



aramco

namaat



A catalyst for continual transformation
Aramco's industrial investment program, namaat, gathers pace

See pages 4 and 5

the arabian sun

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Keeping drilling safely on the move

Sophisticated invisible passenger on distant journeys

By Janet Pinheiro

Driving 350-kilometers in the summer to a drilling rig in the center of one of Saudi Arabia's deserts, it would be easy to feel a little edgy.

However, when traveling on a drilling trip, you are never alone.

Inside Aramco's Dhahran headquarters, a nerve center of human and electronic eyes watches and meticulously tracks every movement of your drilling journey.

24/7 journey management

Aramco manages one of the world's largest drilling fleets. Constantly on the move, the fleet operates within the vast distances of the Kingdom's onshore and offshore horizons.

Whether traveling to drill new wells, or working on existing wells, a centralized Drilling and Workover Department (D&WO) operations center oversees safety and efficiency of drilling journeys. Staffed 24 hours a day, seven days a week, the Emergency Operations Center (EOC) operates with a minimum of two trained operators working one of three shifts.



Inside the Drilling and Workover Department's Emergency Operations Center in Dhahran, field compliance coordinators Mobarak M. Qahtani and Osama Al Ghamdi examine the digital fingerprint of our 3.5-hour journey to the center of the ad-Dahna desert.

"We coordinate and check on drilling travelers, and if necessary, activate immediate support for search and rescue," said Operational Excellence and Compliance Division general supervisor Abdullah M. Haidari.

"Drilling and workover has a fleet of almost 800 vehicles, and we coordinate an average of 500 trips each month," added Haidari.

Safe digital traveling

Before we drive 3.5 hours from Dhahran into the sandy heat of the southern ad-Dahna desert, field compliance coordinator Osama S. Ghamdi calls the EOC for our journey management plan. After he provides details of our vehicle, all passengers and our destination, the EOC operator instructs Ghamdi on the trip coordi-

nates, and we set off.

Sophisticated procedures and monitoring systems track journeys in real-time, explains field compliance technician Saeed A. Alqarny, speaking from the EOC. As we drive south, an automatic vehicle satellite-based tracking technology pinpoints our trip.

If, after 30 minutes the EOC cannot confirm expected arrival, or we do not call in to notify our safe whereabouts, a primary search and rescue will be activated. After one hour, a secondary search and rescue is initiated.

"Our goal for all journeys is to have zero incidents and violations," says Alqarny, who formerly worked on drilling rigs in both the northern and southern areas. "We help people to reach their destination safely."

Drilling emergency response

An important role of the EOC is to also monitor both preparedness for, and management of, all drilling site emergencies.

"The EOC facilitates tabletop and primary emergency drills, and provides swift and robust response during emergencies," says EOC field compliance coordinator Mobarak M. Qahtani. "In an emergency it is important to have quick access to the on-site emergency responders.

"Once a week, from our emergency management decision room, we have a shared video conference with all of Aramco's 50 emergency control centers," he adds.

Every drilling site has full-functioning clinic, ambulance, and access to local medical facilities, while Johns Hopkins Aramco Healthcare, and the company's Aviation and Marine departments are on 24-hour standby. Standard procedure at the EOC is daily contact with every drilling site to ensure operational functionality of one of the three communication channels — radio, satellite, and telephone.

"It is about life," says field compliance technician Mana S. Aldossry who joined the EOC in 2016, after working for 10 years on offshore and onshore drilling rigs.

"Being a part of the EOC team, increased the sense of responsibilities for me," says Aldossry. "We are here in the EOC to ensure, at the end of the day, that no one gets injured."

D&WO, as part of Aramco's crisis management response, also supports other company areas during emergencies.



Your voice

After 15 years of continued service in Aramco, what have I learned?



By Mohammed H. Marri
Dhahran
Mohammed.Marri@aramco.com

I remembered my first day in Aramco, when I traveled from the Employment Center after signing the contract, to the ID office for the issuing of my first ID card, beginning my life career in Aramco. When I was walking into the ID office, I was thinking about what I will see during my career from such a huge company, which has such a great history.

Actually, it was kind of an adventure. I knew that day I am no longer that young guy who came from school, it was a new level in my life. It was a new world, but was very interesting, especially for a guy who came from a small town to Dhahran, the pulsing heart of Saudi Arabia.

I could say I learned many lessons from my service in Aramco, but I will

mention the most important lessons I learned.

The first lesson anyone could learn from Aramco's business concept is respecting time. Every single minute in Aramco has value, starting from bus schedules to the work schedule to the end of the work day. Aramco employees learn from the beginning that time in the company is something that is important. And that appreciation of time reflects on the employee's personal life — for respecting the time and keeping their appointments — which made them a good example for people respecting time.

The second lesson I learned is the dynamic of continued progress and development in Aramco. Every moment, you can see the company does not rest in

its quest for maintaining progress in every field, as it seeks out and brings in the latest technology in operation, IT, maintenance, etc. The company cares about its employees, and encourages them to maintain their personal development by taking courses, studying, or urging them to use self-development. That teaches me a very important lesson, which is the way of success. Each of us can continue for our own development and learning, and never stop progressing.

The last lesson I learned from my service in Aramco is the quest for excellence, which is actually one of the corporate values. The company seeks excellence in every field of operation or nonoperation, which has inspired me to continue seeking excellence and not settling for less.

Keeping us mobile: Planes, boats and automobiles

By Eamonn Houston

Mobility — the ability to be safely moved around — is essential for a company of the scale of Aramco.

It involves a huge logistical effort that deploys best-in-class technology, and a dedicated and efficient workforce.

Mobility also has a big history, honored in Dhahran’s Mobility Center — an initiative of Industrial Services — which has documented 88 years of the evolution of Aramco.

An indoor gallery depicts the genesis of mobility with an impressive and historic gallery of photographs. It charts a history of discovery and innovation.

Dhahran’s Mobility Center oversees an incredible 17,000 mobile assets under a single roof, providing a large geographically and diversely spread set of services to core company onshore and offshore Upstream and Downstream operations to employees and their families in the community. With the huge number of assets and area of control, it became imperative, not only to have a number of data feeds and solutions, but also to have an intelligent center to integrate all mobility services, where information is available to all decision makers across various operations at the right time.

Mohammad A. Hatlani, acting executive director of Industrial Services, touches upon their core ethos.

“Our state-of-the-art Mobility Center is a shining example of the successful dovetailing of the best people with the best technology, which is in line with Aramco’s Digital Transformation. Our vision is to be a best-in-class provider and provide reliable, safe and cost-effective Industrial Services to Aramco and to contribute to the local economy with highly skilled and motivated people,” he noted.



Sky’s the limit

Of note are the Industrial Services operations in the sky.

Khalid H. Natour is manager of the company’s Aviation Department.

“We operate a fleet of 17 airplanes and 27 helicopters. The airplanes each have a specific function,” he explained.

“Our primary function is to transport our employees to Aramco’s various operating facilities over the Arabian Gulf and across the Kingdom.

“Our fleets include specialized aircraft that can deal with the most di-

verse and complex emergencies such as search and rescue, medivac, and environmental and oil spill control missions.

Supporting the company

Saad I. Shamrani, manager of the Transportation and Equipment Services Department, said, “Our mission is to provide reliable, safe, cost-effective and integrated transportation and equipment services while contributing to the local economy. We continue to provide such services across the Kingdom in every location Aramco operates, to support the company as it maintains its position as the world’s most reliable energy provider.”

Transportation of scale

As for the company’s offshore operations, the Marine Department plays a vital role in ensuring the critical upstream and downstream operations are continuously and safely supported. Marine supports the offshore oil and gas value chain starting at a very early stage from surveying offshore fields, to exploration, then drilling, followed by offshore projects, to production, and finally giving the final push to the loaded VLCCs supplying energy to the world.

Revolutionary marine vessels

“With the company strategically expanding offshore fields and increasing production demands, revolutionizing Marine vessels and offshore services has become imperative to ensure that safe, efficient, cost-effective, and best-in-class Marine solutions are provided to offshore users,” said Abdullah O. Al-Tewairqi, Marine Department manager.

Here is a breakdown of the company’s assets, managed by the three different departments: Aviation, Marine, and Transportation and Equipment Services.

Aviation

- Operates scheduled flights through 13 Aramco-owned airports along with eight government airports, in addition to 500 helipads, utilizing a fleet of 17 airplanes and 27 helicopters, which makes the aviation services in Aramco one of the largest private operators outside the United States.

- Tanajib airport is the busiest in the Middle East in terms of takeoffs and



landings, with an average of 40 to 60 helicopter landings and takeoffs each day.

- The aviation services transport approximately 1 million passengers annually to support the company’s various operations.

Marine

- The Marine Department supports stakeholders through a cluster of six owned and two public seaports, strategically located at the coastlines of Saudi Arabia.

- The Tanajib Marine facility is the largest port for offshore support worldwide, out of which, over 300,000 vessel movements are managed and over 1 million tons of cargo are transferred annually.

- A fleet of more than 280 modernized vessels are managed by Marine to support the company’s offshore operations in a safe and efficient manner.

- Protecting the environment is one of Marine’s main objectives that has taken its own share of digital transformation through the development of the oil spill trajectory model to support its ability in tracking oil spills. Offshore vessel traffic management is implemented through the latest technologies to monitor and control vessel movements.

Transportation & Equipment Services

- Performs more than 60,000 critical lifts, through six crane hubs located around major hydrocarbon facilities, supported with a total fleet of 200 cranes.

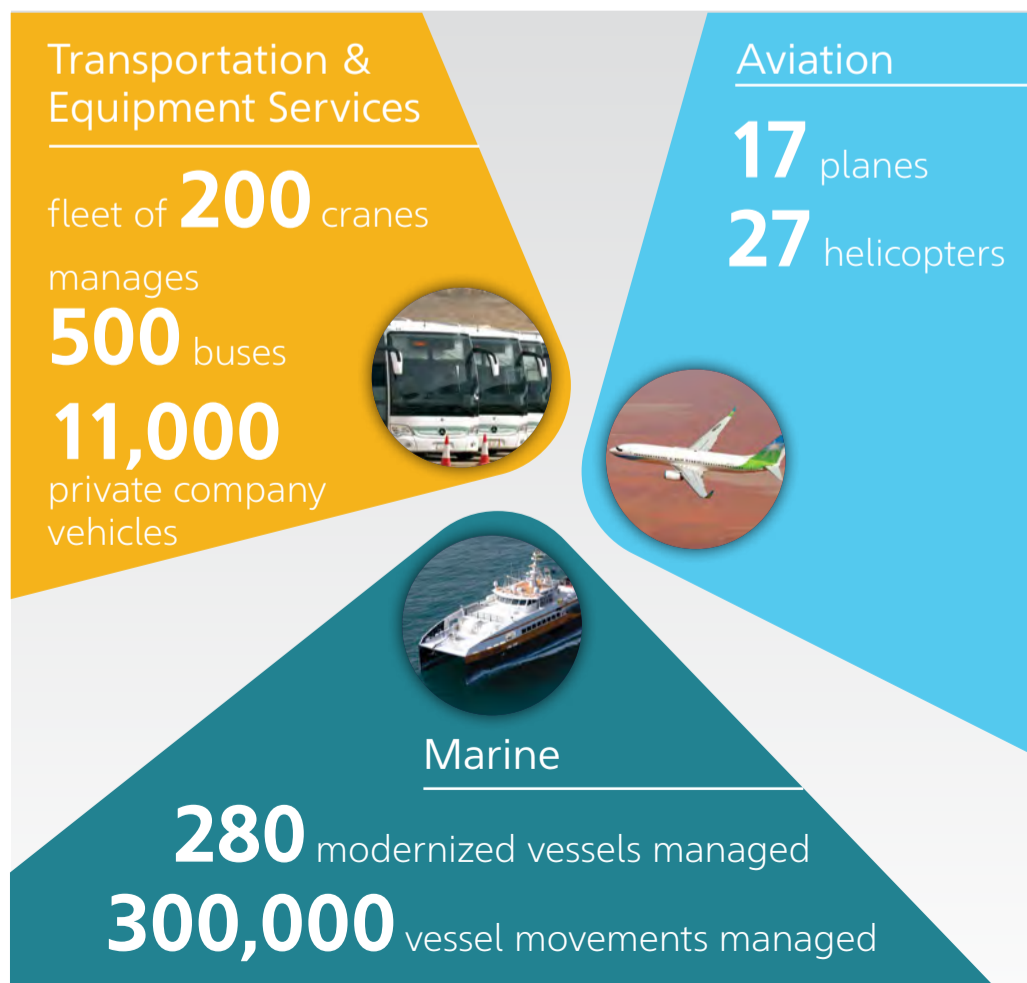
- Annually transports a total of 7 million tons of material and equipment to drilling operations, with a fleet of 1,500 specialized cargo trucks, with a total of 170 million kilometers driven per year.

- Manages 500 buses, transporting 9 million passengers annually, in addition to a fleet of more than 11,000 private company vehicles.

Digital transformation

Digital technologies give the company an opportunity to manage and control all these assets more efficiently, giving the decision makers real-time information across various operations at the right time.

Through artificial intelligence and the Internet of Things, the Industrial Services Mobility Center can place cameras, location devices, and other sensors that provide real-time monitoring and remote access to marine vessels, aircraft, and in-land transportation vehicles and equipment.





A catalyst for continual transformation Aramco's industrial investment program, namaat, gathers pace

By Michael Ives

On Tuesday, Sept. 7, 2021, over 100 representatives from Aramco, Government ministries and local and global companies came together to sign 23 partnership agreements (22 MoUs and one JV) and launch the next phase of **aramco namaat**, Aramco's industrial investment program.

Launched in Nov. 2020, **aramco namaat** (meaning "growth" in Arabic), is focused on forging world-class industrial partnerships in four key areas — Sustainability, Technology, Industrials, and Advanced Materials.

Building on the flagship iktva program, the Kingdom's Shareek program, and the wider spectrum of Saudi Vision 2030, Aramco is partnering with leading local and global companies to support the continued economic growth and diversification of Saudi Arabia.

In line with Vision 2030, **aramco namaat** is a catalyst and enabler for continued transformation, enhancement, economic growth, and diversification.

A truly transformational journey

HE Yasir O. Al-Rumayyan, chairman of the Board, Saudi Aramco, remarked that, "Saudi Arabia has embarked on a truly transformational journey in economic development and diversification." Quoting His Royal Highness, Prince Mohammed bin Salman bin Abdulaziz Al Saud, Crown Prince, Dep-



HE Yasir O. Al-Rumayyan told attendees that building a prosperous and vibrant private sector was a priority for the Kingdom.



Amin Nasser said that 'namaat' will strengthen the company's procurement and supply chain and eco-system.

uty Prime Minister and Minister of Defense, he said, "Building a vibrant and prosperous private sector is one of the national priorities for the Kingdom."

"Guided by Vision 2030, the Kingdom is accelerating in both economic development and diversification, as well as building even stronger bonds of partnership between the public and private sectors. The momentum behind the Kingdom's increasingly diverse and dynamic economy continues to grow, and with it the scope, scale, and speed of change are also increasing," he said.

HE Al-Rumayyan noted the recently launched Shareek program was created to help boost the private sector's role in economic development, diversification,

local value addition, and job creation.

"We've also made huge progress with iktva, Aramco's flagship program to localize our supply chain. And now, to provide additional support for this national imperative, we are launching **aramco namaat** to help drive the continued growth and further development of a resilient and sustainable private sector by partnering and attracting world leading companies in various sectors."

An integrated supply chain

Amin Nasser, president and CEO of Saudi Aramco, said, "The importance of having a robust supply chain can never be underestimated, and the COVID-19

pandemic only reiterated the critical need for integrated supply chain and logistic capabilities."

Nasser highlighted that **aramco namaat** is all about adding further strength to the company, and also to the Kingdom's industrial sector.

"For Aramco, having a robust and resilient supply chain has enabled us to overcome a number of challenges in recent years. Our rapid recovery from the attacks at Abqaiq and Khurais in September 2019 is one obvious example."

Nasser noted that **aramco namaat** is a further expansion of company partnerships and another significant step forward in Aramco's supply chain, which comes with many benefits.

"For our partners in namaat, the benefits include opportunities to participate in the rapidly expanding diversification of the Kingdom's business sectors in general. Namaat will strengthen our procurement and supply chain ecosystem, and in turn, increase reliability for us and for our customers. This means our long-term competitive advantage will only get better."

Nasser also said, "Aramco is proud to be a catalyst and an enabler in supporting Saudi Arabia's growth. And by extension, our partners in namaat are

aramco namaat's focus



Sustainability

Protecting our environment with investments in everything from carbon capture and storage to reforestation, to integrated waste management.



Industrials

Deploying the latest advances in construction, logistics, and energy storage to cut costs and improve operational efficiency.



Technology

Using state-of-the-art digital tools to build a smarter, more data-driven business.



Materials

Upgrading the value of our product while unlocking new sources of demand.

also playing a vital role in contributing to the Kingdom's advancement.

The benefits for all involved are multiple ... as well as mutual."

A simple goal: Made in Saudi Arabia

Joining the launch, Ahmad A. Al-Sa'adi, senior vice president of Technical Services, said that the goal of namaat is simple: "We want more of the products and services that Aramco relies on as a business to come bearing the label: 'Made in Saudi Arabia.'"

"That's why we are announcing a major expansion of our program of investment in the Saudi industrial economy. In this new phase, we will target four strategic areas. All are vital to the future of our business. All four will strengthen our ability to reliably supply

energy to the world.

First, sustainability: Protecting our environment with investments in everything from carbon capture and storage to reforestation, to integrated waste management.

Second, technologies: Using state-of-the-art digital tools to build a smarter, more data-driven business.

Third, industrials: Deploying the latest advances in construction, logistics, and energy storage to cut costs and improve operational efficiency.

And **fourth, advanced materials:** Upgrading the value of our product while unlocking new sources of demand.

The ultimate goal is to build a world-class energy services ecosystem in the Kingdom of Saudi Arabia."

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Aramco is proud to be a catalyst and an enabler in supporting Saudi Arabia's growth. And by extension, our partners in namaat are also playing a vital role in contributing to the Kingdom's advancement.

The benefits for all involved are multiple ... as well as mutual.

— Amin Nasser

Partnership agreements signed under aramco namaat

On Tuesday, Sept. 7, 2021, in addition to launching the expansion of **aramco namaat**, with 23 partnership agreements signed with local and global companies, building on established relationships with partners, including Hyundai, DHL, Samsung Engineering, and Shell.

The partnership agreements signed under the namaat program included:

- **SOLVAY** — An MoU with the goal to pursue the development of advanced nonmetallic materials and localization of a composite value chain.
- **DHL Supply Chain** — An arrangement to evaluate the feasibility of establishing a local industrial logistics and procurement hub serving Saudi Arabia and MENA region.
- **VEOLIA** — Exclusive MoU to confirm the commercial feasibility of establishing a world-class integrated waste management company, alongside a strategic in-Kingdom stakeholder.

stakeholder.

- **Air Liquide and Haliburton and PIF, Baker Hughes and PIF, Linde and Schlumberger and PIF** — Three separate nonbinding MoUs to evaluate carbon capture and sequestration opportunities and potential partnerships.
- **AIC Steel, GSW, McDermott, Seyang, and Sendan, and NARMEL** — Five separate MoUs on modular construction.
- **Samsung Engineering, Hyundai, and Saipem** — Three separate MoUs on engineering, procurement and construction.
- **Elion and Green Groves** — Two separate MoUs to evaluate the feasibility of localizing nature-based solutions.
- **Honeywell** — An MoU with the goal to establish a joint venture that will develop and implement next-generation digital solutions that will improve efficiency, sustainability, and enable operational excellence of industrial facilities.

industrial facilities.

- **Gulf Modular Industry (GMI)** — MoU to validate the feasibility of developing and using nonmetallic applications in the modular building manufacturing process in the building and construction sector.
- **Armorock** — MoU to validate the feasibility of developing and using nonmetallic polymer concrete applications in the building and construction sector.
- **Shell AMG Recycling & United Company for Industry** — A trilateral MoU on metals reclamation and catalyst manufacturing.
- **AVEVA** — An MoU with the goal to establish a strategic alliance that will contribute to localizing development and deployment of various digital technologies, including artificial intelligence, machine learning, and digital twin.
- **Baosteel** — An MoU to conduct an engineering study and develop plans needed to build, own, and operate an

integrated steel plate manufacturing facility in Saudi Arabia.

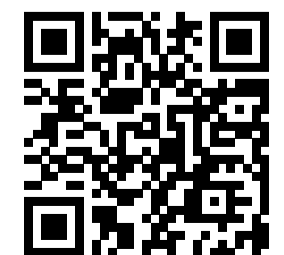
- A joint venture agreement between **SeAH and Dussur** to localize stainless steel seamless tube and pipe manufacturing has materialized.

These new partnerships continue to advance innovation and sustainability, while enhancing the scale and reliability of the in-Kingdom economic ecosystem, benefitting companies across the energy and chemicals landscape.

All of these ventures demonstrate Aramco's focus on long-term goals. They will help to ensure supply chain robustness; enhance the security of supply for both the company and customers; accelerate product leadership; and complement core activities. By championing new markets and growth sectors, they will also contribute to the development of a diverse and future-proof Saudi economy.



Ahmad A. Al-Sa'adi said the ultimate goal is to build a world-class energy services eco-system in the Kingdom.



Learn more about **aramco namaat** by watching our video.

let's catch a phish

Benjamin J. Hallberg clicks on "Report as Spam" first

The August phishing email test was a teaser about new offers from American Express, supposedly sent from the America Express Team. Did you click on the fake notice? Benjamin J. Hallberg, a teacher with the Dhahran Junior High

School of the Saudi Aramco Expatriate Schools Division, was observant and quick to report the email as spam.

Although highly tempting to click on the link, this email had all the hallmarks of a phishing email test, including:

- A suspicious domain (America Exppress <americaexpress@my-corporate-rewards.com>)
- An attractive subject ("Offer Announcement")
- A large, bright red external tag

("PHISHING ALERT")

- Several misspelled words ("Express" and "limt")
- An embedded link ("Offers")
- A sense of urgency ("the offer ends on 12th of August").

The top 3 positive performing Admin Areas

1. National Champions
2. Marketing, Sales & Supply Planning
3. Technology Oversight & Coordinatio

thank you

The Information Security Department would like to extend its gratitude and appreciation to the top three positive performance Admin Areas for their noticeable efforts in scoring the lowest negative behavior; along with the highest positive behavior for the August simulated Phishing Email Test. Such efforts reflect positively on Aramco cybersecurity user behavior and elevates the resilience of Aramco's core business.

cybersecurity tip of the month

Cybersecurity — The perfect weapon

By Roshdi Osman

The death of William Gibson's father propelled Gibson at the age of six to withdraw from public life and into writing science fiction (sci-fi) books. In 1984, Gibson released his award-winning novel *Neuromancer*, which marked the first appearance of the term "cyberspace." In *Neuromancer*, Gibson described cyberspace as, "A consensual hallucination experienced daily by billions of legitimate operators."

Gibson's writings later created the coalition that renovated the sci-fi sub-genre known as the cyberpunk movement, which later laid the foundation for the popular movie, "The Matrix."

Gibson's imaginative description of cyberspace was limited to "legitimate" operators. It seems even Gibson could

not stretch his imagination enough to foresee illegitimate users' participation in cyberspace. In fact, it was not Gibson's fault alone, the internet's founders and the architects of the Advanced Research Projects Agency Network (ARPANET) failed to imagine users attacking one another in cyberspace.

The internet was developed with two primary goals in mind, connectivity and interoperability. Exclusion was the only approach to achieve any level of security. In an interview with the Washington Post, David D. Clark, who was the chief protocol architect in the early development of the internet, recalled, "It's not that we didn't think about security, we knew that there were untrustworthy people out there, and we thought we could exclude them."

Ironically, it took another sci-fi novel

by John Brunner to predict the rise of malicious software. In *The Shockwave Rider*, Brunner coined the word "worm" to describe a program that propagates itself through a computer network.

In 1988, Brunner's sci-fi prediction became a reality and a wake-up call as the first internet worm started propagating at remarkable speed and grinding computers to a halt. Motivated more by intellectual curiosity than malice, Robert Morris created the first internet worm, which was later dubbed the "Morris Worm." Consequently, Morris became one of the first people prosecuted under an anti-hacking statute that Congress had passed a few years earlier known as the Computer Fraud and Abuse Act.

Morris proved that cyber can be used as a weapon that leverages the inter-

net's essential nature of being fast, open, and frictionless to achieve strategic targets.

With the advent of the Internet of Things, we live in a world where everything is becoming a computer. Your smart car is a computer with four wheels and an engine. Your smart refrigerator is a computer that keeps food cold, and your smart phone is a computer that can make phone calls among so many other functions.

Cyber is stealthy, portable, cheap, and provides a high degree of plausible deniability due to difficulty in attribution, and more importantly, it can be dialed up or down to remain a "short of war" weapon. These unique aspects of cyber are why *New York Times* national security correspondent, David Sanger, called cyber "The Perfect Weapon."

A quest for curiosity's sake brings international recognition to Aramco research scientist

By Rima Ruhman

Dr. Qiwei Wang will immediately tell you not to call him doctor, but by his first name, which is pronounced like *chewy*. His laughter is genuine, his openness evident, and you get a sense that he is a person who loves what he does.

Wang, who serves as a Technical Services Division (TSD) research science consultant with the Research and Development Center (R&DC) has just been awarded the National Association of Corrosion Engineers (NACE) International Technical Achievement Award. The award ceremony was held during the NACE Annual Conference in May. The award, given to a maximum of five NACE members per year, was in recognition for his outstanding contributions in technical advancements for oil field scale management, which focuses on finding innovative solutions to reduce solid deposits that grow over time, which hinders fluid flow through pipelines, valves, and pumps.

Tim Bieri, chair of the Association for Materials Protection and Performance, said, "It is an honor to recognize the extraordinary efforts and achievements of our members like Dr. Qiwei Wang who have done so much to advance the association and the industry."

'Curiosity' is the key

Wang's career, which spans 25 years, 190 completed projects, 20 patent applications, 180 publications, including seven book chapters, is indicative of his zest and the sheer enthusiasm he has for what he does.

"Curiosity," he told me, "is important. When I took engineering as an undergraduate, I realized I needed to study physics. Physics drove me to chemistry. Chemistry led me to an amazement about water. To understand the chemistry, the very nature and physics of water, I pursued a Ph.D. in oceanography from Texas A&M University."

Wang never imagined he would work in the oil and gas industry, but as he explained to me, he became fascinated with the iron sulfide that forms as sediment on the bottom of the ocean and is a major aspect of the evolution of the Earth. He said how — in his pursuit against iron sulfide — he went on a search for jobs to pursue his interest in eradicating iron sulfide. It was this way that he discovered how his work could morph into a career.

It was in this way that Wang began his career, working at first as a research scientist for Nalco Champion and then as a team coordinator/senior specialist on scale management where he led the

development of many new products and treatment programs for mature fields, deep-water, and unconventional applications. In 2011, after reading an article about scale management in the *Saudi Aramco Journal of Technology*, he decided he would join the team at Aramco's R&DC.

Among many other projects at Aramco, Wang led the development of scale treatment programs for Ghawar, Khurais, Abu Safah, and Central Arabia oil fields, sour and sweet gas producers, crude producing facilities, and gas plants. He led the multidisciplinary team on a downhole scale study for Khuff gas wells.

Keeping on top of the game

An avid reader of industry papers, Wang says that he always keeps abreast of emerging challenges and developments in the industry. His passion, a project he really wants to pursue in the future, is a way to develop novel, multifunctional oil field chemicals using local raw materials.

"New formulations, new chemistry, and new deployments of technology for scaling prevention are necessary."

Wang is currently working on mitigating solid deposition in the electric submersible pump systems.

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Wang's career spans 25 years, 190 completed projects, 20 patent applications, and 180 publications.



Asia citizenship programs keep local communities sustainable and safe

By Jeff Kim in Korea, Hiromi Barada in Japan, and Paul Zhang in China

Aramco Asia has recently rolled out a number of community programs as a part of the corporate citizenship initiatives to deliver a sustainable business in the region.

These strategic programs, "Recycling Awareness Campaign" in China, "Safer Route to School" in Korea, and "Coral Reef Conservation" in Japan, focus on sustainability, children's safety and conservation of natural resources. They also help maximize the company's corporate value proposition in the region where Aramco has a growing presence.

Commenting on these programs, Aramco Asia president Anwar A. Al Hejazi, noted, "We are delighted to carry out these programs, which emphasize sustainability, safety and social well-being with our Asia stakeholders. At Aramco, we remain committed to our corporate citizenship initiatives to pursue the long-term sustainability of our business potentials and the benefit for local residents."

Raising household awareness on waste recycling

The China team launched a waste recycling awareness program in Xiamen, a coastal city in southeast province of Fujian in July 2021. The 12-month "Hand-in-Hand" campaign strives to raise an understanding of the importance of waste sorting among children and their parents. The project has been launched in collaboration with the Ifeng.com Charity Special Fund under the China Charities Aid Foundation for Children, and targets families living in the Huli District of Xiamen.

Several activities have been planned

over the course of the campaign to highlight the benefits of sorting and recycling waste, including training, exhibitions, discussion forums to be attended by waste management experts, and the provision of the handbook on environment protection. A Memorandum of Understanding (MoU), outlining the scope of the campaign, has been signed by Aramco Asia and the Ifeng.com Charity Special Fund — paving the way for its rollout.

Making streets safer for children

The Korea office launched the project of "Safer Routes to School" to en-

hance traffic safety near 50 elementary schools in Ulsan in collaboration with four local government agencies in the city. Besides educational materials, the program also includes the installation of speed limit signs and the painting of sidewalks, alerting drivers to the presence of young children near schools.

Protecting marine environment

The Japan office entered into an agreement with the Okinawa Coral Reef Conservation Council on a comprehensive partnership to conserve the marine environment in the prefecture, where the company has provided support over the past 10 years.

Aramco has adopted a pan-Asia strategy to create a positive impact on building prosperity and responsible growth. The strategy supports the corporate citizenship pillars of people and planet for its contribution to local sustainability. Through closer cooperation with local partners over almost 10 years, the company has built trust with communities and strives to create a more prosperous future.

Joint research and conservation activities for the *Acropora horrida* coral community in Nanhanari has won the Coral Reef Conservation Award from the Japanese Coral Reef Society. (Photo by Kume Island Fisheries Cooperative Association/COLORCODE)

Memory Lane: New offices, record enrollment, high humidity and from a fledgling Khurais Crude Increment

The end of summer means high humidity and the return of school, as well as business as usual over the long history of Aramco. Here are a few stories looking back through the years and editions of The Arabian Sun.

Sept. 7, 1955

New office building in Dhahran



Soil boring tests are being carried out as part of the initial stage in site preparation for a 130,000-square-foot office building to be built during 1956 on a site north of the present Administration Building in Dhahran.

Tentative schedules call for completion of the three-story, hollow square building in late 1957.

Shown above is a model of one quarter of the new building. An interesting structural feature of the projected building, one entrance of which will be open on a drive leading to the Al-Khobar Road,

is the use of under-floor ducts for power and communications lines, and movable metal partitions to provide flexibility of office space.

Sept. 8, 1976

Enrollment in Aramco schools at record high on opening day

Enrollment reached a record 1,423 pupils in Aramco Schools last week as Monday, Aug. 30, marked the first day of the 1976-77 school year for the youth of Dhahran, Abqaiq, and Ras Tanura.

Dhahran School this year accommodates 927 pupils compared to 855 last year; Abqaiq has 242, just slightly above last year's 240; and Najmah School, where 246 pupils were enrolled at this time last year.



Sept. 3, 1986

Meteorological terms help gauge heat-humidity discomfort levels

As the humidity lingers, Aramcons who like to give vocal vent to their feelings about the weather might be well advised to add a few terms to their meteorological vocabulary.

Each of these terms is used to describe that combination of heat and humidity that Aramcons have been experiencing since the beginning of August.

"The bad days are over," states our resident weather watcher, referring to the near-drenching days of high humidity that prevailed throughout much of August. "But the humidity will continue to be high. In fact, it is the highest of all in September."



Sept. 6, 2006

Khurais rising from sand



Progress is swift at the Khurais Crude Increment Program, the largest crude increment undertaken in the history of Aramco and one of the largest projects being executed in the world.

Abd Allah S. Al-Saif, senior vice president of Exploration and Producing, on Aug. 28, visited the site to see the amount of work that has been done on site preparation and temporary facilities.

"This project is vital to sustaining our role as one of the world's leading energy providers," Al-Saif said. "It's impressive to see how far things have come in such a short time."



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Publishing administrator: Meteb F. Al-Qahtani
Supervisor Content Creation: Jamsheed Din
Editors: William Bradshaw and Todd Williams
Editorial staff: Musherf Alamri, Eamonn Houston, Scott Baldauf, Rawan Nasser, and Dalia Darweesh.
Designer: Husam Nasr.

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the arabian sun



Asia citizenship programs keep local communities sustainable and safe

see page 7

It's not just losing weight, it's regaining health — JHAH's distinctive integrated approach to obesity management

The patient was a grandmother. She had diabetes, obstructive sleep apnea and a body mass index of 84 — more than four times what experts consider healthy.

In October 2018, Dr. Hien Nguyen, a bariatric surgeon visiting Johns Hopkins Aramco Healthcare (JHAH) from Johns Hopkins Medicine (JHM) in Baltimore, accepted her as a patient. He and Dr. Michael Schweitzer, director of the Johns Hopkins Center for Bariatric Surgery, were on a clinical rotation to share knowledge with their colleagues at JHAH and to perform surgical procedures, including this patient's operation and 10 other complex cases.

Five months later, the patient was doing well and meeting her weight loss benchmarks. She says she can now walk in her garden for the first time in a very

long time, and she even brought in her extended family to thank Dr. Abdullah Madaani, JHAH's Bariatric Surgery Program director, and his expert care team. While this case of obesity may seem extreme, it is far from an isolated occurrence. In Saudi Arabia, one in three adults suffer from obesity, and at least one in 10 have morbid obesity. JHAH had established the first bariatric weight management program in the Eastern Province of the Kingdom back in 2009. However, obesity rates among JHAH's patient population continue to increase — underscoring a global health crisis. In 2016, JHAH, Saudi Aramco, and JHM felt an urgency to expand the weight management program by developing a dedicated, multidisciplinary center for obesity care and enhancing bariatric surgical services, including introducing new procedures and techniques.

Comprehensiveness was key. The partners strived to engage all departments that are involved in obesity care. In addition, they wanted to serve JHAH patients' needs across the continuum of care — from pre-surgery assessment to post-surgery support services.

Partnering on pathways

The JHM team has been sharing best practices to help JHAH continue to develop the interconnections among services involved in a successful obesity management program, including nutrition, psychology, nursing, care coordination, and health education.

This kind of information sharing is strengthening the obesity management program JHAH has been cultivating for nearly a decade. A significant amount

of collaborative work has gone into defining clear-cut pathways to get patients through the preoperative, perioperative and post-operative processes in the most efficient way.

JHAH obesity management patients participate in an educational program taught by a clinical dietitian, social worker, and registered nurse. During that time, patients also receive individual counseling by a clinical dietitian, which includes goal setting and post-operative bariatric nutrition education. The goal is for patients to achieve at least a 10% change in their body composition or weight.

JHAH's program emphasizes that weight loss isn't a quick process, nor is it a quick fix. Making positive changes for long-term wellness is a journey that requires conscious effort.

Director of the Johns Hopkins Center for Bariatric Surgery, Dr. Michael Schweitzer, on surgical rotation at JHAH, September 26 to 30



Dr. Michael Allen Schweitzer
Director, Johns Hopkins Center for Bariatric Surgery

If you are considering a surgical intervention to help reduce your weight, and would like a consultation with Dr. Schweitzer at the JHAH Bariatric Surgery Program, the Bariatric and Metabolic Surgery coordinator invites you to attend an information and assessment session.

Register to attend the information and assessment session by visiting <https://www.jhah.com/bariatric-program>. Your consultation with Dr. Schweitzer will be coordinated by the Bariatric and Metabolic Surgery coordinator.

Bariatric surgery is one of the most effective treatments available for reducing obesity and obesity-related complications such as diabetes. The JHAH Bar-

iatric Surgery Program has an excellent long-term success rate.

The JHAH Metabolic and Bariatric Program is accredited as a Center of Excellence by the Surgical Review Corporation. The JHAH program achieves consistently high quality outcomes and delivers comprehensive follow-up care to help patients sustain a healthier lifestyle.

Specialists from JHM in the U.S. share their expertise during ongoing medical rotations on the ground at JHAH, reviewing complex cases, providing patient consultations, and performing surgeries for our patients.

See more about visiting JHM specialists at JHAH.com.



Scan the QR code to visit the JHM On-site page.

A summer sunrise in al-Khobar

Abdullah M. Battah captured this photo early one morning in July. He used his Nikon D5600 camera, with no special settings.

Battah has been with Aramco for seven years. He is a process control system technician working in the Maintenance Engineering and Support Unit of the Northern Area Gas Producing Department.

