

His Excellency the Minister of Oil and Environment inaugurated the International Maintenance, Reliability, and Asset Management Conference (MAINTCON)

2,200 delegates, 100 companies, from 35 countries, took part in the conference and 80 work papers presented



Minister of Oil and Environment H.E. Dr. Mohamed bin Mubarak Bin Daina inaugurated the 6th Middle East Maintenance and Reliability Conference and Exhibition (MAINTCON) on November 27, 2022 at the Gulf Convention Centre at the Gulf Hotel, under the slogan "Industry 4.0 – Industrial Innovation and Technologies in the New Normal".

A distinguished group of international professionals, enthusiasts, engineers, and specialists in the field of maintenance, reliability, and asset management participated in the event. This was in addition to a large number of CEOs of

specialized companies in Bahrain, the GCC and beyond. They took part with the aim of exchanging knowledge, experience and high inspirations for inventions and displaying the latest technologies in this significant field.

This international conference was organized by the Bahrain Society of Engineers and GSMR, in coordination and cooperation with the Ministry of Oil and Environment and was held under the patronage of Saudi Aramco, Oil and Gas Holding Company and a number of leading local, regional, and international oil and industrial companies. Over 2,200

delegates from various countries around the world took part in the event.

In addition to the conference events, which included the presentation of 80 technical papers and a number of discussions and dialogue sessions, a distinguished group of international speakers from the Gulf and international oil and industrial companies took part. Moreover, 100 exhibitors from around the world took part in the accompanying exhibition, showcasing the latest in the world of digitization in the field of maintenance and industry;

During his speech at the opening of MAINTCON 2022, H.E. the Minister: **Establishing a culture of preventative, predictive, and proactive maintenance has become a serious and urgent matter, which must be studied well**

In his opening speech at the Sixth International Maintenance and Reliability Conference and Exhibition (MAINTCON) held on November 27, 2022, H.E. Dr. Mohamed bin Mubarak Bin Daina, Minister of Oil and Environment, welcomed all GCC and international delegations participating in this event.

“The world today still needs fossil energy to secure energy supply, which is a motivating factor for oil companies to undertake further oil investments and implement new projects and expansions that include exploration, development, production, gas, refining, petrochemicals and other major industries.

“These render the issue of applying total maintenance in all oil projects, that needs fostering a culture of maintenance in its various stages, whether preventative, predictive, and proactive, as a serious and urgent matter which must be studied well in order to maintain the equipment, instruments, and oil facilities and extend their lifespan.

“The conference this year came to keep pace with the technological developments and digital transformation taking place in the fields of maintenance, reliability and asset management. This event will be an ideal platform that brings together international and regional



professionals, researchers, service providers and users to explore the latest in the world of digitization and benefit from the information and experience which will enrich their participation”.

The Minister expressed his gratitude and appreciation to all the participants, the organizing committee, the patrons, the exhibitors, and the speakers for

all their efforts to present this conference and exhibition. H.E. confirmed the interest of the Ministry of Oil and Environment to exert all efforts to enhance the position of Bahrain as a vital hub for the exhibitions industry and organization of relevant global events. H.E. wished the conference and exhibition organizers good luck and success in achieving their goals and aspirations

During the executive session at Maintcon 22:

Discussion of the impact of digitization on maintenance, reliability, asset management and sustainability in future projects



During the executive session of Maintcon 22, the impact of digitization on maintenance, reliability, asset management and sustainability in future projects and investment in human capital in the Industrial Revolution 4.0 was discussed.

Engineer Fahd Al-Abdul Karim, Vice President of Industrial Services at Saudi Aramco; Joe Hawari, Vice President, Systems and Software at Emerson Middle East and North Africa; Stefano Terzi, Executive Engineer at Baker Hughes and Yahya Mansour, CEO at General Electric Gas Energy Services Middle East and North



Africa spoke during the event. The meeting was managed by Ameena Bakr, Chief Correspondent of OPEC and Vice President of the

Energy Intelligence Group's Dubai Office

On the Second day of the "Maintcon 22" Conference and Exhibition...

Honoring the winners of the Women in Industry and Asset Management Award (WIAM) under its three categories



The Women in Industry and Asset Management Committee (WIAM) honoured some women who demonstrated excellence and leadership in industry and asset management. The event was held on November 28, 2022 in the presence of Engineer Fahd Al-Abdul Karim, Vice President for Industrial Services at Saudi Aramco, Dr. Raida Al-Alawi, President of the Bahrain Society of Engineers, Engineer Saad Ebrahim Al-Shamrani, President of the Gulf Society for Maintenance & reliability, Eng. Nizar Al-Shamasi, President of the International Conference on Maintenance and Reliability and the Vice-President of the Conference, Eng. Mahmoud Mirza.

Engineer Fahd Al-Abdul Karim presented awards to the winners.

It is worth noting that this award was launched in 2018 following the formation of the Women in Industry

and Asset Management Committee (WIAM) to promote comprehensive growth and gender equality, which occupies a high place on the conference agenda.

This initiative is considered unique in the region where WIAM's Committee of Pioneering and Innovative Women provides a platform to highlight woman's achievements and contributions in the growing field of maintenance, reliability and asset management and honoring the women who demonstrate excellence and leadership in industry and asset management organizations.

The award is divided into three categories - the Emerging Professional Award, the Distinguished Woman Achievement Award and the Women Empowerment Award.

This prestigious award committee evaluates the nominations, and each

nomination is given a score according to the woman's performance over the past two years. The scope of the award covers GCC companies and professional women only.

The Emerging Professional Award is allocated to female engineers working in the field of maintenance, reliability, and asset management for a period ranging between five and 10 years. Five women won this award.

The Distinguished Woman Achievement Award is directed to female engineers and workers in the field for a period of more than 15 years, and it was won by three women.

The Women's Empowerment Award is allocated for both genders who have contributed to the empowerment of women in the field of industrial work. It was won by three people (two men and one woman).

Comprising a selection of engineering competencies and specialists in the country...

Meeting of the Board of Trustees of the BSE Training Centre

Following its re-formation, the Board of Trustees of the Training Centre of the Bahrain Society of Engineers held its first meeting. The meeting was held at the BSE's headquarters on November 1, 2022 under the chairmanship of Engineer Jameel Kadhim Al Alawi who at the beginning of the meeting welcomed the attendees. During the meeting, the Centre's governance rules and work plan were presented in addition to the training programmes that are offered. The implementation mechanisms of the training programmes with the concerned authorities were also discussed.

The training centre plays a pivotal role and represents a new and clear vision for training, which focuses strongly on the importance of training for the future of Bahraini engineers. This vision is co-related with providing the knowledge base, creating a spirit of competition and supporting economic development in order to keep pace with the global economy.

The training centre mainly aims to build a work force that is qualified for employment, and has flexibility and high skill, which is the key to innovation, productivity and competitiveness at the local and regional levels, depending on meeting the current and future needs of the labour market.

The training centre was founded out of the BSE's commitment and role in the development of the engineering sector in the country, especially with the continuous increase in the number of engineers



who are working in the Bahrain, which led to the necessity of establishing a training centre within the BSE and launching its activities in 2001. The Training Centre is keen to provide quality training to qualify engineers in both the public and private sectors through specialized training courses.

In October 2020, the BSE's Board of Directors approved the formation of the Training Centre's Board of Trustees in accordance with its governance regulation and the training centre's work plan.

The Board of Trustees of the Training Centre is chaired by Engineer Jamil Kadhim Al-Alawi and its membership includes Dr. Raida

Al-Alawi (the current president of the BSE), Engineer Adnan Al Rahma, Director of Training, Engineer Sameeh Al-Alawi, BSE member, Engineer Kadhim Abdul Latif (Assistant Undersecretary for Roads at the Ministry of Works), Ali Ashoor Abdul Latif (Executive Vice President of Resources and Services at the Electricity and Water Authority), Dr. Lubna Al-Sulaibikh (Head of Administration and Scholarships at the Bahrain Petroleum Company, Khalil Suhail (Director of Casthouse 4 Operations at Aluminum Bahrain and Dr. Ahmed Bucheery (GPIC Workforce, Training and development Superintendent).

In the presence of representatives from seven Arab countries...

The Committee on Information Technology and Communications of the Federation of Arab Engineers Meets in Bahrain



The Committee on Information and Communication Technology of the Federation of Arab Engineers held its meeting at the headquarters of the Bahrain Society of Engineers from November 2 to 4, 2022. The meeting was chaired by Dr. Raida Al-Alawi, BSE's President, Chair of the Committee in the presence of representatives of the committee from Jordan, Syria, Palestine, Lebanon, Oman and Tunisia.



The meeting discussed the committee's upcoming activities and preparation for the Seventh Arab Conference on Information and Communication Technology 2023, which will be held in Bahrain on December 6 and 7 2023 under the auspices of His Excellency Shaikh Khalid bin Abdulla Al Khalifa, Deputy Prime Minister and Minister of Infrastructure.



Chaired by Eng. Emad Al Moayyed...

Meeting of the Bahrain Society of Engineers Awards Committee



The BSE Awards Committee for Distinguished Engineers held its meeting at the BSE's headquarters on November 5, 2022. It was chaired by

Eng. Emad Abdul Rahman Al-Moayyed. Dr. Raida Al-Alawi, BSE's President, welcomed the attendees and then the committee resumed discussing

the topics on the agenda. Engineer Abdul Nabi Al-Sabah was selected as the Secretary of the Award Committee.

Meeting of the joint committee between the Bahrain Society of Engineers and the Bahrain Engineering Offices Society

The joint committee, comprising the Bahrain Society of Engineers and the Society of Engineering Offices, held a meeting at the BSE's headquarters in Juffair, on November 23, 2022.



BSE participation in the Industrial Awareness Day Exhibition at Nasser Center for Rehabilitation and Vocational Training



The Bahrain Society of Engineers participated in the Industrial Awareness Day exhibition, which was held in the academic building of the Nasser Centre for Rehabilitation and Vocational Training, on October 30, 2022. A group of leading companies, institutions and associations from the industrial and vocational sector in Bahrain took part in the event.

The Bahrain Society of Engineers pavilion was honored by the visit of His Highness Sheikh Nasser bin Hamad Al Khalifa, representative of His Majesty the King for Humanitarian Works and Youth Affairs, Chairman of the Board of Trustees of the Nasser Centre for Rehabilitation and Vocational Training.

The BSE's suite at the exhibition contributed in educating the students on the role of the BSE and its various activities and the professional options available to them in the labour market. The students were also introduced to the training programs offered by BSE through its training centre.



Participated by a working paper entitled "The Future of Engineering in the Age of Digitization" at the International Conference on Project Leadership and Management in the Digital Age...

Al-Alawi: We encourage the faculties of engineering to continue adapting and improving their engineering curricula to meet the future needs of the profession

The Bahrain Society of Engineers participated in the "Third International Conference on Project Leadership and Management in the Digital Age", organized by the Applied Science University in collaboration with the Federation of Arab Universities and the Bahrain Society of Engineers. The event was held on November 27 and 28 at the Grand Wyndham Hotel Bahrain.

At the opening ceremony of the conference, Dr. Raida Al-Alawi, President of the Bahrain Society of Engineers, emphasized the fact that the digital transformation affects most aspects of our personal lives and the organizations we deal with, noting that the success of organizations depends on the successful adaptation of the latest information and communication technologies.

Al-Alawi considered that the skills and knowledge of engineers are required more than ever, given that they possess the technical knowledge that the organization needs to make the best technological choices and apply them effectively. She emphasized that future engineers are required to play a greater role in technological strategic planning, decision-making and implementing the same in the organization. She also emphasized that their knowledge and skills must be included in decision-making at all levels.

"Engineers also need to understand the impact that new technologies will have on their industry and on their organization, along with the opportunities and challenges that enable them to do so. The wide range of technology options available to organizations can cause confusion



that often prevents them from advancing in digital transformation. Deciding where to invest the most effective technology is a difficult question and requires the inclusion of skilled technical judgment from engineers, who need to understand how to use adaptive technologies to ensure sustainability and create environmentally friendly products and services. In this case they need to focus on creativity and innovative activities" Dr. Raida concluded.

Dr. Raida Al Alawi:

- * Future Engineers will be more people and society oriented.**
- * Designing and developing curricula that focus on the competencies and capabilities of the new generation of engineers will be necessary to achieve sustainable success.**

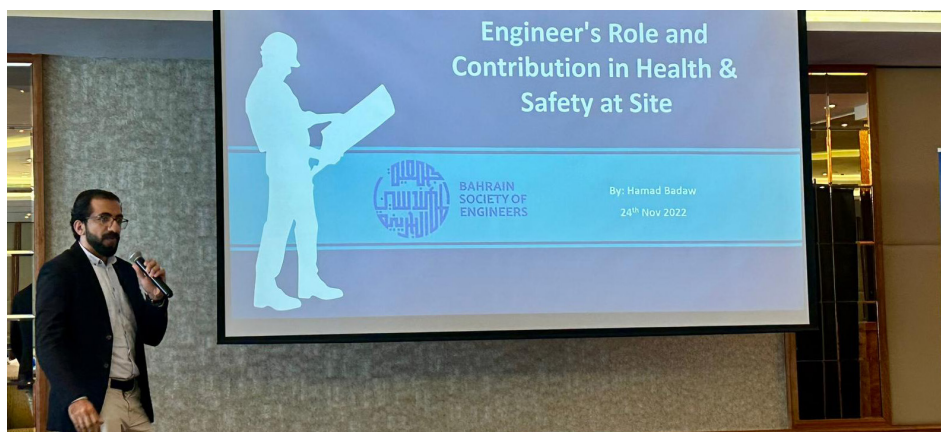
Eng. Hamad Bado presents a paper on the "Role of the Engineer at Work Sites"... The Bahrain Society of Engineers takes part in the "Occupational Safety and Health Week", which was held by ESB International

As part of its initiatives to create a culture of health, safety and prosperity, the Bahrain Society of Engineers took part in the "Occupational Safety and Health Week", which was held by ESB International, Bahrain Branch at the Swiss-Belhotel Seef from November 21 to 24 2022. At this conference, Eng. Hamad Ebrahim Bado, Chairman of the BSE's Young Engineers Forum presented a paper entitled "The Engineer's Role and Contribution to Health and Safety in Work Sites".

In his presentation, Eng. Bado emphasized the fact that occupational safety and health is the science that is concerned with preserving the safety and health of employees and the work team, by providing safe working environments that are free from the causes of accidents, injuries, or occupational diseases.

"For establishments, this means increasing productivity, preserving skilled workers, reducing time loss in production, and reducing direct and indirect costs of accidents, however, for a worker it means protecting the safety of body, physically and psychologically, financial income, life continuation and taking part in work. The health and safety is not limited to the worker only, but to the work as well", Mr. Bado said and added:

"In projects, the engineers used to focus on managing the project professionally, whether in terms of planning the project, reviewing work programmes, project delivery dates and budget, and risk management



that would affect the workflow, productivity rate, and other important topics that are vastly significant. It is not enough to depend, with regard to health and safety issues at the work site, on the security and safety team, who may forget some of the engineering and technical issues that are of great importance in this respect".

The chairman of the BSE's Young Engineers Forum concluded his presentation by emphasizing that the employer must take necessary precautions to protect his workers from the hazards of the work environment, fulfill all legal requirements in the field of occupational safety and health and commit himself to provide and maintain safe work equipment so that it does not pose a threat to

safety and health. The employer must ensure the availability of safe working equipment and adequately maintain them to avoid any dangers to the safety and health of workers, safe use, carrying, transporting, or storing goods or materials so that they do not pose a threat to the safety and health of workers. This is in addition to informing the worker of the work hazards and the means of prevention that he must take into account. He stated that it is necessary to provide necessary training to all his workers, each within his specialty, and providing supervision that is appropriate and suitable for all operations carried out by the establishment, and providing the necessary information and instructions to all workers at the work site.

New Graduates from "Ta' heel" Programme



In November 2022, a new group from the BSE's Training Centre graduated under "Ta'heel" programme. Through this programme, the new members are introduced to the Society's systems, regulations, committees, and engineering divisions.



A technical visit for the BSE members to Solartech Green Energy Factory

The Public Activities and Community Service Committee organized a technical visit for the members of the BSE to Solar Tech, on November 19th, 2022.

The Solar Tech factory is the second factory for the production of solar energy panels in Bahrain, where they learned about the method of manufacturing solar cells and panels



The Architecture and Urban Planning Division organized an artistic visit to the Pearling Path in Muharraq



In coordination with the Bahrain Authority for Culture and Antiquities, the BSE's Architecture and Urban Planning Division organized a technical visit for the members to the Pearling Path in Muharraq. The visit took place on November 5th, 2022.





Subject: Invitation to submit working papers for the 24th Gulf Engineering Forum

Dear members,

The Gulf Engineering Union In cooperation with Qatar Society of Engineers

Will organize

The 24th Gulf Engineering Forum

Entitled:

"Environmental Engineering and Sustainability"

📍 State of Qatar - Doha 📅 7-9 March 2023

Those wishing to submit working papers for this forum are kindly requested to contact Miss Razan Moroodi on phone 17810721 or e-mail: Razan.moroodi@bse.bh.



Board of Directors



Cost: Members will bear the cost of travel and accommodation expenses.

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