

## Fortifying Bapco Cybersecurity The first steps into a larger world

Despite being very early into the year, Bapco has already seen significant developments in 2019. Among these, has been the progression of a Cybersecurity Roadmap. Headed by the Automation section in the Engineering Division, a comprehensive process is currently underway to revolutionize Bapco's digital capability. The team in place has made significant strides, within the roadmap, by implementing Data Diode technology. Digital advancements have revolutionized a vast array of industries. They have offered better as well as more

efficient avenues of operating and brought about increased productivity. This, however, has come at a cost as demonstrated by the rise of cybercrime. For this reason, The Engineering Division is employing new cyber security initiatives to fortify Bapco's assets, information and production. The Automation section has partnered with Engineering and Marketing International (EMI), a technology solution provider, to develop the Data Diode protection technology. Data Diode is a valuable, hardware-based, security product which provides significant benefit. Data

Diodes allows for the segmentation of Bapco's networks by regulating the direction in which data can be transferred. The segmentation of networks does serve the purpose of securing the process control network but prohibits all access of process information to necessary individuals through the PI System, which documents and achieves process data. This has necessitated the creation of a PI Ancillary System. The ancillary system mirrors information from the production PI system to allow data availability across the enterprise but leaves no vulnerability for

infringement. This maintains the function of the PI System whilst not compromising security. Data Diode will establish secure, one-way data transference from process network; eliminating any external points of entry and offering security against cyber-attack. Data Diode is the first step in fortifying Bapco's cybersecurity and provides security for fulfilling new initiatives such as the PI system. The ambitious efforts of the Engineering Division are far from complete but they can help ensure Bapco's safe and prosperous future.



The team bringing Data Diode to Bapco:  
Mohammed Lounadi, Syed Ismayil,  
Mohammad El-Ess from EMI and Wafa Noor

### Cyber Security Vigilance

Automation Superintendent, Ahmed Alsayed: "The rise of global computerization has been extremely rapid. The growing threat of cyber-crime is no longer theoretical and has graduated to a real, tangible danger. Nowadays firewalls are more gates than walls! Traditional technologies need to adapt to combat this growing threat. Our team has worked tirelessly to bring this development to fruition and I thank them sincerely."



### A Secure Pathway to Progress

General Manager – Engineering Division, Gaetano De Santis: "The size and domestic importance of Bapco as an institution makes us a potential target. The developments being spearheaded by the Engineering Division are necessary to avoid commercial disruption, maintain infrastructural integrity and preserve the plans for BAPCO's progress going forward."



### Cyber Security Transformation

EMI- Technical Manager, Mohamad Shamseddine: "Engineering and Marketing International (EMI) was thrilled to be part of the data diode project at Bapco. It was a great experience working closely with BAPCO's team to complete this cyber security transformation initiative successfully."



## HE Oil Minister inaugurates annual conference of District 20 Toastmasters -DTAC 2019

(Continued from Page 1) At the beginning of his opening address, the Minister of Oil welcomed selecting the Kingdom of Bahrain to host this annual conference, because of the good reputation of the kingdom in embracing various events and providing support and assistance to achieve the desired goals. He valued highly the efforts made by the organising committee to organise, arrange and process this important event, wishing the conference and the contestants all success.

HE The Minister said that the Kingdom of Bahrain is the first country in the Middle East where the Toastmasters Club was established in 1964, where the Manama Toastmasters Club paved the way for the creation of more than 13,000 clubs around the world with the aim of training members to develop various skills.

He highlighted the importance of such youth events aimed at the development of human cadres in several fields, as the

Toastmasters programme provides a positive educational environment stimulating the development of skills such as speaking, listening, thinking and other skills that contribute to the promotion of self-confidence.

The Minister pointed out that the world today is witnessing many difficulties, challenges and failures, but it is important for the human being to strive towards progress and overcome these failures through hard work in learning, creativity and development and re-attempts without despair to reach the realization of ambitions and successes at various levels.

In conclusion, HE the Minister of Oil warmly thanked the organisers, supporters, speakers, participants, and all those who contributed to the success of this milestone in the Kingdom of Bahrain, and wished for a successful conference.

The event was attended by a number of local, regional and global speakers, including Mr. Richard Beck, first Vice President

of Toastmasters International, and Ms. Cheryl Roche, CEO of Sparkle, Mr. Lance Miller, world champion of rhetoric 2005, and Mr. Kamal Shihabi, the half-role final at the 2018 World Public Speaking Championships and Mr. Sami, founder and head of investment for training and development.

Toastmasters International is one of the leading public speaking and leadership organisations that aim to "empower individuals to become active spokespersons and leaders in society." In addition to organising various programmes specialised in leadership and communication for all groups of society, with the aim of developing their abilities and skills in various fields.

The event was attended by more than 400 participants from around the world, which witnessed the creation of competitions in Arabic and English between the heroes of all participating countries in four categories: assessment speeches, comic speeches, impromptu speeches and global speeches.

## Let's Talk Health Activity

Bapco's Health Promotion Section actively participated in the health event held under the title of "Let's Talk Health", which was organized by the Sadad Charity Society and the Sadad Sports Centre on Saturday 27th April 2019. Bapco was represented at that event by Mr. Jassim Al Majed, Senior Health Promotion Officer who gave presentations on public hygiene and the key importance of being healthy. A large number of participants benefitted from the activity and expressed their thanks and gratitude for BAPCO's valued support. "Bapco's initiative is part of its leading role in establishing and spreading occupational health & safety culture, and its continuous mission in fostering the occupational safety not only in company premises but the community as a whole", said Manager Medical Services, Manager Wellbeing Project 2020 Dr. Spyridon Trous. "Bapco's participation is in line with its continued endeavours and initiatives aimed at fostering the social partnership and sustainable growth of the Kingdom", Dr. Trous added.

