ricerca sul Sistema Energetico - RSE S.p.A., Milano/I; A. Seyeux, S. Zanna, Chimie ParisTech - CNRS/F; B. Tribollet, Université Pierre et Marie Curie, Paris/F; P. Marcus, I. Frateur, Chimie ParisTech - CNRS/F; P. Cristiani, Ricerca sul Sistema Energetico - RSE S.p.A., Milano/I
11:00-11:30	COFFEE BREAK
	Microbial Corrosion (WP 10) Room: KUBBE
Chairs	B. Tribollet
11:30	Bacterial adhesion on metal oxide surfaces in presence of a PEO-PPO-PEO triblock copolymer
	<u>Y. Yang</u> , P. Rouxhet, Catholic University of Leuven/B; J. Telegdi, Hungarian Academy of Sciences, Budapest/H; C. Dupont-Gillain, Catholic University of Leuven/B

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11:50	Polymer barrier layers against the corrosion of copper and copper alloys <u>L. Romanschki</u> , Z. May, J. Telegdi, L. Nyikos, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest/H
12:10	Influence of biomolecules adsorption on the oxide layers developed on 70Cu-30Ni alloy <u>B. Torres Bautista</u> , A. Seyeux, S. Zanna, Chimie ParisTech/F; B. Tribollet, University Pierre et Marie Curie, Paris/F; I. Frateur, P. Marcus, Chimie ParisTech/F
12:30	Anaerobic microbial influenced corrosion <u>P. Beese</u> , H. Venzlaff, MPI for Iron Research GmbH, Düsseldorf/D; D. Enning, MPI for Marine Microbiology, Bremen/D; K.J.J. Mayrhofer, MPI for Iron Research GmbH, Düsseldorf/D; F. Widdel, MPI for Marine Microbiology, Bremen/D; M. Stratmann, MPI for Iron Research GmbH, Düsseldorf/D
12:50-14:00	LUNCHTIME
	Microbial Corrosion (WP 10) Room: KUBBE
Chairs	J. Moura
14:00	EPS mediate biocorrosion? W. Sand, Universität Duisburg-Essen/D
14:40	Manganese oxidising bacteria: attachment pattern, EPS composition and influence on steel corrosion <u>C. Thyssen</u> , A. Kuklinski, University of Duisburg-Essen/D; D. Holuscha, W. Fürbeth, DECHEMA Research Institute, Frankfurt am Main/D; W. Sand, University of Duisburg-Essen/D
15:00	Corrosion protection for metals by analogues of extracellular polymeric substances <u>A. Kuklinski</u> , C. Thyssen, M. Pannekens, University of Duisburg-Essen/D; D. Holuscha, W. Fürbeth, DECHEMA Research Institute, Frankfurt am Main/D; W. Sand, University of Duisburg-Essen/D
15:20-15:50	COFFEE BREAK
	Microbial Corrosion (WP 10) Room: KUBBE
Chairs	I. Beech
15:50	Issues for storing alternative fuels J.S. Lee, R.I. Ray, <u>B.J. Little</u> , Naval Research Laboratory, Stennis Space Center, MS/USA; K.E. Duncan, D.F. Aktas, A.L. Oldham, I.A. Davidova, J.M. Sufliita, University of Oklahoma, Norman, OK/USA
16:10	Nanopit initiation at MnS nano-inclusions on carbon steel exposed to anaerobic bacterium <i>D. alkanexedens</i> B.H. Davis, Z. Suo, K. Lucas, L. Loetterle, Montana State University, Bozeman, MT/USA; I. Beech, University of Oklahoma, Norman, OK/USA; D. Paul, Physical Electronics, Chanhassen, MN/USA; <u>R. Avci</u> , Montana State University, Bozeman, MT/USA
16:30	A long-term study of the influence of microbiology on the topography of corroding mild steel in coastal seawater <u>R. Jeffrey</u> , R.E. Melchers, University of Newcastle/AUS
16:50	The relative influence of microbiological and abiotic processes in modelling longer-term marine corrosion of steel R.E. Melchers, University of Newcastle/AUS
	Workshop on Aerospace Corrosion Room: GAMMA
Chairs	T.Hack
10:00	Active protection approaches for aircraft materials M. Zheludkevich, University of Aveiro, Aveiro/P
10:20	Nanocontainer based selfhealing coating D. Shchukin, MPI für Kolloid- und Grenzflächenforschung, Potsdam/D
10:40	Advances in chrome free corrosion inhibiting coating technology for the protection of aluminum P. Visser, AkzoNobel Aerospace Coatings B.V., Sassenheim/NL
11:00-11:30	COFFEE BREAK

SCIENTIFIC LECTURE PROGRAMME



T U E S D A Y • 11 S E P T E M B E R

Workshop on Aerospace Corrosion Room: GAMMA	
Chairs	T.Hack
11:30	Hybrid coatings for corrosion protection of aeronautical parts against runway de-icing chemicals J. Nikkola, VTT Technical Research Centre of Finland, Tampere/FIN; E. Huttunen-Saarivirta, Tampere University of Technology, Tampere/FIN; J. Mannila, VTT Technical research centre of Finland, Tampere/FIN; P. Sorsa, Millidyne Ltd., Tampere/FIN; J. Siivinen, VTT Technical research centre of Finland, Tampere/FIN; H. Paajanen, Finnish Air Force, Tampere/FIN
11:50	Combining first-principles guided multiscale modeling and experiments for understanding localized corrosion in aerospace alloys J. Osborne, Boeing Research & Technology, Seattle/USA
12:10	An inhibitor atlas A. Hughes, I.S. Cole, P.A. White, CSIRO Materials Science and Engineering, Melbourne/AUS; T.A. Markley, T.H. Muster, Boeing Research & Technology, Seattle/USA; S.H. Hardin, P. Corrigan, CSIRO Materials Science and Engineering, Melbourne/AUS; J. Osborne, Boeing Research & Technology, Seattle/USA
12:30	Lithium and zirconium salts as potential substitute for chromium conversion coating A. Acquesta, T. Monetta, M. Montuori, V. Maresca, R. Signore, F. Bellucci, University of Naples - Federico II, Napoli/I
12:50-14:00	LUNCHTIME
Workshop on Aerospace Corrosion Room: GAMMA	
Chairs	T.Hack
14:00	Comparison of chromate and chromate-free pre-treatments of aluminium AA 2024, unclad G. Eich, B. Neumann, K. Kranzeder, Bundeswehr Research Institute for Materials Fuels and Lubricants, Erding/D
14:20	Comparative study of alternatives to cadmium plating technology in aircraft industry M. Garcia-Rubio, Airbus Operations S.L., Getafe/E; D. Collins, D. Dixon, Airbus Operations Ltd., Bristol/UK
14:40	Is the cold spray a technology of potential application in aerospace? F. Bellucci, M. Montuori, A. AstraS, A. Spuillace, University of Naples - Federico II, Naples/I
15:00	Definition of the actual environments promoting corrosion in and external to airframes I. Cole, A.E. Hughes, CSIRO Materials Science and Technology, Melbourne/AUS
15:20-15:50	COFFEE BREAK
Workshop on Aerospace Corrosion Room: GAMMA	
Chairs	T.Hack
15:50	Galvanic corrosion and protection in CFRP-metal combinations monitored by SVET S. Kallip, A.C. Bastos, S.O. Udochukwu, M.L. Zheludkevich, M.G.S. Ferreira, University of Aveiro, Aveiro/P
16:10	Inorganic nanocapsules as carriers in ζ smart ζ coating for aerospace applications J. Tedim, F. Maia, M.L. Zheludkevich, A.N. Salak, A. Lisenkov, M.G.S. Ferreira, University of Aveiro, Aveiro/P
16:30	Optical sensor for corrosion detection in aircrafts J.C.S. Fernandes, TU Lisbon, Lisbon/P; P.G. Venancio, OGMA, Alverca/ PL and TU Losbon, Lisbon/P
16:50	Influence of PWHT on the corrosion behavior and fatigue performance of 6xxx Al alloy laser beam welded joints A. Zervaki, A.T. Kermanidis, G.N. Haidemenopoulos, University of Thessaly, Volos/GR; A.N. Chamos, Sp.G. Pantelakis, University of Patras, Patras/GR
CATHODIC PROTECTION (WP 16) ROOM: MARS	
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
10:00-12:50	CATHODIC PROTECTION BUSINESS MEETING (WP 16) ROOM: MARS
17:10-19:00	POSTER PARTY / POSTER DISCUSSION (EXHIBITION AREA: VALENTIN ROOM)

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	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
10:00	Aluminium alloys - light and strong: present scenario and future perspectives R. Ambat, Technical University of Denmark, Lyngby/DK
10:40	Relation between corrosion rate, corrosion products, and exposure site on zinc in road environment S. Jonsson, <u>M. Jönsson</u> , B. Rendahl, Swerea KIMAB, Stockholm/S
11:00-11:30	COFFEE BREAK
	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
11:30	Corrosion performance of Zn-Mg-Al coated steel in accelerated corrosion tests used in the automotive industry <u>N. LeBozec</u> , D. Thierry, French Corrosion Institute, Brest/F; A. Peltola, Ruukki Metals, Hämeenlinna/FIN; L. Luxem, S. Reiter, Thyssen Krupp Steel Europe, Dortmund/D; G. Luckeneder, voestalpine, Linz/AUS; G. Marchiaro, Centro Ricerche Fiat, Torino/I; R. Krieg, M. Rohwerder, MPIE, Düsseldorf/D
11:50	Corrosivity of road tunnel microclimate <u>K. Kreislova</u> , H. Geiplova, SVUOM Ltd., Prague/CZ; R. Licbinsky, CDV, Brno/CZ; P. Zak, TU of Czech, Prague/CZ
12:10	Corrosive effects of potassium formate as de-icing compound on automotive materials <u>J. Aromaa</u> , A. Stefanova, Aalto University, Espoo/FIN; T. Nissinen, Kemira Oyj, Tampere/FIN
12:30	Corrosion resistant metallate conversion coatings based on Yttrium complex implemented at Daimler Trucks North America <u>E. Morris</u> , DEFT, Irvine, CA/USA; A. Moody, A. Plaxton, Daimler Trucks North America, Gastonia, NC/USA
12:50-14:00	LUNCHTIME
	Automotive Corrosion (WP 17) Room: DELTA
Chairs	Fouzia Hannour Tata Steel Research Development & Technology, Ijmuiden/NL
14:00	Impact of mechanical load characteristics on corrosion fatigue behaviour of aluminium alloys for chassis components <u>K. Bauer</u> , L. Yu, TU Darmstadt/D; H. Kaufmann, Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt/D; T. Troßmann, J. Grimm, TU Darmstadt/D
14:20	Accelerated evaluation of the susceptibility of aluminium alloys to corrosion fatigue in de-icers using varying load waveforms <u>L. Yu</u> , T. Troßmann, J. Grimm, K. Bauer, TU Darmstadt/D; H. Kaufmann, Fraunhofer LBF, Darmstadt/D
15:40-16:10	COFFEE BREAK
15:00-17:30	AUTOMOTIVE CORROSION BUSINESS MEETING (WP17) ROOM: DELTA
	Cathodic Protection (WP 16) Room: SUN
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
10:00	New magnesium sacrificial anodic materials V. Kechin, Vladimir State University/RUS; <u>E. Lyublinski</u> , Northern Technologies International Corporation, Beachwood/USA
10:20	Experience of short-term testing for indium activated aluminum alloy sacrificial anodes N.N. Glazov, <u>A.V. Goncharov</u> , D.S. Sirota, Gazprom VNIIGAZ, Moscow/RUS; H.L. Tan, Cathodic Protection Technology, Johor/MAL

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10:40	Study on corrosion protection of Al-Zn-In-Mg-Ti anode materials for vehicle in marine <u>Y.B Huang</u> , D.G Liu, L.S Zhong, Academy of Armored Forces Engineering, Beijing/PRC
11:00-11:30	COFFEE BREAK
	Cathodic Protection (WP 16) Room: SUN
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
11:30	Cathodic protection for jetties <u>Z. Ronafalvi</u> , Corrocont Ltd., Budapest/H
11:50	Impressed current cathodic protection system for internal corrosion protection of seawater plant piping <u>M.S. Al Jaber</u> , A. Al Busaedi, A. Ur Rahman, Zakum Development Company (ZADCO), Abu Dhabi/UAE
12:10	Corrosion integrity management of cathodically protected structures using remote monitoring and modelling <u>G. Pimenta</u> , ISQ - Laboratório de Materiais, Tagus Park Oeiras/P; P. Resende, CIRES Companhia Industrial de Resinas Sintéticas, Estarreja/P
12:30	Effects of over protection on the coatings of submerge mild steel pipelines <u>B. Edward</u> , Federal University of Petroleum Resources Effurun/WAN; D. Aluko, A. Onabanji, Federal Poly., Idah/WAN
12:50-14:00	LUNCHTIME
	Cathodic Protection (WP 16) Room: SUN
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
14:00	A hidden corrosion threat on natural gas pipelines in metropolises: undetected pipeline polyethylene coating Damages <u>C. Ozarpa</u> , <u>O.A. Engin</u> , Istanbul Gas Distribution Company (IGDAS)/TR
14:20	Effectiveness of cathodic protection system for buried flow lines piping inside the gathering centers by using continuous linear anodes <u>H. Sabri</u> , S. Al-Sulaiman, A. Al-Mithin, Kuwait Oil Company, Ahmadi/KWT
14:40	Finite element method (fem) application on cathodic protection system design for underground buried steel pipelines <u>K. Karadag</u> , T. Aktar, KORTEK Engineering & Consultancy Co. Ltd., Ankara/TR
15:00	An efficient algorithm for considering voltage drop in a cathodic protection simulation for large pipeline networks <u>M. Behbahani-Nejad</u> , M. Changizian, Shahid Chamran University, Ahvaz/IR
15:20	External corrosion direct assessment of a 30 inches gas transmission pipeline <u>M. Javidi</u> , Shiraz University/IR; <u>R. Omid</u> , Arya-SGS Quality Control Services, Shiraz/IR; F. Jamilzadeh, South Zagros Oil and Gas Company, Shiraz/IR
15:40-16:10	COFFEE BREAK
	Cathodic Protection (WP 16) Room: SUN
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
16:10	Evolution of cathodic protection certification <u>A. Grolleau</u> , DCNS Research, Cherbourg-Octeville/F
16:30	Finding a solution for designing an optimum cathodic protection system for an existing tank farm <u>M. Khosravi</u> , Technico, Tehran/IR; Sh. Meery, Atlas Energy Technology, Tehran/IR

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16:50	The soil-side corrosion of the crude oil tank bottoms on oily sand tank pads <u>X. Yu</u> , Saudi Aramco, Ras Tanura/SAR; T. Whited, Cortec Corporation, St. Paul, MN/USA; R. Tems, Saudi Aramco, Ras Tanura/SAR
17:10	Failure analysis of a caustic tank bottom protected by impressed current cathodic protection F. Alanazi, SABIC, Jubail/SAR
Refinery Industry Business Meeting (WP 15) Room: Neptune	
Chairs	François Ropital IFP Energies nouvelles, Solaize/F
10:00-17:30	REFINERY INDUSTRY BUSINESS MEETING (WP 15) ROOM: NEPTUNE
Corrosion in Oil & Gas Production (WP 13) Room: GALAXY II	
Chairs	Michel Bonis Total S.A., Pau/F / M. Achour
10:00	Corrosion scale formation on iron in CO ₂ solutions J. Lapinski, G. Joshi, A.B. Cook, D.L. Engelberg, <u>R. Lindsay</u> , University of Manchester/UK; S.S. Shademan, R.C. Woollam, BP America, Houston, TX/*
10:20	pH prediction in concentrated aqueous solutions under high pressure and high temperature. <u>C. Plennevaux</u> , T. Cassagne, M. Bonis, Total, Pau/F; M. Fregonese, B. Normand, Insa de Lyon, Villeurbanne/F; J. Kittel, F. Ropital, IFP Energies nouvelles, Solaize/F; N. Ferrando, IFP Energies nouvelles, Rueil-Malmaison/F
10:40	Investigation of tubing failures in oil production due to tribocorrosion <u>N. Zwazl</u> , S. Ilo, E. Badisch, AC ² T research GmbH, Wiener Neustadt/A; R. Sonnleitner, voestalpine Tubulars GmbH & Co KG, Kindberg-Aumühl/A; G. Zehethofer, OMV Exploration & Production GmbH, Gänserndorf/A
11:00-11:30	COFFEE BREAK
Corrosion in Oil & Gas Production (WP 13) Room: GALAXY II	
Chairs	Michel Bonis Total S.A., Pau/F / M. Achour
11:30	Internal corrosion of sales gas pipelines A. Sherik, Saudi Aramco, Dhahran/SAR
11:50	Material selection in high CO ₂ environment <u>M. Che Ismail</u> , Technical University PETRONAS, Perak/MAL; S. Nestic, M. Singer, Ohio University, Athens, OH/USA
12:10	Inhibition of CO ₂ corrosion of X52 steel at high CO ₂ pressure and high temperature <u>A.H. Mustafa</u> , TU PETRONAS, Seris Iskandar/MAL; Bambang. A Wahjoedi, Mokhtar.C. Ismail, TU PETRONAS, Seri Iskandar/MAL
12:30	Corrosion inhibiting of an environment friendly water base acrylic terpolymer in hydrodynamic condition on mild steel in petroleum solution A. Davoodi, G.A. Farzi, <u>M. Vakili</u> , Sabzevar Tarbiat Moallem University/IR
12:50-14:00	LUNCHTIME
Corrosion in Oil & Gas Production (WP 13) Room: GALAXY II	
Chairs	Michel Bonis Total S.A., Pau/F / M. Achour
14:00	Inhibitor performance testing at high temperatures <u>A. Palencsar</u> , Institute for Energy Technology, Kjeller/N; E. Gulbrandsen, Kværner AS, Oslo/N; K. Kosoru, Intecha, Ltd., Prague/CZ
14:20	Corrosion inhibition of carbon steel in oil wells formation water using a new family of non ionic surfactants based on tolyltriazole M. Migahed, Egyptian Petroleum Research Institute, Cairo/ET

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14:40	The derivatives of nitronic acids as effectiveness corrosion inhibitors and bactericides <u>L.I. Aliyeva</u> , V.M. Abbasov, S.J. Hajiyev, E.E. Gasymov, N.S. Ahmedov, National Academy of Sciences of Azerbaijan, Baku/AZ
15:00	Quantification of mechanical damage in erosion-corrosion degradation of X65 pipeline materials using acoustic emission technique <u>J.I. Ukpai</u> , X. Hu, A. Neville, University of Leeds/UK
15:20	Non intrusive corrosion-erosion monitoring for subsea applications G. Instanes, ClampOn AS, Bergen/N
15:40-16:10	COFFEE BREAK
	Corrosion in Oil & Gas Production (WP 13) Room: GALAXY II
Chairs	Michel Bonis Total S.A., Pau/F / M. Achour
16:10	Correlation between MIC and water quality, pigging frequency and biocide dosing in oil field water injection pipelines <u>I. Comanescu</u> , Swerea KIMAB AB, Stockholm/S; E.R. Melchers, University of Newcastle/AUS; C. Taxen, Swerea KIMAB AB, Stockholm/S
16:30	Poor separation led to knockout drum base metal failure <u>M. Al-Hammad</u> , H. Nass, Saudi Aramco, Udhailiyah/SAR
16:50	Corrosion protection of flanges, valves and welded joints application experience <u>E. Lyublinski</u> , Y. Vaks, M. Posner, T. Natale, Northern Technologies International Corporation, Beachwood/USA; M. Schultz, Petrobras, Rio de Janeiro/BR; R. Singh, Zerust, Rio de Janeiro/BR
17:10	Synergistic inhibition behavior of an imidazoline derivative and halide ions during CO ₂ corrosion on carbon steel M. Heydari, <u>M. Javidi</u> , Shiraz University/IR
	Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I
Chairs	Alda Simoes Instituto Superior Tecnico, Lisboa/PT R.Ambat
10:00	Trend removal in electrochemical noise measurements and an in situ application <u>A.M. Homborg</u> , Royal Netherlands Navy, Naval Maintenance and Sustainment Agency, Den Helder/NL; X. Zhang, G.M. Ferrari, TNO Maritime Materials Performance Centre, Den Helder/NL; E. van Westing, Materials Innovation Institute (M2i), Delft/NL; T. Tinga, Netherlands Defence Academy, Den Helder/NL; J.M.C. Mol, J.H.W. de Wit, TU Delft/NL
10:20	Corrosion behaviour of swirl tubes in power plant heat exchangers <u>R. Feser</u> , R. Buschmann, University of Applied Sciences South Westphalia/D; A. Gahl, MPG Mendenner Präzisionsrohr GmbH, Menden/D; R. Numrich, University of Paderborn/D; W. Czolkoss, VGB, Essen/D
10:40	Evaluation of seawater corrosion behaviour of selected metallic samples by electrochemical noise measurements M. Mitoraj, <u>M. Jez</u> , M. Jakubowska, B. Bas, E. Godlewska, AGH University of Science and Technology, Krakow/PL
11:00-11:30	COFFEE BREAK
	Corrosion Mechanisms & Methods (WP 6) Room: GALAXY I
Chairs	Alda Simoes Instituto Superior Tecnico, Lisboa/PT R.Ambat
11:30	Initial SO ₂ -induced atmospheric corrosion of ZnAlMg coated steel studied with in situ infrared reflection absorption spectroscopy <u>D. Persson</u> , Swerea KIMAB, Stockholm/S; T. Prosek, N. LeBozec, D. Thierry, Institut de la Corrosion, Brest/F
11:50	The changing composition of the corrosion products of mild steel in severe marine atmospheres <u>R. Jeffrey</u> , R.E. Melchers, University of Newcastle/AUS

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12:10	Corrosion of steel in carbonated media: the oxidation process of chukanovite I. Azoulay, C. Remazeilles, Ph. Refait, University of La Rochelle/F
12:30	Oxidation, pickling and over-pickling mechanisms of a silicon high alloyed steel grade A. Alaoui Mouayd, E. Sutter, B. Tribollet, Pierre and Marie Curie University (UPMC), Paris/F; A. Koltsov, ArcelorMittal Maizieres Research, Maizieres-les-Metz/F
12:50-14:00	LUNCHTIME
	Workshop on Marine Renewable Energy Room: GALAXY I
Chairs	L.R. Hilbert / P.Demt
14:00	Corrosion control inside offshore wind farm monopile foundations L. Hilbert, A. Black, T. Mathiesen, FORCE Technology, Brøndby/DK; H. Osvoll, FORCE Technology, Trondheim/N
14:20	Protective coatings for offshore wind farms O. Knudsen, SINTEF, Trondheim/N; H. Schnars, Fraunhofer IWES, Bremerhaven/D; H. v.d. Mijle Meijer, TNO, Den Helder/NL
14:40	Coatings for protection of boat landings against corrosion and wear A. Bjorgum, O.O. Knudsen, S. Equey, SINTEF Materials and Chemistry, Trondheim/N; A.P. Bastiko, NTNU, Trondheim/N
15:00	Corrosion of laser welded sandwich steel panels in seawater J. Aromaa, J. Jelovica, O. Forsén, Aalto University, Espoo/FIN
15:20	Zinc, Aluminium and their alloys used as an environmental friendly coating preserving natural resources with a low carbon footprint F. van Rodijnen, Sulzer Metco Europe GmbH, Kelsterbach/D
15:40-16:10	COFFEE BREAK
	Marine Corrosion
Chairs	Ulf H. Kivisäkk AB Sandvik Materials Technology, Sandviken/S
16:10- 17:30	MARINE CORROSION BUSINESS MEETING WP 9 ROOM: GALAXY I
	Corrosion of Archaeological and Historical Artefacts (WP 21) Room: JUPITER
Chairs	Philippe Dillmann CEA Saclay, Gif-sur-Yvette/F
16:10	Study of the influence of minor elements phosphorus and sulphur on atmospheric corrosion of ancient ferrous samples M. Bouchar, E. Foy, J.P. Gallien, D. Neff, P. Dillmann, CEA Saclay, Gif sur Yvette/F
16:30	Selective corrosion process of archaeological steel and cast iron in seawater studied by SEM and EBSD C. Remazeilles, I. Azoulay, E. Conforto, Ph. Refait, University of La Rochelle/F
16:50	Corrosion damage of some Romanian metallic artifacts - preliminary stage of the deep disposal concept development for nuclear wastes R. Fako, R. Georgescu, R. Toma, R. Nicolae, RAAN - Subsidiary of Technology and Engineering for Nuclear Projects, Magurele, Ilfov/RO
17:10	Quantifying corrosion rates of archaeological iron: interim report D. Watkinson, M. Rimmer, University of Cardiff/UK
	Corrosion of Steel in Concrete (WP 11) Room: FLAM
Chairs	Michael Raupach RWTH Aachen University/D
10:00	Numerical simulations of an operative measurement mode of polarisation resistance adapted for evaluating corrosion on cooling towers M.E. Mitzithra, EDF R&D, Toulouse/F; F. Deby, University of Toulouse/F; S. Laurens, INSA, Toulouse/F; J. Salin, P. Stephan, D. François, G. Moreau, EDF R&D, Chatou/F; J.P. Balayssac, University of Toulouse/F

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10:20	Reinforcement corrosion in relation with crack width of a reinforced concrete beam <u>I.K Khan</u> , R.F Francois, A.C Castel, INSA Toulouse/F
10:40	Effect of crack opening under cyclic loading on the reinforcement corrosion in concrete with and without steel fiber A. Nis, Bogaziçi University, Istanbul/TR; <u>T.A. Söylev</u> , Yeditepe University, Istanbul/TR; N. Özyurt Zihnioglu, T. Özturan, A.O. Pehlivan, Bogaziçi University, Istanbul/TR
11:00-11:30	COFFEE BREAK
	Corrosion of Steel in Concrete (WP 11) Room: FLAM
Chairs	Michael Raupach RWTH Aachen University/D
11:30	Probabilistic life-cycle design - recent developments in durability considerations regarding chloride-induced corrosion <u>M. Kosalla</u> , M. Raupach, RWTH Aachen University/D
11:50	Unique declining trend in the corrosion deterioration of steel reinforced concrete at elevated temperature and moisture conditions <u>R. Hussain</u> , R. Al-Zaid, A. Alhozaimy, A. Al-Negheimish, King Saud University, Riyadh/SAR
12:10	Experimental assessment of FRP wrapping on the bond-slip behavior of corroded reinforcing bar <u>M. Jafari</u> , A. Hosseini, University of Tehran/IR
12:30	Corrosion behaviour of a low-Ni austenitic stainless steel reinforcement in carbonated chloride-polluted alkali-activated fly ash mortars C. Monticelli, University of Ferrara/I; M. Criado, Institute of Materials Science of Madrid, CSIC/E; S. Fajardo, National Centre for Metallurgical Research (CENIM), CSIC, Madrid/E; A. Frignani, A. Balbo, F. Zanotto, University of Ferrara/I; J.M. Bastidas, National Centre for Metallurgical Research (CENIM), CSIC, Madrid/E
12:50-14:00	LUNCHTIME
	Corrosion of Steel in Concrete (WP 11) Room: FLAM
Chairs	Michael Raupach RWTH Aachen University/D
14:00	Comparison of corrosion products formed on black and corrosion resistant steel reinforcement embedded in cement paste <u>M. Serdar</u> , D. Bjugovic, University of Zagreb/HR; C. Meral, P.J.M. Monteiro, University of California, Berkeley, CA/USA
14:20	Chloride and carbonation induced corrosion of AISI 2201 duplex stainless steel rebars embedded in ordinary Portland cement mortars E. Medina, University of Madrid/E; I. Llorente, <u>D.M. Bastidas</u> , CENIM-National Centre for Metallurgical Research, CSIC, Madrid/E
14:40	The effect of molybdenum on the corrosion performance of stainless steel in chloride contaminated concrete T.J. Mesquita, Ugitech Research Center, Grenoble/F; <u>Z. Panossian</u> , A. Araujo, C.A.L. Santos, J.V.S Santos, IPT - Institute for Technological Research, Sao Paulo/BR; R.P. Nogueira, University of Grenoble/F
15:00	Effect of epitaxial ferrite on corrosion behavior of dual-phase steels <u>E. Salamci</u> , Gazi University, Ankara/TR; S. Candan, Bilecik University/TR
15:20	Corrosion performance of Cr-bearing reinforcing steel in concrete exposed in high chloride and low pH environment T. Nishimura, National Institute for Materials Science (NIMS), Tsukuba/J
15:40-16:10	COFFEE BREAK

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16:10-17:30	CORROSION OF STEEL IN CONCRETE BUSINESS MEETING (WP 11) ROOM: FLAM
	Inorganic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
10:00	Characteristics of the TiN layers formed on a grade 4 titanium via PVD and gas nitriding processes <u>H. Cimenoglu</u> , F. Siyahjani, M. Ipekci, TU Istanbul/TR
10:20	Corrosion behaviour of nanocomposite TiSiN and TiSiN-Cu coatings for bioapplication <u>D. Kek Merl</u> , Jozef Stefan Institute, Ljubljana/SLO; P. Panjan, Jozef Stefan Institute, Ljubljana/SLO
10:40	Novel thin hybrid anti-corrosion coatings based on carbon and ceramic films <u>V. Sammelseg</u> , M. Marandi, University of Tartu/EW; J. Mondal, University of Tartu/EW; A. Tamm, A.-L. Peikolainen, M. Merisalu, L. Aarik, J. Kozlova, M. Pala, T. Raudsepp, University of Tartu/EW; K. Tammeveski, J. Aarik, University of Tartu, Tartu/EW
11:00-11:30	COFFEE BREAK
	Inorganic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
11:30	Zinc oxide nanocrystalline films for corrosion protection of engineering alloys <u>O. Ozcan</u> , K. Pohl, G. Grundmeier, University of Paderborn/D
11:50	Investigation of photocatalytic activity of titanium dioxide coating deposited on metallic substrates by plasma technique <u>S. Davidsdottir</u> , <u>R. Ambat</u> , TU Denmark, Lyngby/DK
12:10	Synergistic effects of ALD sealing layers and PVD sublayers for corrosion protection of steel <u>E. Härkönen</u> , M. Ritala, University of Helsinki/FIN; S. Tervakangas, J. Kolehmainen, DIARC-Technology Inc., Espoo/FIN; I. Kolev, Hauzer Techno Coatings B.V., Venlo/NL; B. Díaz, J. Swiatowska, A. Seyeux, V. Maurice, P. Marcus, Chimie ParisTech/F; M. Fenker, FEM Research Institute, Schwäbisch Gmünd/D; G. Radnoczi, L. Toth, Research Centre for Natural Sciences HAS, Budapest/H
12:30	Multilayer DLC coatings: a solution for improving the resistance of low-alloy steel against erosion-corrosion <u>K. Bobzin</u> , <u>N. Bagcivan</u> , S. Theiß, J. Perne, R. Weiß, RWTH Aachen University/D
12:50-14:00	LUNCHTIME
	Organic Coatings (WP 14) Room: GALAXY III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
14:00	Evaluation of atmospheric plasma deposited coatings as primer on metal substrates <u>A. Kakaroglou</u> , G. Scheltjens, M. Wadekar, Free University of Brussels/B; B. Nisol, Université Libre de Bruxelles (ULB)/B; I. Graeve, G. Van Assche, B. Van Mele, R. Willem, Free University of Brussels/B; F. Reniers, Université Libre de Bruxelles (ULB)/B; <u>H. Terryn</u> , Free University of Brussels/B
14:20	Investigation of corrosion resistance and physical properties of a ferrite doped TEOS sol-gel and alkyd coating system <u>D. Mills</u> , M. Narozny, University of Northampton/UK; A. Miszczyk, TU Gdansk/PL
14:40	Integrated EIS and AFM study for the investigation of the properties of waterborne coatings <u>L.G. Ecco</u> , University of Trento/I; J. Li, Royal Institute of Technology, Stockholm/S; M. Fedel, F. Deflorian, University of Trento/I; J. Pan, Royal Institute of Technology, Stockholm/S
15:00	Influence of chromatic pigment on the properties of powder deposited organic coatings <u>S. Rossi</u> , University of Trento/I; M. Fedel, University of Trento/I; F. Deflorian, University of Trento/I
15:20	Protective coatings in arctic environments <u>A. Bjorgum</u> , O.O. Knudsen, A.-K. Kvernbraten, N.-I. Nilsen, SINTEF Materials and Chemistry, Trondheim/N; A.P. Bastiko, NTNU, Trondheim/N
15:40-16:10	COFFEE BREAK

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Organic Coatings (WP 14) Room: GALAXY III	
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
16:10	In-situ AFM investigation of polymeric clear coatings on carbon steel in water and NaCl solution J. Li, J. Pan, Royal Institute of Technology, Stockholm/S
16:30	Effect of morphology of composite coating materials on gas permeation and corrosion protection S. Schmitz-Stöwe, M. Opsölder, M. Jochum, M. Aslan, C. Becker-Willinger, INM-Leibniz Institute for New Materials gGmbH, Saarbrücken/D
16:50	Hybrid coating for corrosion protection of magnesium alloys in aerospace application H.B Xue, S.V Lamaka, F. Brusciotti, D.V. Snihirova, M.F. Montemor, M.G.S. Ferreira, TU Lisbon/P; M.G.S. Ferreira, University of Aveiro/P
17:10	Performance of zinc-rich coatings in atmospheric environments J. Repp, J. Ault, Elzly Technology Corporation, Ocean City, NJ/USA
Microbial Corrosion (WP 10) Room: KUBBE	
Chairs	R. Melchers
10:00	Corrosion behavior of galvanised steel in the presence of Desulfosporosinus sp. and Desulfovibrio sp. isolated from cooling tower water E. Ilhan-Sungur, University of Istanbul/TR; T. Ünsal, University of Nigde/TR; N. Cansever, TU Yildiz, Istanbul/TR
10:20	Multi-technique approach to understand the effects of bacterial communities involved in copper plumbing corrosion I. Vargas, G. Pizarro, M. Felis, J. Corthorn, S. Acevedo, Pontifical Catholic University of Chile, Santiago/RCH
10:40	Modelling MIC copper release from drinking water pipes G. Pizarro, I. Vargas, Pontifical Catholic University of Chile, Santiago/RCH; G. Calle, Geohidrologia Consultores, Santiago/RCH
11:00-11:30	COFFEE BREAK
Environment Sensitive Fracture (WP5) Room: KUBBE	
Chairs	Vigdis Olden SINTEF Materials and Chemistry, Trondheim/N
11:30	Numerical advances in hydrogen diffusion modeling: transition scale applied to polycrystalline aggregates J. Bouhattate, E. Legrand, X. Feaugas, Université de La Rochelle/F; H. Garmestani, Georgia Institute of Technology, Atlanta, GA/USA; D.S. Li, Pacific Northwest National Laboratory, Richland, WA/USA
11:50	Experimental and numerical analysis of hydrogen interaction with plastic strain in a high strength steel F. Vucko, C. Bosch, D. Delafosse, Ecole Nationale Supérieure des Mines, Saint-Etienne/F
12:10	Environmentally assisted cracking behavior of oil and gas line pipe weldments in wet H ₂ S containing environments A.K. Uysal, UMRAN Steel Pipe Inc., Istanbul/TR; N. Cansever, TU Yildiz, Istanbul/TR
12:30	The susceptibility and initiation mechanism for environmentally assisted cracking of various metals G. Nakayama, Y. Sakakibara, IHI Corporation, Yokohama/J
12:50-14:00	LUNCHTIME
Environment Sensitive Fracture (WP5) Room: KUBBE	
Chairs	Krzysztof Wolski École Nationale Supérieure des Mines de Saint-Étienne/F
14:00	Contribution to material qualification for geothermal application A. Keserovic, R. Bäßler, BAM Federal Institute for Materials Research and Testing, Berlin/D

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14:20	Corrosion properties of high-alloyed materials in artificial geothermal fluids <u>J. Sobetzki</u> , R. Bäßler, H. Sarmiento Klapper, BAM Federal Institute for Materials Research and Testing, Berlin/D
14:40	Influence of environmental change on SCC of stainless steel H. Masuda, National Institute for Material Science, Tsukuba/J
15:00	Features of dislocation-electrochemical mechanism of stress corrosion of aluminium alloys and improvement in resistance to this damage V.S. Sinayvskiy, All-Russia Institute of Light Alloys, Moscow/RUS
15:20	Stress corrosion cracking of austenitic stainless steels in petroleum refineries A. Almuarak, College of Technological Studies, Alsalimiah/KWT
15:40-16:10	COFFEE BREAK
	Environment Sensitive Fracture (WP5) Room: KUBBE
Chairs	S. Bouhattate
16:10	Modelling the effects of dissolved hydrogen and global stress on SCC of Fe-Ni, Cr-Ni and Fe-Cr model alloys in high temperature water H. Hoffmeister, Institute for Failure Analysis and Failure Prevention ISSV e.V., Hamburg/D
16:30	Modelling material properties effects of two low alloyed power plant steels on environmentally assisted cracking in high temperature water H. Hoffmeister, Institute for Failure Analysis and Failure Prevention ISSV e.V., Hamburg/D
16:50	Surface treatments to mitigate stress-corrosion cracking of pipelines in ethanol transmission service <u>M. Yunovich</u> , B. Chambers, Honeywell Corrosion Solutions, Houston, TX/USA; <u>R. Kane</u> , iCorrosion, LLC., Houston, TX/USA H. Hoffmeister, Institute for Failure Analysis and Failure Prevention ISSV e.V., Hamburg/D
17:10-17:30	ENVIRONMENT SENSITIVE FRACTURE BUSINESS MEETING (WP 5) ROOM: KUBBE
	Nuclear Corrosion (WP 4) Room: MARS
	S. Ritter, H.P. Seifert, Paul Scherrer Institute, Villigen PSI/CH
10:00	Oxidation and dissolution behavior of binary Ni-Cr-alloys with and without Al-content up to 5 mass % in stagnant liquid lead at 750°C <u>O. Picho</u> , C. Schroer, J. Konys, Karlsruhe Institute of Technology (KIT)/D
10:20	Mechanism and modelling of austenitic steels dissolution in liquid lead-bismuth <u>M. Roy</u> , L. Martinelli, Laboratoire d'Etude de la Corrosion Non Aqueuse, Gif sur Yvette/F; <u>J. Favergon</u> , G. Moulin, Laboratoire d'Etude de la Corrosion Non Aqueuse, Compiègne/F
10:40	Water chemistry control for mitigating AOA in PWRs <u>S. Uchida</u> , H. Suzuki, M. Naitoh, H. Okada, The Institute of Applied Energy, Tokyo/J
11:00-11:30	COFFEE BREAK
	Nuclear Corrosion (WP 4) Room: MARS
	S. Ritter, H.P. Seifert, Paul Scherrer Institute, Villigen PSI/CH
11:30	Effects of variables on denting behavior under simulated operating conditions of nuclear power plants <u>J.S. Kim</u> , M.J. Kim, H.P. Kim, S.S. Hwang, Korea Atomic Energy Research Institute, Daejeon/ROK
11:50	Mitigating flow-accelerated corrosion - best available practice L. Carvalho, GE Water & Process Technologies, Oakville/CDN
12:10	Corrosion behaviour of zirconium in nitric acid medium in the presence of AgO and platinumoids <u>B. Gwinner</u> , F. Balbaud-Celerier, N. Brijou-Mokrani, P. Fauvet, N. Gruet, R. Robin, CEA, Gif sur yvette/F

SCIENTIFIC LECTURE PROGRAMME



12:30	Effect of microstructure on atmospheric-induced corrosion of thermo-mechanically processed duplex stainless steels
	C. Ornek, Z. Husni, S. Schilling, D.L. Engelberg, University of Manchester/UK
12:50-14:00	LUNCHTIME
	Nuclear Corrosion (WP 4) Room: MARS
	A.Legat Slovenian National Building and Civil Engineering Institute
14:00	Effect of gamma-ray irradiation on ancient anoxic corrosion systems for long term behaviour studies of steel canister of nuclear waste
	H. Badet, D. Neff, G. Baldacchino, J.P. Gallien, J.P. Renault, P. Dillmann, CEA Saclay, Gif sur Yvette/F
14:20	Comparison of the performance requirements for containers for the storage and disposal of nuclear waste
	F. King, Integrity Corrosion Consulting Ltd, Nanaimo/CDN
14:40	Corrosion considerations in the design of a canister for the long term disposal of spent fuel and high level nuclear waste
	N. Diomidis, L. Johnson, Nagra - National Cooperative for the Disposal of Radioactive Waste, Wettingen/CH; R. Patel, C. Punshon, TWI, Cambridge/UK; F. King, Integrity Corrosion Consulting Ltd, Nanaimo/CDN
15:00	Corrosion of copper by water under oxygen-free conditions
	S. Lehmusmies, A. Pehkonen, O. Forsen, Aalto University, Espoo/FIN; T. Saario, VTT Industrial Systems, Espoo/FIN; R. Becker, Studsvik Nuclear AB, Nyköping/S
15:20	In situ corrosion rate measurements of carbon steel for nuclear waste repository purposes
	O. Necib, Andra, Bure/F; C. Bataillon, Cea, Saclay/F; S. Dewonck, Andra, Bure/F
15:40-16:10	COFFEE BREAK
16:10- 17:30	NUCLEAR CORROSION BUSINESS MEETING (WP 4) ROOM: MARS
19:00	GALA DINNER (BOAT TRIP)

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	Cathodic Protection (WP 16) Room: FLAM
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
10:00	New reference electrodes for monitoring cathodic protection systems F. Alanazi, SABIC, Jubail/SAR; D. Scantlebury, E. Koroleva, University of Manchester/UK
10:20	From procurement cost to total cost of ownership R. Ballerini, G. Giorgetti, N. Poincel, Automa Srl, Monsano (AN)/I
10:40	The development and the investigation of intelligent corrosion control devices with the analyser of intelligent corrosion control devices D. Sirota, A. Ulikhin, N. Shamshetdinova, Gazprom VNIIGAZ, Razvilka, Leninskiy District, Moscow Region/RUS; I. Kulakov, A. Enin, ZGA NS, Stavropol/RUS
11:00	Pipeline compliance system software application of cathodically protected buried pipelines T. Aktar, K. Karadag, C. Unal, KORTEK Engineering & Consultancy Co. Ltd., Ankara/TR
11:20-11:50	COFFEE BREAK
	Cathodic Protection (WP 16) Room: FLAM
Chairs	Jerome Cruzillac BAC Corrosion Control, Voisins Le Bretonneux/F Marcel Roche Le Mesnil-le-Roi/F
11:50	Electrochemical behaviour of aluminium alloys and high-alloyed steels under dishwasher conditions in terms of CP T. Rauscher, M. Thieme, H.-P. Wiesmann, TU Dresden/D
12:10	Study of cathodic protection parameters on the coating disbondment S. Brasil, Federal University of Rio de Janeiro/BR; D.S. Freitas, National Institute of Technology, Rio de Janeiro/BR; J.F.P. Coelho, J.H.L. Oliver, Petrobras, Rio de Janeiro/BR; G.X. Motta, National Institute of Technology, Rio de Janeiro/BR
12:30	Coatings and cathodic disbondment - the true story E. Broesder, Stopaq B.V., Stadskanaal/NL; K.C. Lax, Asset Integrity Services Ltd., Aldermaston/UK
	Coatings for High Temperatures (WP 14) Room: NEPTUNE
Chairs	M.Galetz
10:00	Microstructural and thermodynamic analysis of the formation of single-step Al-Ti diffusion coatings F. Shahriari Nogorani, TU Shiraz/IR; F. Ashrafizadeh, A. Saatchi, TU Isfahan/IR
10:20	Oxidation kinetics of spherical aluminium particles S. Guzman, F. Velasco, A. Bautista, C. Moral, Carlos III University of Madrid/E
10:40	Development of MCrAlY coatings for oxidation protection deposited by high speed-physical vapor deposition K. Bobzin, N. Bagcivan, S. Theiss, B. Yildirim, RWTH Aachen University/D
11:00	High temperature corrosion resistance of HVOF coatings in a NaCl-KCl-Na ₂ SO ₄ salt M. Oksa, VTT Technical Research Centre of Finland, Espoo/FIN; S. Tuurna, VTT Technical Research Centre of Finland, Tampere/FIN; T. Varis, VTT Technical Research Centre of Finland, Espoo/FIN
11:20-11:50	COFFEE BREAK
	Coatings for High Temperatures (WP 14) Room: NEPTUNE
Chairs	M.Galetz
11:50	Interaction of oxides from ZrO ₂ -Nd ₂ O ₃ system with molten CMAS N. Chellah, M.H. Vidal-Setif, Onera, Chatillon/F; C. Petitjean, P.J. Panteix, C. Rapin, M. Vilasi, IJL-UMR 7198, Nancy/F

SCIENTIFIC LECTURE PROGRAMME



T H U R S D A Y • 13 S E P T E M B E R

12:10	Effect of air plasma sprays parameters on coating performance in zirconia - based thermal barrier coatings
	M.A. Shoeib, Central Metallurgical Research & Development Institute, Cairo/ET; M. Morsi, S. Abd El Goad, Cairo University/ET; K. Ahmed, Engine Factory, AOI „Cairo/ET
12:30	Failure mechanisms of TBC systems made by SPS and EB-PVD under thermal cycling : influence of Pt-rich γ -Ni+ γ' -Ni ₃ Al bond-coating composition
	P. Audigie, A. Rouaix-Vande Put, D. Monceau, C. Estournes, Cirimat, Toulouse/F; S. Selezneff, Snecma, Villaroche/F; S. Hamadi, Snecma, Evry/F
12:50	Oxidation resistance and microstructure of Pt-based diffusion coatings
	H. Murakami, Surface Kinetics Group, Tsukuba/J; M. Galetz, DECHEMA Forschungsinstitut, Frankfurt/D
Corrosion Education and Computer Applications (WP 7) Room: JUPITER	
Chairs	Andreas Heyn University of Magdeburg and BAM, Berlin/D / S. Trasatti
10:00	Past, present and future in corrosion education (corrosion and life)
	A. Groysman, O. Groysman, College of Engineering ORT Braude, Karmiel/IL
10:20	Potential mapping in theory and practice
	G. Ebell, A. Burkert, J. Mietz, BAM Federal Institute for Materials Research and Testing, Berlin/D
10:40	Corrosion education in Italy
	S. Trasatti, University of Milan/I
11:00	Advanced design projects “Corrosion” for future mechanical engineers at Technische Universität Darmstadt
	T. Troßmann, TU Darmstadt/D; N. Völker, Verband Deutscher Maschinen- und Anlagenbau e.V., Frankfurt/D
11:20-11:50	COFFEE BREAK
Corrosion Education and Computer Applications (WP 7) Room: JUPITER	
Chairs	Andreas Heyn University of Magdeburg and BAM, Berlin/D / S. Trasatti
11:50	Corrosion education in Germany
	A. Heyn, BAM Federal Institute for Materials Research and Testing, Berlin/D
12:10-13:10	CORROSION EDUCATION BUSINESS MEETING (WP 7) ROOM: JUPITER
Corrosion of Archaeological and Historical Artefacts (WP 21) Room: DELTA	
Chairs	Philippe Dillmann CEA Saclay, Gif-sur-Yvette/F
10:00	The Preparation of historic wrought iron surfaces to receive protective coatings
	D.E. Watkinson, N.J. Emmerson, University of Cardiff/UK
10:20	Accelerated corrosion testing of centaur A27L (MBT) under a simulated museum environment and cyclic neutral salt fog
	A. Saeed, Z. A. Khan, N.P. Garland, Bournemouth University, Poole/UK; E.L. Montgomery, Materials Testing and Corrosion Control Branch (NASA), Kennedy Space Center, FL/USA; K. Png, Carl Zeiss NTS Ltd, Cambridge/UK
10:40	A non-invasive solution for the assessment of the electrochemical activity of heritage iron artefacts
	S. Grassini, E. Angelini, Polytechnic University of Torino/I; M. Bouchar, P. Dillmann, D. Neff, CNRS, Gif sur Yvette/F; M. Parvis, Polytechnic University of Torino/I
11:00	Influence of nanoparticles on the inhibiting efficiency of organosilane coatings on bronze. Part 1: electrochemical characterisation
	A. Balbo, A. Frignani, C. Monticelli, Corrosion and Metallurgy Study Centre „Aldo Daccò“ - University of Ferrara, Ferrara/I
11:20-11:50	COFFEE BREAK

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	Corrosion of Archaeological and Historical Artefacts (WP 21) Room: DELTA
Chairs	Philippe Dillmann CEA Saclay, Gif-sur-Yvette/F
11:50	Influence of nanoparticles on the inhibiting efficiency of organosilane coatings on bronze. Part 2: metal release in accelerated ageing test C. Chiavari, E. Bernardi, University of Bologna/I; A. Balbo, C. Monticelli, University of Ferrara/I; F. Passarini, M.C. Bignozzi, C. Martini, University of Bologna/I
12:10	An integrated approach for the safeguard of underwater archaeological sites S. Grassini, M. Parvis, E. Angelini, Polytechnic University of Torino/I
12:30	A non-toxic formulation of a triazole derivative for the conservation of archaeological bronzes M.P. Casaletto, R. Schimmenti, Consiglio Nazionale delle Ricerche, Palermo/I; G.M. Ingo, C. Riccucci, T. De Caro, Consiglio Nazionale delle Ricerche, Monterotondo Scalo (RM)/I; A. Dermaj, D. Chebabe, N. Hajjaji, A. Srhivi, University Ibn Tofail, Kenitra/MA; V. Vivier, CNRS, Paris/F
12:50	Investigation of chemical composition, structure and corrosion of ancient Egyptian bronze statues V.K. Gouda, G.I. Youssef, N.A. Abdel Ghany, National Research Centre, Cairo/ET
	Corrosion of Polymer Materials (WP 19) Room: GAMMA
Chairs	Wilhelm Erning Federal Institute for Materials Research and Testing, Berlin/D / J.Heinemann
10:00	Compatibility of high density polyethylene grades with bioethanol-gasoline blends and biodiesel M. Weltschew, J. Werner, BAM Federal Institute for Materials Research and Testing, Berlin/D; St. Brandt, TÜV Rheinland Industry Service GmbH, Halle/D
10:20	Influence of residual stresses on lifetime prediction for plastic pipes J. Heinemann, H. Haupt, A. Bockenheimer, M. Oechsner, Technische Universität Darmstadt, Darmstadt/D; T. Schuster, R. Brüll, Deutsches Kunststoff-Institut, Darmstadt/D
	Corrosion & Corrosion Protection of Drinking Water Systems (WP 20) GAMMA
Chairs	Johann Wilhelm ERNING, Federal Institute for Materials Research and Testing, Berlin/D
10:40	Investigations of copper pitting corrosion in drinking water using statistical methods A. Becker, IWW Rheinisch-Westfälisches Institut für Wasserforschung gGmbH, Mülheim an der Ruhr/D
11:00	Evaluation of chlorination levels on the localised corrosion resistance of 304 and 316L stainless steels in waters of 200- 2000ppm chlorides K. Vepulanont, Sheffield University/UK; R. Edyvean, Sheffield University/UK; C. Powell, S. Lamb, Nickel Institute, Alvechurch/UK
11:20-11:50	COFFEE BREAK
	Corrosion & Corrosion Protection of Drinking Water Systems (WP 20) GAMMA
Chairs	Johann Wilhelm ERNING, Federal Institute for Materials Research and Testing, Berlin/D
11:50	Corrosion behaviour and biocorrosion of galvanised steel water distribution systems F. Delaunois, A. Sens, V. Vitry, University of Mons/B
12:10	Electrochemical sensor for monitoring internal corrosion in cast iron water distribution pipes R. Dueso, X. You, S. Gonzalez, CETaqua - Water Technology Center, Cornellà de Llobregat/E; C. Müller, ElectroDEP - UB, Barcelona/E
12:30	Evaluation of cations effect on corrosion of Al in model tap water by HSAB theory M. Sakairi, K. Otani, Hokkaido University, Sapporo/J; A. Kaneko, U. Seki, D. Nagasawa, Nippon Light Metal Co. Ltd., Shizuoka/J

	Corrosion In Oil And Gas
Chairs	Michel Bonis, Total S.A., Pau/F, J Kittel
10:00-13:10	CORROSION IN OIL AND GAS BUSINESS MEETING (WP 13) ROOM: GALAXY I
	Marine Corrosion (WP 9) Room: SUN
Chairs	C. Powel /A.-M. Grolleau
10:00	Corrosion performance of coatings for cruise ship external superstructures <u>X. Zhang</u> , G. Ferrari, TNO, Den Helder/NL
10:20	Monitoring of seawater biofilms on stainless steel for corrosion risk assessment <u>D.Thierry</u> , G. Rannou, N. Larché, French Corrosion Institute, Brest/F
10:40	Impact of corrosion in shipbuilding industry M. Taylan, TU Istanbul/TR
11:00	Synthesis and study of corrosion paints with polyaniline pigments
11:20-11:50	COFFEE BREAK
	Marine Corrosion (WP 9) Room: SUN
Chairs	C. Powel /A.-M. Grolleau
	<u>A. Sakhri</u> , Center of research and development - Algerian navy, Alger/DZ; F.X Perrin, University ofToulon/F; S. Lamouri, Military Polytechnic School, Alger/DZ; A. Benaboura, University of Alger/ DZ
11:50	Influence of atmospheric corrosion on the surface hardness of aluminum alloys <u>I.M. Medvedev</u> , O.V. Startsev, M.G. Kurs, All-Russian Scientific Research Institute of Aviation Materials, Gelendjik/RUS
12:10	Corrosion behavior of low-carbon bainitic weathering steel under applied elastic stress D. Li, X. Pang, Q. Liu, University of Science and Technology Beijing/PRC; H. Bian, China Atomic Energy Authority, Beijing/PRC; <u>K. Gao</u> , University of Science and Technology Beijing/PRC
12:30	Corrosion behavior of a commercial aluminum alloy - Processed by equal channel angular pressing <u>A. Kahoul</u> , Sétif University, Sétif/DZ; A. Korchef, 2Researches in Materials Sciences, Soliman/TN
	Self-healing Coatings (WP 14) Room: GALAXY II+III
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
10:00	Combined spatially resolved electrochemical tools to study the self healing of smart anti-corrosion coatings <u>F. Montemor</u> , D. Snihirova, University of Lisbon/P
10:20	Self-healing effect in epoxy clear coating provided by microcapsules loaded with corrosion inhibitor F. Cotting, <u>I.V. Aoki</u> , University of Sao Paulo/BR
10:40	Improved performance of the nanocontainer-based self-healing coatings with nanocontainer mixtures D. Shchukin, MPI of Colloids and Interfaces, Golm/D
11:00	A coating combination of self-healing polymers and corrosion inhibitors for active corrosion protection of metals <u>I. De Graeve</u> , T. Muselle, Free University of Brussels/B; Y. Gonzalez-Garcia, J.M.C. Mol, TU Delft/NL; G. Van Assche, A. Hubin, H. Terryn, Free University of Brussels/B
11:20-11:50	COFFEE BREAK

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Self-healing Coatings (WP 14) Room: GALAXY II+III	
Chairs	Lorenzo Fedrizzi University of Udine/I Wolfram Fürbeth DECHEMA e.V., Frankfurt am Main/D
11:50	CaCO ₃ microbeads impregnated with corrosion inhibitors for smart protection of epoxy coated AA2024 against corrosion
	<u>D. Snihirova</u> , S.V. Lamaka, M.F. Montemor, University of Lisbon/P
12:10	Polymeric and composite micro- and nanocontainers for self-healing anticorrosion coatings
	<u>D. Grigoriev</u> , H. Möhwald, D. Shchukin, MPI of Colloids and Interfaces, Potsdam/D
12:30	Corrosion resistance of magnesium alloy ZK10 coated with hybrid organic-Inorganic film including containers
	<u>I. Kartsonakis</u> , A. Balaskas, NCSR „Demokritos“, Agia Paraskevi/GR; E. Koumoulos, C. Charitidis, National Technical University of Athens, Zographos/GR; G. Kordas, NCSR „Demokritos“, Agia Paraskevi/GR
12:50	Self-healing coatings using superabsorbent polymers for corrosion inhibition in carbon steel
	<u>A. Yabuki</u> , K. Okumura, Hiroshima University/J
13:10 -13:20	Break for Changing Lecture Hall
13:20 -13:40	Closing Remarks
13:40	End of Scientific Programme



Poster No	
	Cathodic Protection (WP 15)
A1	Cathodic polarization of XC10 steel in seawater by using zinc as anode, a study of supplementary resistance effect. M. Naimi, M. Mahammedi, A. Yagoub, H. Belaid, Polytechnic Military School, Bordj El Bahri/DZ
A2	The influence of indium, gallium and bismuth on the corrosion behavior of alloys intended for protectors D. Vuksanovic, J. Pjescic, D. Radonjic, University of Montenegro, Podgorica/YU; C. Lacnjevac, University of Belgrade/YU
	Mechanisms of Environmentally Assisted Cracking (WP 4, 5, 9, 13 & 17)
B1	Effect of surface condition on stress corrosion crack initiation in stainless steel G. Hinds, A. Turnbull, National Physical Laboratory, Teddington/UK
	Corrosion & Corrosion Protection of Drinking Water Systems (WP 20)
C1	Corrosion challenges in the Australian urban water industry G.C. Moore, Moore Materials Technology, Adelaide/AUS; P.R. Vince, SA Water, Adelaide/AUS
C2	Effect of sulfide ions on corrosion behaviour of steel in a high chloride solution saturated with carbon dioxide Y. Louafi, Ecole Normale Supérieure, Algeria/DZ; M. Ladjouzi, University of Sciences and Technology Houari Boumediene USTHAB, Algeria/DZ
C3	Study of corrosion of stainless steels in industrial cooling systems E. Souza, J.A.C.P. Gomes, Federal University of Rio de Janeiro/BR
	Corrosion and Scale Inhibition (WP1)
D1	Corrosion and Scale Inhibition (WP1) A corrosion inhibitor for cleaning ink from a printing press P.Ö. Yildiz, A. Aytac, S. Ören, Gazi University, Ankara/TR
D2	An effective inhibitor system to prevent corrosion of carbon steel in sea water S. Rajendran, RVS School of Engineering and Technology, Dindigul, Tamil Nadu/IND; K. Anuradha, N K R Government Arts College for Women, Namakkal, Tamil Nadu/IND; K. Kavipriya, GTN Arts College, Dindigul, Tamil Nadu/IND; B. Narayanasamy, Thiagarajar College of Engineering, Madurai, Tamilnadu/IND
D3	Corrosion behavior of 2-amino-pyrimidine on mild steel in HCl B. Dogru Mert, M. Mert, G. Kardas, B. Yazici, Cukurova University, Adana/TR
D4	Corrosion inhibition by the chimec 1030 of carbon steel (API 5L Gr. B) used for process piping N. Djeddi, E.H. Essom, Badji-Mokhtar Annaba University, Sidi Amar Annaba/DZ; B.M. Benahmed, Tebessa University/DZ
D5	Corrosion inhibition of mild steel by 16- and 17-membered N₂O₂-donor type dibenzo-bis-imino crown ethers in HCl H. Ückardes, S. Bilge Kocak, S. Bilgic, University of Ankara/TR; P.Ö. Yildiz, A. Aytac, Gazi University, Ankara/TR
D6	Corrosion inhibition of tig welding stainless steel N.E. Djeddi, H. Essom, Badji-Mokhtar Annaba University, Sidi amar annaba/DZ; M. Benahmed, Tébessa University, Tébessa/DZ
D7	Corrosion of carbon steel in H₂SO₄ containing molybdates and nitrates as Inhibitors A. Alshamsi, United Arab Emirates University, Al-Ain/UAE
D8	Corrosion rate and chirality comparison of the effect of R- and S- dithiophosphinamides on the mild steel corrosion M. Karakuç, Pamukkale, Ankara/TR; A. Aytac, Gazi University, Ankara/TR; S. Bilgic, Ankara University/TR

D9	Effect of 5,5 diphenyl 2-thiodantoin on the corrosion of mild steel in HCl solution E. Telli, Osmaniye Korkut Ata University/TR; A. Ongun Yüce, <u>G. Kardas</u> , Cukurova University, Adana/TR
D10	Effect of diethylenetriaminepenta(methylenephosphonic acid) on the corrosion of aluminium in acid medium <u>A. Nithya</u> , GTN Arts College, Dindigul, Tamil Nadu/IND; S. Rajendran, RVS School of Engineering and technology, Dindigul, Tamil Nadu/IND
D11	Electrochemical and theoretical studies of the corrosion inhibition of some amino-acid derivatised pyrazole in hydrochlorid acid <u>N. Meraç-Boussalah</u> , Aboubakr Belkaid Tlemcen University Tlemcen Algeria/DZ; N. Missoum, S. Louhibi, S. Ghalem, University of Tlemcen/DZ; B. Hammouti, S. El Kadiri, University of Oujda/MA
D12	Influence of chloride and hydroxide ions concentrations on the corrosion behavior of Al and Al-Si alloy <u>W. Ghanem</u> , Central Metallurgical Research and Development Institute (CMRDI), Cairo/ET; A. Ibrahim, W. Hussein, N. Shehata, Al-Azhar University, Cairo/ET
D13	Influence of metal ions on the corrosion inhibition efficiency of diethylenetriamine penta methylene phosphonic acid in sea water <u>K. Kavipriya</u> , J. Sathiyabama, GTN Arts College, Dindigul, Tamil Nadu/IND; S. Rajendran, RVS School of Engineering and Technology, Dindigul, Tamil Nadu/IND
D14	Inhibition effect of cationic surfactant on the corrosion of carbon steel I in in 1 M HCl E. Badr, Egyptian Petroleum Research Institute (EPRI), Cairo/ET
D15	Inhibition of corrosion of carbon steel by an aqueous extract of Henna leaves <u>V. Johnsirani</u> , J. Sathiyabama, GTN Arts College, Dindigul, Tamil Nadu/IND; S. Rajendran, RVS School of Engineering and Technology, Dindigul, Tamil Nadu/IND
D16	Inhibition of corrosion of carbon steel by Sodium metavanadate - glutaric acid system <u>V. Sriharathy</u> , S. SusaiRajendran, Madurai Kamaraj University, Dindigul/IND
D17	Inhibitive assessment of MMTPH as a novel corrosion inhibitor for mild steel in sulfuric acid solution <u>Sh. Mohajernia</u> , S. Hejazi, M.H. Moayed, M. Rahimizadeh, A. Shiri, Momeni Mojtaba, Ferdowsi University of Mashhad, Khorasan Razavi./IR
D18	Investigation of synergistic effects of some organic inhibitors with nitrate ion on the corrosion of MS in ethylene glycol-water solution <u>D. Atav</u> , I. Dehri, Cukurova University, Adana/TR
D19	Mathematical models forecasting for speed CO₂ - corrosion <u>A. Aysin</u> , SCOMI OILTOOLS RUS, Moscow/RUS; L.S. Moiseeva, E.S. Uglova, MATI-RSTU, Moscow/RUS
D20	Metal phosphonate anticorrosion coatings: insights on the corrosion inhibition mechanism at the molecular level K. Demadis, University of Crete, Heraklion/GR; <u>M. Papadaki</u> , University of Crete, Heraklion/GR; E. Barouda, University of Crete, Heraklion/GR
D21	Mimosa tannin as green corrosion inhibitor for mild steel in concentrated hydrochloric acid heavy pickling solution <u>S. Ershad</u> , Peyam Noor Uiversity, Marand/IR; M.G. Hosseini, I. Ahadzadeh, University of Tabriz/IR
D22	New benzylic tetraphosphonic acid as corrosion inhibitor for carbon steel in 3% NaCl medium S. Saker, N. Aliouane, <u>H. Makhloufi-Hammache</u> , University of Bejaia/DZ; S. Chafaa, University of Setif/DZ; O. Duval, University of Angers/F; G. Bouet, University of Angers/GH
D23	Passivation of mild steel by phosphonate inhibitors <u>A.A. Chirkunov</u> , Yu.I. Kuznetsov, A.S. Gorbachev, I.A. Filippov, Russian Academy of Sciences, Moscow/RUS
D24	Phenol - formaldehyde resin/Zn composite layers - a way to improve corrosion resistance of zinc electrodeposition <u>A. Ciubotariu</u> , L. Benea, University of Galati/RO; P. Ponthiaux, F. Wenger, Ecole Centrale Paris/F

D25	Reflux waters systems in oil industry. Tannin used as corrosion inhibitor I. Camenita, A.M. Manta, <u>A. Schiopescu</u> , Petroleum-Gas University from Ploiesti/RO
D26	Synthesis and characterisation of composite fibers of polypyrrole on poly(n-butylacrylate-co-methyl methacrylate) matrix <u>D. Cetecioglu</u> , M.Z Avci, A.S. Sarac, TU Istanbul/TR
D27	Synthesis and characterisation of new soluble conducting terpolymer. Application as corrosion inhibitor for carbon steel in 3% NaCl medium S. Belkacemi, A. Benchikh, <u>L. Makhloufi</u> , University of Bejaia/DZ
D28	Synthesis of 3-[(2-Hydroxy-benzylidene)-amino]-2-thioxo-thiazolidin-4-one schiff base and its effect of corrosion on copper <u>E. Altunbas Sahin</u> , A. Döner, G. Kardas, Cukurova University, Adana/TR
D29	Synthesis, surface properties, synergism parameter and inhibitive performance of novel cationic gemini surfactant on carbon steel corrosion in 1 M HCl solution <u>M.A. Hegazy</u> , A.S. El-Tabei, Egyptian Petroleum Research Institute (EPRI), Cairo/ET
D30	The effects of sodium nitrite on corrosion resistance of steel reinforcement in concrete <u>N. Yesilyurt</u> , G. Kilincceker, Cukurova University, Adana/TR
D31	The inhibiting effect of cationic surfactants synthesised from Algerian petroleum fractions against corrosion of mild steel in HCl 1M <u>A. Khelifa</u> , H. Hamitouche, A. Kouache, University Saad Daleb de Blida/DZ
D32	The inhibition effects of methionin on corrosion behaviour of copper in 3.5 % NaCl solution <u>G. Kilincceker</u> , H. Demir, Cukurova University, Adana/TR
D33	Thermodynamic study to evaluate inhibition effect of azure b in 1 m hcl on mild steel D. Özkir, <u>K. Kayakirilmaz</u> , E. Bayol, Nigde University/TR
D34	Triazole, oxadiazole,thiadiazole and pyridazine derivatives as corrosion inhibitors for mild steel, a survey of recent works. <u>M. Lagrenee</u> , University of Lille 1, Villeneuve d'Ascq/F; F. Bentiss, Chouaib Doukali University, El Jadida/MA
D35	Use of ANOVA in evaluating the synergistic effects of inhibitors <u>M. Charles</u> , Mother Theresa University, Theni/IND; S. Rajendran, Madurai Kamaraj University/IND; B. Narayanasamy, Anna University, Chennai/IND
D36	Inhibitive behavior of pyridine-2-thiol on mild steel in HCl acidic media: influence of hydro-dynamic conditio A. Kosari, R. Parvizi, M. Momeni, M.H. Moayed, Ferdowsi University of Mashhad/IR; A. Davoodi, Tarbiat Moallem University of Sabzevar/IR
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E1	Application of new materials on the smelts spouts in chemical recovery boilers <u>A. Vazquez</u> , D. Moran, P. Vazquez, V. Pintos, Aimen Technology Centre, Porrino/E
E2	Computations concerning chromium depletion in Ni-Cr high temperature alloys <u>R. Pillai</u> , H. Ackermann, K. Lucka, Oel Waerme Institut GmbH, An-Institut GmbH der RWTH Aachen University, Herzogenrath/D
E3	Corrosion of superalloys by molten glasses: behaviour of chromia in soda lime silicate melts <u>T.K. Abdullah</u> , C. Petitjean, P.J. Panteix, C. Rapin, M. Vilasi, University of Lorraine, Vandoeuvre-Les-Nancy/F; H. Zuhailawati, A.A. Rahim, University Sains Malaysia, Pulau Pinang/MAL
E4	Evaluation at high temperature corrosion of coatings prepared by CVD on steel in different atmospheres <u>M. Sanchez Pasten</u> , J.R. Vargas Garcia, M. Bazan Cruz, National Poytechnic Institute, Mexico City/MEX
E5	High temperature degradation of radiant tubes in ethylene furnace <u>M. Diab</u> , A. Al-Meshari, SABIC Technology Centre, Jubail Industrial City/SAR
E6	Hot corrosion behaviour of bare and coated Ti-46Al-8Ta intermetallic alloy E. Godlewska, <u>M. Mitoraj</u> , K. Leszczynska, AGH University of Science and Technology, Krakow/PL

E7	Hot corrosion of electron beam welded inconel 718 S. Uzgur, Ondokuz Mayıs University, Samsun/TR
E8	Laboratory experiments to investigate high temperature corrosion under oxyfuel environments in thermal power plants M. Rogowska, K. Pantleon, TU of Denmark, Kongens Lyngby/DK; <u>M. Montgomery</u> , Vattenfall Thermal Engineering/TU of Denmark, Copenhagen/DK
E9	Nano-indentation determination of the mechanical properties of the oxide scale formed by high temperature oxidation of Ni-based superalloys <u>E. Fedorova</u> , Siberian Federal University, Krasnoyarsk/RUS; D. Monceau, D. Oquab, Institute Carnot CIRIMAT, ENSIACET, Toulouse/F; V. Turq, Institute Carnot CIRIMAT, University Paul Sabatier, Toulouse/F
E10	Oxidation behavior of borided binary and ternary Nb alloys <u>E. Dokumaci</u> , I. Ozkan, B. Onay, Dokuz Eylül University, Izmir/TR
E11	Oxidation of chromine-former superalloy in contact with different divalent oxide (NiO, MgO, CaO) <u>E. Rocca</u> , L. Aranda, J. Grosjean, University of Lorraine, Vandoeuvre Les Nancy/F; M. Moliere, GE Energy Product France, Belfort/F
E12	The study of oxidation mechanism of C in MgO-C refractory Sh. Kh. Asl, <u>Sh. Khameneh Asl</u> , University of Tabriz/IR
E13	Thermochemical calculations of plasma spraying anti-corrosion coatings for laboratory investigations O. Chizhko, International Independent University for Environmental and Political Sciences (Filial), Cherkessk/RUS
E14	Type testing of metal chimneys on corrosion G. Dr. Pajonk, Institute of Materials Testing of Northrhine-Westphalia, Dortmund/D
E15	Effect of Galvanic Coupling of Metals on Efficiency of Inhibitors in Cooling Systems Tala Abohalguma, Libyan Petroleum Institute, Tripoli, Libya
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F1	A plant health assessment for a gas oil separation plant (case study) <u>M. Al-Barout</u> , M.S Al-Subaie, K.K. Al-Waranbi, K. Al-Yousef, G.H. Al-Aithan, FM. Al-Faqeer, Saudi Aramco, Dhahran/SAR
F2	Corrosion failure analysis - case studies A. Al Busaedi, Zakum Development Company (ZADCO), Abu Dhabi/UAE
F3	Corrosion failure of bottom of oil store in Tehran oil storage <u>A. Farzaneh</u> , Shahid Bahonar University of Kerman, Tehran/IR; M. Mohammadi, University of British Columbia (UBC), Vancouver/CDN
F4	Corrosion inhibitors for oil and gas industries <u>A. Kalenkova</u> , LTD „CHIMCOR-SERVICE“, Yaroslavl/RUS; A. Mokshaev, LTD „Orenburggasprom“/RUS; I. Rebrov, JSC „GAZPROM“, Moscow/RUS; V. Bepalov, JSC NII „YARSINTEZ“, Yaroslavl/RUS
F5	Corrosion investigation of a gas pipeline base on practical data /a case study <u>Sh. Azadi</u> , M. Roodaki, F. Jamilzadeh, South Zagros Oil&Gas Company, Shiraz/IR
F6	Corrosion prediction model for dry gas and wet gas pipelines and facilitating ICDA <u>V. Lagad</u> , S. Srinivasan, Honeywell International, Inc., Houston, TX/USA
F7	Development of high OCTG grade product for shale applications in mild sour environments <u>T. Perez</u> , Tenaris R&D, Campana/RA; C. Morales, G. Gomez, REDE AR Tenaris, Siderca/RA; G. Echaniz, MPME Tenaris, Siderca/RA; A. Tarapow, G. Kissner, R. Bravo, PREN OCTG Tenaris, Siderca/RA
F8	Development of inhibitors for CO₂ corrosion based on vegetable oils <u>H. Abd El-Lateef</u> , L.I. Aliyeva, V.M. Abbasov, T.I. Ismayilov, National Academy of Sciences of Azerbaijan, Baku/AZ
F9	Effect of BSR isolated from oil well on corrosion behavior of carbon steel <u>F. Kellou</u> , F. Fadis, F.Z. Chahbib, University of Sciences and Technology Houari Boumediene UST-HAB, Algiers/DZ; F. Laadjal, D. Mansour, SONATRACH Bumerdes/DZ

F10	Fatigue life of carbon steel wires used in Flexible pipes under corrosive conditions M. Rogowska, NKT Flexibles/TU of Denmark, Brøndby/DK; J. Gudme, A. Rubin, NKT Flexibles, Brøndby/DK; K. Pantleon, R. Ambat, TU of Denmark, Lyngby/DK
F11	Inhibition systems of oil and petroleum industry from corrosion and salt deposits V. Abbasov, National Academy of Sciences of Azerbaijan, Baku/AZ
F12	Internal corrosion root cause analysis by multiple-technique characterisation of sludge obtained from crude oil pipeline A. Ivankovic, University of Zagreb/HR; V. Grozdanic, Istrian Development Agency - IDA d.o.o., Pula/HR; V. Mandic, J. Sipusic, S. Martinez, University of Zagreb/HR
F13	Latest developments in technical guidance and good practice for the oil and gas industry Dr C. Stewart, The Energy Institute, Collieston/UK
F14	Localised corrosion problems of pipeline steel associated with weldments A. Abdurrahim, Libyan Petroleum Institute, Tripoli/LAR
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G2	Failure of insulated 304 austenitic stainless steel pipes F.H. Omer, Ras Lanuf Oil & Gas processing Co/LAR
G3	Reactors design for the electrochemical oxidation of ammonia compounds in oil refinery wastewater L. Candido, J.A.C.P Gomes, Federal University of Rio de Janeiro/BR; H.C.M. Jambo, Petrobras, Rio de Janeiro/BR
G4	Study of cationic surfactant-copolymer association and its effect on the corrosion behavior of carbon steel in naphthenic acid solution M.A. Deyab, Egyptian Petroleum Research Institute (EPRI), Cairo/ET; S.S. Abd El-Rehim, Ain Shams University, Cairo/ET
G5	Mechanisms of cracking of austenitic-ferritic microstructure steels in corrosive environment - case study S. da Silva, L.C. Candido, J.A.C.P. Gomes, Federal University of Rio de Janeiro/BR
Corrosion Mechanisms & Methods (WP 6 & 8)	
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H2	A study on the influence of delta ferrite and martensite fractions on pitting corrosion behaviour of 17-4PH stainless steel M. Mohabbati, R. Parvizi, M.H. Moayed, Ferdowsi University of Mashhad/IR; A. Davoodi, Tarbiat Moallem University of Sabzevar, Sabzevar/IR
H3	An EIS study of ion diffusion through polyurethane coatings F. Akvan, Tehran North Branch, Islamic Azad University/IR; J. Neshati, Research Institute of Petroleum Industry (RIPI), Tehran/IR; J. Mofidi, Tehran North Branch, Islamic Azad University/IR
H4	An investigation on the corrosion behavior of surface treated bulk AZ31 magnesium alloy: influence of mechanical milling R. Parvizi, J. Vahdati Khaki, M.H. Moayed, Ferdowsi University of Mashhad/IR; A. Davoodi, Tarbiat Moallem University of Sabzevar/IR
H5	Analysing corrosion in real-time using QCM-D A. Oom, BiolinScientific, Vastra Frolunda/S
H6	Analysis of pit corrosion at the initial stage in sulfide solution by temporal series micrographs coupled with electrochemical techniques A. Mendes Zimer, E. da Costa Rios, L. Helena Mascaró, E. Chaves Pereira, Federal University of Sao Carlos/BR
H7	Analysis of the anodic reaction behaviour of tungsten in acidic solutions by EIS technique M. Anik, Eskisehir Osmangazi University/TR

H8	<p>Assessment of the corrosion rates and mechanisms of WC-Ni nano-structured HVOF coatings in H₂SO₄ and NaCl solutions <u>S. Khameneh Asl</u>, N. Faal Noori, M.G. Hossini, University of Tabriz/IR</p>
H9	<p>Characterisation of an experimental CoCrWta alloy with different Cr-content by potentiostatic staircase test <u>C. Schille</u>, University Hospital of Tübingen/D; G. Hausch, Dentalex, Langenselbold/D; E. Schweizer, J. Geis-Gerstorfer, University Hospital of Tübingen/D</p>
H10	<p>Chemometrics in determining the relative importance of material and fluid properties in an aqueous corrosion process of porous ceramics <u>M. Mannila</u>, S.P. Reinikainen, A. Häkkinen, TU Lappeenranta/FIN</p>
H11	<p>Corrosion behavior of different tempers of 2017A aluminum alloy <u>C. Fares</u>, L. Hemmouche, M.A. Belouchrani, EMP, Algiers/DZ</p>
H12	<p>Corrosion behaviour of Ni-weathering steels in marine atmospheres <u>M. Morcillo</u>, I. Diaz, H. Cano, B. Chico, D. de la Fuente, National Centre for Metallurgical Research (CENIM/CSIC), Madrid/E</p>
H13	<p>Corrosion behaviour of stressed NiTi in chloride and fluoride environments <u>E. Janzen Kassab</u>, J. A. Ponciano Gomes, Federal University of Rio de Janeiro/BR</p>
H14	<p>Corrosion behaviour study of martensitic stainless steels for hydro turbine blades, in natural river water <u>A. Banu</u>, Polytechnic University of Bucharest/RO; M. Marcu, Institute of Physical Chemistry IG Murgulescu, Bucharest/RO</p>
H15	<p>Corrosion monitoring of AZ91D magnesium alloy A. J. Lopez, J. Rams, B. Torres, P. Rodrigo, C. Taltavull, <u>E. Otero</u>, Rey Juan Carlos University, Mostoles, Madrid/E</p>
H16	<p>Cryogenic forming of CrNi-austenites - corrosion resistance examinations <u>K. Voges-Schwieger</u>, B.-A. Behrens, University of Hanover/D</p>
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H18	<p>Durability of micro-electrodes electrodeposited on UV-cured polymers for EOF pumps <u>C. Zanella</u>, F. Deflorian, University of Trento/I</p>
H19	<p>Effect of Al content on mechanical and corrosion behaviours of AZ series magnesium alloys B. Akyuz, <u>S. Candan</u>, Bilecik University/TR; M. Unal, Y. Turen, E. Koc, Karabük University/TR</p>
H20	<p>Effect of Ceftazidime as environmentally-friendly corrosion inhibitor for carbon steel in acid medium <u>A. Abdel-Nazeer</u>, National Research Centre, Cairo/ET; H.M. El-Abbasy, A.S. Fouda, El-Mansoura University/ET</p>
H21	<p>Effect of chloride and sulfate on zinc corrosion investigated by a scanning flow cell system with dynamic electrolyte change <u>C.A. Laska</u>, S.O. Klemm, K.J.J. Mayrhofer, MPI for Iron Research GmbH, Düsseldorf/D; M. Madani, J. De Strycker, ArcelorMittal Global R&D Gent, Zelzate/B</p>
H22	<p>Effect of sinter hardening on corrosion behaviour of duplex stainless steels sintered in nitrogen <u>F. Martin</u>, C. García, Y. Blanco, University of Valladolid/E</p>
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H24	<p>Effects of fluoride ions on corrosion of dental alloys in artificial saliva <u>H. Potgieter</u>, N. Khatun, Manchester Metropolitan University/UK</p>
H25	<p>Effects of surface modifications on aluminum corrosion resistance of hot work tool steels <u>A. Yesilcubuk</u>, Arcelik A. S., Istanbul/TR; M.K. Sesen, TU Istanbul/TR</p>

H26	EIS investigation of corrosion product fouling at high temperature high pressure solution H. Zebardast, The University of British Columbia, Vancouver/CDN
H27	Electrochemical polishing of 316L stainless steel in acidic bath for biomedical applications N.A. Abdel Ghany, A.M. Elbasiony, National Research Centre, Cairo/ET
H28	Evaluation of inhibition efficiency for a film assembling green inhibitor T. Tüken, M. Erbil, Cukurova, Adana/TR
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H30	External corrosion threat on natural gas steel valve buried or vault types application experiences O.A. Engin, C. Ozarpa, Istanbul Gas Distribution Company (IGDAS)/TR; Z. Cizmecioglu, Istanbul Com. University/TR
H31	High-temperature corrosion behavior of Mo₂N/Cu and Mo₂N/Sn nanocomposite coatings prepared by magnetron sputtering A.F. Yayla, N. Solak, M.K. Kazmanli, S. Aydin, M. Urgen, TU Istanbul/TR
H32	In situ XRD measurement for studying isothermal transformation behavior of wustite on steel T. Doi, N. Otsuka, Y. Hidaka, Y. Higashida, Y. Msaki, Sumitomo Metal Industries, Ltd., Amagasaki/J; M. Sato, T. Koganezawa, JASRI, Sayo-gun/J
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H34	Influence of chemical composition and microstructure on corrosion behavior in marine environment A. Ziouche, M. Zergoug, Scientific and Technical Research Center in Welding and Control, Alger/DZ; M. Mokhtari, URASM, Annaba/DZ
H35	Influence of coordination state of Fe³⁺ on the initial formation process of beta-FeOOH in the acidic solution K. Sugae, Sumitomo Metal Industries, LTD., Amagasaki/J; R. Asakura, Sumitomo Metal Technology, INC., Amagasaki/J; T. Kamimura, K. Kashima, H. Miyuki, T. Kudo, Sumitomo Metal Industries, LTD., Amagasaki/J
H36	Influence of reynolds number on the corrosion behaviour of titanium and microplasma arc welded titanium in polluted phosphoric acid solution R. Sanchez-Tovar, M.T. Montanes, J. Garcia-Anton, Polytechnic University of Valencia/E; B. Bachir, University Mohammed V, Rabat/MA
H37	Influence of sealing on anodic layers D. Atmani, A. Merati, EMP - Military School Polytechnics, Algiers/DZ; M. Ouchene, CSC - Center Welding and Control, Algiers/DZ; B. Benoie, H. Benabdellah, EMP - Military School Polytechnics, Algiers/DZ
H38	Influence of sigma phase content in the pitting corrosion resistance of AISI 316L stainless steels O. Conejero, ITMA Materials Technology, Aviles/E
H39	Influence of surface treatments and contamination on water droplet retention on aluminium surfaces O. Enegela, S. Lyon, University of Manchester/UK
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H41	In-situ study of the differences in the corrosion morphology between the unsensitised and the sensitised Alloy 900 in LiBr solutions at 25 ° R. Leiva-Garcia, M.J. Munoz-Portero, J. García-Anton, Polytechnic University of Valencia/E

H42	Interactions between artificial microstructural ageing and localised corrosion under cyclic corrosion tests of an aeronautic AA 2024-T351 C. Larignon, E. Andrieu, <u>J. Alexis</u> , G. Odemer, C. Blanc, University of Toulouse/F
H43	Investigation of thiadiazole schiff bases as corrosion inhibitors for mild steel: electrochemical, spectroscopic and microscopic techniques R. Solmaz, Bingöl University, Bingöl/TR
H44	Kinetic modelling and mechanistic study of low temperature corrosion of copper nanoparticles <u>M. Mansour</u> , L. Favergeon, M. Pijolat, Ecole Nationale Supérieure des Mines, Saint-Etienne/F; J. Morandini, Astek Rhone-Alpes, Echirolles/F
H45	Management of the corrosion of high voltage circuit breaker <u>C. Laporte</u> , Y. Kieffel, Alstom Grid, Villeurbanne/F
H46	Microstructural and electrochemical behaviour of hot pressed CoCrMo alloy for dental restorations <u>B. Henriques</u> , A. Alves, F. Silva, L. Rocha, University of Minho/P
H47	Nanocrystalline diamond electrodes: semiconductor properties and corrosion Y. Pleskov, M. Krotova, Frumkin Institute of Physical Chemistry and Electrochemistry, Moscow/RUS; V. Ralchenko, <u>A. Saveliev</u> , Prokhorov General Physics Institute, Moscow/RUS
H48	Numerical characterisation of measured polarisation curves by flow properties <u>R. Arimura</u> , K. Suga, M. Kikuchi, Tokyo University of Science, Yamasaki NodaCity Chiba/J
H49	Oxidation of stainless steel particles dispersed in zirconia matrix composite. <u>J. Tarabay</u> , V. Peres, M. Pijolat, Ecole Nationale Supérieure des Mines, Saint Etienne/F
H50	Preliminary study of possibilities of electrochemical noise analysis technique for evaluation of time development of exfoliation corrosion on AlCu₄Mg₁ alloy in EXCO solution <u>B. Eremias</u> , T. Kubatik, L. Turek, SVUOM Ltd., Prague/CZ
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H52	Steam assisted mineral growth on steel plates <u>N. Tabrizian</u> , Danish Technological Institute, Aarhus/DK; M.S. Jellesen, P. Moller, TU of Denmark, Kgs. Lyngby/DK; D.S. Primdahl, N. Zangenberg, Danish Technological Institute, Aarhus/DK; H. Friis, Aarhus University/DK; R. Ambat, TU of Denmark, Kgs. Lyngby/DK
H53	Study of the variables influencing the corrosivity of deionized water <u>O. Conejero</u> , ITMA Materials Technology, Aviles/E; M. Cabanas, V. Menendez, ArcelorMittal Global R&D Asturias, Aviles/E
H54	Successive compressive stress model for the rapid growth of tin whiskers on the surface of rare earth containing alloys T. Chuang, National Taiwan University, Taipei/TW
H55	Surface characterisation of acid corrosion inhibitor films on downhole carbon steel and high alloys <u>J.F. Geddes</u> , T.L. Hughes, E. Barmatov, M. Nagl, Schlumberger Cambridge Research Limited/UK
H56	Surface protection of carbon steel by octane sulphonic acid- curcumin system system <u>M. Charles</u> , Mother Theresa University, Theni/IND; R. Susai, Madurai Kamaraj University/IND
H57	The effect of adsorption of surfactant ions on the kinetic parameters of the photoprocess passive iron photoadmittance method <u>E. Zabenkina</u> , E. Baryshnikova, Moscow State Technical University/RUS
H58	The effect of Ru on the corrosion behaviour of WC-Co hardmetals in aggressive chloride containing media <u>H. Potgieter</u> , University of the Witwatersrand, Johannesburg/ZA; S. Potgieter-Vermaak, university of the Witwatersrand, Johannesburg/ZA
H59	The high temperature sensitisation of some ferritic stainless steels <u>A. Banu</u> , Polytechnic University Bucharest/RO; M. Marcu, Institute of Physical Chemistry Ilie Mur-gulescu, Bucharest/RO; C. Banu, Polytechnic University Bucharest/RO

H60	<p>The investigation of corrosion behaviors of some type of steels with electrochemical methods and SEM surface analysis as time dependent in beet sugar processing juices <u>H.D. Ada</u>, Dumlupinar University, Kütahya/TR; S. Altanlar, F. Erdem, Seker Enstitüsü, Ankara/TR; G. Bereket, Osmangazi University, Eskisehir/TR</p>
H61	<p>The temperature and anionic composition effect of close to neutral solutions on kinetics of aluminum local activation <u>S. Kaluzhina</u>, T. Minakova, Voronezh State University/RUS</p>
H62	<p>Titane behaviours to the corrosion M. Zergoug, Research Center of NDT, Algiers/DZ</p>
H63	<p>Understanding Speciation of Rare Earth Cinnamate and their Impact on the Corrosion Inhibition Mechanism for AS1020 steel M. Seter, Deakin University, Victoria/AUS</p>
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I2	<p>Abiotic and microbially induced corrosion on buried iron artifacts <u>A. Pfennig</u>, D.L. Lewicka, HTW University of Applied Sciences Berlin/D</p>
I3	<p>COR-TEN steel: atmospheric corrosion behavior by both natural exposure and accelerated ageing <u>C. Chiavari</u>, E. Bernardi, C. Martini, I. Vassura, A. Motori, M. Bignozzi, University of Bologna/I</p>
I4	<p>Heating of metal archaeological artefacts during low-pressure plasma treatment <u>V. Sazavska</u>, F. Krcma, L. Radkova, P. Fojtikova, TU Brno/CZ</p>
I5	<p>Protection of bronze by fatty acid K. Marusic, <u>H. Otmacic Curkovic</u>, N. Devetak, S. Krevzelj, I. Maric, E. Stupnisek-Lisac, University of Zagreb/HR</p>
I6	<p>Protection of patinated bronze in polluted environment <u>H. Otmacic Curkovic</u>, K. Marusic, University of Zagreb/HR; T. Kosec, Slovenian National Building and Civil Engineering Institute, Ljubljana/SLO</p>
I7	<p>Reduction of brass corrosion layers using hydrogen plasma <u>L. Radkova</u>, <u>V. Sazavska</u>, F. Krcma, TU Brno/CZ</p>
I8	<p>Surface and electrochemical investigation of new green and low toxic bronze corrosion inhibitors <u>M. Casaletto</u>, R. Licciardi, A. Lombardo, Consiglio Nazionale delle Ricerche, Palermo/I; G.M. Ingo, Consiglio Nazionale delle Ricerche, Monterotondo Scalo (RM)/I; H. Hammouch, M. Chellouli, N. Bet-tach, N. Hajjaji, A. Srhiri, University Ibn Tofail, Kenitra/MA</p>
I9	<p>Surface investigation of Pb-rich ancient-like bronze ante and post cleaning laser treatment M. Delagrammatikas, O. Papadopoulou, <u>P. Vassiliou</u>, National Technical University of Athens, Athens/GR; S. Diplas, SINTEF, Oslo/N</p>
I10	<p>Testing of conservation means for steam engines as a part of industrial cultural heritage <u>K. Kreislova</u>, A. Koukalova, SVUOM Ltd., Prague/CZ; A. Svec, Mining Museum, Pribram/CZ; A. Zaspal, Coal Mine Michal, Ostrava/CZ; J. Vysin, Sladecovo vlastivedne muzeum v Kladne, Kladno/CZ</p>
Corrosion of Polymer Materials (WP 19)	
J1	<p>Corrosion protection of low carbon steel AISI 4140 with environmental friendly ZnFe/PANI bilayer coating: effect of PH and current density H. Karahan, <u>A. Tozar</u>, F. Tilti, Mustafa Kemal University, Hatay/TR</p>
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K2	<p>Considering alternatives for Ni in stainless steel alloy design and development for competitive corrosion properties <u>I. Toor</u>, Z.M. Gasem, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran/SAR</p>

K3	<p>Corrosion assessment of sea crossing electrical tower foundation using galvanostatic pulse technique <u>H. Beirami</u>, Niroo Research Institute, Tehran/IR; M. Ehteshmzadeh, Kerman University/IR; A. Sayani, Hormogon Electric Power, Bandar Abbas/IR</p>
K4	<p>Corrosion performance of different stainless steel reinforcements embedded in mortar after five years of exposure <u>A. Bautista</u>, S.M. Alvarez, S. Guzman, F. Velasco, Carlos III University of Madrid/E</p>
K5	<p>Density functional theory studies on the corrosion inhibition of benzoin, benzil, benzoin-(4-phenylthiosemicarbazone) and benzil-(4-phenylthiosemicarbazone) of mild steel in hydrochloric acid <u>F. Kayadibi</u>, S.G. Sagdinc, Y.S. Kara, Kocaeli University, Kocaeli/TR</p>
K6	<p>Effect of concrete microstructure saturation on the corrosion rate of embedded steel reinforcement R. Hussain, King Saud University, Riyadh/SAR</p>
K7	<p>Effect of concrete microstructure saturation on the corrosion rate of embedded steel reinforcement R. Hussain, King Saud University, Riyadh/SAR</p>
K8	<p>Electrochemical behaviour of galvanised steel in concrete I. Popenar, ICECON GROUP - Research Centre CERTINCON, Bucharest/RO</p>
K9	<p>Nondestructive methods for determination of reinforcement steel corrosion in concrete <u>Z. Grdic</u>, G. Toplicic-Curcic, N. Ristic, University of Nis, Nis/YU; I. Despotovic, University College of Applied Studies in Civil Engineering and Geodesy, Belgrade/YU</p>
K10	<p>Screening and modeling stray currents for new Metro line B. Buhr Jensen, COWI A/S, Lyngby/DK</p>
K11	<p>Study of corrosion products in reinforced concrete exposed to different chloride-containing conditions M. Tahlaiti, <u>C. Remazeilles</u>, Ph. Refait, A. Ait Mokhtar, University of La Rochelle/F</p>
K12	<p>Tartrate as corrosion inhibitor in concrete - a pitting corrosion inhibition and influence on properties of mortar <u>L. Valek Zulj</u>, M. Serdar, S. Martinez, D. Bjegovic, University of Zagreb/HR</p>
K13	<p>The influence of pluronic P123 polymeric micelles on the corrosion behaviour of steel in cement extract. F. Deckers, J. Hu, <u>D. Koleva</u>, K. van Breugel, A. Denkova, TU Delft/NL</p>
K14	<p>The influence of stray current on cement-based microstructure A. Susatnto, <u>D. Koleva</u>, C. van Beek, K. van Breugel, TU Delft/NL</p>
Environment Sensitive Fracture (WP5)	
L1	<p>Corrosion of a flue gas/gas heat exchanger in the pollution control system of a biomass fired power plant <u>M. Montgomery</u>, R.E. Olesen, O.M. Jensen, H. Rostgaard, Vattenfall Thermal Engineering, Copenhagen/DK; P. Gensmann, Vattenfall Amagerværket, Copenhagen/DK; F. Danielsen, Vattenfall Thermal Engineering, Copenhagen/DK</p>
L2	<p>Corrosion of insulated pipeline <u>M. Diab</u>, A. Al-Meshari, S. Funani, SABIC Technology Centre, Jubail Industrial City/SAR</p>
L3	<p>Electrochemical impedance spectroscopy study of stress corrosion cracking of X70 pipeline steel in carbonate solutions <u>A. Oskuie</u>, T. Shahrabi, A. Konar, Tarbiat Modares University, Tehran/IR</p>
L4	<p>Hydrogen embrittlement of as-cast AlMg alloy EN AW 5083 <u>J. Malina</u>, N. Dolic, A. Begic Hadzipasic, University of Zagreb, Sisak/HR</p>
L5	<p>IGSCC in austenitic stainless steels: comparison between UT measurements and predictive models and effect of water chemistry on CGR R. Lacalle, <u>R. Cicero</u>, University of Cantabria, Santander/E; F. Corchón, J. Martín, Nuclenor, Santander/E; S. Cicero, University of Cantabria, Santander/E</p>

L6	Stress corrosion studies on polycrystalline of iron - gallium alloy in simulated seawater J.L. He, <u>J.X. Li</u> , Y.J. Su, J. Zhu, University of Science and Technology Beijing/PRC
	Inorganic Coatings (WP 14)
M1	A study on corrosion protection performance of polypyrrole and poly(N-methylpyrrole) on the ZnFe coated Carbon Steel <u>I.H. Karahan</u> , K. Oztekin, T. Ozyilmaz, G. Ozyilmaz, J.N. Yasmin, Mustafa Kemal Universty, Hatay/TR
M2	Anodisation of Mg and AZ91 in stannate containing solutions M.V.S. Bernardes, <u>G. Knörnschild</u> , Federal University of Rio Grande do Sul, Porto Alegre/BR
M3	Anticorrosion sol-gel coatings for AA 2024 with poly(dimethylsiloxane) chains <u>A. Rauter</u> , A. Surca Vuk, L. Slemenik Perse, B. Orel, National Institute of Chemistry, Ljubljana/SLO
M4	Case studies to illustrate the versatility and potential of Raman analyses of corrosion products on alloy surfaces S. Potgieter-Vermaak, H. Potgieter, Manchester Metropolitan University/UK
M5	Characterising Ceramic 8wt.% Ytria stabilised zirconia sol-gel coating on zirconium alloy <u>S. Rezaie</u> , Gh.R. Rashed, Petroleum University of Technology (PUT), Abadan Institute of Technology (AIT), Abadan/IR; M.A. Golozar, TU Isfahan/IR
M6	Corrosion behaviour of thermal and chemical oxide films on steel sheets; a comparison of evaluation techniques <u>N. Sarrami</u> , F. Ashrafizadeh, TU Isfahan/IR
M7	Corrosion properties optimisation of overcoat deposition parameters on top magnetic layer using the Taguchi method T.M. Chao, <u>A.H Tan</u> , C.K. Lee, Ching-Yun University, Jung-Li/TW
M8	Corrosion studies of thiourea/poly(dimethylsiloxane)sol-gel coatings <u>A. Rauter</u> , A. Surca Vuk, L. Slemenik Perse, M. Kozelj, B. Orel, National Institute of Chemistry, Ljubljana/SLO; O. Sunetci, B. Bengu, Arcelic, Istanbul/TR
M9	Electrochemical and corrosion behaviors of Ti -3Mo alloy in SBF solution <u>H. Bouchemel</u> , University of M'Hamed Bougara, Boumerdes/DZ; A. Benchettara, University of Sciences and Technology Houari Boumediene USTHAB, Algiers/DZ
M10	Electrochemical evaluation of electrophoretically deposited nano hydroxyapatite on titanium in hank's solution <u>M.A. Shoeib</u> , Tabbin Institute for Metallurgical Studies, Cairo/ET; A.A. Abdeltawab, Central Metallurgical Research and Development Institute, Helwan/ET; M.M. Hegazy, Helwan University/ET; S.G. Mohamed, Tabbin Institute for Metallurgical Studies, Cairo/ET
M11	Electrochemical sensors in the service of oncology <u>S. El qouatli</u> , R. Najih, A. Chtaini, Sultan Moulay Sliman University, Beni Mellal/MA
M2	Epoxy-montmorillonite nanocomposites, the influence of hardener reactivity on morphology, abrasion and corrosion resistance properties Y. Haji Ali Akbari, Azad University, Tehran/IR; A.A. Sarabi, <u>M. Khorassani</u> , Amirkabir University of Technology, Tehran/IR; E. Haji Ali Akbari, NARGAN Engineers and Constructors, Tehran/IR; R. Kamali, Machine Sazi Arak/IR; P. Muzarmnia, Y. Haji Ali Akbari, Azad University, Tehran/IR
M13	Influence of peo coatings on galvanic corrosion of AZ31 magnesium alloy R. Arrabal, <u>A. Pardo</u> , M.C. Merino, E. Matykina, M. Mohedano, Complutense University, Madrid/E; O. Pineda, Simón Bolívar University, Caracas/YV
M14	Microstructure hot corrosion performance relations for thermal barrier coatings <u>E. Altuncu</u> , Kocaeli University/TR; F. Ustel, Sakarya University/TR
M15	New approach for increasing corrosion resistance of steel <u>E. Lyublinski</u> , Y. Vaks, Northern Technologies International Corporation, Beachwood/USA; N. Kobasko, M. Aronov, J. Powell, IQ Technologies, Inc., Akron/USA
M16	Plasma electrolytic oxydation of titanium Z. Ait El Haj, <u>D. Veya-Renaux</u> , E. Rocca, C. Rapin, University of Lorraine, Vandoeuvre les Nancy/F

M17	Preparation and characteristics of an electrochemical sensor. Application to the determination of paracetamol S. El qouatli, R. Najih, A. Chtaini, Sultan Moulay Sliman University, Beni Mellal/MA
M18	Production and electrochemical characterisation of CaP-chitosan coatings on Ti6Al4V alloy G. Urgan, F. Ak Azem, A. Cakir, Dokuz Eylül University, Izmir/TR
M19	Protection of archaeological artefacts by deposition of parylene and SiO_x thin films R. Balastikova, M. Prochazka, P. Mencik, J. Horak, R. Prikryl, F. Krcma, TU Brno/CZ
M20	Silicide coating on V4Cr4Ti alloy and their oxidation behaviour at moderate temperatures (450-650°C) N. Chaia, S. Mathieu, C. Petit Jean, University of Lorraine, Vandoeuvre-Lès-Nancy/F; M. Le Flem, CEA, Gif-sur-Yvette/F; M. Vilasi, University of Lorraine, Vandoeuvre-Lès-Nancy/F
M21	Study on tribological behavior of micro-arc oxidation ceramic coating on aluminum alloy with different thickness Z. Sun, Beijing Institute of Aeronautical Materials/PRC
M22	The morphology and corrosion behaviours of borided low carbon steel and titanium via CRTD-Bor method G. Kartal, S. Timur, TU Istanbul/TR
M23	Wear and corrosion behavior of nanostructure Ni-P-Al₂O₃ electroless composite coatings S. Alirezaei, TU Isfahan/IR; M. Urgan, TU Istanbul/TR; M. Monirvaghefi, A. Saatchi, M. Salehi, F. Tabatabaei, TU Isfahan/IR
Marine Corrosion (WP 9)	
N1	Atmospheric corrosion and SCC evaluation in the oceanic condition of the series 5083 Al-Mg alloy G. Nakayama, Y. Sakakibara, IHI Corporation, Yokohama/J; S. Yamanaka, Y. Tabei, T. Kanayama, IHI Corporation, Nagoya/J
N2	Corrosion of sea water pumps elements N. Semlal, R. Boulif, OCP Group, El jadida/MA
N3	Modifications of microstructure and corrosion resistance in ofti-al-v alloy: effect of heat treatments M. Mokhtari, Applied Research Unit in Iron and Steel Metallurgy, URASM- CSC, Annaba/DZ; M. Zergoug, A. Ziouche, Research Center of Welding and Control, CSC, Alger/DZ
N4	Study of chlorides oxidation reactions on Pt and DSA (Stable Dimensionally Anode) electrodes A. Boukazoual, A. Merati, M. Hamdadou, Polytechnic Military School, Bordj El Bahri/DZ
N5	The probabilistic predictive model of marine corrosion of steel structures. R.G. Kovalenko, A.T. Bekker, Far Eastern Federal University, Vladivostok/RUS
Metallic Coatings (WP14)	
O1	A Novel method to fabricate nano structured Ni-P composite coatings containing nano scattered Al₂O₃ M. Shoeib, Central Metallurgical Research & Development Institute, Cairo/ET; M. .Hegazy, Helwan university/ET; Y. Barakat, Tebbin Institute for Metallurgical Studies (TIMS), Cairo/ET; S. Abd-El Latif, Helwan university/ET
O2	Carbon nanotube composite coating with excellent corrosion and tribological behavior S.M. Monirvaghefi, M. Alishahi, A. Saatchi, TU Isfahan/IR
O3	Comparison of atmospheric degradation of zinc and zinc-nickel electrodeposited coatings K. Kreislova, A. Koukalova, T. Kubatik, L. Turek, SVUOM Ltd., Prague/CZ
O4	Corrosion behavior of electrodeposited Ni-W-SiC composite coatings M. Hosseini, S. Khameneh, M. Abdolmaleki, J. Ghahramani, University of Tabriz/IR
O5	Corrosion behaviour of low temperature nitrided austenitic stainless steels H. Cimenoglu, O. Celik, E. Kayali, TU Istanbul/TR

06	Corrosion Behaviour of Nanocrystalline electroless Ni-P, Ni-W-P, Ni-Sn-P and Ni-W-Sn-P alloy <u>M. Shoeib</u> , Central Metallurgical Research & Development Institute (cmrdi), Cairo/ET; O. Khalifa, E. Abd El-Wahab, A. Marei, H. Mohamed, Ain Shams University, Cairo/ET
07	Corrosion behaviour of paint systems involving novel pretreatment coatings <u>H. Mattsson</u> , A. Jaako, Volvo Car Corporation, Gothenburg/S
08	Corrosion behaviour of single and multilayer nickel and chromated nickel electrodeposits <u>R. Katirci</u> , E. Sezer, B. Ustamehmetoglu, TU Istanbul/TR
09	Cu addition to the NiAl intermetallic for evaluation as a protective coating simulating dew point environment conditions E. Moronatti, <u>S. Serna</u> , CIICAp/FCQel/UAEM, Cuernavaca/MEX; J. Colin, C. Cuevas, A. Molina, Autonomous University of Morelos State (UAEM), Cuernavaca/MEX; B. Campillo, Autonomous University of Morelos State (UAEM), Cd Mexico/MEX; H. Lopez, UWM, Milwaukee, WI/USA
010	Cut-edge corrosion behavior of Zn-Al-Mg coated steel in chloride containing environment <u>J.W Lee</u> , Y.R. Yoo, H.K Sohn, K.Y. Kim, POMIA (Pohang Institute of Metal Industry Advancement)/ROK; M.S Oh, S.H Kim, Y.S Jin, POSCO Technical Research Laboratories, Gwangyang city/ROK
011	Development of recommendations for chrome based corrosion-resistant nano-CEC application G. Yar-Mukhamedova, JSC „Center of Earth Science, Metallurgy & Benification“, Almaty/KAZ
012	Effect of cobalt ions concentration on properties of reinforced Ni-Co alloy coatings by nano-SiC particles <u>B. Bakhit</u> , A. Akbari, Sahand University of Technology, Tabriz/IR
013	Effect of plasma sprayed alumina coating on corrosion resistance of AISI 304 stainless steel on 5 % HCl <u>M. Shoei</u> , Central Metallurgical Research & Development Institute, Cairo/ET; N. Hegazy, Military Production Ministry - Factory 18, Cairo/ET; S. Abdel-Samea, Military Production Ministry -Factory 270, Cairo/ET; H. Abdel-Kader, Helwan University/ET
014	Effect of reinforcement content on the tribological behavior of Ni-P-CNT nanocomposite coatings <u>S. Amir Khanlou</u> , M. Ketabchi, TU Amirkabir, Tehran/IR; S.M. Monirvaghefi, M. Alishahi, TU Isfahan/IR
015	Effect of saccharin addition on electrodeposition mechanism of Ni nanocrystalline using EIS <u>O. Mohajer</u> , Mashhad Power Generation Management Co./IR; K. Raeissi, A. Saatchi, TU Isfahan/IR
016	Electrochemical preparation of polyaniline modified Zn and ZnFe films on mild steel surface and their corrosion inhibition performance I.H. Karahan, <u>K. Oztekin</u> , T. Ozyilmaz, G. Ozyilmaz, J.N. Yasmin, Mustafa Kemal University, Hatay/TR
017	Electrodeposition of decorative chromium from trivalent electrolyte <u>C.R. Tomachuk</u> , W.I. Santos, M. Oliveira, I. Costa, IPEN/CCTM, Sao Paulo/BR
018	Environmentally compliant titania conversion coatings prepared by sol-gel method for aluminum and magnesium alloys <u>M. Shoeib</u> , Central Metallurgical Research & Development Institute, Cairo/ET; X. Perrin, University of the South, Toulon-Var/F; A. Hamdy, Central Metallurgical Research & Development Institute, Cairo/ET
019	Evaluation of weld clad AISI-1006 substrate with 316L/SiC_p composite layer <u>M. Mosallae</u> , B. Abedi, A. Zare, University of Yazd/IR
020	Investigating the corrosion behavior of Ni-P-CNT coating with various contents of carbon nanotube <u>M. Alishahi</u> , F. Mahboubi, TU Amirkabir, Tehran/IR; SM. Monirvaghefi, A. Saatchi, TU Isfahan/IR
021	Investigation of inhibition efficiency for bis[3-(trimethoxysilyl)propyl]amine and 1H-[1,2,4] Triazole-3,5-diamine with help DOE <u>Ö. Cum</u> , N. Kicir, T. Tüken, M. Erbil, Cukurova University, Adana/TR
022	Mechanism of corrosion protection of aluminum clad materials at the example of Alclad 6025 <u>M. Poltavtseva</u> , BAM Federal Institute for Materials Research and Testing, Berlin/D; E. Boese, University of Magdeburg/D; A. Heyn, BAM Federal Institute for Materials Research and Testing, Berlin/D

O23	<p>Nano-dispersion phase components - ratio influence on Cr-SiO₂-C nano-ccc corrosion resistance G. Yar-Mukhamedova, A. Dariseva, M. Moldabaev, S. Zabortcev, M. Kalipekova, JSC „Center of Earth Science, Metallurgy & Benification“, Almaty/KAZ</p>
O24	<p>New coatings with hollow particles for high temperature processes S. Guzman, F. Velasco, A. Bautista, E.C. Paredes, S.M. Alvarez, Carlos III University of Madrid/E</p>
O25	<p>New quantitative analysis method for evaluation of white rust occurrence on zinc-coated steel sheets with chemical conversion coatings H. Kajiyama, S. Fujita, JFE Steel Corporation, Chiba City/J; M. Uesugi, JFE Techno-Research Corporation, Kawasaki City/J</p>
O26	<p>Nondestructive evaluation of performance for galvanised steel applied by immersion A. Ziouche, M. Zergoug, Scientific and Technical Research Center in Welding and Control, Alger/DZ; M. Mokhtari, URASM, Annaba/DZ; N. Boucherou, Scientific and Technical Research Center in Welding and Control, Alger/DZ</p>
O27	<p>Preparation, characterisation and properties of electroless Ni-P-ZrO₂ composite coatings J. Novakovic, P. Vassiliou, E. Georgiza, National Technical University of Athens/GR; V. Gouda, National Research Center, Cairo/ET</p>
O28	<p>Some amidics compounds as corrosion inhibitors for steel in hydrochloric acid medium S. Louhibi, I. Belfilali, Tlemcen University/DZ; B. Hammouti, S. El Kadiri, Oujda University/MA</p>
O29	<p>Study of the layer's microstructure consists of intermediate phases of Al-Fe-Cr-Si prepared by Hot-Dip in the AlSi20 melt T. Kubatik, B. Eremias, SVUOM Ltd., Prague/CZ</p>
O30	<p>The effects of triple bond and pyridine containing organic additives on corrosion behavior of nickel electroplating R. Katirci, E. Sezer, B. Ustamehmetoglu, TU Istanbul/TR</p>
	<p>Microbial Corrosion (WP 10)</p>
P1	<p>A new antifouling microtopography surface based on molecule self-assembly and evaluation of its antifouling ability C. Lin, L. Wang, H. Gao, J. Zheng, State Key Laboratory for Marine Corrosion and Protection, Qingdao/PRC</p>
P2	<p>Biocorrosion in soils: a study of carbon steel coupons API 5LX60 M. A. Gomes de Andrade Lima, G. Queiroz, T. Malta, J. Simoes, O. Marques, G. Vinhas, Federal University of Pernambuco/BR</p>
P3	<p>Changes of carbon steel surface properties induced by exopolymers of sulfate-reducers and susceptibility to bacterial colonization I. Datsenko, A. Wikiel, M. Vera, W. Sand, University of Duisburg-Essen/D</p>
P4	<p>Corrosion and scaling processes at a shallow aquifer thermal energy storage site and monitoring using redox potential measurements O. Opel, T. Eggerichs, T. Otte, W.K.L. Ruck, Leuphana University of Lüneburg/D</p>
P5	<p>Distribution of marine sulphate reducers in North Sea oil field production waters and their potential involvement in MIC H. Hoffmann, Intertek Commercial Microbiology Ltd, Aberdeen/UK</p>
P6	<p>Inhibiting and bactericidal action of «INCORGAS» series compositions L. Tsygankova, Derzhavin State University, Tambov/RUS; V. Vigdorovich, Tambov State Technical University/RUS; M. Esina, Derzhavin State University, Tambov/RUS</p>
P7	<p>Microelectrochemical study of carbon steel biocorrosion mechanism by <i>Shewanella oneidensis</i> under the influence of H₂ as electron donor. R. Leite de Souza Moreira, University Pierre et Marie Curie, Paris/F; M. Libert, CEA / DEN / DTN / SMTM / LMTE, Saint Paul de la Durance/F; B. Tribollet, V. Vivier, University Pierre et Marie Curie, Paris/F</p>
P8	<p>New monitoring system for potential biocorrosion (MIC) in pipes and reservoirs of oil & gas industry S. Cassini, Federal University of Espirito Santo, Vila Velha/BR; B. Neumann, Petrobras, Vitoria/BR; R. Keller, Federal University of Espirito Santo, Vitoria/BR</p>

P9	<p>The role of human serum albumin on corrosion of orthopedic biomaterials <u>S. Karimi</u>, A.M. Alfantazi, The University of British Columbia, Vancouver/CDN</p>
P10	<p>Thermodynamics understanding of ennoblement <u>H. Almahamedh</u>, Sabic, Jubail industrial City/SAR; B. Mishra, D. Olson, Colorado School of Mines, Golden, CO/USA</p>
Nuclear Corrosion (WP 4)	
R1	<p>Influence of the fluctuation of redox conditions on the corrosion behavior of carbon steel components M. Saheb, A. Perez, IRSN, Gif-sur-Yvette/F; J.P. Gallien, <u>D. Neff</u>, CEA, Gif-sur-Yvette/F; P. Dillmann, CNRS, Gif-sur-Yvette/F; M. Descostes, Areva, Paris/F; F. Marsal, D. Pellegrini, IRSN, Fontenay aux Roses/F</p>
R2	<p>Passivity and passivity breakdown of 304L stainless steel in nitric acid media <u>E. Tcharkhtchi</u>, B. Gwinner, CEA, Gif-sur-Yvette/F; V. Vivier, UPR15CNRS, Paris/F</p>
R3	<p>VCI technology in chloride containing electrolytes M. Kharshan, <u>A. Furman</u>, R. Garcia, J. Hicks, Cortec Corporation, St. Paul, MN/USA</p>
Organic Coatings (WP14)	
S1	<p>"Influence of particle size on electrochemical action of zinc rich paints by means of microscopic and electrochemical methods" <u>K. Schaefer</u>, K. Darowicki, A. Miszczyk, TU Gdansk/PL; D.J. Mills, University of Northampton/UK</p>
S2	<p>Anticorrosive behaviour of polypyrrole film on zinc-cobalt alloy plated carbon steel A. Akdag, <u>A.T. Ozyilmaz</u>, I.H. Karahan, G. Ozyilmaz, Mustafa Kemal University, Hatay/TR</p>
S3	<p>Application of nano technology in anti-corrosion property of coatings: a review <u>D. Asefi Dehkharghani</u>, Azad University South Branch of Tehrean, Karaj/IR; M. Arami, TU Amirkabir, Tehran/IR; N.M. Mahmoodi, Institute for Color Science and Technology, Tehran/IR</p>
S4	<p>Assessment of graphene/epoxy nanocomposite as corrosion resistance coating on carbon steel <u>M. Rajabi</u>, G.R. Rashed, Petroleum University of Technology, Abadan/IR; D. Zaarei, South Tehran Branch, Islamic Azad University/IR</p>
S5	<p>Comparative analysis of urethane-alkyd and water based coatings for exterior wood <u>C. Lacnjevac</u>, M. Jaic, T. Palija, University of Belgrade/YU</p>
S6	<p>Comparative electrochemical impedance spectroscopy corrosion studying of Zn-rich primers for increasing efficiency. <u>V.A. Golovin</u>, S.A. Dobriyan, Russian Academy of Science, Institute of Physical Chemistry and Electrochemistry, Moscow/RUS</p>
S7	<p>Comparison of incorporation and leaching out process of inhibitors in organic coatings on HDG steel <u>A. Lutz</u>, H. Simillion, Free University of Brussels/B; A.C. Bastos, M. Zheludkevich, University of Aveiro/P; I. De Graeve, H. Terry, Free University of Brussels/B</p>
S8	<p>Composite fibers of polyindole-Polyvinylpyrrolidone <u>B. Demircioglu</u>, AS. Sarac, TU Istanbul/TR</p>
S9	<p>Corrosion behavior of sol-gel TiO₂/polyindole multilayer coating on stainless steel <u>S. Toprak Döslü</u>, B. Dogru Mert, B. Yazici, Cukurova University, Adana/TR</p>
S10	<p>Corrosion behaviour of hybrid sol-gel coating on aluminium and aluminium alloy 2024-T3 <u>P. Rodic</u>, J. Iskra, B. Malic, B. Kapun, I. Milosev, Jozef Stefan Institute, Ljubljana/SLO</p>
S11	<p>Corrosion inhibition by an aqueous extract of Banana peel on corrosive carbon steel in sea water <u>M. Sangeetha</u>, S. Rajendran, J. Sathiyabama, Madurai Kamaraj University, Dindigul/IND</p>
S12	<p>Corrosion performance of poly(pyrrole-co-o-anisidine) on 6063 aluminum alloy B. Dogru Mert, S. Döslü Toprak, B. Yazici, Cukurova University, Adana/TR</p>

S13	Corrosion protection of mild steel in natural sea water environment, by protective organic coatings and rapid assessment using an electrochemical impedance spectroscopy (EIS) E. Ahmied, El-Atahadi University, Benghazi/LAR; M.A. Khalil, Raslanuf Oil and Gas processing Company, Benghazi/LAR
S14	Corrosion protection performance of polyaniline (PANI) coating on low carbon steel AISI 4140 synthesised from different acidic mediums I.H. Karahan, A. Tozar, Mustafa Kemal University, Hatay/TR; G. Koc, A. Cetin, Kilis 7 Aralik University/TR
S15	Development and progress of thin film black resin coating steel C. Choi, Y. Kim, S. Kim, Y. Song, J. Kim, Y. Choi, J. Kim, POSCO Technical Research Laboratories, Gwangyang/ROK
S16	Early-stage recognition of corrosion state on organic coated stainless steel with electrochemical methods C. Cordioli, Y. Van Ingelgem, A. Hubin, Free University of Brussels/B
S17	Effect of conductive polymers as additive in protective organic coatings Y. Aslanoglu, B. Akdemir, N. Kizilcan, B. Ustamehmetoglu, E. Sezer, TU Istanbul/TR
S18	Effect of hybrid nanocomposite silicon dioxide - copper phthalocyanine on corrosion prevention performance of the painted steel M.A. Hegazy, Egyptian Petroleum Research Institute (EPRI), Cairo/ET; M.M. Hefny, Cairo University/ET; A.M. Badawi, Egyptian Petroleum Research Institute (EPRI), Cairo/ET; M.Y. Ahmed, Science and Technology Center of Excellence (STCE), Cairo/ET
S19	Effects of dielectric constant of solvent mixture on nanofiber coating of poly(n-butyl acrylate-co-methyl methacrylate) M.Z. Avci, A.S. Sarac, TU Istanbul/TR
S20	Electrochemical behavior of zinc-rich epoxy paint In 3% nacl solution applied on the storage reservoirs of oil N. Hammouda, K. Belmokre, University of Skikda-Algeria/DZ
S21	Electrochemical noise measurements in aqueous paint suspensions M. Babutzka, University of Magdeburg/D; S. Bender, Institut für Lacke und Farben e.V., Magdeburg/D; A. Heyn, BAM Federal Institute for Materials Research and Testing, Berlin/D
S22	Electrochemical synthesis of polypyrrole (ppy) and ppy metal composites on copper and investigation of their anticorrosive properties S. Zor, H. Özkazanc, University of Kocaeli/TR
S23	Epoxy coatings on metallic substrates - quantitative assessment of the water absorption by use of single-sided NMR M. Zintel, C. Gehlen, TU München/D
S24	Evolution comparison of anti-corrosive economical properties of polyurethanes polyureas as modern pipeline coatings with traditionals H. Rasouli Sadabad, TU Amirkabir, Tehran/IR; A. Ghalambor Dezfouli, Jonoob Protective Coatings (Polygum), Tehran/IR
S25	Features of generation of critical function of steel structure safety in corrosive environmet V. Korolov, Priazovsky State Technical University, Donetsk/UA; Y. Vysotsky, Donetsk National Technical University, Donetsk/UA; A. Amelina, V.Shimanovsky Ukrainian Institute of Steel Structures, Mariupol/UA; N. Grekov N, Priazovsky State Technical University, Mariupol/UA
S26	Improving the corrosion resistance of zinc and zinc-iron alloy plated carbon steel electrodes by poly(o-anisidine) film coating A.T. Ozyilmaz, J.N. Yasmin, I.H. Karahan, G. Ozyilmaz, K. Oztekin, Mustafa Kemal University, Hatay/TR
S27	Industrial liquid applied insulating coating systems M. McLampy, Hi-Temp Coatings Technology, Acton, MA/USA; R. Crain, Hi-Temp Coatings Technology, Inc., Acton, MA/USA

S28	<p>Investigation of corrosion of polyester-coated galvanised steel after accelerated atmospheric corrosion test <u>R. Yıldız, I. Dehri, Cukurova University, Adana/TR</u></p>
S29	<p>Investigation of the effect of cation doped pani on corrosion of aluminium in 0.1 M HCl <u>H. Özkazanc, S. Zor, University of Kocaeli/TR</u></p>
S30	<p>Investigation the effect of polypyrrole pigment on mechanical and anti-corrosive properties of polyurethane/montmorillonite nanocomposite <u>H. Rasouli Sadabad, A.A. Sarabi, S.M. Kasriha, TU Amirkabir, Tehran/IR</u></p>
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S33	<p>Performance of Epoxy Based Paints in the Protection of Steel Constructions Against Corrosion <u>A. Topuz, TU Yıldız, Istanbul/TR</u></p>
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S35	<p>Protection of copper surfaces against acid corrosion by modification of (1-Aminoethyl) phosphonic acid self-assembled monolayer <u>E. Solmaz, A. Yurt, Eskisehir Osmangazi University/TR</u></p>
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S37	<p>Protective compositions against atmospheric corrosion of copper and brass in SO₂ presence <u>L.E. Tsygankova, Derzhavin State University, Tambov/RUS; V.I. Vigdorovich, N.V. Shel, Tambov State Technical University/RUS; P.N. Bernatsky, Derzhavin State University, Tambov/RUS; Yu.V. Panfilova, Tambov State Technical University/RUS</u></p>
S38	<p>Protective compositions on base of vegetable oil production bottoms against atmospheric corrosion of steel constructions <u>L.E. Tsygankova, Derzhavin State University, Tambov/RUS; V.I. Vigdorovich, Tambov State Technical University/RUS; A.A. Uryadnikov, Derzhavin State University, Tambov/RUS</u></p>
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S43	<p>The effect of SO₂ gas on the atmospheric corrosion of polyurethane-coated galvanized steel at different relative humidities <u>R. Yıldız, I. Dehri, Cukurova University, Adana/TR</u></p>

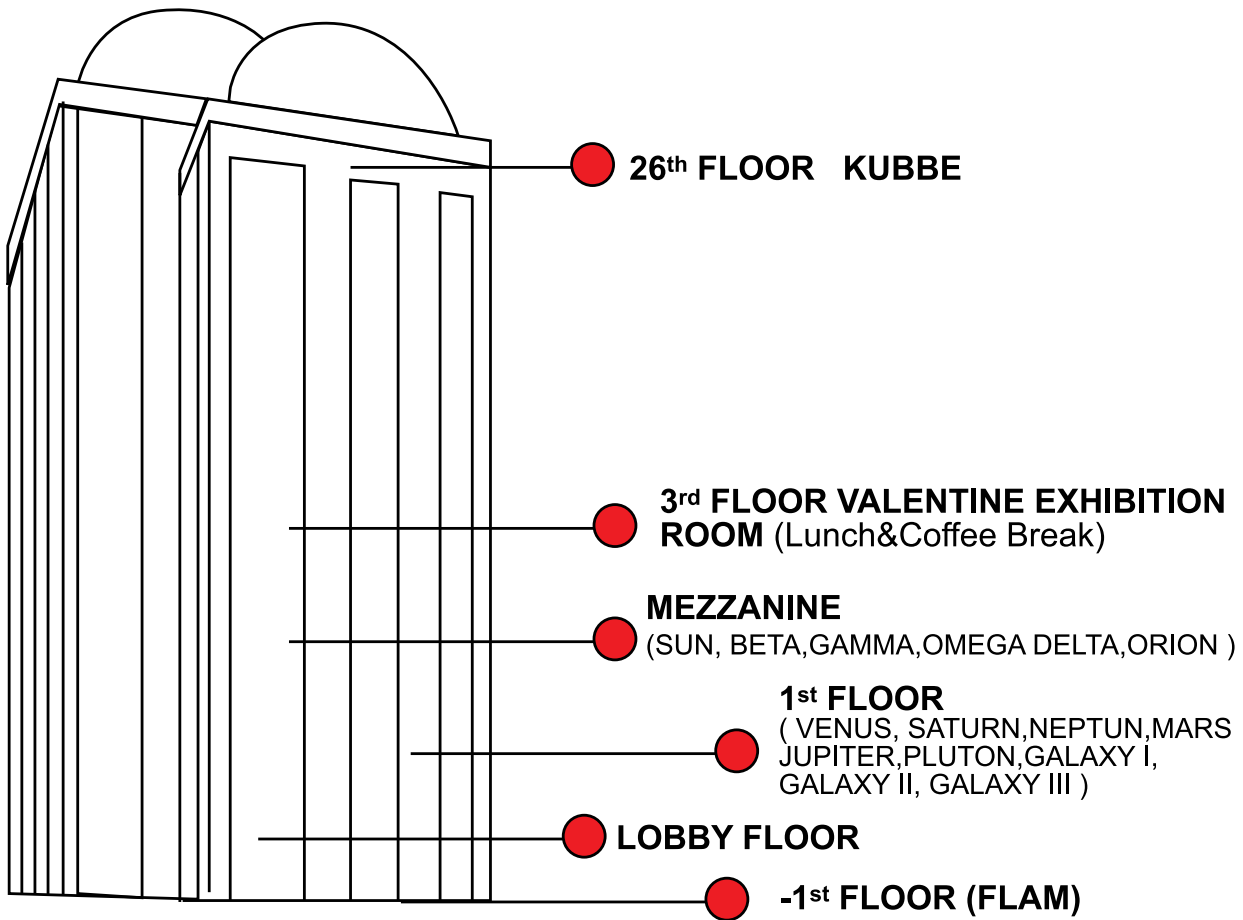
S44	The effect of surface treatment and volume concentration of TiO₂ on the anti-corrosion properties of an acrylic amide coating N. Tahmassebi, R. Jamshidi, Mahshahr Branch, Islamic Azad University/IR
S45	The effect of voltage on impedance of poly (3-dodecylthiophene) obtained from boron trifluoride diethyl etherate-acetonitrile H. Dolas, A.S. Sarac, TU Istanbul/TR
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T2	Evaluation of a sulfursilane anticorrosive pretreatment on galvanized steel compared with phosphatation under an alkyd resin coating J.S. Francisco, Dow Chemical, Sao Paulo/BR; V.R. Capelossi, I.V. Aoki, University of Sao Paulo/BR
T3	Influence of surface treatments on fatigue behavior of anodized 2017A alloy A. Kouah, L. Hemmouche, EMP, Algiers/DZ
T4	Initiation and growth of zr-based conversion coatings on multi-metal surfaces J. Cerezo, TU Delft/NL; I. Vandendael, Free University of Brussels/B; K. Lill, Henkel AG & Co KGaA, Düsseldorf/D; J.H.W. de Wit, J.M.C. Mol, TU Delft/NL; H. Terry, Free University of Brussels/B
T5	Investigation on passivating treatments for galvanised steel as alternatives to yellow chromating J.M. Ferreira Jr., C.R. Tomachuk, W.I.A. Santos, IPEN/CNEN-SP, Sao Paulo/BR; M. Baker, University of Surrey, Guilford/UK; L. Costa, IPEN/CNEN-SP, Sao Paulo/BR
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V2	Influence of unipolar and bipolar voltage modes on tribocorrosion resistance of Ti6Al4V alloy coated by using micro-arc oxidation process E.E. Demirci, Ataturk University, Erzurum/TR; O. Baran, Erzincan University/TR; E. Arslan, Y. Totik, I. Efeoglu, Ataturk University, Erzurum/TR
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V6	<p>Wear-corrosion properties of electroless Ni-P-Cu/ nano-graphite composite coatings in the environments of PEMFCs C.K. Lee, L.K. Chen, <u>A.H. Tan</u>, Ching Yun University, Jung-Li/TW</p>
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Y2	<p>Multi-level protection of materials for vehicles by “smart” nanocontainers - M U S T - T. Hack, EADS Deutschland GmbH, Munich/D; M.L. Zheludkevich, University of Aveiro/P</p>
Y3	<p>Total non-chrome coating system flying on U.S.A.F., South Korean A.F., and Norwegian Rescue Aircraft <u>E. Morris</u>, C. Athanasopoulos, Deft Inc., Irvine, CA/USA; R. Jaffke, G. Abad, Northrop Grumman, El Segundo, CA/USA; J. Stephens, USAF AFMC, Warner Robins, GA/USA</p>





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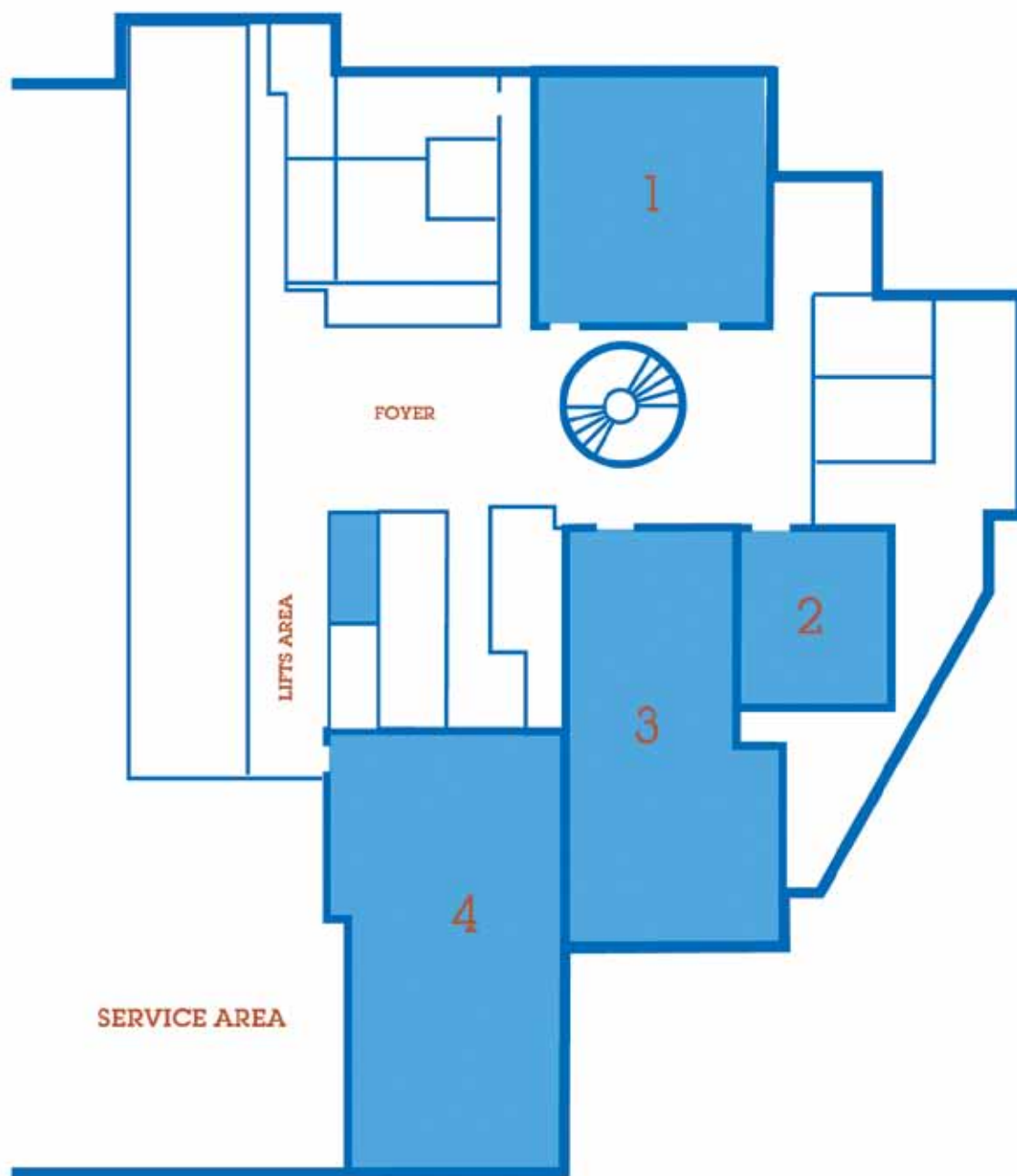
CONFERENCE ROOMS



1ST FLOOR

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- ROOM 3 NEPTUN
- ROOM 4 MARS
- ROOM 5 JUPITER
- ROOM 6 PLUTON
- ROOM 7 GALAXY I
- ROOM 8 GALAXY II
- ROOM 9 GALAXY III



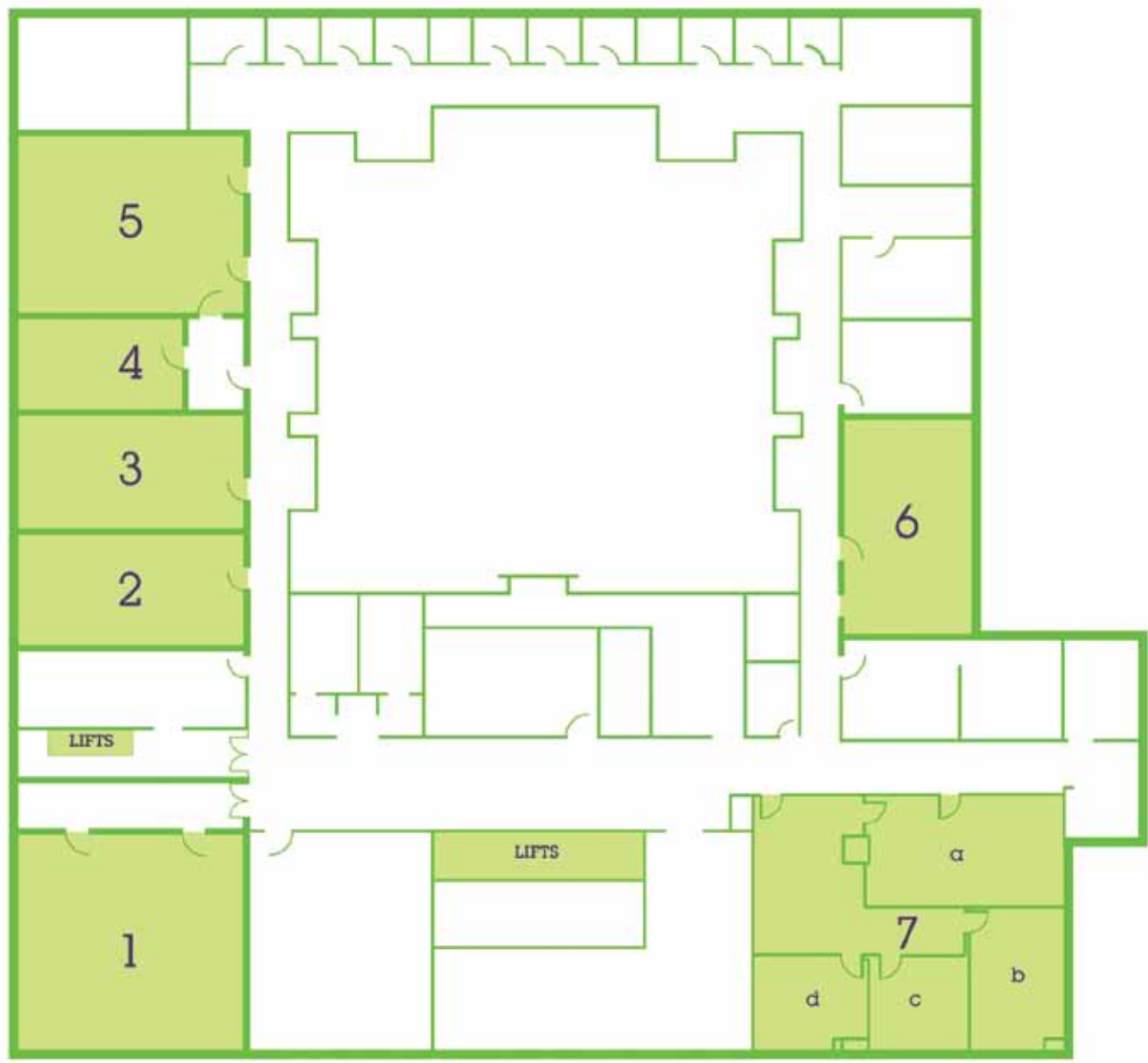
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CONFERENCE ROOMS



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 - ROOM 5 DELTA
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 - ROOM 7 ALPHA



ClampOn AS has been the leading supplier of topside and subsea non-invasive instruments for more than 16 years. The past 4 years ClampOn has spent much time and resources in developing the Subsea non-intrusive Corrosion Erosion Monitor (CEM) which utilize an unique method for monitoring the wall thickness, providing excellent coverage area. ClampOn has made great effort to further develop our existing technology such as our acoustic sand detectors, pig detectors and leak monitors, great improvements to sensitivity, filtering and accuracy has been achieved. We have also introduced 3 axis vibration monitoring as a add on feature to all their instruments both topside and subsea. We work with our customers in the oil & gas industry to optimize their productivity and to safeguard their investments.

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Sulzer manufactures industrial machinery and equipment, surfacing technology, rotating equipment and maintenance serving markets such as oil and gas, hydrocarbon processing, power generation, pulp and paper, aviation, and automotive industries.

Sulzer Metco is a leading global supplier of solutions, products, and services for thermal spray, thin-film and other surface technologies and provider of machining services serving industries such as power generation, aviation, automotive and other specialized markets.

Sulzer Tower Field Services is a tower specialist performing tray and packing installation, tower maintenance, plant turnaround projects, retrofits and emergency repairs. Years of successful tower and vessel experience assures our customers of a partner who is safe, cost effective and technically experienced.

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Stopaq BV manufactures visco-elastic technology for anticorrosion and sealing in the onshore pipeline, offshore industry, and is suitable to be applied in extreme climates.

The systems do not cathodically disbond. The material is impermeable once applied and exhibits self-healing features even at very low temperatures. Therefore, truly Seal for Life.

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Cormet Testing Systems offers material and corrosion testing instruments. We manufacture a wide spectrum of research and testing instruments for in situ investigations of materials in laboratory and field environment. Instruments include

- Loading devices for stress corrosion cracking and fatigue tests.
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- Customised corrosion research and testing instruments.

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www.cormet.fi

EXHIBITORS



The EFC is a federation of over 30 societies from 25 different European countries with an interest in corrosion, including affiliate and international members from outside of Europe. Altogether, its member societies represent the corrosion interests of more than 25,000 engineers and scientists. Founded in 1955, its aim is to advance the science

of corrosion, protection of materials and foster technological collaboration by promoting cooperation through its 19 working parties of corrosion specialty areas.

EUROCORR, is the EFC's annual flagship event and is held in a different European country every year through a bid selection process. The EFC is registered in Belgium and has secretariats in France, Germany and the UK.

www.efcweb.org



Gamry is showing our full line of products for DC corrosion techniques, impedance spectroscopy, electrochemical frequency modulation, noise analysis, and critical pitting temperature. Gamry has been an innovator in the corrosion market since 1989. We provide flexible software and high performance floating potentiostats such as our versatile Reference 600 and the new Interface 1000. From cells like our ParaCell Corrosion Cell to accessories like our unique 8 channel ECM8 Multiplexer, Gamry has the solutions you want and the technical support you need.

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Related with cathodic protection against corrosion of; water, fuel, natural gas pipelines, underground and above ground storage tanks, all kinds of industrial facilities, steel piles placed into the sea and lake, ships having steel bodies; making field SURVEY Works, PROJECT preparations, completely local and factory-made MATERIAL PRODUCTION, MOUNTING, OPERATING, MAINTENANCE and TRAINING services.

PRODUCTS: 30 YEARS OF FABRICATION LEVEL IN TURKEY magnesium, aluminium, zinc galvanic (sacrificial) anodes, permanent (auxiliary) anodes, manually and automatically operated scada adjusted transformer/rectifier units, polarization cell, insulation flange gasket kits, reference electrodes, measuring boxes, line markers and arcal markers.

www.naka.com.tr



CorrPRE Engineering is specialised in the development, engineering, production and distribution of sacrificial anodes for steel in concrete throughout the world under our own brand names.

In addition we are also specialised in corrosion surveys of both steel and concrete structures. We are specifically experienced in pre-stressed and post-tensioned structures.

Our products are supplied through a carefully selected group of distributors with a specific know-how of this technology to guarantee technical support and full performance of our products after installation.

Our expertise is based upon many years of experience and know-how providing innovative corrosion protection solutions for concrete repair and concrete rehabilitation projects.

www.corrpre.com



Founded in 1943 by a group of 11 corrosion engineers, NACE International now has more than 29,000 members in over 100 countries. NACE is the world's largest organization dedicated to the study of corrosion and is the global voice of the corrosion control and prevention industry. NACE seeks to:

- educate corrosion professionals in all relevant industries through training and certification;
- establish industry-wide communication through membership events and activities;
- promote research of new technology through trade standards and publications;
- advocate on behalf of corrosion experts among public and private sectors.

www.nace.org



"At first starting in 1983 as a pure trading venture in Starnberg (Munich-Germany) Voelkel Industrial Products GmbH (VIP) today stands as a synonym for competence, authority and top quality in the world of professional industrial adhesives and coatings.

„Time is money“... In the course of ever time-more optimal working processes and rising requirements of process security VIP specialized in the last years in the production and world-wide marketing of innovative 2-Components Technologies.

With POLYUREA, a highly reactive coating-system particularly for the surface protection of concrete, steel and foam, VIP has opened a new chapter of most modern 2-Part Coating Technologies.

The uniqueness of POLYUREA is to date unequalled and strikes conventional systems, like epoxy resin coatings, PU coatings, bitumen and polysulfide.

The overwhelming resonance on already successfully completed large-scale projects world-wide in the Oil, Gas and Petrochemical industry exceeded all expectations by far".

www.polyurea-solutions.com



Founded in 2007, the Turkish General Galvanizers Association (GALDER) is a non-profit trade association dedicated to serving the needs of fabricators, architects, specifiers, and engineers, providing technical support on today's innovative applications and technological developments in hot-dip galvanizing for corrosion control.

The GALDER also provides a number of services to galvanizers and zinc producers in the industry, including serving as a process technology research and information resource, liaison to environmental and safety regulatory authorities, and an active member of committees within specification, corrosion, and government transportation and infrastructure agencies.

Members of the GALDER utilize zinc in the process of providing durable steel products protected from corrosion for generations for human needs. These galvanized products are used for shelter, transportation, infrastructure, and consumer products. The GALDER works to enhance galvanizing's contribution to society and to ensure the process is in harmony with the natural environment and the needs of communities, now and in the future.

www.galder.org.tr

EXHIBITORS



Haynes International Inc. is a developer, manufacturer and marketer of HASTELLOY(R) and HAYNES(R) high-performance alloys for use in corrosion and high-temperature applications. Our standard product forms include sheet and plate, bar, tube and pipe, wire and welding consumables and fittings. Our products are stocked in our sales and service centers worldwide. We offer value-added services such as near-net shaped parts, specialized cutting, kitting, and alloy consultation. This year we are celebrating our 100th year anniversary, and are proud to continue our 100 years of innovation.

www.haynesintl.com



Ball valve specialist and manufacturer, our offer is covering a wide range of applications from industrial vacuum to 100 Bars and from -200°C (Cryogenics) to high temperature (+350°C). We are serving the corrosion market with materials as stainless steel 316L, 904L, Hastelloy, Titanium... Our products have the major international agreements (Ta-luft, Fire Safe, FDA, CE, TPED, ATEX). We offer also "customized products" to fulfil our clients' requirements. Our sales network is keeping stock in a large number of European countries as well as in Asia, USA and Africa.

www.meca-inox.com



We are a leading company in the field of Cathodic Protection, Corrosion Control and CP Remote Monitoring Systems, based in Germany.

We specialise in Intensive measurement, Design, Engineering, Materials, Project Supervision, Installation and Commissioning and Remote Monitoring Products for all facets of Cathodic Protection Systems.

We specialise in these systems for international Oil & Gas industry, Refineries, Petrochemical facilities, Transmission Pipelines, Harbour Jetties and off shore platforms.

Steffel has been in the business for more than 40 years. We provide you with best solutions for your complicated Corrosion problems.

We take pride in offering our customers the best that German engineering and industry has to offer.

www.steffel.com



-Headquartered in Berlin, Germany Atotech is one of the world's leading suppliers of integrated production systems, chemistry, equipment, know-how and service for corrosion resistance, decorative, functional electroplating, semiconductor and printed circuit board manufacturing.

-Three regional headquarters, 17 TechCenters and 16 production plants mean that Atotech is best situated to offer the fastest and most efficient support to all its customers around the world.

-Atotech is a truly international company employing over 3,700 people in more than 40 countries.

www.atotech.com



The integrity of buried pipelines in parallel with corrosion control is of paramount importance from a safety, environmental and cost perspective. ENERMAK provides a range of Pipeline Integrity products from Smart Interrupters, CIPS equipments which enable the measurement of the effectiveness of Cathodic Protection Systems to Pipeline Current Mapping, DCVG application to identify and locate weaknesses and faults in pipeline coatings.

www.enermak.com/tr



www.ge-mcs.com

GE Measurement & Control is a leading innovator in advanced, sensor-based measurement, non-destructive testing and inspection and condition monitoring. Providing healthcare for our customers' most critical assets, we deliver accuracy, productivity and safety to a wide range of industries, including oil & gas, power generation, aerospace, metals and transportation. Headquartered in Boston, USA, Measurement & Control has over 40 facilities in 25 countries and is part of GE Oil & Gas. For further information, visit www.ge-mcs.com



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www.botas.gov.tr

BOTAŞ, which was established on the date of August 15, 1974 with the aim of transportation of oil from Iraq to Ceyhan, has enlarged its business field since 1987 by adding the natural gas transportation and trade to its crude oil transportation activities through pipeline. From that year on, BOTAŞ has gained a commercial identity. The monopoly status of BOTAŞ in importing, transmitting, distributing, storing and selling of natural gas in Turkey has been abolished with the Natural Gas Market Law number 4646 which was enacted on May 2, 2001 and afterwards the market has been opened to the third parties on November 2, 2002 on.



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The Trenton Corporation has been providing excellent anticorrosion coating materials for a variety of environments since 1949. Our products include a selection of wax-tapes, primers, outerwraps and hot-applied coatings that work to protect your resources on aboveground and belowground pipe, irregular fittings, bridge spans and transitions. Effective and long-lasting, thousands of miles of pipelines are now protected by Trenton systems throughout the world. Web site: www.trentoncorp.com. European sales office: Trenton Europe, 8 rue de Berri, 75008 PARIS FRANCE Email: europe@trentoncorp.com

www.trentoncorp.com.



Founded in 1983, ERGIL Group provides a comprehensive range of professional services to Oil, Gas, Petrochemical, Chemical, Water industries for over 30 years. ERGIL operates out of its headquarters in Istanbul, Turkey with branch offices in United Arab Emirates, Singapore and Azerbaijan. ERGIL Group is structured as a main company with five distinct subdivisions. These subdivisions are Engineering & Construction, Storage Tanks & Vessels, Storage Tank Equipment, Fire Fighting and Cathodic Protection

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BOTAŞ International Limited (BIL) was established by BOTAŞ for developing strong, efficient and cooperative relations with foreign companies, which is of utmost importance to strengthen its international reputation and therefore support its willingness to participate in various projects and activities abroad on July 3, 1996. In 2001, Botaş International Limited (BIL) has been restructured in order to operate the BTC (Baku-Tbilisi-Ceyhan) Crude Oil Pipeline.

www.botasint.com



Erciyas Steel Pipe Co. was founded in 1990 in Izmit to produce spiral-welded (SAW) steel pipes. Because of the requirements that emerged during development, it later moved to the factory in Duzce, which was built on an area of 110.000 sq mtr (27 acres) with an enclosed area of 30,000 m² (323.000 sq ft) outfitted with the latest technology.

www.erciyas.com

At the beginning of 1999, by obtaining API 5L and ISO 9001 certificates Erciyas, added oil and gas pipes to its range of products and improved its quality system. After a short period of time Erciyas become one of the leading manufacturers of spiral-welded steel pipes in Turkey; and today Erciyas is standing among the top manufacturers of the world.



Turkey has so much to offer her visitors: breathtaking natural beauties, unique historical and archeological sites, steadily improving hotel and touristic infrastructure, a tradition of hospitality and competitive prices. It is not surprising therefore that this country has recently become one of the world's most popular tourism destinations. Due to Turkey's diverse geography, one can experience four different climates in any one day. The rectangular shaped country is washed on three sides by three different seas. Its shores are laced with beaches, bays, coves, ports, islands and peninsulas. The summers are long, lasting as long as eight months in some areas. Turkey is also blessed with majestic mountains and valleys, lakes, rivers, waterfalls and grottoes perfect for winter and summer tourism and sports of all kinds.

Official Name

Republic of Turkey

Date of Foundation

October 29, 1923

Capital

Ankara

Largest Cities

İstanbul, Ankara, Izmir, Adana, Antalya

Area

814.578 km²

Geographical Coordinates

Eastern Meridians 26° and 45° and Northern Parallels 36° and 42°

Coastal Borders

Mediterranean Sea in the south, Aegean Sea in the west and Black Sea in the north

Language

The official language is Turkish. English is widely spoken in major cities.

Currency

Banknotes: 5, 10, 20, 50, 100 & 200 TL Coins: 5, 10, 25 & 50 Kuruş and 1 TL

You can obtain currency before travelling to Turkey or on arrival. Exchange rates are usually slightly better in Turkey and all international airports have exchange facilities.

Time Zone

GMT+2. CET +1. and EST (US -East) +7

Business Hours

The workweek in Turkey runs from Monday to Friday. Banks,

government offices and majority of corporate offices open at 9 AM and close at 6 PM.

Public Holidays

There are two types of public holidays in Turkey; Those fall on the same day each year and the religious festivals which change according to the lunar calendar and, therefore, fall on different dates each year.

Visas

For 108 countries visas are easily obtained upon arrival to the airport and are required for citizens of most countries.

Electricity

220V. European standard round two-pin sockets.

Communications

Turkey has three GSM operators, with all of them offering 3G services and almost over 95% coverage over the country. Internet service is available all around the country.

International Dial Code

+90

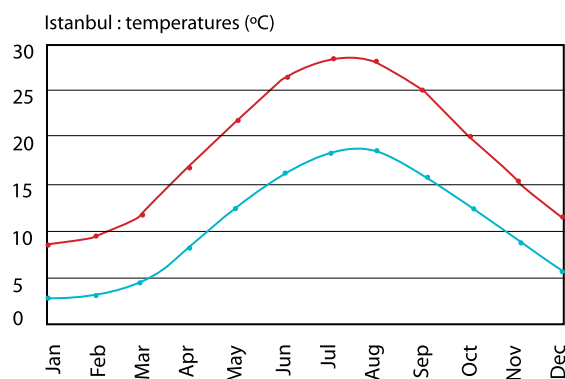
Taxis

Taxis are easy to spot as they are all bright yellow in colour. All have a taxi meter, and you should ensure that this is switched on at the beginning of your journey. If you are travelling outside the city boundaries it is usual to agree a fixed rate in advance.

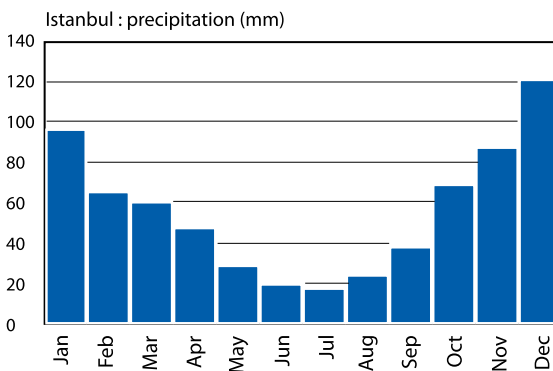
Weather

For general information on the climate and up-to-date weather forecasts visit www.meteoroloji.gov.tr

Istanbul Turkey Annual Temperature Graph



Istanbul Turkey Yearly Precipitation Graph





ISTANBUL TECHNICAL UNIVERSITY AYAZAGA CAMPUS



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- Araçlın Student Housing _____
- Ari Student Housing _____
- Ayazoğa Student Housing _____
- Birkan Student Housing _____
- Gök Student Housing _____
- Lakeside Student Housing _____
- Valley Student Housing _____
- Verda Ürünütil Student Housing _____
- SOCIAL UNITS**
- Çamlık Restaurant-Café _____
- Bookstore _____
- Campus Housing _____
- Students' Guest House _____



ISTANBUL RAIL NETWORK MAP

