



Tentative Technical Program

30th September 2018

September 30th 2018: 14:00 – 17:30 - Delegate Registration

September 30th 2018: 19:00 – 21:00 - Conference & Expo Inauguration

September 30th 2018: 21:00 - 22:00 - Dinner

1st October 2018

0900 - 1100	Cathodic and Anodic Protection -1 (CAP-1)	Hall-A
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Paper No.	Paper
CAP11 Keynote	Cathodic Protection Management of Complex Pipeline Network Hasan Sabri, Kuwait Oil Company, Kuwait
CAP12	Use of Decouplers with AC Voltage Mitigation Jay Warner, Dairyland Electrical Industries, Stoughton, WI USA
CAP13	Unravelling the Impact of Internal pipeline debris deposition on External Cathodic Protection system – Investigative approach to IJ failure Rituraj Mishra and Keshav Dewangan, Bharat Petroleum Corporation Ltd (R), Mumbai
CAP14	Above Ground Storage Tank – Case Study of a Linear anode based cathodic protection system design and installation aspects on a new construction tank and existing tank Shailesh Javia, MATCOR Inc., USA
CAP15	Limitation of Cathodic Protection & Corrosion of In service Insulated Underground Cross Country line Amit Kumar Mishra, Saurabh Vats, Jayaram Bhat M. Mangalore Refinery and Petrochemicals Limited, Mangalore
CAP16	Cathodic Protection System for Buried Plant Piping – Challenges Vijay Mittal and Anoop Kumar Singh, GAIL (India) Ltd. Vijaipur, Guna

0900 - 1100	Coatings, Linings and Thermal Insulation - 1 (CLT-1)	Hall-B
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Paper No.	Paper
CLT11	Superhydrophobic Coatings: A Paradigm Shift in Corrosion Protection Technologies.
Keynote	Dr. Bimal Prasad Singh, Chief Scientist, CSIR-Institute of Minerals & Materials Technology, Bhubaneswar
	Water Based Zinc-Silica-Rich Coating (WBZSRC) For Corrosion Protection Of Steel Structures
CLT12	Dr. N. R. Bose, CSIR-CGCRI, Kolkata, Soumitra De, Surya Engineering Pvt. Ltd., Kolkata and Siddhartha Roychowdhury, Steel Authority of India Limited, Kolkata
CLT13	Al Coating Instead Of Zn Metallizing On Nuclear Power Plant Components-Advantages N.S. More, Pankaj Kumar, Asim Jain, Jimmy Mathew, S.N. Prasad, A. Pillai, N Prasad, Nuclear Power Corporation of India Limited, Mumbai.
CLT14	The influence of natural oil addition on the degradation behaviour of automotive coatings Shyama Deepak Ranade, Indian Institute of Technology Madras, Chennai and Sweety Maravi, National Institute of Technology, Bhopal and Lakshman Neelakantan, Indian Institute of Technology Madras, Chennai
CLT15	Electrodeposition of Copper Foams and its use in Denitrification P.K. Aiyshwariya, Arulkumar Ganapathi, Manas Mukherjee and Lakshman Neelakantan Indian Institute of Technology Madras, Chennai
CLT16	Performance Evaluation of a Storage Tank Crossed-linked Two Components Epoxy Coating System at Three Curing Temperatures M. Dabir, S. Mukadam and A. Al-Hashem, Petroleum Research Center, Kuwait and S. Rajendran, St. Antony's College of Arts and Sciences for Women, Thamaraiipady

0900 - 1100	Corrosion in Refineries – 1 (CR-1)	Hall-C
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Paper No.	Paper
CR11	Corrosion in Refinery
Keynote	L C Gopalani, Indian Oil Corporation Ltd., Panipat
CR12	Investigation of Reboiler Leaks –Operations Overriding Material Appropriateness Sujit S. Laddha, Pandurang Salunkhe and Deepashri D. Nage, L&T Hydrocarbon Engineering Limited, Mumbai
CR13	Ceramic Coated Tube and efficient and cost effective advanced coating solution of Tubular products in extreme refinery environments Shabareesh Nair Tubacex Group, Mumbai and Venkat Ramesh, Tubacex Group, Germany
CR14	PMI & Thermal Expansion – Issues Faced during commissioning of Process Units Mahesh S, Bharat Petroleum Corporation Limited, Kochi Refinery
CR15	Failure Analysis of a SS 304 L Elbow in downstream of Reformed Gas Cooler of Hhydrogen Generation unit in a Petroleum refinery Anil Kumar Gautam, S S Jha and C Kannan, IOCL R&D Centre, Faridabad, India
CR16	Corrosion in tempered water piping circuit of Delayed Coker Unit (DCU) at Digboi Refinery

C K Yadav, Sukla Mistry, S D Chaklader, C R Rao, Indian Oil Corporation Limited, Digboi Refinery, Tinsukia
 Failure Analysis of Treated Fuel Gas Piping
CR17 Prabhat Kumar Dwivedi, Gitesh Jasper Bhengra, Mahendra Pal, Rahul Prashant
 Indian Oil Corporation limited, Panipat, India

0900 - 1100	Internal Corrosion in Pipelines -1 (ICP-1)	Hall-D
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Paper No.	Paper
ICP-11	Maintaining Pipeline Integrity through In Line Inspection
Keynote	Nowmaan Anwar, CEO, LINSCAN
ICP-12	Assessment of internal corrosion mechanisms in a natural gas pipeline containing black powder Saumitra Shankar Gupta and Deepak Agarwal, Indian Oil Corporation Limited, Noida
ICP-13	Case Study On Extensive Internal Corrosion In A Cross-Country Product Pipeline Rajesh Uprety, ERPL, Kolkata
ICP-14	Advanced erosion modelling to ensure integrity of internally clad subsea hardware T. Bos, A. Singh, S. Sarkar, Shell Technology Centre Bangalore
ICP-15	Internal Corrosion in Crude oil Pipelines. Narayana Raju.BS & Jignesh Upala, Cairn Oil & Gas, Vedanta Limited, Ahmedabad
ICP-16	Failure Analysis of tubings at Sucker Rod Pump wells Abhay Kujur, Anita Sharma and Jeetendra Gupta, Institute of Engineering and Ocean Technology, ONGC, Navi Mumbai

0900 - 1100	Materials and Composites - 1 (MC-1)	Hall-E
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Paper No.	Paper
MC11	Laser Welding of Titanium Alloy under Cathodic Protection
Keynote	Carsten Schwandt, University of Nizwa, Sultanate of Oman and University of Cambridge, UK
MC12	Material Performance Case Studies under High CO2 and Sour Field Conditions Bipin Kumar and Anil Bhardwaj, Institute of Engineering & Ocean Technology, ONGC, Navi Mumbai
MC13	Development of cold rolled ferritic stainless steel with superior corrosion and formability property P. Saravanan, S. Srikanth, Bhawna Khalkho, Vinod Kumar and S. Kumar, Steel Authority of India Limited, Ranchi
MC14	RP Tanks-A Potential Alternative Of Rubber Lined Tanks For Acid Storage Shashank Mishra, Madhusudan Sur and Kumar Sudhir, Indian Oil Corporation Limited, Mathura
MC15	Microstructural and Corrosion Behavior of Different Aluminum Content on Zinc

11:00 - 11:30	Tea / Coffee	
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	Plenary Talk	Main hall
1130 - 1215	Above Ground Storage Tank Bottom CP - Lessons Learned and What we are doing Today Jeffrey L. Didas, Senior Technical Specialist, & Corrosion Matcor, USA President, NACE International	
1215 - 0100	Corrosion Control and Cathodic Protection of Steel Reinforcement: Past Present and Future George Sergi, Technical Director, Vector Corrosion Technologies Ltd	

0100 – 0200	LUNCH	
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02:00 - 04:00	Cathodic and Anodic Protection -2 (CAP-2)	Hall-A
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Paper No.	Paper
CAP21	General Understanding Vs intended interpretation of standards in terms of Corrosion, Coating and CP requirements. Sandeep Vyas, Reliance Gas Pipelines Limited, Navi Mumbai
CAP22	CP Interference Challenges & Control - A Case Study Shakeel Isak Girkar, Renjith Vijayan Mangattu and Mario Jr Javier Zantua, ADNOC Onshore, Abu Dhabi, United Arab Emirates
CAP23	Case study on Evaluation of DC stray current and mitigation with collaborative approach Malleesh G, GAIL (India) Ltd, Ranchi & Gautam Chappity, Giribabu Puppala and Santosh Gedam, GAIL (India) Ltd, India
CAP24	Detection of AC Corrosion Using Correlated Field Data – A Case Study Gorthi SSRV Vara Prasad, Dasari Phanikumar and KVV Rama Rao, Gail (India) Limited, Rajahmundry
CAP25	Different Grounding Methods For Mitigation Of Ac Induction On Pipelines Mohammad Shums Abbas and Uma Shanker, GAIL (INDIA) Limited, NCR
CAP26	AC/DC interference of Pipelines..identification and its mitigation Soumyadip Sahoo, Indian Oil Corporation Limited, Rajbandh and Rajat Anand, Indian Oil Corporation Limited, Asansol
CAP27	AC Interference due to Low Voltage Power Transmission Lines Kirit Panchal, Sachin Karanth, Sweta Jain and Pragadesh Panchal, SARK EPC Projects Pvt. Ltd. Ahmedabad

02:00 - 04:00	Coatings, Linings and Thermal Insulation - 2 (CLT-2)	Hall-B
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Paper No.	Paper
CLT21	Surface Measurement Technologies – Importance, New Technologies, Automation Trends Rakesh Kumar Bhan, Managing Director, Fischer Measurement Technologies (India) Pvt. Ltd., Pune
Keynote	Advances in Airless Painting Application Simulator
CLT22	S. Ravichandran, Berger Paints India Limited, Kolkata and Sabarinath C Nair, Skillveri Training Solutions Private Limited, Chennai
CLT23	Surface Preparation, Salts, and Coating Performance H. Peters, Borchers Americas Inc, USA
CLT24	Comparison of corrosion protection properties of arc sprayed Zinc and ZINCAL™ coating Satish Tailor, Ankur Modi, S. C. Modi and Metallizing Equipment Company Pvt. Ltd., Jodhpur mukesh
CLT25	High Performance Corrosion Resistance – Fluoropolymer / PTFE Coated Fasteners for Valves and other Equipments used Offshore and Oil Gas Industries – Coatings for 21 Centaury Kirtan R. Dhani, Blinex Filter Coat Pvt Ltd, Mumbai
CLT26	Mill Scales Blended Polymer Composites Coating for Electrical Insulation Application Tapan Kumar Rout, A N Bhagat, & Saurabh Kundu, Tata Steel Ltd and Jayasmita Beura, Tapan Dash, BB Pallai, and Susanta Kumar Biswal, Centurion University, Bhubaneswar

02:00 - 04:00	Corrosion in Refineries – 2 (CR-2)	Hall-C
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Paper No.	Paper
CR21	Assessment of Secondary Super Heater Coil Tube of Boiler through Level III Creep Life Estimation Procedure D.Sankara Rao, S P Singh, Madan Gopal, Sova Bhattacharya, C Kannan, Indian Oil Corporation Limited, Faridabad
CR22	Fabrication of Clad Equipment and Piping Ryan Carmona, Fluor Daniel, Inc. – Philippines, Muhammad Irfan, Fluor Arabia Limited, Kingdom of Saudi Arabia, Kuntak Daru, Fluor Enterprises, USA, Anilkumar Panchal, Reliance Industries – Mumbai Cathleen Shargay, Fluor Enterprises, USA and Jigneshkumar J. Desai, Fluor Daniel India PVT. Limited, New Delhi
CR23	External Chloride Stress Corrosion Cracking In Austenitic Stainless Steel Pipe S K Bagchi, P Misra, A K Kar, N Kumar, A Dey, S Ghosal, IOCL, Haldia Refinery
CR24	Corrosion Assessment of Reactor Effluent Circuit of a Hydrocracker Unit for Increased Levels of Feed Nitrogen Gyananjan Mahanty, Shell India Markets Private Ltd., Bangalore
CR25	Corrosion Study of Air Pre-Heaters and Mitigation Methods to Improve Its Service Life Harsh Vardhan, Vibhav Gupta, S.K.Yadav, Bilat Sarkar, Indian Oil Corporation Limited, Begusarai
CR26	Frequent Cracking of Boiler Feed Water (BFW) piping network at Digboi Refinery

- CR27** Girish Kumar, S D Chaklader, C R Rao and K K Pandey, Indian Oil Corporation Limited, Digboi Refinery, Digboi
Case Study: Failure of Inter-stage cooler shell in Deep Desulfurization Unit at Guwahati Refinery
- CR28** Swapnil Zodape, S K Verma and Saugata Sahu, Indian Oil Corporation Limited, Guwahati Refinery
Corrosion of heat exchanger tubes of Cupro-Nickel metallurgy in H₂S service
S K Bagchi, P Misra, A K Kar, N Kumar, A Dey, IOCL, Haldia Refinery

02:00 - 04:00	Corrosion Control in Water Treatment Utilities – 1 (CWT -1)	Hall-D
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- Paper No.** **Paper**
- CWT-11** **Alternate Sources of Water for Industrial Utilities & Associated Challenges**
Keynote **Suryam K V, V.P. & COE (Water), Reliance Industries Ltd, Navi Mumbai**
- CWT-12** Chloride Induced Stress Corrosion Cracking of S.S. Heat Exchangers in Cooling Water Systems
S M Mahadik, Vasu Chemicals, Mumbai
- CWT-13** Corrosion in Seawater Desalination Industry
Amir Basha Syed. K, VA Tech Wabag, Chennai
- CWT-14** Troubleshooting of Scaling problems in Pressable Waxy Distillate (PWD) product cooler in Crude Distillation Unit (CDU) of Digboi Refinery- A Case Study
K K Pandey, Sukla Mistry , S D Chaklader, C R Rao and R Gayen, Indian Oil Corporation Limited, Digboi Refinery, Tinsukia
- CWT-15** Next Generation Yellow Metal Corrosion Inhibitor for Industrial Asset Protection
Jothibasu Seetharaman, Yanjiao (Andrew) Xie, Anand Harbindu, Deepak Rane, Daniel Meier, Donald A Johnson, Santanu Banerjee, Kishore Dhake, Anup Thakur and Pradeep Cheruku, Ecolab Technology Centre, Pune
- CWT-16** Determination of Gaseous leakage in cooling tower: A challenge to commitment
Dr Y S Jhala, Indian Oil Corporation Limited, Gujarat Refinery, Vadodara

02:00 - 04:00	Materials and Composites - 2 (MC-2)	Hall-E
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- Paper No.** **Paper**
- MC21** Advanced Materials and Composites for corrosion control
Keynote I. Chattoraj, National Metallurgical Laboratory, Jamshedpur
- MC22** Developing a Compliant Solution for Repairing High Temperature Piping with Composite Materials
Matthew A. Green, NRI (Neptune Research, Inc.), FL
- MC23** Investigation of the corrosion protection of electroactive polyimide (EPI)/graphitic carbon nitride (g-CN) composite coating on aluminium alloy (Al-7075) in alkaline solution
Jeetendra Kumar Malav, Ramesh C Rathod, Suresh S Umare, Visvesvaraya National Institute of Technology

- MC24** (VNIT), Nagpur
SAF 2906 (UNS S32906) for Caustic Soda and Acid Application
Sudhindra Hathwar and Vikram Pandit, SANDVIK Materials Technology, Pune
- MC25** Performance properties and mechanism of adhesion of Zinc oxide - Diglycidyl ether bisphenol A epoxy nanocomposite coating
Mukesh K. Madhup, Nisha K. Shah, 3M India Ltd & Gujarat University Navrangpura Ahmedabad

04:00 - 04:30	Tea / Coffee	
04:30 - 06:00	Technical Interactive Forum -1 Delivering Performance through Optimum Coating Specifications	Hall-A
04:30 - 06:00	Technical Interactive Forum -2 Regulations and standards in corrosion	Hall-B
04:30 - 06:00	Technical Interactive Forum -3 Integrity Management for Coating and CP system, Interference and mitigation	Hall-C
04:30 - 06:00	Technical Interactive Forum -4 Water Treatment	Hall-D
04:30 - 06:00	Young Student Scientist Forum-1 (YSF-1)	Hall-E

- Paper No.** **Paper**
- YSF11** **Surface Engineering for Wear and Corrosion**
- Keynote** **Dr. M. Kamaraj, Professor , IIT Madras, Chennai**
- YSF12** Self-healing anti-corrosive coatings based on nano-containers: A review.
Durva Naik, Institute of Chemical Technology, Mumbai
- YSF13** Microbial Induced Corrosion in RCC Structures And Its Preventive Measures - An Overview
Mohd Umar and M.S. Haji Sheik Mohammed, B S Abdur Rahman Crescent Institute of Science and Technology, Chennai
- YSF14** Application of EMI technique in damageassessment of structures
Jayalakshmi Raju, Prateek Negi, Suresh Bhalla, Indian Institute of Technology, New Delhi

and Talakokula Visalakshi, Bennett University, Greater Noida, India

06:00 - 07:00

Visit to Expo & Poster Presentation Area

07:00 - 08:00

Cultural Program

08:00 - 08:30

Dinner

2nd October 2018

0900 - 1100

Cathodic and Anodic Protection - 3 (CAP-3)

Hall-A

Paper No.

Paper

CAP31

Revealing corrosion mechanisms on large pipeline networks

Keynote

Ch. Baete and J.-M. Dewilde, Elsyca NV, Belgium

CAP32

Cathodic Protection Design Considerations for New Pipelines in Existing Pipelines Corridor
Pankaj Panchal, Corrttech Energy Ltd. , Ahmedabad

CAP33

Analysis on Structural integrity of concrete piles in costal plant area
Kartik kumar N. Narola and Nivedita S. Bhattacharyya, Engineers India Limited, New Delhi

CAP34

Cathodic protection of RCC structure
J N Agrawal, Consultant (Corrosion & CP), Greater Noida

CAP35

Study on AC Interference
Rukmangad Kondamgire, GSPL India Gasnet Limited, Gandhinagar

CAP36

Protection of Top Side of Crude Oil Storage Tanks Through Sacrificial Anode
Ashish Saxena, Ramesh Kumar Roy and Vivek Pandey, Indian Oil Corporation Limited, Noida

0900 - 1100

Coatings, Linings and Thermal Insulation - 3 (CLT-3)

Hall-B

Paper No.

Paper

CLT31

High Performance Environment Friendly Coatings: A Safe & Sustainable Approach
Amol R Bakre, 3M India Ltd, Ahmedabad

CLT32

Avoidance of Premature Pipeline Coating Failures
Ram Narayanaswamy, CAN-CORR Integrity Service Inc. Calgary, Canada

CLT33

New Generation Corrosion Control Coating Technology With High Crosslink Density

- CLT34** Atman Fozdar, Ronald Lewarchik, Raviteja Kommineni, Chemical Dynamics LLC, Plymouth, MI - USA
Self-healing anti-corrosive coatings based on nano-containers: A review.
Durva Naik, Institute of Chemical Technology, Mumbai
- CLT35** Electrochemical Analysis of Anticorrosive coatings based on S-benzylisothiuronium chloride and castor oil for Mild Steel in 3.5% NaCl Solution
Suman Lata¹ and Priti Pahuja, Deenbandhu Chhotu Ram University of Science and Technology, Murthal
- CLT36** Coatings 4.0 - Emergence of Super Durable Performance Protective Coatings
Xavier Pereira, Kansai Nerolac Paints Ltd, Mumbai

0900 - 1100	Corrosion in Refineries – 3 (CR-3)	Hall-C
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- | Paper No. | Paper |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CR31 | RCFA of supr heater coil of SG10
Jayprakash Jankiram Ingle, Hindustan Petroleum Corporation Limited Refinery, Mumbai |
| CR32 | Analysis of Accelerated Corrosion and Failure in Hydrocracker Reactor Effluent Air Cooler System
Sajan Kumar Mittal, K P Unnikrishnan and Mahendra Pal, Indian Oil Corporation limited, Panipat |
| CR33 | Repetitive Failure of Pump & Control valve in Kero Circuit of Delayed Coker Unit
S K Verma, Sandeep Rishi, Imran Ali Khan, Bbhasakar Devchaudhury, Santanu B Baruah, Chief inspection manager, IOCL-Guwahati Refinery |
| CR34 | Preferential Corrosion-Erosion Of Weldments Of Lean/Rich Amine Piping In Refineries
N Vaartha, Sukant Dev and Rajeev Ranjan Ravi, Indian Oil Corporation Limited, Mathura |
| CR35 | Corrosion in Stripper Re-boliers of LPG Recovery Section of Delayed Coker Unit (DCU) at Digboi Refinery
C K Yadav, Sukla Mistry, S D Chaklader and C R Rao, Indian Oil Corporation Limited, Digboi Refinery, Tinsukia |
| CR36 | High Tan Crude Processing-Refinery Experience and Corrosion Mitigation
Kaushik Boral, Sukant Dev and N Vaartha, Indian Oil Corporation Limited, Mathura refinery |
| CR37 | Failure Analysis of Duplex (Uns 31803) In A Refinery
Vikram Pandit and Rohit Ojha, SANDVIK Materials Technology, Pune |
| CR38 | Naphthenic acid corrosion of SS 316L tubes in Crude Heater
Vishwanth Dasari, Pradeep Kumar Ghosh, Sudarshan Kumar and Arvinder Singh, Indian Oil Corporation Limited, Gujarat Refinery. |

0900 - 1100	Microbial Corrosion and Inhibitors – 1 (MCI-1)	Hall-D
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- | Paper No. | Paper |
|---------------|-------------------------------------------------------------------------------------------|
| MCI-11 | The Relationship Between Toxic Metal Ions in Drinking Water and Corrosion Products |

Keynote	Brenda J. Little, B.J. Little Consulting LLC
MCI-12	MIC problems in Hydrocarbon systems– Way forward Jaya Rawat, Bharat Petroleum Corporate R&D Center, Greater Noida
MCI -13	Design and Development of Novel Corrosion Inhibitors: A Quantum Chemical and Molecular Dynamics Study Dharmendr Kumar, Vinay Jain, Beena Rai, Tata Research Development & Design Centre (TRDDC), Pune
MCI -14	Design and development of efficient corrosion inhibitor for petroleum oil wells M. Yadav, Vandan Saraswat, Nidhi Tiwari and Laldeep Gope, Indian Institute of Technology (ISM) Dhanbad
MCI -15	Evaluation of Six Dual Biocide Inhibitors Against Planktonic and Sessile Populations of Bacteria in South East Kuwait Oilfields S. Mukadam, S. Jose, M. Dabir and A. Al-Hashem, Kuwait Institute for Scientific Research, Kuwait
MCI -16	Study on the Effects of Ethylenediamine and Plant Extract as a corrosion Inhibitor for Mild Steel Passivation in Bioethanol Prakash Katuwal, Keshav Raj Gaire and Jagadeesh Bhattarai, Tribhuvan University, Kathmandu, Nepal

0900 - 1100	Materials and Composites - 3 (MC-3)	Hall-E
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Paper No.	Paper
MC31	Acid and alkali corrosion of porous silicon carbide ceramic membrane Dulal Das and Nijhuma Kayal, CSIR-Central Glass and Ceramic Research Institute, Kolkata
MC32	Failure Analysis of 2-7/8" Tubing of an Onshore- well using Process Cavity Pump Maushumi Kakoti Talukdar, Abhay Kujur, S.K.Velusshami, Anita Sharma, Jeetendra Gupta and P.K.Borghate, IEOT, ONGC , Navi Mumbai
MC33	Atmospheric corrosion of boron doped iron phosphate glass studied by Raman Spectroscopy M. Premila, R. Rajaraman, S. Abhaya, R. Govindaraj and G. Amarendra Indira Gandhi Centre for Atomic Research, Kalpakkam

11:00 - 11:30	Tea / Coffee	
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	Plenary Talk	
1130 - 1215	Corrosion In The Defence Sector S.V. Kamat, Distinguished Scientist & Director General, Naval Systems and Materials Defence Research and Development Organisation (DRDO)	Main hall
1215 - 0100	Innovative Corrosion Inspection Solutions for Oil & Gas Industries Krishnan Balasubramanian, Chair Professor	

0100 – 0200	LUNCH	
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02:00 - 04:00	Internal Corrosion in Pipelines -2 (ICP-2)	Hall-A
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Paper No.

Paper

- ICP21** Gas well flow lines & wellhead failures: Failure investigation, Root cause Analysis and Remedial measures – A case study
Subodh Purohit and M. C. Nihalani, Oil India Limited, Duliajan, India
- ICP22** Integrity Assessment, Challenges and Resolution for a CRA Pipeline
Abhay Agrawal and Anil Kumar Bhatt, Vedanta Ltd (Cairn Oil & Gas), Herbert Willems, NDT Global, Germany and Suji Kurungodan, NDT Global, Dubai, United Arab Emirates
- ICP23** Optimization of Corrosion Inhibitor Dosing Rate in World's Longest Heated Crude Oil Pipeline
Sahab Singh Gurjar, Vedanta Limited, Barmer
- ICP24** Liquid Hydrocarbon Pipeline Failure - Root Cause Assessment
Ram Narayanaswamy, CAN-CORR Integrity Service Inc. Calgary, Alberta
- ICP25** Qualification of lower-cost CRA clad material for flowlines
T. Bos, Shell Technology Centre, Bangalore and M.E. Wilms, J. Smit, Shell Technology Centre Amsterdam
- ICP26** Role of Integrity Management in Capacity Augmentation of Pipeline's
Anil Kumar Bhat and Abhay Agrawal, Vedanta Limited (Cairn Oil & Gas)

02:00 - 04:00	Power Plants and Utilities -1 (PPU-1)	Hall-B
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Paper No.

Paper

- PPU-11** **Hydrogen embrittlement property of high strength in under atmospheric corrosion environment**
Keynote Eiji Akiyama, Institute for Materials Research, Tohoku University
- PPU-12** Corrosion Risks and Associated Mitigation Measures for Power Plants
Veena Ravishankar and Dr. Rajashekhar R Malur, TATA Consulting Engineers, Bengaluru
- PPU-13** Effect of surface machining on corrosion properties of austenitic SS 304L
Annesha Das, Supratik Roychowdhury, Vivekanand Kaina and Bhabha Atomic Research Centre, Mumbai
- PPU-14** Self-healing Plasma Spray Coatings on Graphite for High-Temperature Applications
Madhura B, E. Vetrivendan, Ch. Jagadeeswara Rao, S. Ningshen, Indira Gandhi Centre for Atomic Research,

Kalpakkam

- PPU-15** Evaluation Of Corrosion Inhibition Efficiency Of Octadecylamine On Carbon Steel Surfaces
Sinu Chandran, Jithina M.T. , Veena Subramanian, S Rangarajan and S. Velmurugan, BARC Facilities, Kalpakkam and Christian College Chengannur, Kerala
- PPU-16** Some Cases of Condenser Tube Failures at Power Plants
Ashwini K. Sinha, Corrosion and Water Management Consultants, Noida

02:00 - 04:00	Corrosion in Petrochemical, Chemical and Fertilizer Industries -1 (PCF-1)	Hall-C
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- Paper No.** **Paper**
- PCF-11** **Challenges in Materials and Thermochemical Processes for Hydrogen Production**
Keynote **Dr. Bharat Bhargava, Director General, ONGC Energy Centre, New Delhi**
- PCF-12** Case Study: Root Cause Analysis of a Dock Pipeline Failure
D. Dubey, Sr. Manager -Engineering Services, Adani Ports & SEZ Ltd, Mundra, Gujarat
- PCF-13** Consequence-Based Strategy for Cooling Water Exchangers
Savio Rebello, Reliance Industries Limited, Navi Mumbai
- PCF-14** Failure of Amine Reclaimer Tube Bundle in Amine Treatment Unit
Gourab Seal and B.K. Muduli, Indian Oil Corporation Limited, Panipat
- PCF-15** Corrosion and its mitigation technique in Petrochemical, Fertilizer and other Chemical Industries
Debabrata Pal, Berger Paints India Limited, Kolkata
- PCF-16** Frequent Cracking of Boiler Feed Water (BFW) piping network in a Petroleum Refinery
Girish Kumar, S D Chaklader, C R Rao and K K Pandey, Indian Oil Corporation Limited, Digboi Refinery, Digboi

02:00 - 04:00	Microbial Corrosion and Inhibitors – 2 (MCI-2)	Hall-D
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- Paper No.** **Paper**
- MCI-21** **Biofouling And Microbially Influenced Corrosion**
Keynote **Prof. K. A. Natarajan, NASI Honorary Scientist & Emeritus Professor, Indian Institute of Science, Bangalore**
- MCI-22** Orthodontic wires of Ni-Cr and Ni-Ti alloys and its corrosion resistance in the absence and presence of Erythromycin tablets 500mg in artificial saliva
V.Agnes Brigitta, SBM college of Engineering and Technology, Dindigul, C.Thangavelu, Periyar E.V.R. College (Autonomous), Trichirappalli, S.Rajendran, St. Antony's College of Arts and Science For Women, Thamaraipadi Abdulhameed Al-Hashem and Kuwait Institute for Scientific Research (KISR), Kuwait
- MCI-23** Corrosion Behaviour of Orthodontic Braces Made of 18 Karat Gold Alloy in Artificial Saliva in Presence of Some Tablets

- MCI-24** A. Anandan, D. Sathiyaraj, SKV Higher Secondary School, Kandampalayam, Susai Rajendran, St Antony's College of Arts and Sciences for women, Dindigul, J.Sathiyabama, GTN Arts College, Dindigul and Abdulhameed Al-Hashem, Kuwait Institute for Scientific Research, Kuwait
Assessment of Potential Efficacy of Generic Biocides for Improved Microbial Treatment in Water Injection Systems
- MCI-25** Veena Kothe, Archana and S.K.Bhattacharya, ONGC, Panvel, Navi Mumbai
Inhibitory Effect of polymer and Synergistic Gemini Surfactant Additive for Mild Steel
- MCI-26** R. Aslam, Mohammad Mobin, Jeenat Aslam, Aligarh Muslim University, Aligarh
Influence of Trisodium Citrate on corrosion resistance of mild steel in simulated oil well water at 25°C.
- MCI-27** R.Kala, D.Lakshmi, V.Pandiyammal, M.V. Muthiah Government Arts college for Women, Dindigul, Susai Rajendran, St Antony's College of Arts and Science for Women, Dindigul and Abdulhameed Al-Hashem, Kuwait Institute for Scientific Research, Kuwait
Mitigating Corrosion of Aluminium in 0.5 M Hydrochloric Acid by Using Benzyl Triphenyl Phosphonium Chloride
- Mansi Y. Chaudhary, Shramila Yadav & Anita K. Yadav, Rajdhani College and Bhaskarana & Gurmeet Singh, University of Delhi, New Delhi

02:00 - 04:00	Corrosion Monitoring and Testing - 1 (CMT-1)	Hall-E
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- Paper No.** **Paper**
- CMT-11** **Additive Manufacturing (3D printing) of metallic components: Opportunities for Industry but also challenges for testing and assurance**
Keynote **Sam McFarland, Principal Technical Expert, Shell Technology Centre Bangalore**
- CMT-12** Pulsed Eddy Current Array Technology for the Inspection of Corrosion Under Insulation
Vincent Demers-Carpentier, Maxime Rochette, Charles Tremblay, Marco Michele Sisto, Andr anne Potvin, Eddyfi Technologies, Qu bec, Canada
- CMT-13** ECDA - Indirect Inspection through Combined On ground Survey of Pipeline and its Benefits
Atul Parmar, Indian Oil Corporation Limited, Noida
- CMT-14** Carrier & Casing Pipe Testing
Gaurav Navghare, Hindustan Petroleum Corporation Limited, Trombay
- CMT-15** IoT & Corrosion Monitoring Techniques(Make Thinks Easy)
D Sakthivel, GAIL(India)ltd., India
- CMT-16** Advanced On-Stream Thickness Monitoring System for Refinery applications-An Overview
Yogesh Kumar, Sanjib Ghoshal, P.Deshmukh, Indian Oil Corporation Limited, Paradip Refinery
- CMT-17** Role of Water Injection pipelines in water flooding, their corrosion monitoring through LPR probe & mitigation procedures adopted for uninterrupted pipeline operations.

Vinod Sharma and Sandeep Narain, Ex-Oil & Natural Gas Corporation Ltd, Mumbai and Atul Kumar Gupta,
Guru Ram Rai College, Dehra Dun

04:00 - 04:30	Tea / Coffee	
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04:30 - 06:00	Late Dr. Baldev Raj Memorial Lecture	Main Hall
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06:00 - 07:00	Visit to Expo & Poster Presentation Area	
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07:00 - 08:00	Corrosion Awareness Award - 2018 Ceremony	
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08:00 - 08:30	Dinner	
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3rd October 2018

09:00-11:00	Workshop : Jung Se Jung - 1	Hall-A
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0900 - 1100	Corrosion in RCC Structures - 1 (RCC-1)	Hall-B
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Paper No.	Paper
RCC-11	NDT for Diagnosis of Corrosion in Rebar and its Repair & Restoration in Rcc Structures to Enhance its Residual Service Life – Case Studies B. S. Rao, Adarsh Kumar NS and D. Pavan Kumar, National Council for Cement and Building Materials (NCB), Hyderabad
RCC-12	Performance Evaluation Of Corrosion Inhibitors And Their Corrosion Inhibiting Efficiency For R.C.C Structures P.N. Ojha, Puneet Kaura, Piyush Mittal & V.V.Arora, National Council for Cement and Building Materials, Ballabgarh
RCC-13	Development of Short Term Test Method to Select the Sacrificial Anode for Cathodic Protection Of RC Structures Deepak K. Kamde and Radhakrishna G. Pillai, Indian Institute of Technology Madras, Chennai
RCC-14	Performance Evaluation of Corrosion Inhibitors Against Steel Reinforcement Corrosion in Concrete Subjected to Internal Chloride Exposure Frezgi Assefa Mekonnen, Jyotish Kumar Das and Bulu Pradhan, IIT Guwahati, Guwahati
RCC-15	Cathodic Protection of Reinforcing Bar in CFRP Strengthened RCC Structures Prasad V. Bahekar, Sangeeta S. Gadve, Visvesvaraya National Institute of Technology, Nagpur
RCC-16	Corrosion Damage Assessment of Pre-Cast Reinforced Concrete Box Units Bhaskar Sangoju, A. Kanchanadevi K Sivasubramanian and K Ramanjaneyulu, CSIR - Structural Engineering Research Centre, Chennai
RCC-17	Electrochemical Techniques for Corrosion Control in Steel Reinforced Concrete Structures S.R. Karade and Anujay Rawat, CSIR-Central Building Research Institute, Roorkee
RCC-18	Eco-Friendly Corrosion Inhibitor For Steel Reinforced Concrete Anujay Rawat, S. R. Karade and P. C. Thapliyal, CSIR-Central Building Research Institute, Roorkee

0900 - 1100	Corrosion in Petrochemical, Chemical and Fertilizer Industries -2 (PCF-2)	Hall-C
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Paper No.	Paper
PCF-21	Technology Advancement and its Role in EPC
Keynote	Pramod R Mirji, Senior Consultant, Tata Consultancy Services Limited, Mumbai Significance of Corrosion Assessment in Risk Based Inspection
PCF-22	Viswanathan Venkateswaran, Asset Integrity Services, Lloyd's Register Asia, Mumbai, Maran Periyasamy Lloyd's Register of Shipping, Kuala Lumpur, Malaysia and Shivakumar Kulkarni, Lloyd's Register Asia, Mumbai
PCF-23	Managing Corrosion Under Insulation challenges in Downstream Oil Industry Rajeev Madaswamy, Shell Technology Centre Bangalore, Shell India Markets Private Limited, India
PCF-24	Lightning and High-Voltage Interference Protection On Pipelines Veiko Raab, DEHN+SÖHNE GmbH, Germany and Devesh Jaiswal, Samir Shankar, DEHN India Pvt. Ltd.,

Gurugram

Materials Degradation in High Temperature Molten CuCl Media

PCF-25 A. B. Nirukhe and D. Parvatalu, ONGC Energy Centre, Panvel, G. D. Yadav, P.S. Parhad, Institute of Chemical Technology (ICT), Mumbai and U. Kamachi Mudali, Heavy Water Board, DAE, Mumbai

PCF-26 Inspection Strategy for Corrosion under Fireproofing
Savio Rebello, Reliance Industries Limited, Navi Mumbai

0900 - 1100	Marine Corrosion (MCR1)	Hall-D
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Paper No.	Paper
MCR-11	Offshore Structure Life Extension Using Low-Cost Diver-less Cathodic Protection Retrofit Systems David L. Johnson, Galvotec Corrosion Services, USA
Keynote	Ship Rudder Corrosion – Cause and Concerns
MCR-12	Cdr (Dr) Nitin Agarwala, National Maritime Foundation, New Delhi
MCR -13	The impact of increasing of H ₂ S content on topside facilities of process complex - A view S.K.Velusshami, Bipinkumar, I.A.Ahmad, Maushumi.K.Talukdar, Anita Sharma & PK Borghate Institute of Engineering and Ocean Technology, ONGC, Navi Mumbai
MCR -14	Corrosion Behavior of Copper in Marine Environment Shubhra Pareek, Debasis Behera, Manipal University Jaipur, Rajasthan
MCR -15	Nano Technology - A New Perspective in the Development of Biocorrosion resistant Paint for Ship Hull Preethi, Shashi Bhushan Arya and Vidya Shetty National Institute of Technology, Surathkal

0900 - 1100	Corrosion Monitoring and Testing - 2 (CMT-2)	Hall-E
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Paper No.	Paper
CMT-21	Synergetic effect of hydrogen and sensitization on short fatigue crack behavior in AISI 316L steel Dr. Dhiraj K. Mahajan, Ropar Mechanics of Materials Laboratory, Indian Institute of Technology Ropar, Rupnagar
CMT-22	Fatigue Crack Growth Rate Studies on Type 304LN Parent and Weld Materials in Simulated Reactor Coolant Environment Punit Arora, P.K. Singh, J. Chattopadhyay, Bhabha Atomic Research Centre, Mumbai
CMT-23	Online corrosion monitoring of tank bottom plates using distributed fiber optic sensors. Dinesh D and Joy M.G., Indian Oil Corporation Limited, Chittoor, India
CMT-24	Liquid Hydrocarbon and Natural Gas Pipeline Corrosion in India – A Regulatory Perspective

Sathish Iyengar, Bhumesh Barapatre, Vikash Singh, Certification Engineers International Ltd, Navi Mumbai and Anil Bhardwaj, S. K. Srivastava, ONGC, Navi Mumbai

CMT-25

ICCP station Elimination Survey

Gaurav Navghare, Hindustan Petroleum Corporation Limited, Trombay

CMT-26

Experimental and theoretical studies of the corrosion inhibition effect of synthesized bithiosemicarbazone derivatives on mild steel in hydrochloric acid solution

Vandana Saraswat, MahendraYadav, Indian institute of technology (ISM), Dhanbad

CMT-27

Sulphur induced corrosion in natural gas pipeline: a Laboratory experimental identification and a review of mitigation methods

Dr Rakshit Thakkar, Dr A K Sengupta, Gail India Ltd, Vijaipur

CMT-28

AC Interference & Corrosion Control In Metallic Pipelines

Mangesh Hemant Chandwadkar, Hindustan Petroleum Corporation Ltd.

11:30 - 01:00	Workshop : Jung Se Jung - 2	Hall-A
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11:30 - 01:00	Corrosion in RCC Structures - 2 (RCC-2)	Hall-B
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Paper No.

Paper

RCC-21

Role Of Renewable Materials in Development of Protective Coatings

P.C. Thapliyal, S.R. Karade, Vibhrant, A. Dixit and R. Kumar, CSIR-Central Building Research Institute, Roorkee

RCC-22

Calibration of 'Faraday's Law' n Simulating Accelerated Corrosion For RC Structures

Aditya Singh Rajput, Umesh Kumar Sharma and Aditi Chauhan, Indian Institute of Technology, Roorkee

RCC-23

Corrosion Characteristics of Geopolymer Concrete Produced With Recycled Fine Aggregate

P.Revathi, S. Manoj Maniratnam, S.Jagan and E.Vignesh, Pondicherry Engineering College, Puducherry

RCC-24

Improvements to Corrosion Resistance of Concrete In Marine Environment

K.Murugavelu, G.Vijayakumar, K.Pandurangan, Pondicherry Engineering College, Pondicherry

RCC-25

Targeted Corrosion Protection with Distributed Galvanic Anode System

Liao, Haixue, Vector Corrosion Technologies, Canada and Dhruvesh Shah, Vector Corrosion Technologies, Vadodara

RCC-16

Corrosion Assessment in Rebars Of Normal and Geopolymer Concrete Using Piezo Sensors

T. Bansal and V. Talakokula, Bennett University, Greater Noida, Uttar Pradesh and Shubhransu, S. Bahri, S. Pal, Gautam Buddha University, Greater Noida

11:30 - 01:00	Power Plants and Utilities -2 (PPU-2)	Hall-C
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Paper No. Paper

PPU-21	Failure of Out-Board Steam Generator Evaporator, Economizer tubes in Catalytic Reformer Unit at Digboi Refinery-a Case Study K K Pandey, Sukla Mistry, S D Chaklader, C R Rao and R Gayen, Indian Oil Corporation Limited, Tinsukia
PPU-22	Corrosion Resistance and Mechanical Properties Evaluation of Thermal Barrier Coatings in Molten Sodium Coolant Paulson Varghese, Prabhat Kumar Shukla, E. Vetrivendan, Sanjay Kumar Das, D. Ponraju and S.Ningshen, Indira Gandhi Centre for Atomic Research, Kalpakkam and Homi Bhabha National Institute, Mumbai
PPU-23	Technical Study on Morpholine Dosing Optimisation P. Annadurai & Harshit Mundra, Gail (India) Ltd. Pata, Auraiya
PPU-24	Degradation Behaviour of Nanostructured CeO ₂ Coatings on Superalloy Shafaq Ashraf Lone and Atikur Rahman, National Institute of Technology Srinagar, Hazratbal

11:30 - 01:00	Young Student Scientist Forum -2 (YSF-2)	Hall-D
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Paper No. Paper

YSF11	Study of various cyclic corrosion tests and its effect on ferritic and austenitic stainless steel Hani Modi, The M.S. University of Baroda, Vadodara and Keyur Tandel, Schneider Electric India Pvt Limited, Vadodara
YSF12	Cementitious Repair Composites For Distressed Rcc Elements For Enhanced Corrosion Protection – A Review Md Muheeb Ahmed, Mohd Umar and M.S. Haji Sheik Mohammed, B.S. Abdur Rahman Institute of Science & Technology, Chennai
YSF13	Electrochemical response of embedded steel in carbonated limestone calcined clay (LC3) mortar Sundar Rathnarajan and Radhakrishna G. Pillai, Indian Institute of Technology Madras, Chennai
YSF14	Novel hyperbranched polymers and polyurethane-ureas for inhibitor and multifunctional high-performance coating application Rajnish Kumar, Ramanuj Narayan, KVS N Raju, CSIR- Indian Institute of Chemical Technology, Hyderabad

02:00 - 04:00	Corrosion Control in Water Treatment Utilities – 2 (CWT -2)	Hall-E
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Paper No.	Paper
CWT-21	Managing silica and silicate Scale formation with Antiscalant Polymer
Keynote	G Hema Sagar, Dow Chemical International Private Limited, Navi Mumbai
	Development of Corrosion Prevention Techniques at Heavy Water Plant (Kota) in Main Plant & Process Feed Water Systems
CWT-22	R.K. Sharma, S.R. Gaidhani, M. Yasin, R.K. Gupta, Heavy Water Plant, Kota, C. Mohapatra, Heavy Water Board, Mumbai and Vivekanand Kain, Bhabha Atomic Research Centre, Mumbai
CWT-23	Experiences on Online Chemical Cleaning of PVC Film Type Fills at Power Plants
	Ashwini K. Sinha, Corrosion and Water Management Consultants, Noida
CWT-24	Corrosion Mitigation and Improvement in Cycle Chemistry by Molybdate Treatment in Circulating Water System – A case study at NTPC
	GK Nayak, HK Sikhri, Kiran Diwakar and NETRA, NTPC Ltd., Noida

0100 – 0200	LUNCH	
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02:00 - 04:00	Direct Assessment Methodology Application (DAM-11)	Hall-A
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Paper No.	Paper
DAM-11	Integrity Validation Revealed Severe Internal Corrosion on a Crude Oil Jetty Non-Piggable Pipeline- A Case Study
Keynote	A K Tewari, Deepak Agarwal, Indian Oil Corporation Limited, Noida and Ashish Khera, Allied Engineers, New Delhi
DAM-12	How Accurate is ICDA? A Comparison of In-line Inspection and Assessment Results of Gas Pipelines
	L. Barton, D. Sandana, ROSEN Group, United Kingdom
DAM-13	Evaluation of Indirect Inspection Data within ECDA Process
	Saleh Al-Sulaiman, Hasan Sabri, Eugene D'Souza, Kuwait Oil Company, Kuwait
DAM-14	Pipeline Corrosion Integrity Management Utilizing External Corrosion Direct Assessment (ECDA)
	Saleh Al-Sulaiman, Hasan Sabri, Eugene D'Souza, Kuwait Oil Company, Kuwait
DAM-15	ECDA/ICDA/SCCDA utilized to assess refined product pipelines
	P K Ghosh, Subir Kumar Mitra and Munesh Matwa, Gujarat Refinery, Vadodara
DAM-16	3rd Party Damage found through ECDA repaired by Composite Sleeve system for GSPL's HP Natural Gas Pipeline
	Dinesh Singh Bhadouria, GSPL, Gandhinagar, Andrew Patrick, Clock Spring, United Kingdom and Bidyut B. Baniah, Allied Engineers, New Delhi
DAM-17	Integrity Assessment of Non-Piggable Dry Gas Pipeline Through Direct Assessment

02:00 - 04:00	Technical Interactive Forum -5 Corrosion in Concrete	Hall-B
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02:00 - 04:00	Technical Interactive Forum -6 Corrosion Monitoring and Testing	Hall-C
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02:00 - 04:00	Microbial Corrosion and Inhibitors - 3 (MCI-31)	Hall-D
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Paper No.	Paper
MCI-31	Plant extract as novel environmental friendly corrosion inhibitor for mild steel in 1 M HCl solution Megha Basik and Mohammad Mobin, Aligarh Muslim University, Aligarh
MCI-32	Effect of imidazole derivatives structure on mild steel corrosion inhibition in sulphuric acid Punita Mourya & G. Udayabhanu, Indian Institute of Technology, Indian School of Mines, Dhanbad and Praveen Singh, Banaras Hindu University, Varanasi
MCI-33	Reduction of toxic thiourea usage by green and abundant guargum for steel corrosion inhibition Venkata Muralidhar K, Vinay Jain, Beena Rai, Tata Consultancy Services Ltd., Pune
MCI-34	Electrochemical investigation of Corrosion Resistance of Castor oil with S-Benzylisothiuronium Chloride for Mild Steel in 0.5M H ₂ SO ₄ Solution P.Pahuja and S. Lata, Deaenbandhu Chhotu Ram University of Science and Technology, Murthal
MCI-35	Study on the Effects of Ethylenediamine and Plant Extract as a corrosion Inhibitor for Mild Steel Passivation in Bioethanol Prakash Katuwal, Keshav Raj Gaire and Jagadeesh Bhattarai, Tribhuvan University, Kathmandu
MCI-36	Lime Juice extract – a potential, green corrosion inhibitor for mild steel in 1M hydrochloric acid S J Hepziba Magie Jessima and Rakesh B G, CHRIST (Deemed to be University), Bengaluru and S.Subhashini, AIHSHEW (Deemed to be University), Coimbatore
MCI-37	Corrosion inhibition of mild steel in well water using adhatoda vasica leaves extract N.Karthiga, SBM College of Engineering and Technology, Dindigul, S. Rajendran, St.Antony's College of Arts and Sciences, Dindigul, P.Prabhakar, APA College of Arts and Culture, Palani, S.Shanmugapriya, Matha College of Engineering and Technology, Chennai and Abdulhameed Al-Hashem, Kuwait Institute for Scientific Research, Kuwait

Poster Presentation

Paper No.	Paper
PP1	Case study on Predicting and Mitigation of AC interference on Natural Gas Pipelines Sandeep Kerketta, GAIL (India) Limited, Agartala
PP2	Challenges In Ac Interference Mitigation Of Petroleum Pipelines Anil Meghani and Ramesh Kumar Roy, Indian Oil Corporation Limited, Vadinar
PP3	ICCP System – Tank Internal Submerged Surfaces Gitesh Jha, Reliance Engineering Group, Mumbai
PP4	Mitigation Methods for Induced AC voltages in Underground Pipelines from HV Power Transmission Lines P.K.Jha and P.C.Yadav, Indian Oil Corporation Limited, Jaipur
PP5	Mutual Ground Bed Interference Detection & its Mitigation – A Case Study & Analysis Manish Mishra, IndianOil Corporation Limited, NOIDA, UP
PP6	Organofunctional silanes based sol-gel coatings for corrosion protection of galvanized steel Subash Padhan & G. Udayabhanu, IIT(ISM), Dhanbad and Tapan Kumar Rout, Tata Steel Group, Jajpur
PP7	Preventive Measures for Corrosion of Deicers to metals: Need of the Hour Dr. Shailee G. Acharya, Mr. Manojkumar V. Sheladiya and Dr. Ghanshyam D. Acharya, SVIT, Vasad
PP8	Influence of Chloride Concentration and Temperature on Electrochemical Behavior of Mg Metal in Simulated Body Fluid Solution Deepti Jain, Debasis Behera, Manipal University Jaipur
PP9	Anodization of AZ31 Mg alloy in sodium silicate containing electrolytes for orthopedic applications M. Kalaiyaran and N. Rajendran, Anna University, Chennai
PP10	Biocompatibility and electrochemical behavior of sodium incorporated niobium oxide coating on 316L SS for orthopedic applications K. Saranya and N. Rajendran, Anna University, Chennai
PP11	Development of TRIP-enhanced lean duplex stainless steel with superior corrosion and mechanical properties. P. Saravanan, Bhawna Khalkho, Kartik Nageswaran S. Srikanth, Vinod Kumar and S. Kumar, Steel Authority of India Limited, Ranchi
PP12	Effect of Gas Metal Arc Welding-brazing and Cold Metal Transfer Welding Techniques on the corrosion behaviour of Aluminium-Steel lap joints S. S. Sravanthi, Swati Ghosh Acharyya, University of Hyderabad, Hyderabad and G. Padmanabham, K.V.Prabhakar, International advanced research centre for Powder Metallurgy, Hyderabad
PP13	Effect of Strain induced martensite reversal on the degree of sensitization of Metastable Austenitic Stainless Steel Sourabh Shukla and Awanikumar P. Patil, Visvesvaraya National Institute of Technology (VNIT), Nagpur
PP14	Evaluation of Electrochemical Corrosion Behavior of Polyaniline/TiO ₂ Nanotubes arrays Using Dynamic Electrochemical Impedance Spectroscopy P. Agilan and N. Rajendran, Anna University, Chennai
PP15	Modeling and development of corrosion resistant nano composite Cerium molybdenum conversion coating on leaded steel substrate S. Ramasubramanian, Titan Company Limited, Hosur and S.Balaji & T.Manichandran, Thiagarajar College of

Engineering, Madurai

- PP16** Anti-corrosion investigation of Novel Thiazole derivative on mild steel in 0.5 M H₂SO₄
Ajit Kumar Pandey, University of Delhi, Delhi and Sanjeeve Thakur and Ashish Kumar Singh, Guru Govind Singh Indraprastha University, New Delhi
- PP17** Eco-friendly imidazolium based ionic liquid as a corrosion inhibitor for mild steel at Acidic pH
Bhaskaran, Mansi khera, Raj kishore sharma and Gurmeet Singh, University of Delhi, Delhi
- PP18** Inhibition Effect of a 1-n-Butyl-3-methylimidazolium hexafluorophosphate on the Corrosion of Mild Steel in Sulfuric Acid Solution
Anita Kumari, Raj Kishore Sharma, Gurmeet Singh, University of Delhi, Delhi
- PP19** Investigation on the Effect of Tinospora cordifolia Plant Extract as a Green Corrosion Inhibitor to Aluminum and Copper in Biodiesel and its Blend
Kumar Amgain, Bhesh Nath Subedi, Susan Joshi and Jagadeesh Bhattarai, Tribhuvan University, Kathmandu
- PP20** Microbiological analysis of muck and oil samples to identify major corrosion causing bacteria
Swati Telang, Reshma Shaikh, Anuradha Nerurkar, G. Archana, The Maharaja Sayajirao University of Baroda, Vadodara and Mohan Yama, Jaya Rawat, BPCL, Noida
- PP21** Molecular approaches for identifying microbial assemblages associated with microbiologically induced corrosion from oil pipeline samples
Reshma Shaikh, Swati Telang, Anuradha Nerurkar, G. Archana, The Maharaja Sayajirao University of Baroda, Vadodara and Mohan Yama, Jaya Rawat, BPCL, Noida
- PP22** Pyrazine-2-carbohydrazide as a corrosion inhibitor of mild steel in acidic media.
Bhawna Chugh, Sanjeeve Thakur, University of Delhi, Dwarka and Ashish Kumar Singh, Guru Govind Singh IndraPrastha University, Delhi
- PP23** Ultrasound Assisted Synthesized Pyrazolo[3,4-b]pyridine as Potential Corrosion Inhibitors for Mild Steel in Hydrochloric Acid solution
Priyanka Singh, Gurmeet Singh, University of Delhi, Delhi and M.A. Quraishi, King Fahd University of Petroleum & Minerals, Dhahran
- PP24** A Novel chitosan/Ag/GO Composite Coating with Enhanced Antibacterial Activity and Improved Corrosion Resistance
Geetisubhra Jena, B Anandkumar, S.C. Vanithakumari, R. P. George, John Philip and G. Amarendra , Homi Bhabha National Institute, Mumbai & Indira Gandhi Centre for Atomic Research, Kalpakkam
- PP25** High performance green concrete with improved biodeterioration resistance against fungus Fusarium sp.
Manu Harilal, B. Anandkumar, R.P. George, John Philip and G. Amarendra, Bhabha National Institute, Mumbai & Indira Gandhi Centre for Atomic Research, Kalpakkam and
Sudha Uthaman, Sathyabama Institute of Science & Technology, Chennai
- PP26** Hybrid ElectrolessNi-B/Graphene-Polymer Composites on Mild Steel to Reduce Friction and Wear Characteristics
H. Usharani and T.M. Sridhar, University of Madras, Chennai and T.S.N. Sankaranarayanan, University of Madras, Chennai & Ulsan National Institute of Science and Technology, Ulsan

04:00- 04:30	Valedictory Function	MAIN HALL
04:30- 05:00	High Tea	

