The 20th International Operations & Maintenance Conference in the Arab Countries

Under the theme of The Role of Maintenance in Sustainability Environment and Clean Energy

CONFERENCE PROGRAM

📅 9 – 11 JANUARY 2023
📍 Crowne Plaza Riyadh RDC Hotel & Convention Kingdom of Saudi Arabia

OMAINTEC.COM
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20 YEARS
OF SUCCESS AND
MUCH MORE......
CONFERENCE OVERVIEW

Since its inaugural edition in 2002, the International Operations & Maintenance Conference in the Arab Countries (OMAINTEC) has continued to be the most important professional platform within the Arab region where experts, speakers, heads of companies, decision-makers, academics and specialists in the fields of operations and maintenance, facilities management and asset management meet to exchange experiences, enrich knowledge and showcase the latest technologies and developments within the field of operations and maintenance engineering worldwide.

Under the theme of “The Role of Maintenance in Sustainability, Environment and clean Energy”, the upcoming edition of the conference will take place on January 09th to 11th 2023 in person format at the Crowne Plaza Riyadh Rdc Hotel & Convention, Kingdom of Saudi Arabia.

Speakers and workshop presenters will share their vision on the latest challenges within the operations and maintenance field, and will also discuss the latest global trends, innovations and develop new procedures and technologies within the field.
The conference provides participants with a professional platform and a unique opportunity to:

- The role of maintenance in sustaining clean energy sources
- Development and sustainability policies enhancement to support production activities
- The future of maintenance within the urban planning of green cities
- Clean energy systems operations and maintenance foundations
- Activating the role of maintenance in the transition to clean energy economies
- Important maintenance applications & practices within clean energy systems
- The role of smart maintenance in promoting clean energy management
- The role of maintenance in reducing emissions and maintaining environmental safety measures
- Preventive maintenance of renewable energy systems

Development and sustainability policies enhancement to support production activities
DAY 01
MONDAY 09 JAN 2023

REGISTRATION & NETWORKING

PARALLEL WORKSHOPS

07:30

09:30 - 10:45

WORKSHOP 01
Spare Part Process and the Associated Indicators
Tom Svantesson
CEO, TSMC
Denmark

WORKSHOP 02
Evaluation of Maintenance Process of Public Project Using Computer Simulation
Eng. Khaled Aldhufer
Development Control Department
Alahsa Municipality, Saudi Arabia

WORKSHOP 03
Reducing Maintenance Errors by Improving Human Reliability: A practical Guide
Dr. Mohammed Almatani
Assistant Professor, King Saud University
Saudi Arabia

WORKSHOP 04
Impactful Facility Management on Mega projects and Beyond Using Technology and Data Driven Strategy
Eng. Ali Alsuwaidi
Board Member
Arab Operations & Maintenance Council
Sr. Executive Director - Imdaad Facility Management Group, United Arab Emirates

10:45 - 11:00

BREAK

11:00 - 12:15

WORKSHOP 05
Digital Twins for CBM Apps. A Case Study in High-Speed Train Bearings Dt.
Prof. Adolfo Crespo Marquez
Full Professor, University of Seville
Spain

WORKSHOP 06
Basis Root Cause Analysis Training
Abdulaziz Al-Ghamdi
Founder & CEO
Reliability Expert Center – REC, Saudi Arabia
Omar Al-Ghamdi
General Manager
Reliability Expert Center – REC, Saudi Arabia

WORKSHOP 07
Practical Aspects of Asset Management System Implementation
Andrej Androjna
AM Consultant, QUANTUM Consulting
Slovenia
Janez Tomazin
Chairman, EAMC
(European Asset Management Committee)
Slovenia

WORKSHOP 08
BGI as an Integrated Approach for Climate Change Adaptation in Saudi Arabia
Dr. Ahmed ElZayat
Water Engineering Manager
ILF Consulting Engineers
Egypt
<table>
<thead>
<tr>
<th>WORKSHOP 09</th>
<th>WORKSHOP 10</th>
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<tbody>
<tr>
<td>The Integration of the Processes of the Facility Management Service Provider with those of the Demand Organization to Manage the Demand Organization’s Energy and Water Profile in order to Achieve the Strategic Goals and Objectives of the Sustainable Facility.</td>
<td>Innovation &amp; Creativity in the Mobility Sector</td>
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<tr>
<td>Eng. Chukri Habib</td>
<td>Simone Bernasconi</td>
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<tr>
<td>Owner, QualiServ</td>
<td>Managing Director, Moblab</td>
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<td>Lebanon</td>
<td>Switzerland</td>
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<th>WORKSHOP 11</th>
<th>WORKSHOP 12</th>
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<td>Preparations for Determining the Scope of Issues, Flow of the Decision Making, and Suggested Methods Applied for Implementing Maintenance Management within Asset Management, according to the Standard 55001</td>
<td>Utilizing Laser Scanning, Photogrammetry (UAV), and Other Advanced NDT Methods to Assess, Repair, and Manage Sustainable Maintenance and Structures</td>
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<tr>
<td>Dr. Alan Wilson</td>
<td>Prof. Mufid Samarai</td>
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<td>Director, Carmichael Smith Ltd</td>
<td>Board Member</td>
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<tr>
<td>United Kingdom</td>
<td>Arab Operations &amp; Maintenance Council</td>
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<td></td>
<td>Senior Engineering and Education Advisor</td>
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<td>Sahara Management Consultancy</td>
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<td>United Arab Emirates</td>
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DAY 02
TUESDAY 10 JAN 2023

REGISTRATION & NETWORKING

07:30

09:00 - 10:00

OPENING SESSION

The Holy Quran

Welcoming

The OMAINTEC Journey Video

OMAINTEC Board Members’ speech

Future Leaders in Operations & Maintenance Insight

Keynote speaker
Eng. Ibrahim Al-Jarbou
Executive Vice President of Generation, Saudi Electricity Company

Guest speaker
Janez Tomazin
Chairman, European Asset Management Committee (EAMC), Slovenia

Honoring

10:00 - 10:15 BREAK
Session 01: Maintenance Systems & Management 1

Chairman: Dr. Alan Wilson
Director, Carmichael Smith Ltd, United Kingdom

A Road Map for Digital Transformation in Maintenance
Prof. Adolfo Crespo Marquez
Full Professor, University of Seville, Spain

Reducing Contracts Cycle Time Through Lean Six Sigma Project
Yazeed Al-Owaid
T&I Projects Unit Head, Saudi Aramco, Saudi Arabia

Smart Building Maintenance Quality; Systems Management of Sustainability
Prof. Mahmoud Kamel Mahmoud
Professor, National Center for Housing and Building Research, Egypt

Session 02: Asset and Facility Management 1

Chairman: Prof. Ibrahim Alharkan
Professor, Industrial Engineering Department
College of Engineering, King Saud University, Saudi Arabia

Practical Experience from Implementation of Asset Management System In HSE Group
Andrej Androjna
AM Consultant, QUANTUM Consulting, Slovenia

Maintenance and Asset Management Improvement Based on Resilience and Sustainability Classification Systems
Dr. Alvaro Azevedo
Head of Building Economy, Management and Technology Unit
LNEC National Laboratory for Civil Engineering, Portugal

Impactful Facility Management on Mega Projects and Beyond Using Technology and Data Driven Strategy
Eng. Ali Alsuwaidi
Board Member, Arab Operations & Maintenance Council
Sr. Executive Director- Imdaad Facility Management Group, United Arab Emirates

Analyzing The Relationship Between Sustainability & Maintenance in The Facilities Sector
Eng. Fahad Alotaibi
Electrical Engineer, Saudi Royal Air Force Defense, Saudi Arabia
Session 03: Building Maintenance 1

Chairman: Dr. Mohammed Alrubaidi
Consultant, Princess Nourah Bint Abdul Rahman University, Saudi Arabia

**An Integrated Virtual-Augmented Reality Based Model for Facility Maintenance Management**

Dr. Altayeb Qasem
Professor, IAU, Saudi Arabia

Eng. Hanan Alghamdi
Interior Architect – M. Sc Student, Imam Abdulrahman bin Faisal University, Saudi Arabia

**Energy Savings Through Envelope Sealing**

Eng. Biju Reghuvaran
KAUST, Saudi Arabia

**Predictive Maintenance for Building Maintenance Using Artificial Intelligence**

Prof. Hossam Eldin Elborombaly
Board Member, Arab Operations & Maintenance Council
X-head of Architect Department, Ain Shams University, Egypt

14:45 - 15:00

**COFFEE BREAK**
Session 04: Electrical Systems Maintenance

Chairman: Eng. Waleed Al-Saadi
Board Member, Arab Operations & Maintenance Council
CEO, National Grid SA, Saudi Arabia

Horizontal Axis Wind Turbine Maintenance Improved Process:
Al-Khobar Project as Case Study
Waleed Mahmoud
Projects Manager, Ressol Energy, Saudi Arabia

Role of Zero-Liquid Discharge Protocol in Power Generation Plants to Realize Environmental Regulation and Enhancing Operational performance of the Desalination Systems
Mohamed Ismail
General Manager (Pensioner), Egyptian Electricity Holding Co., Egypt

Value Based Maintenance & ROI throw On-line Monitoring Partial Discharge Project
Eng. Mohamed Yehia
Senior of Electrical Engineer, Saudi Electricity Company, Saudi Arabia

Drones’ Inspection and AI Usage for OHL Supply and Demand Stability and Reliability in NGSA by Predicting Failures
Eng. Abdullah Almalki
Big Data & AI Group Leader, National Grid SA, Saudi Arabia
DAY 03
WEDNESDAY 11 JAN 2023

07:30
REGISTRATION & NETWORKING

08:30 - 09:30
Session 05: Maintenance Systems & Management 2
Chairman: Dr. Ayman Alwaleed
Board Member, Arab Operations & Maintenance Council
Executive Director - Project Development, Rua Al Madinah Holding co. Saudi Arabia

Maintenance Metrics: An Account of Hindrances in Maintenance Performance and Developmental Requirements in Favour of Improving Maintenance Metrics
Abdul Basit Sheikh
Plant Engineering Manager, Saudi Tabreed Operation & Maintenance Company, Saudi Arabia

Green Quality Practices and their Role in Supporting Sustainable Productive Activities and Green Product
Dr. Abdelfattah Mahmoud
Freelancer, Egypt

09:30 - 09:40
COFFEE BREAK

09:40 - 10:30
PANEL DISCUSSION: LOCAL EXPERIENCES
Moderator: Khaleid Aluneizi
Asset and FM expert, Saudi Arabia

Role of Supervision and Governance in Operation and Maintenance Projects to Achieve a Sustainable Environment: Case Study (PNU)
Dr. Shabbab AlHammadi
Vice Rector for Facilities & Operation, Princess Nourah Bent Abdulrahman University, Saudi Arabia
Eng. Abdulrahman Basaweel
Asset Management System Consultant, Specialist Group Consultancy, Saudi Arabia

Transformation in the Efficiency of Asset & Facilities Management in Public Entities
Eng. Abdul Rahman Al-Quwaiz
Executive Director of the Agency Support Department, Saudi EXPRO, Saudi Arabia
Eng. Abdulaziz Al-Dosari
Director General of Technical and Engineering Support, Saudi EXPRO, Saudi Arabia
Eng. Muhammad Al-Durahim
Director of the Higher Technical Support Department, Saudi EXPRO, Saudi Arabia

10:30 - 10:40
COFFEE BREAK
## Session 06: Roads & Transportation Systems Maintenance (Main Hall)

**Chairman:** Prof. Mufid Samarai  
Board Member  
Arab Operations & Maintenance Council  
Senior Engineering and Education Advisor  
Sahara Management Consultancy  
United Arab Emirates

**Quality Control of Digital Data for Pavement Distress Detection and its Impact on Environmental Sustainability and Road Maintenance**  
Dr. Rabie M. Ali  
Projects Manager  
Namaamap Consulting Engineer, Saudi Arabia

**The Role of Nano Size Additives in Enhancing the Sustainability of Asphalt Concrete**  
Prof. Saad Sarsam  
Director, Sarsam and Associates Consult Bureau (SACB), Iraq

**Mobility Redefined: A Disruptive Concept for Public Transportation**  
Simone Bernasconi  
Managing Director, Moblab, Switzerland

**Sustainable Roads Precast Concrete Blocks Units by Using Construction Recycled Aggregate**  
Dr. Abdellatif Mahmoud  
Freelancer, Egypt

**Sustainable Innovation in Underground Infrastructure Construction and Maintenance Practices**  
Dr. Mostafa Kassab  
University Professor  
UPM University, Saudi Arabia  
University of Waterloo, Canada

## Session 07: Water Management & Systems Maintenance (Hall B)

**Chairman:** Eng. Othman Al-Najdi  
Consultant, Saline Water Conversion Corporation (SWCC), Saudi Arabia

**Energy, Environmental, and Economic Assessment on the Operation and Maintenance of Solar Powered Desalination Plants**  
Prof. Abd Elnabi ElBaiomy Kabeel  
Vice Dean of the Faculty of Engineering for Postgraduate Affairs  
Delta University for Science and Technology  
Egypt

**Customer Service and Maintenance Program (CMS) for Drinking Water and Wastewater**  
Eng. Magdy Elbehery  
Information Technology Consultant & Applications Manager  
Holding Company for Water & Wastewater  
Egypt

**Biogas Purification & Desulfurization Environment Serves Plant in Al Khobar**  
Eng. Mohammed Aldosary  
Es Plant Supervisor, National Water Company  
Saudi Arabia

**Rapidly-Constructed and Easily O&M Wastewater Treatment Plants**  
Prof. Walid Salm  
Water Professor, HBRC, Egypt

**RAM Modelling of a Wastewater Treatment Plant**  
Paul Daugalis  
Managing Director, Assetcorexl  
United Arab Emirates

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**10:40 - 12:00**  
Session 06: Roads & Transportation Systems Maintenance (Main Hall)

**12:00 - 13:00**  
PRAYER & LUNCH

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**12:00 - 13:00**  
Session 07: Water Management & Systems Maintenance (Hall B)
Session 08: Building Maintenance 2  
(Main Hall)

Chairman: Dr. Ghasan Alfalah  
Assistant Professor, Department of  
Architecture and Building Sciences  
King Saud University, Saudi Arabia

**Life Cycle Assessment of Concrete Maintenance Effect on the Environment and Sustainability**  
Rami Alsodi  
Researcher, University of Sharjah  
United Arab Emirates

**Reducing Carbon Footprint in KAUST Laboratories**  
Eng. Dunya Dennah  
Electrical Systems Engineer  
King Abdullah University of Science and Technology (KAUST), Saudi Arabia

**Raising the Efficiency of Operation and Maintenance in the Construction Sector by Using Artificial Intelligence Techniques in Smart Cities**  
Prof. Mohamed Fathy Aref  
Chairman of The Egyptian Code Committee for Smart Cities, Housing and Building National Research Center (HBRC), Egypt

**Sustainable Campus (Effective Implementation of Sustainability in the Educational Facilities)**  
Muhamad Alwan  
Facilities Manager, Takamul Aloula Facilities Management, Saudi Arabia

Session 09: Communication Systems, Smart Maintenance & Cyber Security  
(Hall B)

Chairman: Prof. Ibrahim Alharkan  
Professor, Industrial Engineering Department  
College of Engineering, King Saud University, Saudi Arabia

**Smart Building Management Systems for Managing Workplace and Sustainability**  
Andreas Hadjioannou  
Director, Virtual IT Consultants  
United Arab Emirates

**Managing Critical Operations Risks Cybersecurity Perspective, IIoT Approach**  
Ashraf Sabry  
DBC, SecuriCIP, Egypt

14:00 - 14:10  
COFFEE BREAK
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>14:10 - 15:30</td>
<td><strong>Session 10: Asset and Facility Management 2</strong>&lt;br&gt;Environmental, Social and Governance (ESG) Theory, Practice &amp; Relation to Asset Management&lt;br&gt;Chairman: Eng. Mohd Ghazi Abu Afifeh&lt;br&gt;Board Member, Arab Operations &amp; Maintenance Council&lt;br&gt;CEO, Conceliare, Jordan&lt;br&gt;Role of Facility Management in the Sustainability of Commercial Buildings: Prospects and Challenges in the Real Estate Sector of Sultanate of Oman&lt;br&gt;Dr. Badar Alrashdi&lt;br&gt;Director of Engineering Support, Royal Court Affairs, Oman&lt;br&gt;F1 to FM&lt;br&gt;Eng. Mohamad Abou Laban&lt;br&gt;FM Expert, United Arab Emirates&lt;br&gt;Maintenance Requirements for New Assets – A Case Study&lt;br&gt;Tom Svantesson&lt;br&gt;CEO, TSMC, Denmark&lt;br&gt;Fly Ash from Risk to Opportunity&lt;br&gt;Eng. Mohammed Alsharif&lt;br&gt;Environmental Protection And Sustainability Engineer&lt;br&gt;Saudi Electricity Company, Saudi Arabia</td>
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<td>15:30 - 15:35</td>
<td>TRANSITION</td>
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<td>15:35 - 16:00</td>
<td><strong>ANNUAL ASSEMBLY MEETING OF THE OMAINTEC MEMBERS</strong></td>
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<td>16:00</td>
<td><strong>CLOSING SESSION</strong></td>
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