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INTERNATIONAL MAINTENANCE, RELIABILITY & ASSET MANAGEMENT CONFERENCE



MAINTCON KEY PLAYERS

MAINTCON AWARD WINNERS

MAINTCON CORPORATE TESTIMONIALS



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GSMRsociety

*READER'S FEEDBACK

"Osool is one the best professional magazines people in our industry must read. It's a great reference for all engineers and technical staff in the field of maintenance, reliability and asset management. Osool has enriched my knowledge and experience, provided me with very insightful information and useful articles that enhance my profession". -**Khalid Alessa, Marafiq**

"Osool is a valuable magazine enriched with insightful articles written by industry professionals for their fellow professionals. I have been following Osool as a regular journal right from it's inception and it motivated me to contribute with my own content. I hope it would help my fellow GSMR members and the industry at large. I will keep on contributing to GSMR and OSOOL. Thank you for the excellent content delivery and please keep it up. All the very best!" -**Shami Ridma Mudonkutowa**

May I suggest to accommodate technical papers for different areas of maintenance and reliability such as instrumentation (including online analyzers and the different process variables monitoring and control assets), mechanical , electrical and planning? In this way we can have an interconnecting quarterly magazine issues that can display the pressing problems and challenges in Industries. -**Teofilo de Sagun, BAPCO**



MAINTCON 2022 has surpassed all our expectations. I am pleased to note the massive success of the event. It is my distinct honor to congratulate each and everyone (the Chairman of the conference, the Co-Chairman, committee chairs, committee members, delegates, speakers, participants and volunteers) for the triumph of the event and the role it played in the maintenance, reliability and asset management (MR&AM) field in the region.

It was announced during the conference that the new title of MAINTCON will be Maintcon—International Maintenance and Reliability Conference. The event has achieved new records in the number of attendees, exhibition participants and the coverage received.

We are proud to note that GSMR members excelled in Maintcon as technical presenters, emcees, moderators, and as winners in various categories of awards. The society is pleased to highlight that its initiatives: GSMR Excellence Award, Women in Industry and Asset Management (WIAM), Innovation Corner and Maintenance and Asset Reliability Certification (MARC) were highlighted and is gaining support.

I was glad to see women achievers recognized for their outstanding contributions and service to the industry. The winners of the WIAM Awards have shown how much we have grown in terms of diversity and inclusion. Aram Al Yahya hosting the

opening night of MAINTCON was also a big step in championing and welcoming female engineers to the field.

The Maintenance and Asset Reliability Certification (MARC), a highly acclaimed certification developed for professionals in the region took place for the first time ever during MAINTCON 2022. MARC is the first-of-its-kind homegrown certification in the Arabian Gulf making GSMR the epicenter of knowledge sharing and knowledge transfer through our unique training programs and certifications.

MAINTCON 2022 was the largest gathering of maintenance and reliability professionals in the world with 2,200 participants from 35 countries. I was happy to see the participants and visitors networking and looking at new products and technologies which will enhance their industry and sector.

MAINTCON has proven the value of teamwork as “Together We Can Achieve More”. To all the members of GSMR, we are happy to welcome you to another year filled with activities, knowledge sharing, initiatives and professional growth and development.

Saad Ibrahim Al Shamrani

GSMR Chair

BECOME PART OF THE GSMR FAMILY!

Join GSMR's growing community of maintenance, reliability and asset management professionals. Enjoy a wide range of benefits and programs including free webinars with certificates, discounted online certified workshops, opportunities to be featured across GSMR's media channels and publication, extensive networking with and exposure to regional and international professionals, and MUCH MORE!

Congratulations!

1ST BATCH OF MARC CERTIFIED IN THE REGION



Maintenance & Asset Reliability Certification (MARC) is a highly acclaimed certification developed by regional SME's for maintenance, reliability and asset management professionals. The first live MARC exam was held during Maintcon 2022, a historic achievement.

Mohammad Ajmi

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Ibtikar Synergy, Bahrain.

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Aljughaiman

Saudi Aramco, KSA.

Leonardo Dos santose santos

KAUST, KSA.

Christopher Obiajunwa

Saudi Aramco, KSA.

If you are ready to jumpstart your career and learn more about the MARC Exam, contact **Ms. Jennifer Joseph** at Jennifer.joseph@gsmrgulf.org or +973 17180398.

The EDITORIAL Team



On behalf of the Osool editorial board, I am thrilled to present this issue of Osool magazine dedicated to MAINTCON. We are proud of the success of Maintcon—International Maintenance, Reliability and Asset Management Conference—GSMR’s flagship event.

In this issue, we focus on the people who have made this conference possible and who inspire, challenge and motivate us to become better engineers. We look at the key players, the winners of the Maintcon awards, the participants and volunteers and most of all; the people who built this conference from the ground up. I would like to extend my thanks and congratulations to Mr. Nezar Al Shammasi, Conference Chairman, Mr. Mahmood Mirza, Conference Co-Chairman, Mr. Saad Ibrahim Al Shamrani, GSMR Chair and Dr. Raida Al-Alawi, BSE President.

MAINTCON’s success has hit major milestones in the Maintenance, Reliability, Knowledge sharing and Networking culture with more than 35 countries participating from all around the globe including 2200 attendees, 74 Exhibitors and 72 Technical Papers presented. The conference was filled with brilliant speakers from the industry who presented ideas and challenges that we can bring back to our companies. We were proud to see our colleagues

in the industry and GSMR members shining during Maintcon as speakers, moderators, hosts and awardees.

Henry Ford once said “Coming together is a beginning. Keeping together is progress and working together is success”. Maintcon continues to be a monument to the unrivaled determination, persistence and strategy of teamwork from the committee chairs to the event organizers, to the volunteers and staff. We thank all of you for this extraordinary and memorable event.

The appreciation for Osool editorial team was a pleasant surprise that we are extremely thankful for and will drive us to keep the high standards of Osool in every issue that we make. We have expanded our Osool editorial team with engineers from different backgrounds to ensure an all-encompassing e-newsletter volume.

The editorial team welcomes all submissions, technical papers, innovative ideas and reviews to ensure the reader’s satisfaction and enjoyment. We hope you enjoy this issue of Osool magazine and looking forward for your submissions.

Essa Al Qattan
Editor-in-Chief

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Committees

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Maintcon 2022

Exceeding Expectations



Nezar Al Shammasi

Conference Chairman

Maintcon - International Conference on Maintenance, Reliability & Asset Management

MAINTCON - International Conference on Maintenance, Reliability & Asset Management has greatly promoted the field of maintenance, reliability and asset management in the Arabian Gulf. Since the birth of MAINTCON in 2010, the event has steadily grown to be the world's largest gathering of maintenance and reliability professionals showcasing industry trends from speakers, companies and vendors and gathering the best ideas in maintenance and reliability which participants can take home to their own companies.

- Exhibitors - 65
- Countries - 29
- Technical Papers - 54
- Exhibitors - 71
- Countries - 38
- Technical Papers - 72



In over a decade, MAINTCON has become a huge platform in showcasing the region as a growing hub for maintenance, reliability and asset management which was evidenced by the 2,200 participants from 35 countries—a record breaking number for MAINTCON. This year marks one of the biggest milestones in MAINTCON—we have turned international and have welcomed delegates from all over the globe, our exhibition which was held in an area of 30,000 square feet—was the biggest we have ever had. We had 85 speakers who shared rich and impactful messages about Industry 4.0 and how we as an industry can benefit and get better.

I would like to thank H.E. Dr. Mohamed bin Mubarak Bin Daina, Minister of Oil and Environment, Special Envoy for Climate Affairs, Kingdom of Bahrain, for honoring us with his presence and patronage. I also sincerely thank Mr. Fahad Al Abdulkareem, Maintcon 2022 Advisory Board Chairman and Senior Vice-President of Industrial Services, Saudi Aramco, as well as all members of the Advisory Board for their valuable guidance and unlimited support. I also thank the Maintcon committee chairs and members, sponsors, delegates and volunteers for their outstanding contribution to Maintcon.

The Gulf Society for Maintenance and Reliability (GSMR) and our partner the Bahrain Society of Engineers (BSE) have done much to shape and influence the maintenance, reliability and asset management field in the region and the world through organizing Maintcon event among many other achievements.

I am confident that the next editions of MAINTCON will be even more spectacular and will benefit more companies in the region and around the globe.



MAINTCON 2022 AT A GLANCE

Participants

2200

Participants from **35** Countries

Speakers

85

GSMR Excellence Award Submissions

62

Sponsors & Exhibitors

74

Keynote Speakers

08

Innovations

16

WIAM Award Winners

11



Mahmood Mirza Abdulla
Conference Co- Chair

MAINTCON 2022

Influencing the ARABIAN GULF and the WORLD



International Maintenance, Reliability & Asset Management Conference 2022

First and foremost, allow me to take this opportunity to thank H.E. Dr. Mohamed bin Mubarak Bin Daina, Minister of Oil and Environment, Special Envoy for Climate Affairs, Kingdom of Bahrain for his support and patronage of MAINTCON 2022. I also would like to express my thanks and appreciation to Mr. Fahad Al-Abdulkareem, Chairman of the Advisory Board for his guidance and expert advise.

Events can be a powerful tool to shape and influence a particular industry. MAINTCON—International Conference for Maintenance, Reliability and Asset Management is a trendsetter in the maintenance, reliability and asset management field. Now, on our 6th edition, I am proud to have witnessed the growth and development of MAINTCON, from its first edition in December 2010, to the present edition which saw 2,200 participants from all over the globe.

MAINTCON 2022 witnessed many historic achievements such as the outstanding Women in Industry and Asset Management (WIAM) awards wherein we awarded two men for empowering women in the industry. We had a dedicated corner for the Innovation exhibition which displayed 16 innovations that provided innovative solutions to a number of industry problems. The very first GSMR

Body of Knowledge (BoK) workshop, which distilled the lessons from the GSMR BoK book was held in conjunction with the Maintenance and Reliability Certified (MARC) Exam.

We saw our partners: GFMAM, WPIAM, Tamkeen and our sponsors, exhibitors and delegates participating in a fruitful conference and exhibition that surpassed all the previous standards

Special thanks goes to Mr. Nezar Al Shammasi, Conference Chairman, Mr. Saad Ibrahim AlShamrani, GSMR Chair and Dr. Raida Al Alawi, BSE President and the committee members, delegates, participants, sponsors, and volunteers who participated in the success of this event.

We applaud Bahrain Society of Engineers (BSE) and the Gulf Society for Maintenance & Reliability (GSMR) for the remarkable efforts in bringing about this truly unprecedented event. I hope that the initiatives we have started in MAINTCON (GSMR Excellence Award, WIAM, Innovation Corner, MARC) will continue to grow and develop in the coming years.

Until MAINTCON 2024!



Dr. Raida Al Alawi
President
Bahrain Society of Engineers

MAINTCON 2022 A GREAT ACHIEVEMENT IN WOMEN EMPOWERMENT

The prestigious MAINTCON event is now synonymous with maintenance, reliability and asset management and I am proud to say is the hub of knowledge exchange and knowledge sharing in the Arabian Gulf and around the world. I was honored to witness the many local and international initiatives that were presented at MAINTCON—International Conference for Maintenance, Reliability and Asset Management.

In line with the exhibition and conference, the MAINTCON program drew a crowd of 2,200 participants from 35 countries around the world. There were many firsts that happened in MAINTCON. The grand exhibition was held on a 30,000 square foot space where 74 sponsors, exhibitors and partners presented technologies and ideas that benefited the industry. There were 16 innovations presented that showed the intellectual promise and tenacity of our colleagues to solve pressing industry problems. The Women in Industry and Asset Management (WIAM) Awards was a grand success and honored women for their achievements and contributions. It was also a night that honored our male colleagues as two male leaders won the Women Empowerment Award for their role in empowering and inspiring women within their organizations.

In recent years, there has been a shift towards diversity and inclusion in the workplace and I am glad to see the maintenance, reliability and asset

management industry are far ahead of their time in their efforts towards these. I saw many women engineers take part as active participants, presenters and awardees during MAINTCON and as the first woman president of the Bahrain Society of Engineers (BSE), I am happy to see that the profession is changing and becoming more inclusive.

The 6th edition of MAINTCON has proven to be a remarkable success. I would like to thank H.E. Dr. Mohamed bin Mubarak Bin Daina, Minister of Oil and Environment, Special Envoy for Climate Affairs, Kingdom of Bahrain for his patronage and support of the event. I would also like to thank the Conference Chairman, Mr. Nezar Al Shammasi, the Conference Co-Chair, Mr. Mahmood Mirza, the Conference Advisory Board Chairman, Mr. Fahad Al Abdulkareem, MAINTCON committee heads, volunteers, delegates, sponsors and exhibitors for the efforts that has led to the well-organized event.

BSE has always had a special relationship with the Gulf Society for Maintenance & Reliability (GSMR). Together, we have started MAINTCON back in 2010 and the event has grown in stature and influence through the unique and persistent efforts of the societies. I would like to thank Mr. Saad Al Shamrani, GSMR Chairman for the help and support extended to BSE to ensure the success of MAINTCON. I hope that everyone had a wonderful experience.

See you in MAINTCON 2024!

Under the patronage of
H.E. Dr. Mohamed bin Mubarak bin Daina
Minister of Oil and Environment Special Envoy for Climate Affairs
Kingdom of Bahrain

THE WOMEN IN INDUSTRY AND ASSET MANAGEMENT





Thank You

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— 2022 —

**International Maintenance, Reliability &
Asset Management Conference**

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INTERNATIONAL SPEAKERS

MAINTCON AWARDS



GLOBAL PARTNERS

TESTIMONIALS



I have had the privilege of attending a number of conferences in the space of maintenance and asset management around the world. What I experienced at MAINTCON 2022 was simply put probably the best I have seen thus far! The quality of the presentations, the exquisite venue, interesting exhibition and in particular the fact that the conference drew in the region of 2200 delegates, simply puts it in another league!

Congratulations to the organizing team for putting up a fantastic event.

Johannes Coetzee

Martec Condition Monitoring

Chairman of the Global Forum on Maintenance and Asset Management (GFMAM)

South Africa



Maintcon 2022 was exceptional! The speakers addressed a wide variety of topics spanning the asset management, maintenance and reliability lifecycle with a special emphasis on digitalization, asset information management and the integration with supply chains. I was honoured to participate as a speaker focused on Building Your Business Case for Maintenance and Reliability Improvements.

Susan Lubell

WPiAM/ PEMAC, Canada

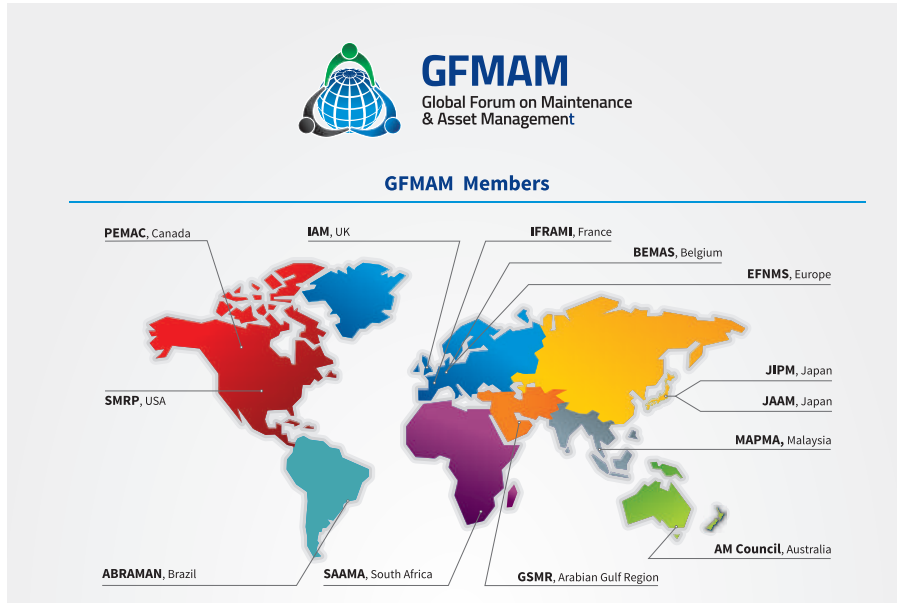


AFFILIATE

World Partners in Asset Management



GLOBAL PARTNERS



After more than two years, GFMAM had its first in-person meeting in Bahrain. 11 of the 13 member associations gathered for a full three day meeting culminating in the GFMAM annual meeting . Continuing with the theme of knowledge sharing, several GFMAM representatives presented technical presentations which provided valuable insight into Asset and Reliability Management industries with a focus on the global shift towards digitalization.

GFMAM also announced that they will celebrate the first Global Maintenance Day on June 9, 2023 to promote and celebrate the value of maintenance in our lives.

AFFILIATE

World Partners in Asset Management

WPiAM



WPiAM is a worldwide partnership made up of non-profit organizations which represent Asset Management across the globe who share the same objectives as WPiAM. GSMR is an affiliate of WPiAM and is proud to announce that GSMR Board Member Nader Milibari has also been selected as Board Member of WPiAM.

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PRIME SPONSOR



Innovation and Technology integrates with Maintenance, Reliability, and Asset Management in MAINTCON 2022, the venue fostered by two professional societies; Gulf Society for Maintenance and Reliability (GSMR) and Bahrain Society of Engineers (BSE) which was sponsored by major industry companies. MAINTCON 2022 assembled business leaders, professionals, and prominent companies for the active expertise exchange to capitalize on Industry Revolution 4.0. In this venue Saudi Aramco delivered its maintenance governance journey and evolution with technology deployments, that elevated the company's maintenance and reliability operating models.

Nowadays, leveraging technologies in business is more notably crucial than ever before. It aims to improve work processes and optimize employees' time so that they may focus on higher- ranking opportunities. It is a means to achieve goals with increased efficiency and efficacy. Moreover, emerging technologies, such as Artificial Intelligence (AI), Machine Learning (ML), Augmented Reality (AR), and the Internet of Things (IoT), can augment accordingly to the organization's demand and improve its resiliency and effectiveness.

The success of MAINTCON 2022 is testimonial to its significance to the industry, and consistently this outcome can only forecast future MAINTCON events to attract recognizable attention and anticipation.



DIAMOND SPONSORS



KIPIC participated as a diamond sponsor in MAINTCON 2022 which was hosted in the Kingdom of Bahrain. We are proud of the role that KIPIC team has played in the success of MAINTCON conference and exhibition. Mr. Khaled Anwar Al Awadhi, Deputy CEO of Al Zour Refinery was one of the keynote speakers; our engineers presented a range of technical papers in maintenance, reliability and asset management; our women engineers epitomized leadership and women empowerment as they took to the stage as a presenter, an exhibitor in the Innovation Corner and winners of GSMR Excellence Awards and WIAM Awards. MAINTCON has established itself as an international conference in the field of maintenance, reliability and asset management and continue to surpass and exceed our expectations. KIPIC will continue to participate and support this outstanding event.

-KIPIC





“On behalf of Flowserve team, I would like to sincerely congratulate Maintcon organizers for a successful event conducted with such professionalism and excellence. We appreciated how all the technical presentations were selected to share best practices in the industries around us. The Maintcon conference is becoming an international event and allows many opportunities for networking with existing and new business partners”.

-Flowserve



“We at GE and our field services arm, FieldCore, believe our engagement at MAINTCON 2022 offered multiple benefits for all participants – exhibitors and delegates alike. Conference topics were current and presented not only opportunities for promoting understanding of industry issues and trends, but also side discussions and knowledge-sharing. All of these elements further allowed existing industry relationships to be re-ignited while also meeting new acquaintances – which in turn increases chances for potential collaboration.”

-General Electric (GE)



“Maintcon was a great event wherein we got to meet our customers and exchange our technical knowledge with them in a perfect manner. The exhibition was very well organized”.

-Eastern Msar



Maintcon proved to be a reliable source providing an interactive platform for achieving excellence in Maintenance, Reliability and Asset Management through sharing knowledge between the participants, exchanging best practices in the services, providing training and experiences and facilitating professional networking and information.

-Bin Quraya

PLATINUM SPONSORS



Baker Hughes 

The uniqueness of Maintcon event & focus is a key drive to the industry. This event is dedicated to highlighting and resolving the key maintenance, reliability, & asset management challenges by putting under one roof all the SMEs from operators (customers) and technology owners (vendors) in a knowledgeable sharing environment. Maintcon 2022 was well organized with the right topics & speakers to address today’s energy trilemma. Baker Hughes is looking forward to collaborate & participate in Maintcon’s next event.

-Baker Hughes



The Maincon exhibition this year has brought together leading companies from Bahrain and Saudi Arabia, particularly in the Oil & Gas sector. This reflects the tremendous progress being made in the region as the new 2030 visions are being realized. It also provided us with the opportunity to meet and network with our current and potential customers, creating great business opportunities for us.

-Al Mahroos Miller



“As the platinum sponsor of the 6th Middle East Maintenance Conference and Exhibition – Maintcon – in November 2022, Alfanar Engineering Services received widespread attention from exhibition visitors representing renowned utilities in Gulf countries, as well as from local & international oil & gas companies. The event organizing teams’ professionalism, attention to detail, follow up, and their willingness to go the extra mile to exceed expectations is second to none. We are very pleased with our participation and look forward to further collaborating future Maintcon events.”

-Al Fanar



Zahid Tractor is proud to have participated in Maintcon 2022 held in Bahrain. It was a very well organized event bringing major technical solution providers & clients from the Gulf onto one platform discussing maintenance, reliability and asset management challenges while we are entering into a digital world. Thanks for providing us with this opportunity and we look forward to collaborate in future Maintcon events.

- Zahid Tractor & H. M. Co. Ltd.



CORPORATE TESTIMONIAL

GOLD SPONSORS



We are proud of our participation in the 6th edition of MAINTCON among industry leaders, it was a good opportunity to exchange experiences and meet customers face to face during the exhibition. ABB enables innovation and success through digitalization by securely connecting and monitoring our customers' motors and drives, increasing operational uptime, and improving efficiency. We make the difference for our customers and partners every day by keeping their operations running profitably, safely and reliably. MAINTCON offered an upscale platform to exchange ideas and build new business partnerships. -**ABB**

Maintcon 2022 was a great platform for both end users and suppliers to exchange knowledge and share experiences through direct and fruitful discussions. The suppliers had the chance to showcase their latest technologies and services to facilitate the mission of their major customers and partners in the region to achieve their targets to improve the availability and reliability of their assets. John Crane has showcased its latest innovative technologies, like John Crane Sense® which is an advanced step towards employing the latest technologies to monitor critical assets like the dry gas seals, helping the end users to move forward in their journey to achieve sustainability.”-
John Crane



MAINTCON 2022 is considered as a noteworthy convention that aimed at congregating maintenance specialists, professionals, and decision makers. Since maintenance plays a vital role and the industries are gearing up towards integrating digitalization, it is necessary to gather, and further study to enhance maintenance practices.

- **Fawaz FM Kuwait**

CORPORATE TESTIMONIAL

GOLD SPONSORS

Maintenance is one of Fives' core strengths, thanks to more than 200 years of experience in manufacturing and installing industrial assets across 18 industries. Fives' expert maintenance guarantees machine performance and availability.

Maintcon 2022 was a successful event giving us a platform to showcase our products and maintenance services based on Industry 4.0 technologies. Overall, an interactive booth with companies from different sectors allowed Fives to showcase our best products and services. We were able to build professional networks in the maintenance community in the region. - **Fives**

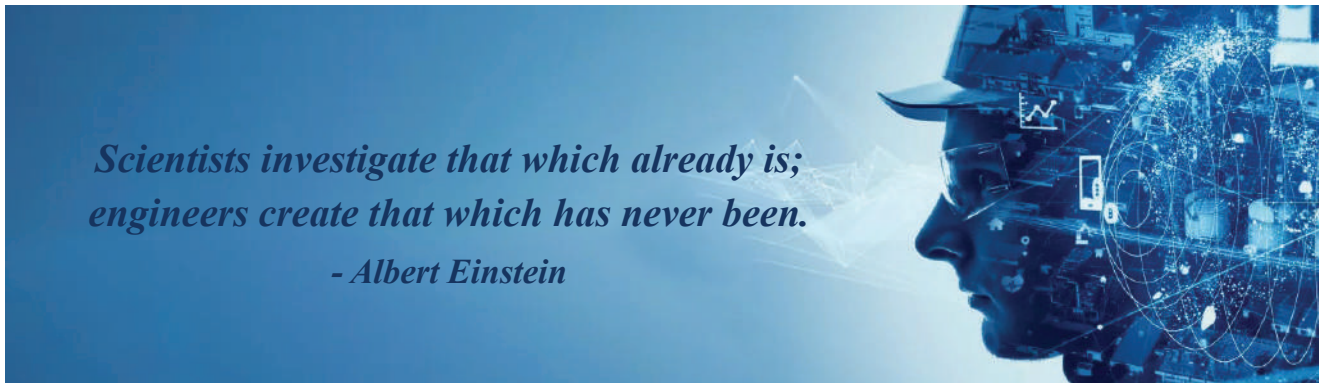


“One of the most effective expos in the region. High traffic with huge number of decision makers under one umbrella”. -Saudi Diesel Equipment Co.



CORPORATE TESTIMONIAL

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EXHIBITION



Paparazzis follow H.E. Dr. Muhammad bin Daina Al Mubarak, Minister of Oil and Environment, Special Envoy for Climate Affairs, the patron of Maintcon 2022



His Excellency presents Mr. Ahmed Khaled AL Awadhi with a trophy in front of the KIPIC booth



Dignitaries in front of the Innovation Corner



Saudi Aramco booth



Visitors stop at AHSTCO booth



Alfanar Booth



Dr. Raida presents a trophy to Dietsmann



MEFMA proudly shows off their trophy



Pedro Miras

President, World Petroleum Council

There are one billion people in the world without access to energy. We have an obligation to provide them with the kind of energy they need, wherever they are. Our companies are the best equipped to do this and we have an obligation to make it happen.

The world demands 600 Exajoules every year and growing. It is not possible to supply this enormous amount of energy with just one type, and all the energies we know are needed today. Technology has to solve the growing energy demand in all-natural environment (rural, urban or extreme) taking into account that not all solutions are possible everywhere.

Achieving a secure, affordable, and ESG-friendly energy matrix is a task that requires responsibility. It is not possible to strengthen one of the three elements by weakening the others. Therefore, we demand a responsible transition. To achieve this, technological neutrality and stable and predictable regulation are necessary.

International cooperation is key. Multilateral organisations, supported by scientific and technological criteria far removed from utopian positions, are more necessary than ever. IEA, OPEC, IEF, WPC and others have a mission to design common criteria and demand realistic and stable policies.

Regarding Maincon22, it is right that it focuses on technology. It is technology that must respond to energy challenges and this conference is a tangible demonstration of this. This should also be the central focus for the next edition.



Khaled Al Awadhi
Deputy Chief Executive Officer
Al Zour Refinery, KIPIC



Zaher Ibrahim
Vice President,
Europe, Middle East & Africa
Baker Hughes



Hisham Gouda
Chief Solution Expert
SAP Oil & Gas Industry Unit



Wazen Al Solami
Manufacturing Digitalization Leader
SABIC



Rafael Garcia Dominguez
Vice-President &
General Manager AMSS Europe,
Middle East & Africa
Flowserve Corporation



Yahya A. Abu Shal
Chief Executive Officer
Sadara Chemical Company



Turki Ahmed Bukhari
Executive Vice-President, Assets and Facilities
EXPRO



SPEAKERS TESTIMONIALS



With a full house, the Journey to Planned Maintenance 4.0 full day workshop was a total success. Attendees from the top Oil & gas, Energy and Petrochemical industries companies of the GCC were glued to their seats until the end, and even more, as the workshop was prolonged for 30 minutes due to numerous pertinent questions from the audience.

The consensus from attendees was that they got even more take aways than they expected, to apply in their daily work activities.

Jean Charbonneau

Maintenance Excellence Group, Canada



It was an honor to participate in MAINTCON 2022 and present about the Challenges of Digital Technology in Oil Downstream Organizations. Representing KIPIC and being part of one of the largest gatherings of Maintenance and Reliability Professionals around the world to participate in MAINTCON's platform was a unique experience. This Platform allowed all its attendees to gain knowledge and experience from the World's most elite and leading Oil Organizations via the Exhibition, Technical Presentations, Workshops and Keynote Speeches.

Ali Al Awadhi

KIPIC, Kuwait



I was utterly impressed with the scale of the conference (number of attendees, speakers, and exhibitors) as well as the quality of both the event and presentations. I look forward to reconnecting with acquaintances made, and to see how organisations have progressed on their journeys to excellence in maintenance, reliability and more holistically asset management.

Jean-Pierre Pascoli

Cameco/ PEMAC, Canada



MAINTCON 2022 was an absolute delight to attend: a unique opportunity to interact with industry leaders sharing key insights around the subjects of maintenance and reliability. The exhibition and conference technical tracks included great speakers, some key innovations and real-world applications of Industry 4.0 and I returned home truly inspired. I'm already looking forward to MAINTCON 2024, curious as to how the energy transition and decarbonization of operations is shaping asset management for the foreseeable future.

Pieter Teesink

Flowserve Corporation, Netherlands



SPEAKERS TESTIMONIALS



My name is Johan Ferket, I'm Consultancy Manager for Stork with more than 20 years of service for the company. During the last edition of MAINTCON I have held a presentation on Data Driven Asset Management. The highlights for me was the quality of the conference and the presentations. From the beginning to the end of the conference, the audience was very engaged. I'm looking forward to be a presenter again.

Johan Ferket

Stork, a Fluor company, Belgium



I'm convinced that holistic Asset Management will only work, when stakeholders from different parts of the organization seamlessly work with each other. I was impressed at the conference, seeing that Digital Twin is no longer a vision, but people are actually working on realizing this. I'm looking forward to the next GSMR event that provides unprecedented opportunity to further develop the discipline and share real-world experience.

Dr. Achim Krüger

Rizing, a Wipro Company, Germany



I was impressed by the professional planning, preparations, and execution of the conference which was first-rate. There are few focused conferences like it. MaintCon brings real users with real solution providers of oil & gas equipment reliability issues. Well done MaintCon!

Kim Lovejoy,

Lovejoy Controls Corporation,
USA



I was thrilled to be back in the Middle East for a face to face conference. I have some many good friends in the area and I had a great time during the conference to catch up with them and network with so many extremely motivated and innovative professionals. I look forward to MAINTCON 2023 where I want to bring more innovative solutions and learn more from the trailblazers of the region. I was really impressed with the Digital solutions and IIoT applications that are becoming real game changers not just for the Middle East region but for the whole global industry.

Geraldo Signorini

Unikaa Training & Consulting
Brazil





SPEAKERS TESTIMONIALS



It was a great opportunity to receive feedback from other international and regional experts and engineers during the conference, and learn from their experience in this subject as well. I am already looking forward for the next MaintCon to assess the progress that other organizations have made in terms of data management and analysis, and to stay up to date with the latest reliability and maintenance technologies such as AI, big data analytics and predictive maintenance platforms.

Mohamed Alrowaihi

Bahrain Petroleum (BAPCO), Bahrain



After graduation I got the opportunity to practice and explore mechanical engineering skills in different applications such as building services and rotating equipment in addition to field experience which has expanded my knowledge greatly and gave me insight in observing matters from multiple perspectives. The Critical Asset Prediction System presented during the prestigious Maintcon Conference discussed the functionality of the early diagnostic system that monitors the change of rate in equipment and automatically alerts engineers prior to failure or other consequence which provides additional period of time to respond to the underlying source.

Jori Alghamdi

Saudi Aramco, Kingdom of Saudi Arabia



MAINTCON 2022 appeared to be a fresh breath in the era of pandemic barriers to physical socialization for professionals across the globe. I feel strongly motivated and also recommend my fellow professionals to attend and participate in upcoming editions of this international conference which attracted experts from more than 30 countries in the last event.

Muhammad Bilal

Pakistan Refinery Limited, Pakistan



I was very pleased with MAINTCON 2022. The detailed preparation and organization of it lead to a high quality event. From the speakers to the panel discussions, it was very informative and interactive. I look forward to being part of the next one!!

Ahmed Al Kadhem

Saudi Aramco, Kingdom of Saudi Arabia





SPEAKERS TESTIMONIALS



I have more than 11 years of experience in asset management, specializing in improving reliability for our customers. At MAINTCON 2022, I presented about improving reliability and maintenance strategies through failure mode effects analysis, data analysis and digitization. It was a great experience for my colleagues and me to be part of MAINTCON where we also had the opportunity to discuss with our business partners how we can work together to leverage our solutions and technologies to improve reliability and reduce downtime. I am looking forward to MAINTCON 2023 and continuing this partnership with MAINTCON and John Crane customers to bring the best to our industry.

Majd Kinawi

John Crane, UAE



MAINTCON 2022 provided an exceptional opportunity to connect and establish networks with influential industry leaders from the GCC region. The event was very well organized, and the sessions were centered around critical topics in the field of maintenance and digitalization, making it a valuable learning experience.

I look forward to attending the 7th MAINTCON event. I believe it will provide a unique platform to further network with industry leaders, gain insights on the latest advancements, and learn about emerging trends and developments in the field -

Ahmed Ali Abdelrazik

Emerson Automation Solutions, Saudi Arabia



Resuming the in person experience for 2022 was a fantastic opportunity to reconnect with many colleagues in the maintenance and reliability space. It was great to witness the recovery of our industry after some volatile times. The Maintcon 2022 conference reiterated the sense of purpose which vendors bring to the table to solve industry's tough problems.

Daniel Costa Rodas

GE Digital, UAE



MAINTCON 2022 was a strong and diverse technical event. This provided a platform to listen to maintenance and reliability industry leaders across the globe. The highlight of the conference was the keynote sessions delivered by industry reliability leaders of the world best run companies sharing their experiences and deliberating on effective strategies for enhanced reliability and asset management.

Sivakumar Sankaran

Saudi Aramco, Saudi Arabia





SPEAKERS TESTIMONIALS



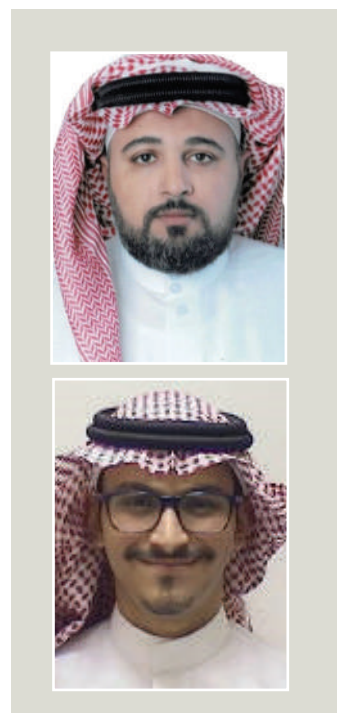
MAINTCON 2022 is a well-organized event which had several key notes speakers and presenters, technical programs are designed & delivered in four different tracks which gives flexibility for the audience. Looking forward to attend & participate in the next Maintcon event to see advanced technologies related to maintenance & reliability of the equipment.

Habeeb Ulhaq
Saudi Aramco, Kingdom of Saudi Arabia



Maintcon managed a splendid job in marketing the event, which attracted quality visitors and key decision makers from Saudi Arabia and Bahrain alike. The symposiums were well organized and salient topics were presented. Vendors and end users alike, all acquired important information and best methods for the benefit of the industry and processes. In the future, we look forward to more participation of OEMs to enable industry like us to come on a more common platform and interact with each other for future business development and strategies.

Tanveer Shaikh
Eagle Burgmann, Saudi Arabia



Maintcon-2022 conference can be described, with confidence, to be a real prestigious Maintenance & Reliability Venue. We had the pleasure to present our state-of-the-art Augmented Reality technology illustrating rotating equipment repair and components descriptions which is one of I.R.4.0 technologies. We got astonished by the multiple professionals we connected with during our presentation for mutual benchmarking activities within the industry, alongside the outstanding opportunity of networking with top-notch original equipment manufacturers & vendors in which several projects are currently under evaluation with industrial partners we met thanks to Maintcon-2022.

Hussain Mohammed Alshaghab & Muhannad Alhazmi
Saudi Aramco
Saudi Arabia



SPEAKERS **TESTIMONIALS**



I was honored to present a paper in MAINTCON 2022 on Transformation of Power Transformers. The advancement in technology, specifically the data analytics and communication infrastructure, provides solutions to better manage the assets and improve reliability with optimized cost. This paper addressed adopting condition monitoring solutions for power transformers. The paper provided an overview about transformer condition monitoring solutions available in the market as well as the impact of deploying such technology in improving the reliability of power transformers.

Hasan Al Ali
Saudi Aramco
Saudi Arabia



DELEGATES **TESTIMONIALS**



I had a delightful time at Maintcon 2022. As a part of the maintenance team here at Bahrain Petroleum Company (BAPCO), Maintcon was quite interesting, the topics covered and the exhibition were well put together. I definitely enjoyed my time and learned a lot. I hope to be part of the next Maintcon.

Muzna Ahmed
BAPCO
Bahrain



Maintcon was significantly educational in the field of maintenance and reliability. As a young engineer who had recently joined the maintenance and reliability sector, the conference with its workshops, tracks and exhibition were significantly beneficial.

I attended various activities starting with a pre-conference workshop, a variety of tracks and presentations, as well as the WIAM & LEWAS event and workshop, which were encouraging, confidence boosting as well as knowledge enriching. Looking forward to the next one.

Tyma Al Nasser
Saudi Aramco
Saudi Arabia





GSMR EXCELLENCE AWARD Achievers Award

1ST PLACE WINNER



MOHAMAD AL IBRAHIM

GSMR Excellence Award –
Achiever's Award

Projects:

- “SWID Lubrication Enhancement Journey”
- “SWID Critical Valves Maintenance Program”
- “Turning Ideas into Patents”
- “The 2021 Exceptional Safety Recognition Program “ESARP””

“

Winning the GSMR Excellence Award—Achievers Award was a special experience in so many ways, as winning the first place provided me with the validation that I have a diverse set of skills related to the field of maintenance, reliability and asset management and I felt appreciated by MaintCon 2022 organizers. This experience will surely ignite my passion to find out future development opportunities that will benefit the industrial fields.

”

2ND PLACE WINNER



BADER ALJAZZAF, KIPIC

GSMR Excellence Award -
Achiever's Award

Projects:

"KIPIC Reliability Excellence Framework (K-REF) and Reliability Policy"



GSMR is a widely recognized organization in the field of maintenance, reliability & asset management (MR&AM) and winning the GSMR Excellence Award is an added value to my reputation not only within my organization but also among other reputed organizations in GCC countries and around the world. It will raise the confidence in my reliability vision, knowing that the techniques applied in the field of MR&AM are, indeed, best in class which will keep motivating us to continuously improve existing processes and come up with new added value initiatives.



3RD PLACE WINNER



LOIC TAUGOURDEAU, dnata

GSMR Excellence Award -
Achiever's Award

Projects:

Change management to enhance asset management maturity—dnata



The GSMR Excellence Award was an amazing opportunity to be recognized and acknowledged for my achievement and career contribution to the Maintenance, Reliability and Asset Management. Held during the International MAINTCON conference, it is a chance and an opportunity to gain exposure and confidence and meet with key stakeholders and organizations. It is my pleasure to be appreciated and encouraged by the GSMR committee with this award.





GSMR EXCELLENCE AWARD Future Leaders Award

1ST PLACE WINNER



NOURAH AL-SAAD, KIPIC
GSMR Excellence Award Winner,
Future Leader Award

“

It was an honor to win the 1st Place in the GSMR Excellence Award Future Leader Award. This was an excellent addition to my career as a woman in the maintenance, reliability and asset management (MR&AM) field. It had a great impact on my personal motivation as my work was recognized. I want to mention my gratitude and appreciation to my company, my manager and my team for their continuous support. I encourage all the young employees to apply in the next Maintcon.

”



GSMR EXCELLENCE AWARD Future Leaders Award

2ND PLACE WINNER



MOHAMMED AL TAWILI, Saudi Aramco

GSMR Excellence Award,
Future Leader Award



To win this prestigious GSMR Excellence Award – Future Leader category during Maintcon 2022 is a memorable milestone that I will be proud of forever. GSMR Excellence Award is more than receiving a trophy rather, it is a lifetime career confidence boost to be recognized by an esteemed organization like GSMR for all maintenance, reliability and asset management (MR&AM) significant contributions resulting in valuable impact to both my organization and community. The award boosted my capacity to be more hungry and positively contribute to the field of MR&AM. To quote Nelson Mandela, “It always seems impossible until it’s done”.

I would like to encourage all young leaders to move out of their comfort zone in order to learn, apply and create new value for next generations.





GSMR EXCELLENCE AWARD Organization Award

ELITE



SAUDI ARAMCO ABQAIQ PLANTS MAINTENANCE DEPARTMENT

“ Winning the prestigious 2022 GSMR organization award is a testament to the immense efforts in the field of maintenance, reliability and asset management of Abqaiq Plants Maintenance Department. Such accolades and accomplishments were made in harmony with the goal of processing hydrocarbons reliably and effectively while upholding the highest standards of safety, and environmental stewardship, utilizing innovation and cutting-edge technologies.

In joining the GSMR award, we embarked on a new journey of knowledge and learning opportunity in partnership with all maintenance, reliability, and asset management leaders in the GCC and international arena at large. ”

Sami S. Al-Huwais

Abqaiq Plants Maintenance Manager

GSMR Excellence Award Organization Award - Elite

EXCELLENT



BAHRAIN PETROLEUM COMPANY (BAPCO)



Bapco achieved significant improvements in Reliability and Integrity by implementing robust programs aimed at enhancing the overall efficiency and availability of the refinery. The GSMR excellence award is an international recognition and a great opportunity for Bapco to demonstrate and publicize the results of its Reliability & Integrity improvement program on a wider scale with a likeminded audience.



Bahrain Petroleum Company (BAPCO)

GSMR Excellence Award Organization
Award - Excellent

PREMIUM



EXPENDITURE & PROJECTS EFFICIENCY AUTHORITY (EXPRO)



As we believe that technology and developments in digital transformation taking place in the areas of maintenance, reliability and asset management play a vital role in the massive revolution happening in the Kingdom; EXPRO is proud of achieving the 3rd place in the 6th edition of GSMR Excellence Award, which will help us continuously enhance our methodologies for managing projects, assets, and facilities.



Turki Bukhari

Executive Vice President of Assets and Facilities
GSMR Excellence Award—Organizations Award,
Premium



WIAM Emerging Professionals Award



Aram Al Yahya
WIAM Emerging Professionals Award Winner, **Saudi Aramco**

“ I don't see myself as a woman in the energy industry, I see myself as an engineer in it. I really enjoy what I do and I'm passionate about helping the youth and students grow and develop in STEM.

A tip that I received early in my career is to always say YES to opportunities. You never know what doors they might open up for you. Hence, I am sure that winning the WIAM Emerging Professional Award will open up many new doors for me. ”

Fatema Husain
WIAM Emerging Professionals Award Winner, **BAPCO**





“ It was an honor to receive the prestigious WIAM Awards in Maintcon-2022. This recognition further inspires me to strive to achieve my personal development plan, and it will strengthen me to be a positive contributor in the Hydrocarbon Industry Technical Community. ”

Faten Taqi
WIAM Emerging Professionals Award Winner, **KIPIC**



“ Competing in this industry may seem difficult at times but with perseverance and hard work, you will be able to excel in the field. Try to reach out to those around you and create a network of connections that can support you throughout your career. ”

Haya AlJassim
WIAM Emerging Professionals Award Winner, **Gulf Petrochemical Industries Company (GPIC)**



“ Being a women in technology means driving change by advocating for all other women. For all women future leaders, don't let the current representation in the workplace define your limit, keep pushing forward. Winning the WIAM Emerging Professionals award and being surrounded by other great female role models was a true motivation. ”

Zahraa Alshammasi
WIAM Emerging Professionals Award Winner, **General Electric (GE)**

WIAM Women of Excellence Award



Amani Haikal
WIAM Women of Excellence Award Winner
Saudi Aramco—Community Services Technical Support

“ During my career as a woman engineer in the fields of maintenance, reliability and asset management (MR&AM), I was often faced with many challenges related to gender stereotyping and societal “norms” in the field of engineering. However, instead of being discouraged by these challenges, I used them as catalysts to excel in all aspects of my career which have resulted in substantial achievements and prestigious recognitions such as the recent WIAM “Women of Excellence” Award. My advice for all young leaders in the industry, especially young females, is to trust their capabilities, believe in their dreams, and always strive to do their absolute best in everything they do. Adopting this mindset will help them excel and will pave the road for all future successes. ”



Salma Al Hajeri

WIAM Women of Excellence Award Winner
Mubadala Energy



I am honored to receive the WIAM “Women of Excellence” award that has been given to distinguished individuals who have made outstanding contributions to our industry. My role sees me getting involved in a wide range of asset management activities, which includes financial and technical aspects of running a diversified global asset base.

Throughout my career, I witnessed the growing number of women forging their careers and are now in leadership positions across the sector. GSMR organization has provided very important platforms like MAINTCON - International Maintenance, Reliability & Asset Management Conference and WIAM to share our stories and be recognized for our success.

I am happy to see the energy industry becoming more diversified and inclusive and I hope that my journey can be an inspiration for young professionals looking to build a career in Oil & Gas.



Sukaina Alkindi

WIAM Women of Excellence Award
Petroleum Development Oman (PDO)

WIAM Women Empowerment Award



Taher Abujoudeh

WIAM Women Empowerment Award Winner
GE (a Fieldcore company)

“ Winning the award was impossible without the achievements and spirit of all the women in FieldCore and broader GE, as well as the support by male colleagues who advocate diversity and inclusion.

This award inspires me to never give up building a better future, for everyone; it will keep guiding me to celebrate our differences and leverage our uniqueness to carry on nurturing an inclusive culture that innovates and delivers more, for everyone.

To tomorrow’s leaders I say: aspire to be a symbol of inspiration, not authority; be transparent; encourage team members to question ideas and offer their own; challenge them to find a better way to do it.





Maram Al Hammad

WIAM Women Empowerment Award Winner
Saudi Aramco



Khamis Albusaidi

WIAM Women Empowerment Award Winner
Petroleum Development Oman (PDO)

INNOVATION CORNER FINALISTS



Groundbreaking innovations in the fields of maintenance, reliability and asset management (MR&AM) were exhibited during Maintcon 2022 at the Innovation Corner. Among the many submissions, the following were chosen as noteworthy and would add value to the industry.



Mohamad Al Ibrahim
New Shaft Alignment Method, Saudi Aramco



Husain Haiman
Heat Exchanger Repair, BAPCO



Abdullah Al Abdulkareem and Abdulaziz Alshaikh Mobarak
Mechanical Seal Failure Detection, Saudi Aramco - Abqaiq Plant



Louai Alqudaihi
Substation Autonomous Inspection Robot (SAIR), Saudi Aramco



Prof. Uneb Gazder
Design of GIS-based mobile app, University of Bahrain (UOB)



Dr. Rana Malhas, Abrar BenHusain, Nadeen Alotaibi, Noor Alhaddad, Taiyeba Alamgir
Oily water treatment using magnetic nanoparticles
Australian University Kuwait



Zakarya Hiba

Using Hydrocarbon Load for Tank Settlement Repair, Saudi Aramco



Ali Aldosari

Equipment Identification Barcode, KIPIC



Aisha Al Jalahmah

Asset Tracking Device, KIPIC



Hala Khattabi

Predictive Maintenance Platform
OCP Maintenance Solutions



Alex Lechler

TeamViewer Frontline - Digitally Connected Worker, SAP



Abdulrahman Al Awad & Faisal Al Mana

Trinamix, Hytorc Lithium Series II, Reinforced Thermoplastic Pipe (RTP), SABIC



Saeed Aljabri

UAV-based radar, Saudi Aramco



Mohanned Tarabzouni

Foot Operated Grease Pump, Saudi Aramco



INNOVATION CORNER AWARD WINNERS



Louai Alqudaihi

Substation Autonomous Inspection Robot (SAIR)
Saudi Aramco--PSED



Winning the first GSMR innovation award for developing and showcasing the Substation Autonomous Inspection Robot (SAIR) at the Maintcon—International Conference for Maintenance, Reliability and Asset Management was truly an honor.

Receiving the award will not only have a very positive impact on my career, but will also support my current postgraduate applications at the world's top engineering institutions. I am elated that my innovation corner idea submission was shortlisted and eventually selected for the award. It was a priceless experience to spend time with other innovators from different parts of the world. I urge you to seize this opportunity and participate in the largest gathering of maintenance and reliability professionals in the world to take your innovation and future to new prospects.



Mohannad Tarabzouni

Foot Operated Grease Pump
Saudi Aramco



Mohamad Alibrahim

New Shaft Alignment Method
Saudi Aramco

“ It is a wonderful surprise to have won the MAINTCON Innovation Corner Award for my invention “New Shaft Alignment Method”. This award allows inventors in our industry to make a difference in maintenance, reliability and asset management fields through innovative solutions. ”



Australian University of Kuwait

Dr. Rana Malhas, Abrar BenHusain, Nadeen Alotaibi, Noor Alhaddad, Taiyeba Alamgir
Oily water treatment using magnetic nanoparticles

“ We were honored to be awarded in the MAINTCON 2022 Innovation corner for a project titled: Oily water treatment using magnetic nanoparticles. ”

As academics, we have an obligation to enlighten and educate young minds with the notions of innovation and transformation. Participating in such a prestigious platform as Maintcon 2022, along with a group of young engineers, was a great opportunity for us to present this innovative research and network with researchers and experts within the field.

Exhibiting our work and findings alongside distinguished companies from throughout the Gulf was an experience that will push our team to research and innovate robustly. ”

PHOTO GALLERY



Mr. Vivek Sudarsanan, Conference Manager and Mr. Saad Al Ulaimi, Technical Committee Chair.



Mr. Husain Ebrahim moderates a technical session



Maintcon welcomed delegates from all around the GCC and the world.



The sessions for the keynote speakers drew big crowds of attendees.



LEWAS Workshop participants.



Mr. Ahmed Barnawi, Committee Chair of GSMR Excellence Award, Mr. Mahmood Mirza, Vice-Chair of Maintcon and Nezar Al Shammasi, Conference Chairman share a moment together.



Technical presenters take the opportunity to learn from other speakers.



Delegates from Saudi Aramco

PHOTO GALLERY



Mr. Abdullah Mugahwy presented the trophy to Mr. Fahad Al Mutlaq.



Visitors and delegates touring the exhibition area.



Delegates stopping by Al Ajmi booth.



The Substation Autonomous Inspection Robot (SAIR), which became one of the main attractions in the Exhibition Area.



Delegates pose with Mr. Yahya Abu Shal, CEO of Sadara.



Mr. Turki Ahmed Bukhari, Executive Vice-President, Assets and Facilities of EXPRO speaks to a crowd.



Mr. Essa Al Gattan and Mr. Ahmed Alkhalidi from KIPIC are joined by Shaikha Dr. Fay Al Khalifa (UOB), Mr. Jassim Yousif (GSMR) and Mr. Mahmood Mirza (GSMR, BAPCO).



Delegates actively participated in the interactive sessions.

GSMR IS PROUD TO ANNOUNCE
THE RELEASE OF ITS BOOK:



YEARS AND ACHIEVEMENTS IN MAINTENANCE AND RELIABILITY

GSMR released its premier book *Years and Achievements in Maintenance and Reliability* during MAINTCON 2022. The book is the culmination of 10 years of achievement in maintenance, reliability and asset management. It also detailed the history of the society from its founding members, Board of Directors to the society's change of name from GSMP to GSMR. A historical and relevant document to the MR&AM field, the book shows GSMR's commitment to be a recognized world class society for maintenance and reliability professionals in the Gulf region.
