

JUBCOR

2024

CONFERENCE & EXHIBITION

INNOVATIVE SOLUTIONS FOR CORROSION CHALLENGES



Under the Patronage of H.E
Eng. Mahmoud bin Saleh Al-Theeb
CEO of the Royal Commission in Jubail

Strategic Partner

الهيئة الملكية
للجبيل وينبع
Royal Commission for Jubail & Yanbu

PRE-CONFERENCE WORKSHOPS 1 SEPTEMBER 2024 8:00AM-11:00 AM

CONFERENCE 2-4 SEPTEMBER 2024 8:30AM-05:00PM

King Abdullah Cultural Center, Jubail Industrial City

Organized By

AMPP™
Jubail Saudi Arabia, Chapter

www.jubcor.com



Executive Speakers & Panelists



Eng. Mahmoud bin Saleh Al-Theeb
CEO of the Royal Commission in Jubail



Abdullah AlQahtani
VP of Technical & Continuous Improvement at Ma'aden



Gonzalo Beltran
VP of the Manufacturing and Engineering at SADARA



Abdulaziz Alaskar
VP of Engineering & Technical Service at SATORP



Alan Thomas
CEO at AMPP



Nawaf Ghalib Alotaibi
GM OF TECHNICAL AFFAIRS at Royal Commission in Jubail



Mohammed Ali Bazaid
SABIC Manufacturing Leader

WORKSHOPS

1



Start at 08 am - 11 Am



Workshop Leader
Mosaed Al-Garni

Workshop Title: Reliability and Assets Integrity: Costly Mistakes and Misconceptions

Workshop Overview:

Many reliability and asset integrity initiatives are plagued by various mistakes and misconceptions, leading to huge failures, disappointments, and unbearable costs.

If you are dealing with reliability and asset integrity, then this deep-diving workshop is for you.

2



Start at 08 am - 11 Am



Workshop Leader
Dr. Warren Brown

Workshop Title: Bolted Joint Integrity

Workshop Overview:

The workshop will cover critical aspects across the joint life-cycle, including:

- Joint Design: current code status and future significant improvements
- Joint Assembly: historic development of assembly practices, new assembly practice trends, including best practices and why they need to be incorporated into plant maintenance practices
- Joint Operation: the effect of different loads on the joint and what actually makes joints leak during operation
- Joint Maintenance: how to ensure that joints do not leak due to longer term issues, such as joint relaxation, sealing surface damage and component corrosion

3



Start at 08 am - 11 Am



Workshop Leader
Mohammad Al Shaikh Khaleel



Workshop Leader
Hesham Alemary

Workshop Title:

Water Treatment Technologies and Applications

Workshop Overview:

Many reliability and asset integrity initiatives are plagued by various mistakes and misconceptions, leading to huge failures, disappointments, and unbearable costs.

If you are dealing with reliability and asset integrity, then this deep-diving workshop is for you.

Come join us and you will have very valuable insights that you will not find in books or published reports.

Technical PROGRAM

02 September
Session 1

DAY 1

Session 1: Hall 1, Auditorium

07:00	Registration
08:30	Conference Opening Remarks
09:00	Panel Discussion
10:00	Exhibition Inauguration and Morning Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

11:00	Reliable refractory lining design to prevent acid dew point corrosion in process fired heaters and furnaces
11:30	Manabendra Maity SABIC
11:30	Pre-Heaters Erosion Damage with case study
12:00	Kareem Khalil SABIC- YANSAB

12:00 - 13:00 Lunch Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

13:00	Cold Equipment Process Safety - Brittle fracture
13:30	Yogendra Reddy Kauluri SABIC KEMYA
13:30	Restoring compressor integrity from Sulfide stress corrosion cracking (SSC) with modified weld less impellers
14:00	Ahmad Alnasser SABIC -ARRAZI

14:00 - 14:15 Afternoon Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

14:15	Corrosion in Refining, Petrochemical and Chemical Industries
14:45	Abhishek Y Agrawal SABIC
14:45	Field joint (sleeve) method for Underground Internal cement line carbon steel pipe
15:15	Mohammad Afzal SABIC Agrinutrients

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

02 September
Session 2

DAY 1

Session 2: Hall 2

Advanced Non-Destructive Technologies and live monitoring systems

11:00 Advanced NDT To Improve The Integrity of FRP (Non Metallic) Line

11:30 **Anas S. Al Ghamdi | SABIC - Gas**

11:30 Comparative Study of Heat Exchanger Tubes Failure Analysis Using ECT
and IRIS

12:00 **Mohamed Fayas Saffiudeen | RCJY**

12:00 - 13:00 Lunch Break

Advanced Non-Destructive Technologies and live monitoring systems

13:00 Online vacuum monitoring device for measuring vacuum level (High
Pressure cryogenic tank & VJ line) using vacuum gauges

13:30 **Saeed Al Zahrani | SABIC- Gas**

13:30 Inspection, Monitoring & Prevention of Chloride stress corrosion cracking
(CL-SCC) on clad component in ethylene glycol unit

14:00 **Abhishek Agrawal | SABIC**

14:00 - 14:15 Afternoon Break

Advances in the Use and Application of Non-Metallic Materials

14:15 End to End Thermoplastic Corrosion Protection Solutions- A boom to the
industry

14:45 **Ahmed Alharbi | USTS**

14:45 An Integrated Approach for Fitness for Service and Life Management of
Non-Metallic (FRP/GRP) Assets in Industrial Plants

15:15 **Awais Manzoora | PetroMaster**

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

02 September
Session 3

DAY 1

Session 3: Hall 3

Water and Process Chemical Treatment Programs

11:00 Evaluation of Polished, Boiler Feed and Reformed Gas Boiler Water
11:30 Quality Related to Reformed Gas Boiler's Tubes Failures
Muhammad Hyder Raza | SABIC

11:30 Resolving Integrity Issues related to Dilution Steam Generator Exchangers
12:00 in Olefin Plant
Hassan Ali Al-Hammad | SABIC - Kemya

12:00 - 13:00 Lunch Break

Water and Process Chemical Treatment Programs

13:00 Wastewater contamination control using Nalco Purate innovation
13:30 technology
Hesham Alemary | NALCO Water

13:30 Intelligent Analytical Chemistry approach for Process Water Treatment
14:00 Analysis and Steam Quality
Dr. Ahmed Aboforn | SABIC

14:00 - 14:15 Afternoon Break

Corrosion Management by Artificial Intelligence

14:15 Asset Integrity Inspection with AI for Facilities operating in Marine
14:45 Environments
Reza Zolfaghari, Usman Arif, Hamza Alam | ABYSS SOLUTIONS

14:45 Development of carbon-based nanomaterials for Volatile Organic
15:15 Compounds adsorption
Majeed Almashnawi | SABIC

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

03 September
Session 1

DAY 2

Session 1: Hall 1, Auditorium

07:00 Registration
8:00 - Keynote Speech
08:45 Alan Thomas | CEO at AMPP

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

09:00 Olefins Furnace Jump-over Line Failure

09:30 **Sivuyile Funani | SABIC**

09:30 Hydrogen Induced Cracking (HIC) of Low- and High-strength Alloys

10:00 **Dr. Nausha Asrar | SWCC**

10:00 - 10:15 Morning Break and Exhibition Visit

10:15 Recent advances in understanding MIC and prevention strategies-A
review

10:45 **Dr Azhar AlHasawi | Halliburton**

10:45 Premature Failure of Radiant Shield Boiler Tubes in a Reformer
Convection Section

11:15 **Nabeel Ameer | SABIC**

11:15 - 13:00 Exhibition Visit and Lunch Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

13:00 Stress corrosion cracking of Ethylene Cracker furnace PG tapping with a
practical solution

13:30 **Karan K. Potnis | Tasnee**

13:30 Corrosion Behavior Of 3d Printed 316 L Stainless Steel In Chloride and
Hydrocarbon Environments

14:00 **Ibrahim Awad Albalawi | SABIC**

14:00 - 14:15 Afternoon Break and Exhibition Visit

14:15 Foundation repair methodology for critical equipment

14:45 **Reda Hamed Gadalla | SABIC - Ibn Zahr**

14:45 Metallurgical Assessment of a Failed Heat Exchanger Tube

15:15 **Saeed Aqeel Kadasah | SABIC**

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

03 September
Session 2

DAY 2

Session 2:Hall 2

Corrosion Prevention and Protection of Civil Assets

09:00
09:30

Relation between Construction Quality & Performance of Cathodic Protection of steel in Concrete Structures-Case Study

Saad A Al-Shehri | SABIC

09:30
10:00

Corrosion Protection of Reinforced Concrete Structures with Galvanic Surface Anode System

Dr Zia Chaudhary | Structural Technologies

10:00 - 10:15 Morning Break and Exhibition Visit

10:15
10:45

Corrosion Prevention and Protection of Civil Assets

Turki Mesfer AlOtaibi | RCJY

10:45
11:15

In-service damages & protection of Concrete assets

Shamsuddeen Palliyali | Tasnee

11:15 - 13:00 Exhibition Visit and Lunch Break

Corrosion and Materials Research and Applications

13:00
13:30

Effectiveness of Washingtonia filifera fruit extract as a sustainable green inhibitor for mild steel corrosion in acidic environments

Dr. Aisha H. Al-Moubaraki, Jood H. Alwajeeh, Remaz Y. Alghamdi, Revan A. Baquran | University of Jeddah

13:30
14:00

Analytical Techniques for Essential For Corrosion Studies

Arun Kumar S Raju | SABIC

14:00 - 14:15 Afternoon Break and Exhibition Visit

14:15
14:45

Anti-Biofouling; Using Electrochemical Process in the Cooling Circuit of Nuclear Power Industry: A Case Study

Dr. Muhammad Saleem | RC - JIC

14:45
15:15

Evaluating the hydrogen embrittlement behavior in X65 pipeline steel Using Impact Testing

Abdulaziz Alsaleh | King Fahd University of Petroleum and Minerals)

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

03 September
Session 3

DAY 2

Session 3: Hall 3

Advances, Challenges and Field Experiences with Cathodic Protection

- 09:00** Protection of Sulfuric Acid Tank Using Anodic Protection System
09:30 **Saad Al-Maesab Co-Author: Felipe JR Sodsod | SABIC**
- 09:30** Online Rehabilitation of EHSS/ Business Critical Reinforced Concrete
Seawater Cooling Tower
10:00 **Wasim Idris Baig | SABIC**

10:00 – 10:15 Morning Break and Exhibition Visit

- 10:15** Active protection of concrete structures, when, where and how
10:45 **Dr. Kevin Kendell | BSS Technologies/ AlShaikh CP**
- 10:45** Online CUI Risk Monitoring and Use cases for Predictive Maintenance
11:15 **Theo Knijff | KAI-Con**

11:15 – 13:00 Exhibition Visit and Lunch Break

Water and Process Chemical Treatment Programs

- 13:00** Corrosion Damages of Heat Recovery Steam Generator Tubes of a
13:30 Desalination Plant
Asma Saeed Alghamdi | SWCC
- 13:30** Field Applied Solutions for Corrosion Challenges in Amine Systems
14:00 **Al Muhannad Al Johani | IGS**

14:00 – 14:15 Afternoon Break and Exhibition Visit

- 14:15** Corrosion Control Document For Vacuum Distillation Unit
14:45 **Mazen Abdullah Bahuwayni | Saudi Aramco Base Oil Company-Luberef**
- 14:45** Closed Cooling Corrosion Protection on TRAC, increasing reliability and
reducing environmental impact
15:15 **Mohammad Al-Shaikh Khaleel | Nalco Water**

15:15 – 17:00 Exhibition Visit

Technical PROGRAM

04 September
Session 1

DAY 3

Session 1: Hall 1, Auditorium

07:00
8:00-08:45

Registration
Keynote Speech

Asset Reliability and Corrosion Management Systems

09:00
09:30

Online Asset and Integrity Monitoring to Enhance Safety, Reliability and Profitability

Ammar AlMousa | Emerson

09:30
10:00

Challenges and Lessons Learned in Corrosion Management for Urea Solution Storage Tank Bottom Plate

Baher Fayez Elsheikh | SABIC SAN

10:00 – 10:15 Morning Break and Exhibition Visit

Asset Reliability and Corrosion Management Systems

10:15
10:45

Urea Carbamate Corrosion of Stainless Steel Urea Grade Welds Due To Improper Welding

Omar Al-lafi | SABIC Agri-Nutrients

10:45
11:15

Maximizing Cost Efficiency with Cutting-Edge Cryogel Z: Unparalleled Online Insulation for Unprecedented Project Flexibility

Altah Rahman | Aspen Aerogels

11:15 – 13:30 Exhibition Visit and Lunch Break

Asset Reliability and Corrosion Management Systems

13:00
13:30

Corrosion Assessment of LDPE Reactor Tube

Anis Ziani | Saudi Kayan

13:30
14:00

Tube to tubesheet joint leak in Thermal Reactor Waste Heat Recovery Boiler installed in Sulfur Recovery Unit (SRU)

Dharmesh Patel | SATORP

14:00 – 14:15 Afternoon Break and Exhibition Visit

14:15
14:45

Corrosion by PTA SCC in the BP Furnace

Muhammad Nawaz Hussain | Farabi Petrochemicals

14:45
15:15

TBC

15:15 – 17:00 Exhibition Visit

Technical PROGRAM

04 September
Session 2

DAY 3

Session 2: Hall 2

Protective Coatings - Challenges and Opportunities

- 09:00** Next generation flexible passive fire protection
09:30 **Mohammed Alnasser | Sigma Paints**
- 09:30** Tank bottom External protected with activated titanium net anodes
10:00 **Syed Shiraz Shams | SABIC Agri-Nutrients**

10:00 - 10:15 Morning Break and Exhibition Visit

Protective Coatings - Challenges and Opportunities

- 10:15** Key consideration of specifying maintenance coating system in operating plants
10:45 **Kumar Kolar Vadivelu | SADARA**
- 10:45** Coating in conjunction with CP and Coating shielding behavior
11:15 **Khalid Aldossary | SABIC**

11:15 - 13:30 Exhibition Visit and Lunch Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

- 13:00** Thermal Spray Cladding for Mitigation of Caustic Stress Corrosion Cracking
13:30 **Maeen Abdo M. Swileh | Qatar Chemical Company Ltd**
- 13:30** Advances in the use of Refractory ceramic fiber materials
14:00 **Satyendra Singh | SABIC**

14:00 - 14:15 Afternoon Break and Exhibition Visit

Coating Challenges and Solutions

- 14:15**
14:45 **Fahad Mohammed | SABIC**
- 14:45** Coatings standards and updates
15:15 **Saud Abdulaziz | SABIC**

15:15 - 17:00 Exhibition Visit

Technical PROGRAM

04 September
Session 3

DAY 3

Session 3: Hall 3

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

09:00 Microstructural Investigation of Ruptured Dilution Steam Pipe
09:30 **Dr. Akeem Yusuf Adesina | SABIC**

09:30 Unlocking & Masterminding Critical Developments of Corrosion & its
Impact to Industry & Society
10:00 **Dr Sajjad Ahmed | SABIC**

10:00 – 10:15 Morning Break and Exhibition Visit

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

10:15 Successful transition from Molybdate to Nitrite and/or Phosphate based
chemical treatment to control corrosion
10:45 **Saefudin Jauhari | SABIC**

10:45 EONCOAT Tank Bottom Soil Side Corrosion Protection
11:15 **Omar Nedal | Izotek**

11:15 – 13:30 Exhibition Visit and Lunch Break

Corrosion in Refining, Petrochemical and Chemical Industries and Pipelines

13:00 Galvanic Corrosion In Heat Exchanger
13:30 **Amit Kurhade | SABIC**

13:30 Microstructural Investigation of Damaged PSV Disk Holder
14:00 **Abdulaziz Alharbi | SABIC**

14:00 – 14:15 Afternoon Break and Exhibition Visit

14:15 Extending Tank Inspection Intervals – A Risk-Based Approach for Optimal
Asset Management
14:45 **V. Dayanidhi Vijayakumar | Saudi Aramco Base Oil Company –
Luberef**

14:45 Innovative Real-Time Pit Detection and Artificial Intelligence Electrical
Resistance Corrosion Monitoring Systems
15:15 **CheolhoKang and Byeongho Ki | Kalada**

15:15 – 17:00 Exhibition Visit

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