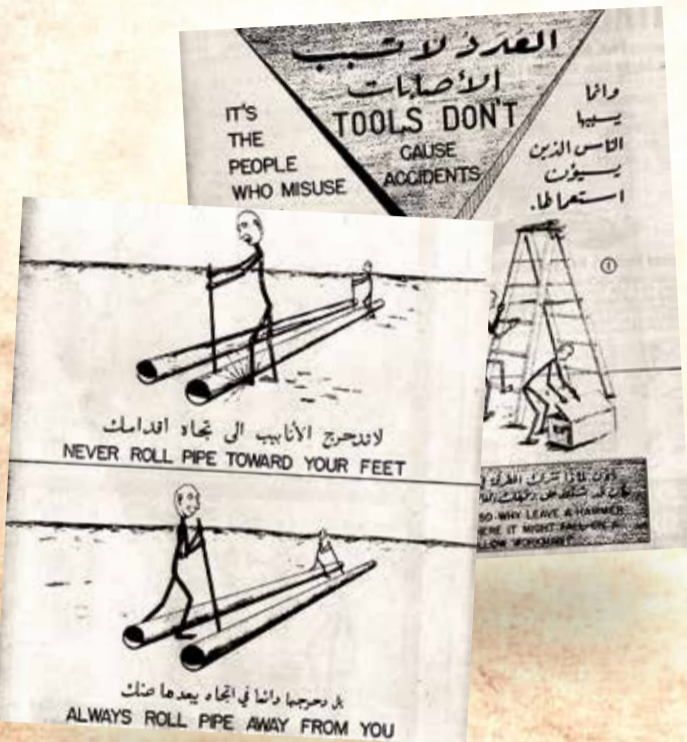


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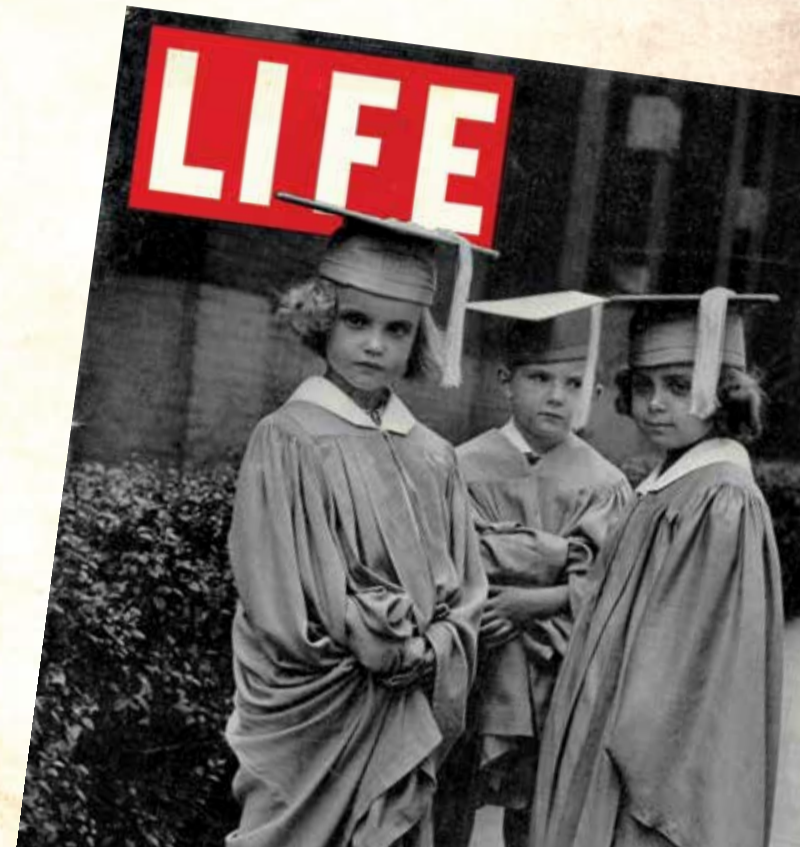
a weekly Saudi Aramco publication for employees



standing on the shoulders of our safety pioneers

our window to 1945 shows our foundational dedication to protecting our people and assets

see page 3



preparing our future leaders with a faster, more robust e-Learning experience

see pages 8 and 9



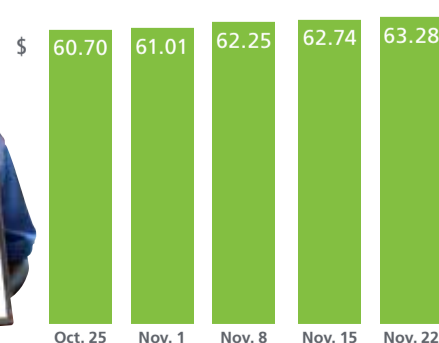
boy, 10, makes the **right (911) call** on house fire

A Dhahran fifth-grader is being lauded for his quick thinking and appropriate response to a house fire in the community by calling 911 with his dad.

see page 7



OPEC basket five-week price trend 2019



Saudi Aramco by the numbers

more than **6,000**

e-Learning courses are available in Saudi Aramco's Learning System.

Saudi Aramco shines on international stage in Abu Dhabi

company earns three key awards at ADIPEC

Abu Dhabi — Saudi Aramco's significant presence at the recent Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC) earlier this month was punctuated with three key awards at the gathering of oil and gas industry leaders from around the world.

"In one of the biggest oil and gas shows globally, our participation was the strongest," said Nasir K. Al-Naimi, vice president of Petroleum Engineering and Development. "Saudi Aramco continued to showcase its resilience, technology advancements and leadership in the Fourth Industrial Revolution as evident by the awards won."

Out of the six ADIPEC award categories, four Saudi Aramco Award submissions qualified as finalists. Two of the finalists were winners — the "Breakthrough Technological Project" and "Breakthrough Research of the Year" categories.

The awards were received by the company's EXPEC Advanced Research Center and South Ghawar Producing Departments, respectively.

Naji A. AlUmair, a member of the ADIPEC Executive Committee and head of Saudi Aramco's Southern Area Reservoir Management Department, echoed Al-Naimi's comments.

"The depth and breadth of Saudi Aramco's upstream preeminence and IR 4.0 was well distinguished in the event's strong conference and exhibition participation which attracted profound interest by visitors and various presidential delegations," said AlUmair.

Among more than 2,200 exhibitors, the Saudi Aramco exhibit attracted thousands of visitors and a variety of high-ranking officials in the industry and was recognized as the event's best.

best overall exhibit

The Saudi Aramco booth featured a variety of centerpiece elements to magnify the company's commitment to IR 4.0 technologies, reinforcing Saudi Aramco's position



From left, HE Sultan A. Al Jaber, U.A.E. Minister of State and CEO of the ADNOC Group; HE Abdel Fattah Al Sisi, president of the Arab Republic of Egypt; Naji A. AlUmair, head of Saudi Aramco's Southern Area Reservoir Management Department; Sultan S. Al Shamrani, head of Saudi Aramco's 'Udhailiyah Reservoir Management Division; and SPARK representative Khlood Tarabzouni pose for a photo following a visit to the Saudi Aramco booth at the Abu Dhabi International Petroleum Exhibition and Conference earlier this month.

as a globally recognized company in the industry.

"The unique presentations of several IR 4.0 technologies, coupled with phenomenal team delivery, were key elements in attracting delegates and being crowned as the best exhibit winner amongst over hundreds of exhibitors," said Sultan S. Al Shamrani, ADIPEC team coordinator and head of the 'Udhailiyah Reservoir Management Division.

Showcasing diverse upstream and downstream applications of artificial intelligence, machine learning, digital twin, robotics, and wearable technologies, the exhibit sought to highlight IR 4.0 capabilities and other key areas such as downstream expansion and various citizenship initiatives, as well as our role in supporting the development of King Salman Energy Park (SPARK).

'Breakthrough Technological Project of the Year'

South Ghawar Producing garnered the award for its innovative Flare Gas Recovery System (FGRS), which has the potential to be a game-changer in the oil and gas industry. SGPD's was selected out of more than 600 submissions from all over the world.

The award was just the latest in a series of honors bestowed upon SGPD for its unique design that is tailored to gas-oil separation plants (GOSPs).

The solution has resulted in significant cost-avoidance, and the recovery of nearly all flared gas, reflecting positively on Saudi Aramco's environmental stewardship.

A flare system is a critical safety system for any oil and gas producing facility. During normal operations, a continuous small stream or purge as is necessary to ensure the safe operation and availability of the flare system.

Conventional systems use a compressor to recover the flared gas, and the compressor needs auxiliaries such as drums and coolers. Such a complex system is not economical, with a payback period approaching 10 years.

Saudi Aramco's innovative design capitalizes on the specifics of the company's GOSP design, and matches these with the characteristics of an ejector to recover the flared gas. High pressure injection water, which is available from the discharge of the water injection pumps, is used to boost the

pressure of the gas recovered from the flare header by using a two-phase ejector. The mixture of the gas and water is sent to an existing water oil separator, where the gas is recovered in the gas compression system.

This approach, which has not previously been used in GOSPs worldwide, limits the need for new equipment — to just an ejector and a flare seal drum — with simple controls. The ejector-based system is promising in terms of low cost, simple operation, and convenient control. Furthermore, the elements in the design are typical for oil processing facilities worldwide, making the scope of the application global.

'Breakthrough Research of the Year'

Saudi Aramco received this award for its groundbreaking research work to manage uncertainties in reservoirs, especially open-hole multilaterals in carbonate rocks — a major challenge.

Intelligent completions provide the ability to monitor and control specific zones within wells. Without this control, a well could be lost when water or gas breaks in unpredictably.

Existing intelligent completions are limited to newly drilled wells or cased holes. The challenge is to economically convert these open-hole horizontal wells into smart wells for real-time monitoring and control to maximize recovery and enhance production.

The Thru-tubing Retrievable Intelligent Completion System (TRICSTM) is an innovative platform to rigorously compartmentalize and convert traditional multilaterals into smart wells. Laterals can be fully, partially, or selectively completed, and the flexible completion system can be re-adjusted in the future, as needed.

Each zone has a retrievable TRICSTM unit that is plug and play and has modular energy harvesting, power storage, sensing, signal processing, data storage, inflow control, and wireless communication functionalities. TRICSTM units can be retrieved and redeployed independently for easy replacement, repair, and upgrade.

Muhammad Arsalan, focus area champion of advance sensing, multiphase metering, and well intervention with the Production Technology Division at EXPEC Advanced Research Center (ARC), says the ongoing development of TRICSTM took countless man hours and close consultation with some of the brightest minds within and outside of Saudi Aramco.

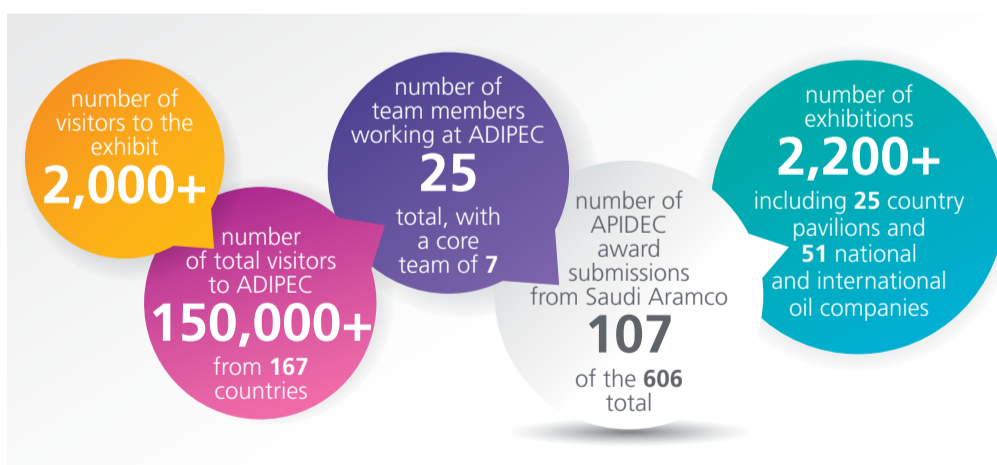
"From ideation, to proof of concept, engineering design, manufacturing, lab testing, upscaling, full scale prototyping to field testing, we witnessed multiple challenges," said Arsalan. "But we never gave up."

With effective collaboration with the Southern Area Production Engineering, and strong support from Southern Area Reservoir Management, and Southern Area Well Completion & Operations, the TRICSTM unit was successfully tested on an oil well in the 'Uthmaniyah field in April 2019.

Additional TRICSTM technologies are being developed that will be tested in wells across multiple Saudi Aramco fields.

Saad M. Al-Mutairi, chief technologist of the Production Technology Division with EXPEC ARC, says "TRICSTM is a game-changer that will revolutionize production engineering, reservoir management, and beyond."

EXPEC ARC Ashraf M. Al-Tahini says "TRICSTM is a vivid example of Saudi Aramco's dedication and leadership in upstream R&D."



Abdulaziz A. Al-Mulhim, superintendent of the South Ghawar Maintenance Services Division, accepts the "Breakthrough Technological Project of the Year" award at ADIPEC.



Muhammad Arsalan, who is with the Production Technology Division of EXPEC Advanced Research Center, accepts the "Breakthrough Research of the Year" award on behalf of the team that developed TRICSTM.



These rudimentary posters developed by the company in its early days helped communicate the importance of safety in a variety of new settings for Saudis and other Arab employees. The posters were highlighted in an article in the 1945 LIFE magazine, one of the most popular publications of its type.

standing on the shoulders of our pioneers window to past highlights long dedication to safety

by Eamonn Houston

Dhahran — The year was 1945 — the average cost of a new house in the United States was \$4,600, the average annual salary was \$2,400, and the World War II was in its final throes.

This was the heyday of magazine publishing and *LIFE* magazine was renowned for the excellence of its photographic essays and the thoroughness of its writing.

In 1945, Saudi Aramco's innovative approach to safety education — in the form of a series of educational safety posters — found its way onto the pages of the prestigious publication.

In 1949, Saudi Aramco was again featured in an expansive feature story in *LIFE*'s pages, examining the scale of the company's operations and approach to the safety education of its rapidly expanding workforce. The articles stand as a historical testament to the company's early safety efforts.

The magazine published weekly from 1936 to 1972, as an intermittent "special" until 1978, and as a monthly until 2000.

Now in 2019, Saudi Aramco's Loss Prevention Department (LPD) has tracked down original copies of the magazines for distribution as gifts and for display at prominent areas within the company. LPD is the natural inheritor of a responsible safety culture laid down in the early days of the company's existence.

educational journey

LPD manager Ghassan G. Abulfaraj says the department has been working on a project to document the company's safety educational journey over the last 80 years.

"I had heard that Saudi Aramco had been featured in an article in *LIFE* magazine back in the 1940s, and specifically that the article related to safety.

"While this is not new for the company, the thing that stood out for me was the safety theme — especially during a time when most companies were not nearly as safety-focused as they are today," said Abulfaraj.

"Once we confirmed the article did in fact exist, we got to work on researching whether we could source any original copies. Luckily for us, we were able to obtain 12 original copies from a magazine collector in the United States."

safety a priority from the beginning

The 1945 article displays some of the early posters at the heart of the safety culture of a company that would emerge as an energy industry behemoth and a major economic driver for the Kingdom.

For Saudi Aramco, safety was a priority right from the beginning. A series of post-

ers, featuring stick men in on-the-job scenarios, sought to educate the early workforce of the dangers and challenges that could be encountered in the field. The proper use of tools and equipment to minimize risks feature prominently.

"Saudi Aramco has a long and proud history in relation to the safety of our people," says Abulfaraj. "This can be tracked back to the earliest days of the company in the late 1930s — a time when the field of modern safety engineering was still in its infancy.

"In 1940, the Arabian American Oil Company hired its first professional safety engineer who was tasked with instilling safe work practices in a largely unskilled, but rapidly developing, workforce. It was during this time that the company also recorded a significant drop in its accident frequency rates.

"Fast forward 80 years and not much has changed," says Abulfaraj. "Our commitment to a safe workplace still underpins every facet of our business. Our safety record is among the top in the world for our industry, and by embracing new safety technologies through the Fourth Industrial Revolution, we are constantly striving to improve and make our business safer."

Abulfaraj sees the modern Saudi Aramco as a global example of industrial safety best practices.

"It is important to look back at articles

like this and realize that even back in the company's earliest days, we were leading the way in areas related to safety best practices and education," he adds.

"It was this sort of forward-thinking approach that laid the foundation for the world-class safety culture that is evident in Saudi Aramco today. Whether it is educating employees on the correct use of personal protective equipment, or hosting awareness events for members of our communities, we are at the forefront of safety education in everything that we do."

journey continues

This window into the past, Abulfaraj believes, provides a fascinating insight into the company's safety culture journey, and that journey continues today.

"Striving for continuous improvement has always been fundamental to the manner in which our company operates, and I feel that as we continue to build upon our already remarkable safety culture that the results will follow.

"We will continue to focus on key areas including safety leadership, process enhancements, safety education and innovation and technology. These will be key drivers in ensuring that Loss Prevention Department achieves its vision of 'Enabling Excellence in Safety.'"



“Saudi Aramco has a long and proud history in relation to the safety of our people. This can be tracked back to the earliest days of the company — a time when the field of modern safety engineering was still in its infancy.

— Ghassan G. Abulfaraj



BHGE, Sadara break ground on new chemical manufacturing plant taking 'Made in Saudi Arabia' to another level in Jubail

Jubail — Saudi Aramco's program to leverage its purchasing power to strengthen the Kingdom's economy continues to gain ground, as our strategic partners make localization a key part of their own business practices.

This point was underlined by Technical Services senior vice president Ahmad A. Al-Sa'adi at a Nov. 12 groundbreaking ceremony for a new chemical manufacturing plant built by Baker Hughes General Electric (BHGE) in the PlasChem Value Park adjacent to Sadara Chemical Company's facilities in Jubail.

developing an economic ecosystem built on iktva

In his keynote remarks at the groundbreaking, Al-Sa'adi said the groundbreaking for BHGE's Specialty Chemicals Manufacturing facility "is a day that we have been looking forward to for many months," and he welcomed BHGE's commitment to the company's In Kingdom Total Value Add program (iktva), which promotes localization of goods and services.

"This facility will indeed strengthen our partnership and is aligned with our localization program, iktva, but more importantly it is a validation of Saudi Vision 2030," Al-Sa'adi said. "Bringing specialty chemical manufacturing capability is one component, but being able to export products with a 'Made in Saudi Arabia'



Ahmad A. Al-Sa'adi poses for a photo with other business leaders at a Nov. 12 groundbreaking ceremony for a new chemical manufacturing plant built by Baker Hughes General Electric (BHGE) in the PlasChem Value Park adjacent to Sadara Chemical Company's facilities in Jubail. "This facility will indeed strengthen our partnership and is aligned with our localization program, iktva, but more importantly it is a validation of Saudi Vision 2030," Al-Sa'adi said.

takes it to another level entirely."

"We have been expanding our efforts to develop an 'ecosystem,' which is an essential enabler to realize the full potential of the iktva program," Al-Sa'adi added. "BHGE is helping to bring the win-win nature of Vision 2030 and iktva to life. And I am confident that this facility will inspire many more to follow your lead."

The Sadara Chemical Company will supply the new BHGE facility with feedstock

chemicals and will support the company's full portfolio of chemical services and technology solutions for the hydrocarbon production, transmission, processing, and petrochemical industries. BHGE employees will also collaborate with researchers and subject matter experts at the Baker Hughes Dhahran Technology Center to address region-specific chemicals challenges and deliver value-added solutions to customers.

a milestone achieved, meeting the needs of customers

Mohammad A. Al Shammary, Saudi Aramco vice president of Procurement and Supply Chain Management, added: "This success demonstrates BHGE's commitment to fulfilling their articulated five-year iktva action plan that was signed at the 2018 iktva forum. Such efforts are critical in building the local supply chain and driving the iktva objectives. This is a milestone achieved and we look forward to reaching further milestones with many of our suppliers"

"We are pleased to begin building our Saudi Arabia chemicals manufacturing facility to meet the growing needs of customers in this region and beyond," said Jerome Jammal, Baker Hughes vice president of Oilfield and Industrial Chemicals.

Jammal noted that BHGE's position as a leading innovator in chemicals technologies has contributed toward taking energy forward. Localizing these capabilities in Saudi Arabia "will drive the continued development of our business and workforce in full alignment with iktva program," Jammal said.

Among other attendees of the groundbreaking were Lorenzo Simonelli, chairman and CEO of BHGE, and Zaher Ibrahim, BHGE's vice president of Saudi Arabia, Northern Gulf, and Eastern Mediterranean.

first Corporate Maintenance Hackathon taps young engineers' talents

Abqaiq — Saudi Aramco's Abqaiq Plants Maintenance Department (APMD), in partnership with Corporate Maintenance Services (CMS), recently organized the first Corporate Maintenance Hackathon.

More than 75 participants from 31 departments formed 15 teams to work on six corporate technical challenges facing Saudi Aramco departments in their daily operations.

Frequently organized by academic institutions and other organizations, a "hack-

athon" is an industry best practice in which professionals come together to "hack," or find innovative solutions to challenges.

"As a world-class energy company, we value such events. Driving for the best results, we are agile in addressing new challenges, while also encouraging innovation, creativity, diversity of thought, fostering teamwork, and open communication," said APMD manager Sami S. Al-Huwais.

The event targeted young APMD engineers and technicians to work in teams and brainstorm ideas to resolve real challenges related to maintenance and reliability such as equipment performance, reliability, turn-around and inspection (T&I), instrumentations, maintenance efficiency, and the adoption of IR 4.0 technologies.

With a theme of "Maintenance Revolution," the event was designed to provide solutions for those challenges by promoting excellence and innovation.

The event was driven by strategic objectives "Lead in Technology Development and Innovation," and talent development under "Be an Employer of Choice."

tackling challenges head-on

Six subject matter experts delivered presentations about technical challenges facing their departments and how participants could help find solutions.

Challenges with diverse topics were discussed such as weather restrictions during T&I, gearbox reliability, valve leakage detection system, and predicting instrumentation failure. The participants had the opportunity to ask the subject matter experts to provide clarifications, if needed, with supporting documents available as well.

After choosing their challenges, the teams had only two days to develop solutions. They started with defining the problem and then searched for solutions, which was followed by validating the solution.



One of the 15 teams tackling a variety of business challenges discuss potential solutions during the first ever Corporate Maintenance Hackathon held in Abqaiq recently. The teams had two days to develop solutions, concluding their efforts with a seven-minute presentation to judges.

Finally, presentations were prepared. On the final day of the hackathon, each team delivered a seven-minute presentation on a proposed solution to the judges.

engaging young employees

The committee engages young researchers in initiatives such as knowledge sharing, developing technical and soft skills, and enhancing the workplace to become more relevant to the younger generation.

Two workshops, "The Process of Thinking" and "Critical Thinking and Problem Solving" were also conducted. The workshops addressed different aspects related to human psychology.

"Change happens from inside out, not the other way around, so reflect upon yourself and make an internal change before attempting to influence and change others," said facilitator Faeed Z. Kamfar. "Lead yourself before leading others."

The inaugural hackathon received wide appreciation from participating departments and guests. The event showcased the strength of multidisciplinary teams and promoted knowledge sharing, technical skills development, and networking between the young employees.

The ideas generated over the three days were creative and truly innovative as participants displayed high quality work that was prepared in a short period of time.

On the third day, participants on the 15 teams presented their solutions to the panel of subject matter experts and management. The scoring criteria was based on creativity, presentation skills, and the validity and practicality of the idea.

The competing teams showcased their creative solutions through tackling the challenges with various cutting-edge techniques. The three teams with the highest scores were recognized by the APMD manager and CMS director.

"I came here with an expectation and I will leave with a commitment," said CMS director Eyad A. Basrawi. "The expectation is to see professionals identifying maintenance challenges and brainstorming to come up with innovative or creative solutions, and that expectation was significantly met with great deal of self-satisfaction.

"The commitment that I bring is that, due to the great success and the level of young professional interaction, the Corporate Maintenance Hackathon will be part of the CMS portfolio as annual events."



Driving for the best results, we are agile in addressing new challenges, while also encouraging innovation, creativity, diversity of thought, fostering teamwork, and open communication.

— Sami S. Al-Huwais

Saudi Aramco brings **wealth of information, expertise** to SAP Intelligent Asset Management Council

As a world leader in asset management, Saudi Aramco's move to join the SAP IAM Council will boost the company's access to innovative solutions and capabilities,

Berlin, Germany — Looking to better manage its assets through cutting-edge tools and processes, Saudi Aramco — through its Corporate Maintenance Services (CMS) organization — recently joined SAP's Intelligent Asset Management (IAM) Council.

The council is composed of numerous asset-intensive industries, including international oil and petrochemical companies from around the world.

By joining, the company has set its sights on adopting innovative capabilities within Asset Management Solutions, with real-time insights to optimize the processes and enhance overall profitability through increased performance of assets.

"In the era of digital transformation, where asset management uses machine learning and real-time data from Internet of Things-enabled smart assets to bring intelligence to the entire supply chain, we should aspire to improve our business processes continuously with improved collaboration among manufacturers, service providers, and the operator of assets," said Abdulhakim A. Al-Gouhi, Saudi Aramco's vice president of Industrial Services.

Al-Gouhi added that as a leader in the oil and gas industry, Saudi Aramco needs to be involved in such consortia.



Abdulhakim A. Al-Gouhi, Saudi Aramco vice president of Industrial Services, and Stefan Hoehbauer, global president (Digital Core, SAP) sign a Memorandum of Understanding between Saudi Aramco and SAP confirming our company joining the SAP IAM Council. The MoU marks a new beginning of the collaborative business model for innovative solutions by SAP to asset intensive industries worldwide, including Saudi Aramco.

a collaborative business model designed to deliver

The IAM Council's innovative business model will allow Saudi Aramco to have a mechanism of sharing the maintenance his-

tory of assets with related council members and learn from others in the consortium, as well as having access to global studies that include key data points, challenges, priorities, and development approaches. The SAP products team will help share initial design

and mockups for IAM solutions.

"The innovative business model will be a perfect juncture to collaborate with peers, which will pave the way for Corporate Maintenance Services to accomplish its mission of providing governance and oversight to Saudi Aramco's maintenance and asset management programs," said Eyad A. Al-Basrawi, CMS director.

Because of its significant asset population in the industry, Saudi Aramco will have an elite presence on the IAM Council. The Company will also have an early adopter advantage through access to productive solutions based on the fast-release cycle for all SAP-based asset management programs.

Always striving to embrace new developments in the field of innovation and technology, CMS is set to lead this initiative as a part of long-term goal of gaining advanced knowledge of IAM solutions and development, participate in active testing of new solutions, and piloting new select applications from SAP to acquire deeper understanding of the solution capabilities.

"Signing the MoU opens the door for Saudi Aramco to positively influence the development of Asset Management Solutions," said Maram Al Hammad, supervisor of the Maintenance Systems Unit in CMS.

T&D urges Aramcons to become 'a change-maker'

Saudi Aramco's Training and Development organization continues to grow the opportunities created by the launch of the Association for Talent Development Middle East-North Africa (ATD-MENA) Learning and Development (L&D) Network.

Since its launch, the ATD-MENA L&D Network has added more than 700 members in 22 countries in the MENA region, providing opportunities to share knowledge, technologies, and best practices with a network of learning professionals from more than 35,000 members in 120 countries around the world. The organization is encouraging members to join ATD International to further enhance their networking opportunities.

"By joining both your local network and ATD, you are becoming a change-maker and knowledge leader in the talent development profession in the Middle East and North Africa," said ATD-MENA L&D Network board chairman Suad Qatari. "Joint membership in ATD and the regional network offers a unique opportunity to connect with local, national, and international professionals."

how you will benefit

An ATD International membership provides members with exceptional learning resources and certification opportunities. ATD International already has 200 members from the ATD-MENA L&D Network, and expects even more people to join as

the benefits of membership become more widely known.

The network's partnership with ATD is already yielding benefits to members. The two organizations will host the Saudi Conference and Exhibition in Riyadh on Dec. 3 and 4, which will provide networking opportunities and presentations of L&D best practices.

The regional network has also introduced the first offering of the ATD Master Series and Certificate programs in Saudi Aramco, which were delivered this month at the Industrial Security Training Center in Dhahran. In addition, the first ATD-MENA L&D Network Dinner is scheduled for Nov.

27, with a presentation on talent acquisition and retention to be delivered by Sami A. Alnuaim, president of the Society for Petroleum Engineers.

inaugurated a success

The regional network was inaugurated on May 1. Congratulations from ATD networks around the world filled a screen at the Dhahran Plaza after T&D general manager Faisal A. Al-Hajji activated a display signaling the inauguration of the network. The 300 attendees at the inauguration included members of Saudi Aramco's senior management, as well as representatives from other major local companies.

"Saudi Aramco has a great legacy in training and development that is as long as ATD's own history of training and development," said Al-Hajji, who

is serving as the network's first president. "We are all proud of this new organization that is devoted to promoting learning and development — not only in the Middle East, but also North Africa.

"As many of you know, we at Saudi Aramco are truly privileged to have been working on training and development for more than 80 years. We have been developing individuals — not necessarily for Saudi Aramco purposes alone, but for the community at large. By joining this network, our members will benefit from having content and training that is tailored to the practitioners of our training organization."



By joining both your local network and ATD, you are becoming a change-maker and knowledge leader in the talent development profession in the Middle East and North Africa.

— Suad Qatari

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Abdullah A. Ghabbani, Learning Solutions and Services Department manager, said the regional network will fill a gap for professionals in the Middle East, who haven't had a single platform for collaboration on common issues in developing local talent.

"The ATD has been around for more than 75 years, and they have a lot of experience that we can draw upon," said Ghabbani. "The use of the ATD networks and resources will help to improve members' knowledge and talents."

JHAH offering better value, continuous improvement with help from OCD

by Ram Chandramouli and Johannes W. Vaartjes

Dhahran — Continuing the success of its Lean Six Sigma (LSS) program (which provides Saudi Aramco professionals with the tools and knowledge to recognize operational waste and to take action to reduce or eliminate it), the Process Optimization and Change Management Division (PO&CMD) of the Organization Consulting Department (OCD) has partnered with Johns Hopkins Aramco Healthcare (JHAH) to help achieve some of its key business objectives.

This engagement is aligned with one of the key strategic goals of the HR admin area, which aspires to support Saudi Aramco's joint ventures through knowledge transfer and to embed the skills required to optimize processes and build a continuous improvement culture within JHAH.

training JHAH employees in Lean Six Sigma

Dr. Daniele Rigamonti, JHAH CEO, requested PO&CMD to lead efforts to train JHAH employees in the globally recognized LSS Green Belt certification program and develop a sustainable continuous improvement culture.

JHAH is currently focused on enhancing operational efficiencies, increasing capacity, improving customer satisfaction, and reducing costs by applying the LSS methodology. JHAH identified 11 key focus areas across the hospital to achieve this objective. PO&CMD conducted a thorough



Twenty-three employees from Johns Hopkins Aramco Healthcare pose with members of management, including Dr. Daniele Rigamonti and Nabil K. Al-Dabal, after a ceremony highlighting their certification in the Lean Six Sigma Green Belt program.

assessment of the processes in the key focus areas and suitable LSS Green Belt projects were identified. JHAH management then handpicked candidates to undergo the training and execute the projects.

Nine months after the start of the initiative, 26 projects have been completed by the 23 candidates in collaboration with OCD consultants. The process improvements delivered have shown a significant impact on JHAH's key objectives to improve access to care, process agility, and resource utilization.

JHAH: Offering better value through collaboration

At a recognition ceremony to celebrate the success of the JHAH Continuous Im-

provement Program and partnership with OCD, JHAH candidates were presented with their LSS Green Belt certification by Dr. Rigamonti and Nabil K. Al-Dabal, Saudi Aramco HR executive director. Also, Dr. Fahad Mulhim, of the JHAH Utilization Review Committee, acknowledged the role and contribution of each member of the program and expressed appreciation for the direct support of executive management.

"To frame the JHAH and OCD Continuous Improvement Program within the context of how we evaluate success at JHAH, we need to consider value," said Rigamonti. "Value is defined as the ratio between the outcomes of what we are doing and the cost of doing it. This program has



This program has enabled us to deliver the same, or better, outcomes while decreasing the cost. JHAH is offering better value.

— Dr. Daniele Rigamonti

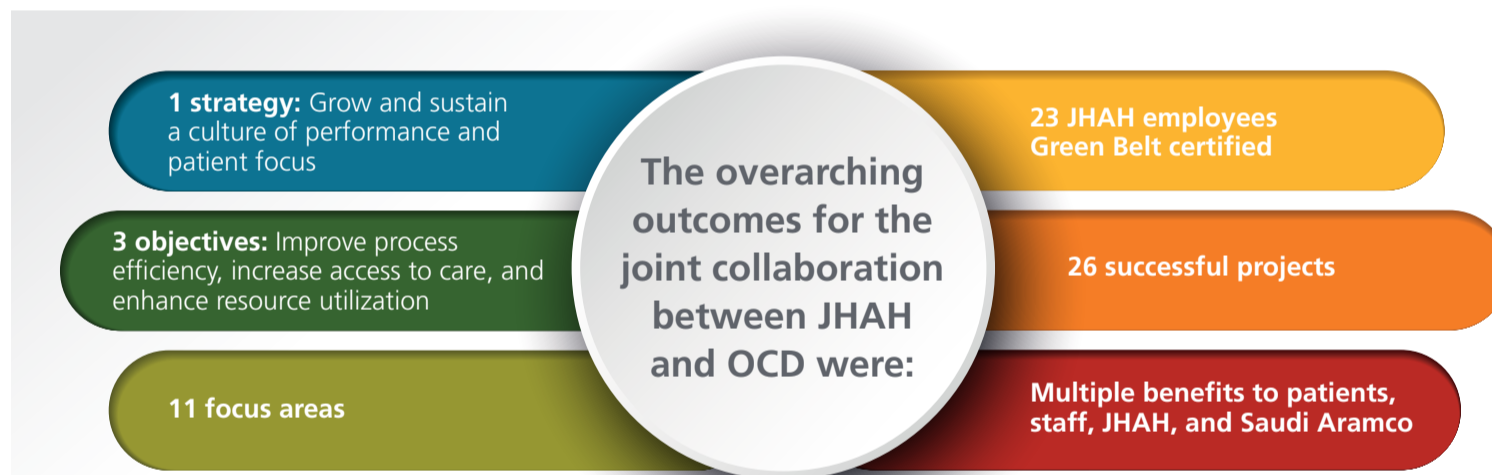
enabled us to deliver the same, or better, outcomes while decreasing the cost. JHAH is offering better value."

"OCD is keen to support JHAH in enhancing its operational efficiencies, increasing capacity, while improving customer satisfaction," said OCD manager Nayef S. Al-Otaibi. "Through the joint JHAH and OCD team, we managed to deliver immediate benefits while simultaneously serving as JHAH's foundation for its long-term continuous improvement program and goals."

examples of achievements

Among the achievements included increasing the Operating Room (OR) block utilization rate from 63% to 74% with a realized cost benefit of \$676,432 through a variety of recommendations on processes, procedures, and reporting regarding block bookings.

The collaboration also tackled a project to reduce the length of stay in the Inpatient Unit from 7.2 days to six days. Through analysis of historical data and root causes, the team developed a number of recommendations that will result in improving patient satisfaction levels and an increase in bed availability.



Inspection Department driving quality with our construction contractors

Dhahran — Under the theme "Partnering for Quality Excellence," Saudi Aramco's Inspection Department (ID) recently hosted the second Construction Contractors Annual Partnership Meeting.

This event is designed to derive quality improvement and enforcement on collaboration between Saudi Aramco and the local construction contractors.

The ultimate objective was to provide and enforce cost-effective quality services, manage risks, promote quality culture to maximize local content, and overcome quality challenges during the execution of Saudi Aramco projects.

More than 120 contractors and company participants gathered to discuss challenges identified by construction contractors in an online survey conducted two months prior to this event.

The survey provided Saudi Aramco an analysis of the major challenges alongside the possible root causes, and the mitigation plans.

This paved the road forward for all participants for an open exchange of knowledge and experience and further unfolded more improvement opportunities.

Moreover, ID shared additional quality challenges that were recently encountered



Left, Thamer Alzahrani gives a presentation about 2019 contractors' survey analysis during the Inspection Department Construction Contractors Annual Partnership Meeting. (Photos: Ding/MPD)

Bassam I. Al-Ugaily listens and responds to the contractors' quality concerns and challenges during a panel discussion, highlighting the effectiveness of compliance of contractors' quality management systems and methods to mitigate quality challenges.



during projects' construction, including forgery of materials and documents.

This enabled the participants to explore several mitigation measures, including effective and immediate reporting channels. Saudi Aramco elaborated on the official general auditor hotline to address a contractors' awareness gap identified in the online survey.

The event concluded with a panel discus-

sion, where panelists interacted with attendees and answered the raised questions. At the end, ID management representatives emphasized the importance of the annual event and the significance of an open discussion to address quality questions, concerns, feedback, and challenges, which will be captured as an opportunity for ID to improve their current practices.

This meeting reflects the department's

commitment in partnering for quality excellence to achieve its strategic objectives.

On behalf of the ID manager, Bader A. Busbait, Downstream Project Inspection Division head, and Bassam I. Al-Ugaily, Support Projects inspector, thanked the partners for attending the event.

Al-Ugaily also acknowledged those who participated in sending their feedback and suggestions.

10-year-old Dhahran boy heralded a hero after reporting fire

by Cristiana Jurgensen

Dhahran — Rickelmer “Ricky” Castellanos, a fifth-grader at the Dhahran School, and his friends Anees El Gumati and Arfan Setyawan, were outside playing.

They were walking to the park near their house in the Dhahran Hills when they smelled smoke coming from a nearby home.

“We knocked on the door to see if anyone would answer. Nobody answered,” explained Ricky.

Immediately, the boys sprang into action to help.

“I ran all the way back to my house,” said Ricky.

Elmer Castellanos said his son Ricky stormed into the house yelling, “Dad, Dad, a house is catching fire, call 911 quickly.”

Ricky and his father called 911 and both firefighters and security responded within minutes. Firefighters were able to get in and safely put out the fire before any more damage was done. The fire department reported that the house was not occupied during the time of the fire and there were no injuries.

Castellanos, his wife Miriam, and their children Alicia, 21, Diego, 16, and Ricky are originally from Katy, Texas, in the U.S. and



Ricky Castellanos used his quick wits to help prevent a house from burning down in the Dhahran community. (Photo: Husain Shareef)

have lived in Dhahran since 2015.

“Neither Ricky nor I thought we deserved any kind of recognition for what we did that day, however, it is important to raise awareness in our community. No matter the situation we are facing, help is only a call away,” is the lesson Castellanos, who works with the Financial Risk Management Department, would like everyone to learn from this event.

Danny Gordon, Dhahran School principal, explained that “Saudi Aramco Expatriate Schools has a different safety focus each trimester and empowers students to put safety first, whether it’s fire safety, water safety, road and bicycle safety, or cyber safety.”

Earlier this month, Faisal Thewieni from the Dhahran Community Security Division came to the Dhahran School and present-

ed Ricky and his family with a certificate of recognition.

Ricky’s teachers Lynn Rucky and Brian Moe and his classmates were there to watch him receive the award.

Thewieni also took the opportunity to encourage all the students to report such incidents immediately to help make the Dhahran community a safer place for everyone.

green matters

what you don’t know about climate change and food safety



by Abdulrahman K. Al-Jafaari and Hassan M. Alzain



Climate change can impact the transmission of food-borne diseases due to unpredictable changes of seasonality, temperature, and severe weather events.

The weather around us may change within the span of a few hours depending on the local environmental factors. On the other hand, the climate takes hundreds of years to change.

It is believed that human activities are negatively impacting the rate of these changes due to increased levels of greenhouse gases such as methane and carbon dioxide. This is known as climate change, which refers to any changes in the long-term weather patterns. These changes result in increasing the global temperature and humidity levels, leading to the following adverse effects:

- Limited rainfall patterns
- Increased occurrences of extreme weather events
- Extended dry periods
- Rising sea levels
- Stronger storm systems.

How does climate change affect food safety?

Recent research indicates that climate change can have significant impacts across the food supply chain, including primary food production, food processing, and food distribution.

Following are the major implications of

climate change on food safety:

- Climate change can impact the transmission of food-borne diseases due to unpredictable changes of seasonality, temperature, and severe weather events. As a result, bacterial and viral contamination of foods will become more frequent due to the alteration of the transmission patterns and survivability of harmful microorganisms. The alteration of transmission patterns means harmful microorganisms can find new pathways of contaminating food and water.
- Increased risk of food contamination. The increased temperatures will encourage the propagation of microbiological contamination of food. Moreover, the greater use of pesticides to combat the increased levels of harmful microorganisms may result in greater pesticide residues in food.

As described above, climate change increases the risk of food-borne diseases. Below are several immediate measures that you can take to protect yourself and your family against food-borne diseases.

What actions can you take now to protect yourself against food-borne diseases?

As described above, climate change increases the risk of food-borne diseases. Below are several immediate measures that you can take to protect yourself and your family against food-borne diseases.

safe transportation of food items

Safe purchasing and transportation of food is the first step in protecting yourself against food-borne diseases. Practice the following to ensure that the food you purchase is safe to eat:

- Purchase food items and raw ingredients from trustworthy and reliable food providers
- Prior to purchasing, check the condition of food items
- Ensure the proper transportation of chilled and frozen food items from the store to your home. Chilled food items needs to be kept at 5 degrees C or below while frozen food items needs to be kept at -18 C or below.

proper storage of food items

Chilling foods properly helps to stop

harmful bacteria from growing. Perishable foods need to be kept chilled to keep them safe. Practice the following to ensure proper storage conditions:

- Promptly put food that needs to be chilled in the refrigerator.
- Cool leftover cooked food as quickly as possible and promptly store it in the refrigerator.
- During food preparation minimize the time that chilled food are out of the refrigerator.
- Regularly ensure that your refrigerator is cold enough (at least 5 C).

proper processing of food items

Proper processing prevents the cross-contamination of food items.

Cross-contamination is when bacteria is spread between food, surfaces, or equipment. Practice the following to protect yourself against cross-contamination:

- Clean work surfaces, chopping boards, and equipment thoroughly before preparing food and after preparing raw food.
- Use different chopping boards and knives for raw and ready-to-eat food.
- Keep raw foods separate from ready-to-eat foods at all times.
- Wash fruits and vegetables to remove contaminants.
- Ensure thorough cooking to kill bacteria with a minimal cooking temperature of 75 C.

proper hygienic practices

Effective hygienic practices prevent harmful bacteria from spreading onto food. Practice the following to ensure high levels of cleanliness:

- Wash hands thoroughly before preparing food
- Clean food areas and equipment between different tasks
- Clear and clean as you go. For instance, clear away used equipment or spilled food as you work.

Cleaning food areas and equipment between different tasks is a critical element of proper hygienic practices with food.

“green matters” is a regular column offered by the Environmental Protection Department highlighting challenges and potential solutions to some of the most pressing environmental issues of the day.

helping our employees achieve continuous learning

preparing our future leaders with a more robust e-Learning experience

by **Maytham Al-Musawi**

(Photos: Mohammad AlShaikh/MPD)

Dhahran — One of the most significant gifts of modern technology is that it has paved new ways to the sky of knowledge as now you do not need anything more than a computer or a mobile phone to travel in the quest for knowledge.

Places such as China, India, Europe, and the United States are now closer than ever to students — even if they do not move a single step.

Although teaching institutions are still the pillar of learning, technology has innovated a new way of supporting traditional learning methods that is open around the clock and only a click away. It's called e-Learning.

Saudi Aramco did not need much time to realize the effectiveness and many positive aspects of e-Learning. The company employed its efforts at an early stage to achieve the optimal use of e-Learning as a tool in action, alongside other tools in the Training and Development organization to enhance the knowledge of the company's employees.

adding value and bridging the knowledge gap

In 2002, the process of e-Learning at Saudi Aramco gained momentum, pressed by the need for the effective and urgent training of employees on using the SAP system. To fulfill this pressing need, e-Learning was an optimal tool for spreading the necessary knowledge of the system and cut the time, effort, and spending required.

Since then, this new technology has brought a number of benefits to all business areas, as e-Learning has become a main indispensable element to meet the training and development needs employees in all areas, including technology, health, safety, environment, engineering, operations, maintenance, management, communication, and life skills.

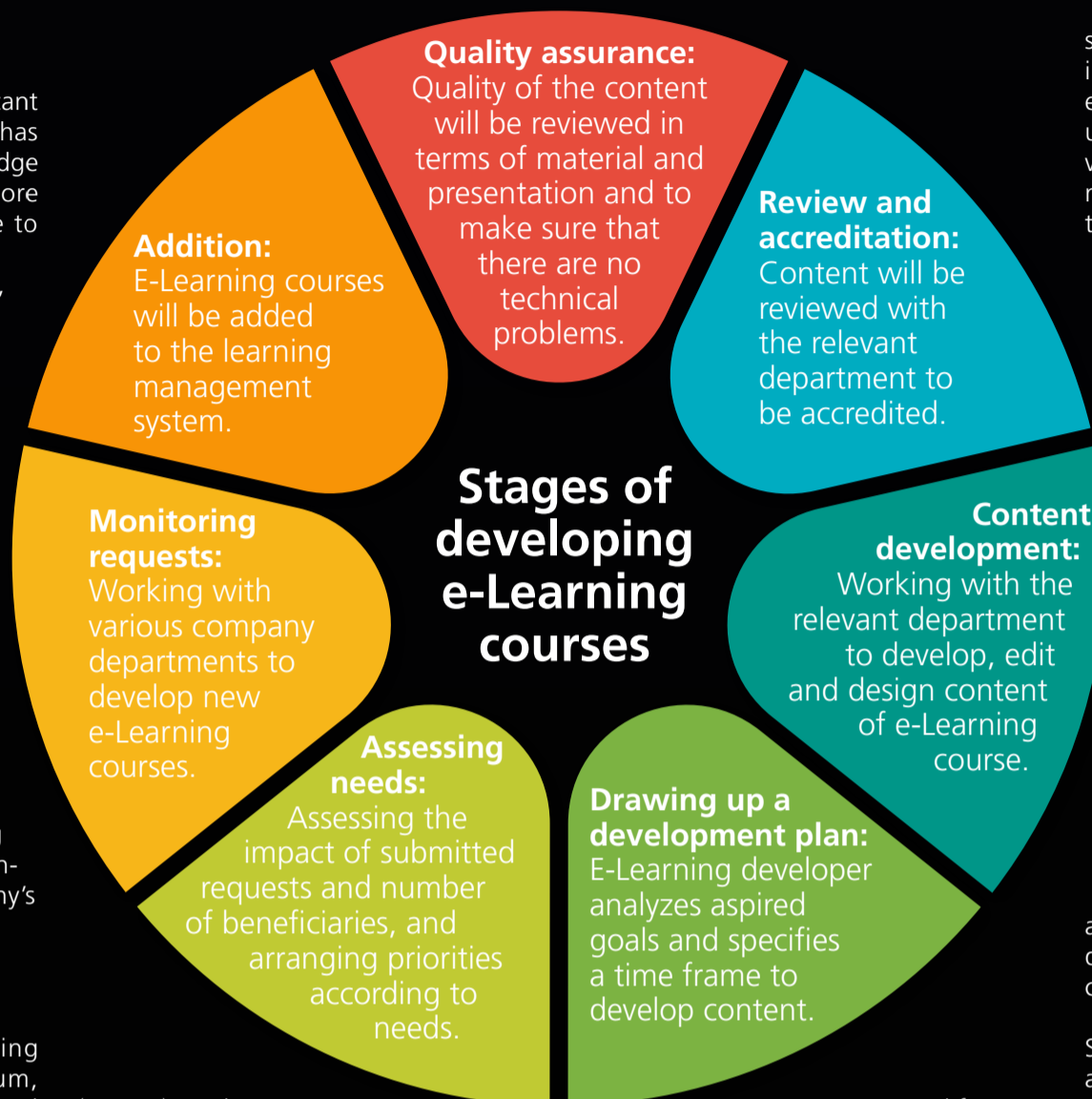
"Every learning method has qualities that serve various objectives," said Wajih B. Malibari, administrator of the Technology and Learning Solutions Division

(T&LSD) at the Learning Solutions and Services Department (LS&SD). "E-Learning can be used at any time and anywhere. It can also be made available to all employees without restrictions."

LS&SD within Training and Development oversees the e-Learning system at Saudi Aramco.

"We seek to provide tools and software that serve e-Learning for the company," said Malibari. "In addition, we seek to provide knowledge content that relies on the e-Learning methodology.

"Our work in this framework is part of the department's efforts to come up with innovative learning solutions that will contribute to offering world-class training and development to the Saudi Aram-



system was comprehensively developed in 2017, which allowed for contacting e-Learning suppliers and integrating education output in the system. The development led to almost doubling the number of e-Learning courses available through the system to more than 6,000.

"As for the future, there is a plan to develop a new system for learning management that relies on cloud computing," said Munir. "This is part of the digital transformation initiative of the Development and Learning organization. "This will give us more flexibility in communicating e-Learning suppliers and meeting education needs of various departments."

Additionally, this transformation will provide extra benefits for system users that will enable them to interact with the available electronic knowledge content in a greater manner.

The department's efforts are not restricted to expanding and diversifying the e-Learning content and activating the tools of interacting with the beneficiaries. The goal is to make access to e-Learning more useful and quicker, and expand its benefits to include a wider segment.

In this regard, LS&SD launched the Skillport system in 2018, which includes a mobile phone application that gives access to electronic content of more than 600 learning courses for employees and their family members, in addition to company retirees and several contractors.

"We have developed a method that allows accessing the Skillport system from outside the company network, which allowed a bigger segment to make use of it," said Fahd Saeed, a business systems analyst with the E-Learning Solutions Unit. "We are currently making efforts to increase the available content in view of the growing demand for using the system."

developing electronic knowledge content

Work with LS&SD includes developing e-Learning courses that meet the unique learning needs of every depart-

co workforce."

Work in the department includes coordination with e-Learning suppliers to meet the needs of various departments.

"We seek to increase a return on investment in the current e-Learning content," said Imran Munir, supervisor of the E-Learning Solutions Unit. "We also seek to create value through new content by analyzing and specifying the skills and knowledge required for work at various departments, taking into consideration the cost and desired result."

built for speed and access

Moreover, the department seeks — through T&LSD — to develop the learning management system and make it more effective. In this framework, the

10 milestones in e-Learning journey in the company

2004
An e-Learning website that included more than 100 learning courses on the use of SAP was set up.

2002
e-Learning was employed for training on using SAP through interactive simulation.

2007
Agreements with major e-Learning companies to present ready-made e-Learning courses on issues related to information technology, safety, and management, leadership, and communication skills were concluded.

2005
Various e-Learning courses with content related to the company operations were added.

2010
The learning management system in 2,000 various e-Learning courses with from various Company departments Learning Solutions and Services Department, which is responsible for managing the

2008
An integrated and learning management system that serves the company's learning needs and supports e-Learning was launched.

2011
Company's e-Learning system output



ment. E-Learning courses are divided into two categories — courses that support technological systems, such as SAP and the safety management system, and courses on concepts and measures related to company operations, such as ethics, information security, and business continuity.

In both categories, specialized software is used to develop and design the content according to the highest quality standards.

"We have the necessary resources to develop high-quality e-Learning knowledge content that we use in responding to education requirements within the company," said Mohammad Ghiyath A. Al-Naima, acting supervisor of the e-Learning Development and Support Unit.

To ascertain the quality of the provided service to develop e-Learning, direct beneficiaries are contacted to survey their opinions and build on the foundations of excellence.

"We survey the opinions of e-Learning users on whether the educational content is easy to understand, appropriate and relevant to their work," said Al-Naima. "Based on that, we introduce the necessary changes and improvements."

closing the excellence loop

Similarly, the opinions of beneficiary departments are surveyed to measure their satisfaction with the provided service. This is done through periodic meetings in which a content developer specialized in a certain field meets with representatives of the relevant department and updates them on the progress made in developing e-Learning and exploring their opinions about the provided services and e-Learning courses of

Interaction with learners



Nitin Puri is adding a competitive test to an e-Learning course as an entertainment element that helps make learners interact with the educational content.

"We in the E-Learning Development and Support Unit are eager to make e-Learning content amusing and interactive, and stay away from traditional and monotonous presentation. We also seek additional work tools that help us create content and present it in an appropriate manner to the targeted group."

Creativity and innovation



Rana Elias relies on creativity in work to design attractive educational slides that convey the content in an effective and engaging manner.

"Our work includes daily interaction with officials in various departments, which requires the use of effective communication skills and participation. In addition, we employ our creativity to make the content attractive and engaging, taking into consideration the level of knowledge of users."

Employing integrated tools



Sumayah Al Shihab helps add audio content that is in harmony with the presented content to convey the required information clearly and smoothly.

"We deal with accurate technical content. Thus, we communicate with experts to collect required information and formulate it in a manner that is appropriate for learners. The training that we receive helps us employ other content development tools."

concern to them.

Jarrod Pepper from the Corporate Compliance Department said cooperation with the LS&SD resulted in developing a number of e-Learning courses that included a course on conflicts of interest.

"The electronic courses were easy and to the point," said Pepper. "They complement the process of spreading awareness about work ethics and life."

For his part, Mohammad Al Qahtani of the Downstream Joint Venture Support Division hailed e-Learning courses developed by LS&SD.

"I liked the way it was designed," said Al Qahtani. "The audio feature gave another influential dimension in conveying the required information."

e-Learning in the learning management system



e-Learning courses that are accessible through the system.

e-Learning courses developed by the e-Learning Development and Support Unit.

e-Learning courses developed since the beginning of 2019 up until now.

2018

The learning management system includes around 3,000 e-Learning courses. The Skillport system and application were launched to allow e-Learning through mobile phones for employees, family members, and contractors.

July 2019

Access was given to around 2,000 e-Learning courses through the Open Sesame Company.

March 2019

Access to learning content at the Edex website, which includes 1,000 e-Learning courses offered by top world universities and companies, was made available through the learning management system.



protecting our people

Loss Prevention: integrating safety into our business

by Osama A. Alghamdi

Loss Prevention Department's (LPD) vision of "Enabling Excellence in Safety" is a commitment to integrating safety into every aspect of the business for Saudi Aramco.

With a presence across the Kingdom, LPD's role is critical and begins with the belief that no job is to be performed unless conducted safely. This role is not limited to hydrocarbon facilities as it provides world-class safety support to all industrial facilities and support functions.

However, bringing a hydrocarbon facility online is a process in which LPD is heavily involved from design concept to commissioning, decommissioning, and demolition. Whether an aircraft hangar or an offshore rig, all new projects follow a relatively similar process and this provides an insight into the inclusiveness of the department's support services across the company.

design is the key

Any new project begins with a feasibility study where decisions are made on whether a venture is economically and environmentally viable to proceed. LPD is involved in the selection of a location and evaluates key aspects including fit-for-use capabilities, public safety assurance, and safety of adjacent facilities, and structures.

During the early project phase, LPD assists in detailed design reviews and assesses potential safety risks through process hazard analysis. Identifying risks at this early stage is critical to ensuring that safety and design are aligned as work progresses.

"Saudi Aramco's design review process

ensures that any hazards or unacceptable risks are identified, mitigated, or ideally, eliminated through safe design," says Salem S. Al-Ghamdi, chief fire prevention engineer and technical authority for safety requirements. "By ensuring the safety of our designs, incidents and injuries can be avoided throughout the facility lifecycle."

safe startup

When the project moves to the field, LPD continues to provide support to construction and pre-commissioning activities. LPD area Construction Safety Units, which work across the Kingdom, are responsible for the management of contractor safety — a critical focus across the company.

Once physical project components are certified as mechanically complete, LPD conducts Pre-Startup Safety Reviews with proponents to ensure the safe startup of a facility and to confirm that all parties are adequately prepared, including emergency responders.

normal operations takes hard work

Preparation for a new operation begins in the project phase with the assignment of a facility management team. LPD works closely with this team to establish and guide the implementation of the company's Safety Management System, which details the minimum safety expectations and requirements for any project.

Supporting day-to-day activities on the ground is vital and LPD engineers engage with proponents, front-line employees, and supervisors to conduct daily safety inspections and review work permit pro-



Abdullah H. Al-Barout and Dimos Tsakiris, both Loss Prevention engineers, assist in detailed design reviews and assesses potential safety risks through process hazard analysis.

cesses, as well as ensure asset integrity through safety inspections, and the testing of critical equipment.

on call 24/7

An extension of normal operations is being prepared for abnormal situations and LPD provides fit-for-purpose engineering, technical, and field support to proponents in developing plans to contain such situations.

"Emergency response is critical, and we assist proponents in developing and exercising regular emergency drills at facilities, based on identified credible scenarios," says LPD manager Ghassan G. Abulfaraj.

"LPD participates in those drills both in the field and in the location's emergency control center and any potential areas for improvement are then highlighted to facility management."

LPD has on-call representatives available Kingdomwide 24/7, as well as a central support team of subject matter experts to provide assistance in the event of a major emergency operation. Full-time support is given to turnaround and inspection activities through dedicated units located at every major location. These units are also involved in activities such as facility expansion, renovation, and demolition.

"The end of a facility's life is as important as the beginning," explains Abulfaraj. "LPD's role is to provide the necessary support to ensure that an area is deconstructed safely, and that it remains safe once it is no longer in use."

performance monitoring and recognition

Compliance ensures safety perfor-



Zaher M. Al-Tayeb head of LPD's Safety Compliance Division, ensures that safety standards are adhered to through regular compliance reviews and construction safety assessments.

mance, and LPD assesses this through regular Loss Prevention Compliance Reviews and Construction Safety Assessments for construction sites.

"These reviews and assessments help us to assist our proponents," says Zaher M. Al-Tayeb, division head of LPD's Safety Compliance Division. "These teams not only assess areas for improvement, but they also identify facility best practices and recognize best performers. Compliance is not about who is the best or catching proponents out, but rather about offering critical advice and recommendations to drive safety excellence."

extended support

In addition to providing support to proponent organizations, LPD extends its portfolio of services to include corporate functions such as the Health, Safety, Security and Environment (HSSE) and Risk and HSE Committees, as well as committees made up of multidisciplinary teams addressing risks presented by potential major industrial and non-industrial facilities.

The department has designated a team to support the company's joint venture partners, and also provides ongoing support to a number of external government agencies.

Providing appropriate expertise and an environment to enable safety excellence is at the heart of LPD. Driving the company forward through new and improved support systems is a long-established foundation of the department and a role that LPD continues to fulfill each and every day.

Turki R. Khaldi, a Loss Prevention engineer, engages in a discussion with a colleague on safety inspections to ensure asset integrity through safety inspections, and the testing of critical equipment.



Aramcon receives royal medal for donating a kidney

by Noor R. Algadheb

Dhahran — Ahmad A. Laslas, a fire equipment operator at the Dhahran Main Fire Station, was awarded this year the King Abdulaziz Medal of Third Class by order from King Salman ibn 'Abd Al-'Aziz Al Sa'ud. The award was given in honor of Laslas donating a kidney to his sister Fatima Laslas in 2017.

Fatima was diagnosed with epilepsy 14 years ago, which made her follow a course of medication that required her to take a large dosage of anti-epilepsy drugs. Over time, one of the prescribed medications damaged her kidney.

a search to stop the suffering

Starting in 2016, she started to visit the hospital three times a week to receive dialysis, and while that worked in

the short term, they were only able to numb her pain but not cure her illness.

Eventually, she began seeking a kidney donor. Seven of her grown children wanted to donate a kidney but medical tests rejected their donations as their blood types did not match.

Discouraged by her yearlong search, she eventually turned to her brother Ahmad — a move that proved to be lifesaving. Ahmad welcomed the idea of helping his sister and donating his kidney.

"The minute she asked if I was willing to donate a kidney and go through the surgery, I immediately accepted. I just wanted to end her suffering and this was the only thing I thought about. I could no longer bear to see her in pain," said Ahmad.

upholding the ethos of sacrifice in FPrD

The Fire Protection Department has showed much appreciation for their employee. They have praised him for his courage and recognized the award he received during a department monthly meeting.

"This is a great sacrifice from our employee Ahmad. This selfless act shows the true character of our employees at Saudi Aramco," said Loren Fuller, fire chief at the Dhahran Fire Control Unit.

The kidney transplant was performed in Jiddah on Oct. 8, 2017.

Fatima went back to live her life normally in Najran, in the southwest of Saudi Arabia, feeling grateful for her brother.



Ahmad A. Laslas, who works with the Saudi Aramco Fire Protection Department, has received the King Abdulaziz Medal of Third Class by order from King Salman ibn 'Abd Al-'Aziz ibn Al Sa'ud. The Aramcon donated one of his kidneys to his sister.

Aramcon goes green in decorating with water bottles

by Ifeyinwa Obi, Recycling Group

Dhahran — An outside-of-the-box idea from an Aramcon is putting the focus on better reuse of plastic bottles.

Yazeed N. Al-Harbi, who has been working with Industrial Security Operations for the past four years, has come up with an idea to use plastic bottles for decoration.

Al-Harbi's idea is to use plastic water bottles to make a chain link fence at the Industrial Security Academy at Saudi Aramco.

And while it may not solve the world's plastic woes, it will hopefully reduce and inspire others to recycle these bottles as décor for gardens instead of trashing them.

"The goal is to increase environmental awareness among Industrial Security Operation Academy customers, trainees, and visitors," said Al-Harbi, who was inspired by the Go Green International initiative to use water bottles like a piece of art instead of using expensive materials to showcase their organization logo.

a global problem

Though the detrimental impact of plastic on the environment is well-known, the con-



This plastic bottle decoration greets visitors to the Industrial Security Academy at Saudi Aramco. The design was the brainchild of Industrial Security Operations employee Yazeed N. Al-Harbi.

sumption of water in plastic containers — the most commonly used polymer — continues to rise at alarming levels.

Plastic bottles are indestructible because they aren't organic. Some plastics, when exposed to ultraviolet light from the sun, can break down, but that takes hundreds of years.

But more than 22,000 of these plastic bottles are discarded every second around the world, and the numbers grow by the

day.

Only a fraction are recycled, with the rest ending up in landfills and the oceans, causing significant environmental problems.

What can you do to help?

- Be more conscious of our plastic consumption habits
- Avoid the use of plastics when possible
- Reuse as décor
- Keep reusable alternatives handy in your



The goal is to increase environmental awareness among Industrial Security Operation Academy customers, trainees, and visitors,

— Yazeed N. Al-Harbi

home, car or bag, so that you are always prepared

- Limit use of plastic water bottles and other single use plastics.

Small efforts make a big difference, so do your part and help us go green!

with help from T&D, Southern Area Oil Operations' ACCET accreditation puts it at forefront of manpower development

Dhahran — Southern Area Oil Operations' Manpower Development Division (SAOO/MDD) has gained internationally recognized accreditation from the Accrediting Council for Continuing Education and Training (ACCET).

The five-year award term denotes excellence in training, and it positions SAOO/MDD at the forefront of manpower development.

SAOO/MDD provides a range of high-quality career planning, counseling and professional development services to help produce a highly skilled, competent and motivated workforce.

The certificates of accreditation were presented to Abdul Latif M. Al-Odail, superintendent of SAOO/MDD, by Training and Development (T&D) general manager Faisal A. Al-Hajji during the 2019 T&D Quality Forum at the Plaza Conference Center.

"Developing young Saudis through a well-designed and delivered training programs is our commitment to Saudi Aramco and the Kingdom," Al-Odail said in commenting on the achievement. "This accreditation award confirms that our programs are



Abdul Latif M. Al-Odail (center) receives the ACCET accreditation award from Faisal A. Al-Hajji (right) and Mohammed A. Al Shehri.

aligned to global best practices. Congratulations to all MDD staff and thank you T&D for being an excellent partner."

rigorous process

Accreditation, which is awarded when all aspects of training delivery have been demonstrated, is a benchmark of quality that validates that the organization plans, provides, and delivers high-standard training and maintains alignments with today's

ever-changing marketplace.

A world-renowned accrediting body based in Washington, D.C. with a strong reputation for rigorous and thorough evaluations, ACCET has been accrediting Saudi Aramco training programs since 1993.

SAOO/MDD's journey to achieving the extensive and difficult ACCET accreditation process began in March 2018 when the initial application was submitted. The decision made was based upon a review of the insti-

tution's application, the on-site visit team report, and the institution's responses to that report.

shared services

The accreditation application was facilitated by T&D. "T&D has the expertise in what it takes to be accredited," said T&D Support Division head Mohammed A. Al Shehri. "We are proud to share this knowledge throughout the company and support organizations in gaining this acknowledgment of quality in their training. Success for SAOO/MDD is a success for all Saudi Aramco."

In its conclusion, ACCET said it was impressed with a number of attributes, including the caliber of instructional personal and certification evaluators who "had a wealth of technical knowledge and on-the-job experience to share with their students," while record-keeping systems were described as both "sophisticated" and "powerful."

In granting this award ACCET stated, "Accreditation represents a partnership for quality that is unique and important and, toward that end, we look forward to working together with you."

Ras Tanura celebrates family, food, and fun in 'Happiness' campaign

by Charmain D. Ford



A two-day carnival near the shorelines of the Surf House patio was bustling with activity as children played games and participated in the numerous activities.

Ras Tanura — Ras Tanura's Recreation and Concessions Group recently captured the long weekend of summer sun by hosting an event filled with family, food, and fun.

This event was part of Northern Area/Western Region Community Services Department's (NAWR CSD) "Happiness in Focus" initiative to raise satisfaction levels throughout the Najmah community.

The two-day carnival near the shorelines of the Surf House patio was bustling with activity as children played games and participated in the numerous activities.

The patio was decorated with blocks and beanbags in primary colors and oversized game stations with extra activities put on to keep the children amused.

Gifts, including kites, were given to the

children during the carnival which, created motifs of pattern and color streaming across the skies of Najmah. A band played in the background, enhancing the celebratory environment.

An array of delicious food was available including shawarmas, pasta, pizza, ice cream, barbecue, and so much more.

"The people in our diverse multicultural community are very important to us," said NAWR CSD manager Fahad A. Al-Ghamdi. "Community Services social events are a wonderful way of bringing people together. We are always looking for ways and means to positively boost the happiness factor of our community."

This event was a resounding success and everyone thoroughly enjoyed themselves. More than 500 adults and children participated in the fun-filled weekend.

bowlers gather for yearly competition

Dhahran hosts a successful 2019 Annual Inter-Area Bowling Tournament

by Joselito Tugano

Dhahran — Bowlers from Dhahran, Abqaiq, and Ras Tanura recently convened at the Dhahran Bowling Center to participate in the Annual Inter-Area Bowling Tournament.

The two-day event was categorized into classes for men and women playing one round-robin set of matches.

The host, the Dhahran Bowling Association (DBA) and its 2019-2020 board members, welcomed more than 150 participants as well as spectators at the Dhahran Bowling Center and Ad Diwan social hall.

DBA president Adee Sipin welcomed the participants and Dhahran Recreation representative Aziz H. Khazaei expressed the continued support of the Central Community Services.

Russel Torres, DBA vice president, administered the Oath of Sportsmanship, which was followed by a ceremonial throw involving representatives from Abqaiq, Ras Tanura, and Dhahran.

At the end of the first day, the Ras Tanura and Abqaiq men's and women's teams were neck-and-neck for the top spot.

During the second day of the tournament,



Russel Torres, DBA vice president, administers the Oath of Sportsmanship.



Adeed Sipin lets one fly during the recent 2019 Annual Inter-Area Bowling Tournament held in Dhahran. The tournament featured teams from Dhahran, Ras Tanura, and Abqaiq.

all participating teams continued to display their skill, cheered on by the spectators.

Ultimately, the Ras Tanura Bowling Association (RTBA) was declared the champion in both the men's A and women's B

categories, respectively, while the Abqaiq City Bowling Association (ACBA) was declared the champion in the women's A and men's B categories. Individual awards went to Raymond Lota from the ACBA for the Men's High Handicap Series (698), and

Ritzie Hope from the ACBA for Women's High Handicap Series (656). The award for Men's High Scratch Single Game went to Chris Aeschlimann from RTBA (236), with Tess Cabais from RTBA taking the title in the women's category with a score of 221.

2019 Inter-Area Bowling Results

Category	Association	Team Members	Category	Association	Team Members
Men's Category A Team Champion	RTBA	Mo Sanad (team captain), Hassan Al Ogaili, Mar Fernandez, Rod Tomambo, Chris Aeschlimann, and Jose Villaruel	Men's Category B Team Champion	ACBA	Rami Latonio (team captain), Archie De Guzman, Rey Caraig Jr., Raymond Lota, Medhat Elalaily, and Abdullah Al-Hawalah
Women's Category A Team Champion	ACBA	Liz Smith (team captain), Ritzie Hope, Cristy Oanes, Katie De Guzman, and Beng Mungcal	Women's Category B Team Champion	RTBA	Percy Culala (team captain), Vangie Casilla, Joy Amparo, Gertz Consulta, Glorie Perez, and Tonette Retanal
Men's Individual High Handicap Series	ACBA	Raymond Lota	Men's Individual High Scratch Game	RTBA	Chris Aeschlimann
Women's Individual High Handicap Series	ACBA	Ritzie Hope	Women's Individual High Scratch Game	RTBA	Tess Cabais

Abqaiq comes 'Together Stronger' to celebrate community



A "kabsa" cooking competition was just one of the many features of the recent "Together Stronger" event held at Qurayyah Beach for Abqaiq residents. (Photos: Ibrahim F. Khayyat)

by Shahid Shah

Abqaiq — The Southern Area/Central Region Community Services Department (SA/CR CSD) recently hosted a "Together Stronger" event at the Qurayyah GC 11+ beach.

The event was held in recognition of all Saudi Aramco and contractor employees' continuous hard work and dedication shown throughout 2019 — especially with the recent support provided toward the

September incidents at company facilities.

The Abqaiq Recreation Services Unit collaborated with the Abqaiq Residential and Recreation Services Division and 'Udhailiyah Recreation Services Unit to put on an exciting event for everyone.

More than 2,000 employees and family members enjoyed the variety of entertainment provided to attendees of all ages throughout the evening.



Competitions such as a tug-of-war contest were popular among attendees.

The event contained many exciting features, including fun stage activities, a "kabsa" cooking competition, an obstacle court, splash 'n' spray area, and a food court. The children were also entertained with kites that were provided as gifts and there was also sand castle building area.

appreciation

"This was truly an event to bring every-

one together to show the strength and resilience we have as a community, as well as appreciate those who went above and beyond their duties to support the community," Mohammad A. Al Hajri, acting manager of SA/CR CSD, said as he thanked all the employees and their families for their dedication and support with the restoration of Abqaiq Plants.

Ras Tanura hosts art exhibition

by Charmain D. Ford

Ras Tanura — The second Ras Tanura (RT) Children’s Art Exhibition was held recently at the White Sand Lounge in the Surf House.

Children from the RT Middle and Elementary Schools submitted their artwork for display at the exhibition. Approximately 100 artists participated in this event, providing more than 200 pieces of artwork that were proudly displayed.

Best in Show and People’s Choice

The winners were chosen by judges, who then determined which picture was the “Best in Show.”



There were four main categories — painting, drawing, photography, and 3-D art — and three levels of participants — under 8, 9 to 12, and 13 to 18 years old.

The exhibition was an excellent opportunity to showcase the artistic talent of the children of RT in this second dedicated exhibition of its kind.

At the opening reception, attendees were given the first option to purchase items on sale and vote for the People’s Choice award.

The following morning was dedicated to the schools that utilized this event as a school trip. The opening was inaugurated by Northern Area/Western Region Consulting Services Department manager Faisal F. Jindan; administrator Abdullah S. Bagmi, Recreation supervisor Ali Bin Saleh; and several department heads. The exhibition was an inspiring moment for all those who attended.

The manager took pictures with some of the artists and had an opportunity to speak with the president of the art league, Venetia Pearce, while she gave a group tour of the exhibition setup.

The remaining days were for the entire community, with more than 650 people attending.

The celebration of art continued with the artists’ reception with all invited celebrating the winners that were chosen by a panel of judges.

a reflection of life on the Gulf

The artwork was divided into several categories to represent a variety of art forms, including fabric craft such as silk painting, jewelry, glassworks, photography, charcoal,



Faisal F. Jindan poses with young Ras Tanura artists and some of their teachers during the second Ras Tanura Children’s Art Exhibition, which was held recently at the White Sand Lounge in the Surf House.

ceramics, watercolors, oils, and acrylic.

Many of the works carried overtones of Gulf life such as camels, Arabic writing, architecture, and illustrations of Ras Tanura’s seashores. They were judged accordingly based on their balance, composition, creativity, perspective, and presentation.

The staging and presentation of artwork was on par with many galleries, and the quality of the art was excellent. Art League organizers put a great deal of effort into making the evening unique. There were 30 entrants (three of the artists were non-Aramco) who submitted over 200 pieces of art, with the artists coming from Ras Tanura, Dhahran, Abqaiq, and al-Khobar.

The Ras Tanura Art League (RTAL) principle is: “No matter how talented or experienced you may be you can always benefit from the exchange of practical ideas and creativity. We urge you to seize the moment and take the time to explore and share your inner creativity.”

As usual, this exhibition was a testament to the organization’s willingness to exemplify its beliefs.

Many visitors, artists, and their guests were complimentary of the exhibition, the organization, the layout, and the professional means of hanging the pictures. The event was sponsored by the RTAL and Ras Tanura Recreation.

Children’s Exhibition			
First-place winners	13 to 18 years old	9 to 12 years old	8 years old and under
3-D Art	Abirami Sivakumar: Vendor	Thomas Giraldo-Huertas: The Horse	Olivia Tait: Fish of the Coral Reef
Drawing	Natalie Samano: Rocky’s	Max Breuer: The Mystery of the HSS	Atharv Kumar King of the Jungle
Paintings	Aleksandra Luczak: Racoon	Julia Dabrowska: Polish Golden Autumn	Zainab Yusuf-Bhalla: Night Sky
Photography	N/A	Narrisa Genocchio: The Selfie	Ethan Brewster: At Peace

Saudi Aramco teams up with JHAH, others to raise breast cancer awareness

by Dalia Darweesh

Dhahran — Saudi Aramco’s Procurement and Supply Chain Management (P&SCM) recently conducted a Breast Cancer Awareness Campaign at North Park Auditorium in Dhahran.

P&SCM partnered with Johns Hopkins Aramco Healthcare (JHAH) to conduct the awareness campaign, in collaboration with the Jubail Royal Commission Hospital, the Security Forces Hospital, and the Saudi Cancer Society.

The campaign created an educational day for Saudi Aramco employees to raise the public awareness for breast cancer, its detection, treatment, and the need for a reliable and permanent cure.

tips on how to prevent and treat a common cancer

Breast cancer is one of the most common types of cancer in women all over the world, and the leading cause of death among women in the Kingdom of Saudi Arabia. However, it is also one of the most well treated cancers due to extensive medical research, early detection screening, and

advanced treatment options.

The campaign included an educational program from expert physicians at JHAH, educational booths from multiple JHAH service lines, and a blood donation truck that was available throughout the duration of the campaign.

The event began with opening remarks by JHAH’s chief of Oncology Institute, Dr. Nafisah Al-Faris. The educational programs followed, as Dr. Hanan Al Jehairan, breast imaging radiologist, spoke about the importance of early screening.

Dr. Samer Abushullaih, medical oncologist, shared breast cancer updates such as diagnosis and treatments.

Plastic surgeon, Dr. Hasan Al Ajmi, discussed cancer reconstruction management. Information on nutrition intervention in cancer prevention was also shared by Dr. Basem Futa, senior dietary specialist. Dr. Adil Al Khatti, Hematologist oncologist, promoted blood donation, and different ways to help save a life.

Dr. Eman Abdulrahman bin Al Mohawas, Diagnostic Radiology consultant at the Security Forces Hospital in Dammam, gave a talk

titled “Be Aware,” whereas Dr. Wedad Abdullah Baqitadah, Women’s Diagnostic Radiology consultant at the Jubail Royal Commissions Hospital, spoke about early breast cancer detection.

Cancer awareness videos were also showcased during the event, including the stories of cancer survivors.

sharing resources on breast cancer causes

Educational booths were present to give relevant brochures and giveaways, including:

- JHAH Oncology Institute: Breast Cancer Awareness
- JHAH Nutrition Services: Importance of Nutritional Education in Preventing and with People who have Cancer
- JHAH Respiratory Services: Smoking Cessation and Smoking’s Relation to Increased Cancer Rates

P&SCM vice president Mohammad A. Al Shammery recognized all of the presenters.

Saudi Aramco received a trophy from the deputy executive director of the Saudi Cancer Foundation, Abdulrahman Alshahrani, for its participation in the campaign.



Procurement and Supply Chain Management recently teamed up with Johns Hopkins Aramco Healthcare to conduct a Breast Cancer Awareness Campaign in collaboration with the Jubail Royal Commission Hospital, the Security Forces Hospital, and the Saudi Cancer Society. Nutritionist Dr. Basem Futa was among those to discuss topics related to key efforts in combatting breast cancer.

King Abdulaziz Center for World Culture
by saudi aramco



Ithra movies

in cinema

Ithra Heroes Adventure

Nov. 29, 30 10:30 a.m.

50 Thousand Photographs

Nov. 27, 28, 29, 30 4 p.m.

A Mouse Tale

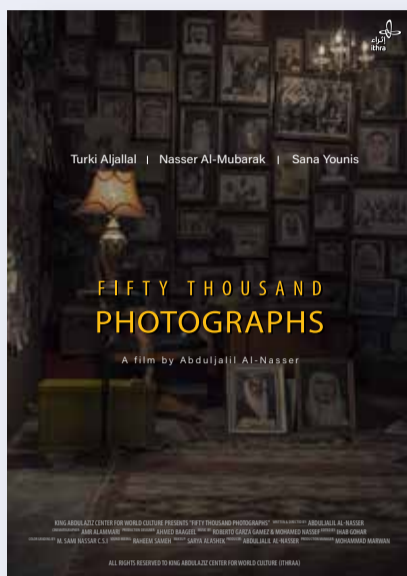
Nov. 27, 30 6:30 p.m.
Nov. 28, 29 7:30 p.m.

The Investor

Nov. 28, 29 6 p.m.

The True Story of King Tut's Treasure

Nov. 27, 28, 29, 30 2 p.m.



50 Thousand Photographs

In the current era, where he captures about two billion photos around the world daily, Turki lacks having one photo of his father after his family wasted all of his photos at the Burning Photos Wave that some people attended in the 1980s in the Kingdom. While searching for photos of his father, he recognizes the old man "Nasser," who owns in his house 50,000 photos of city people.

The Investor

Once the bars of jail locked behind him, Omar finds himself in a confrontation with reality, after spending a lifetime escaping to a world of his imagination, sharing a cell with a major criminal. Upon his cellmate's curiosity, Omar narrates the story of how he came to be the criminal that he is through the scheming impersonation of typical characters found in society. To escape his cellmate, Omar must carry on one last impersonation attempt to find freedom.



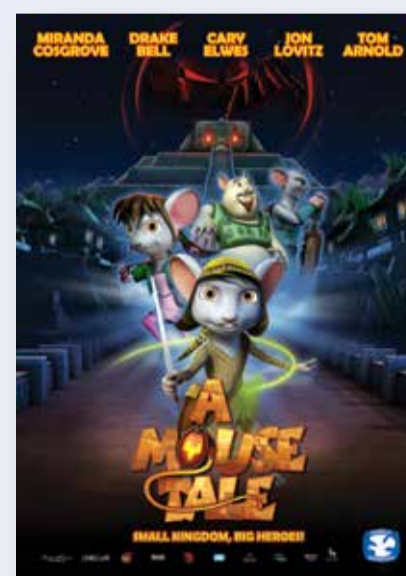
The True Story of King Tut's Treasure

Almost 100 years after the discovery of King Tut's Tomb, it is time to tell the story in a new light. This film uses 2-D and 3-D imagery to reconstruct the tomb, the mummy, the funerary objects, and the topography of the famous valley of the Kings. We will discover that the treasure was not Tutankhamun's, but his sister's, Pharaoh, before him!



A Mouse Tale

To save their Kingdom from evil rodents, two young mice go on a quest to a forbidden world to find a legendary magic crystal that has the power to restore order to their Kingdom.



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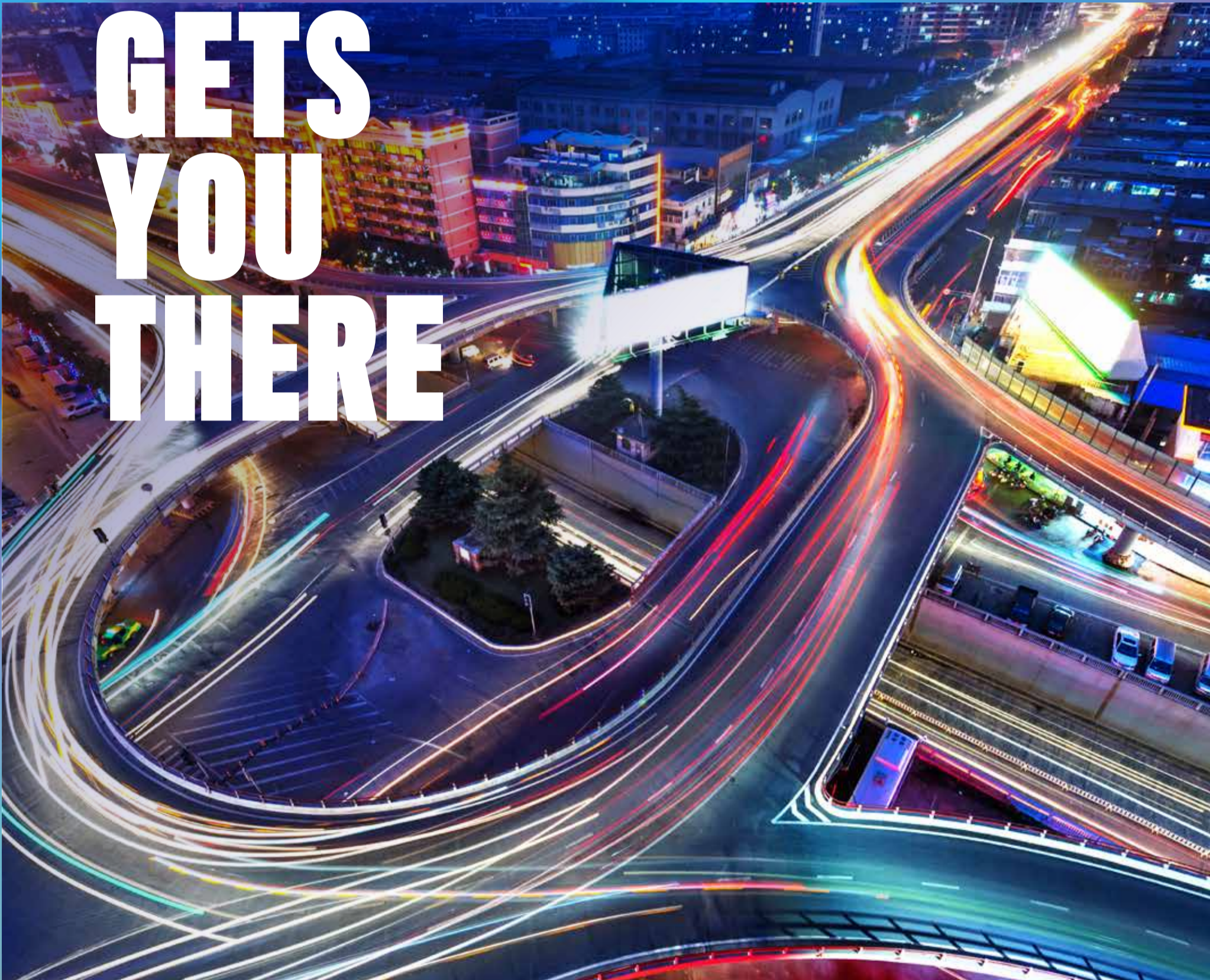


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أرامكو السعودية
saudi aramco



REAL ENERGY GETS YOU THERE



Growing energy demands need real solutions. With at least 50 years worth of reserves and the know-how to use them more efficiently and sustainably, we have got what it takes to propel the world into the future.

**THIS IS REAL ENERGY.
THIS IS ARAMCO.**