

## Visit to Centralised Utility Facilities, Gebeng

OIL, GAS AND MINING TECHNICAL DIVISION



by Ir. Ahmad Rafidi bin Mohayiddin

**THE** Oil, Gas and Mining Technical Division (OGMTD) had organised a half-day technical visit to PETRONAS Gas Bhd (PGB)'s Centralised Utility Facilities (CUF) Plant in Gebeng, Kuantan, Pahang, on 22 May 2010. A total of 20 participants comprising IEM members and the Secretariat staff took part in the visit.

On hand to welcome the participants were CUF's Asset Manager Tn. Hj. Ahmad Hasbullah bin Hassan and Public Relations Executive Cik Syuhada Shamsudin.

A short welcoming remark by Tn. Hj. Ahmad Hasbullah followed soon after. He conveyed CUF's appreciation for IEM's visit and hoped that the presence of IEM members could further spur the interest of the many young engineers at CUF to be active in IEM. He pointed out that many engineers at the CUF plant were relatively young and below 34 years old. However, the majority of them were not around that day as it was a Saturday, while others were involved in CUF's internal sports event at another location. He also conveyed the Plant Manager's apology for his absence due to a prior engagement.

Participants were then shown a video of PGB. The video chronicled, among others, the history of PGB, its business activities, the main divisions of the company and its contribution to the people and the environment. There was also a segment showing how gas was being transported from offshore fields, processed at the gas processing plants and further transported via pipelines throughout the Peninsular Gas Utilisation (PGU) system that spans across the whole of Peninsular Malaysia. As such, PGB is organised into three main divisions, the Plant Operations Division (POD), Transmission Operation Division (TOD) and Centralised Utility Facilities Division (CUFD) to realise its business vision of becoming a 'World Class Gas and Utilities Company'.

CUF's Shift Supervisor, En. Shazwan Saleh then engaged the participants in a lively briefing session on the technical aspects of the CUF Plant. In summary, he explained about the four main systems of the plant, namely, the COGEN system, the Demineralised Water system, the Cooling Tower system and the Nitrogen Generation system. The systems produce products such as industrial gases, cooling water, electricity, demineralised water and steam to customers within the Gebeng Petrochemical Complex.

CUF's customers include the nearby Propane Dehydrogenation (PDH), BASF, Central Emergency Fire Services (CEFS), Kaneka, MOX, Polyplastic and Industrial Gases plants. CUF also exports electricity to the TNB grid. Each



Welcoming remarks by Tn. Hj. Ahmad Hasbullah



Technical briefing by En. Shazwan



IEM participants



Visit to the control room



A group photo

customer takes in various utilities from CUFG but not necessarily all of the utilities. The technical briefing attracted many questions from the participants and was very well handled by En. Shazwan and Tn. Hj. Ahmad Hasbullah.

A short tour of the CUFG plant was organised subsequently along the allocated 'Green Zone' where the bus could pass through and the participants would not need to don the full Personnel Protective Equipment (PPE). The participants were later taken to the Main Control Building to see up-close the Plant's Distributed Control System (DCS) where numerous data was being monitored by the personnel on a 24-hour shift rotation. En. Shazwan continued to accompany and brief the participants with help from Cik Syuhada and En. Sani Abdul Salaam. The participants were also shown the overall schematic of the CUFG Plant and the laboratory where samples were analysed on a regular basis to ensure that CUFG's products meet their customers' specifications.

The visit had achieved OGMTD's objectives of promoting the oil and gas industry to the IEM members, increasing the members' knowledge of the industry and creating networking opportunities between IEM members and industry players. ■

## 1SUDOKU Centerpiece "2" by Mr. Lim Teck Guan

About the puzzle:

In this Sudoku variant, only 1 number is given as clue, thus the name 1Sudoku. The rest of the clues are given in the numbered cages (the dotted frame encompassing 2 or more squares). You are to search for the right combinations to fit the total for the cages and end up with a Sudoku Grid, the 9 by 9 composite of squares where there is no repeat of the number 1 to 9 in every Row, Column or Block.

Fill in the remaining 80 squares with single digits 1-9 such that there is no repeat of the digit in every Row, Column and Block. The number at the top left hand corner of the dotted cage indicates the total for the digits that the cage encompasses.

For tips on solving, visit [www.1sudoku.com.my](http://www.1sudoku.com.my) © Twin Tree Publishing

Answer is in the following pages of this edition.

17		9	23	17	10	20		15
13	15	9					12	3
			13		11	13		
	18		10	1				15
6	7			10		15	10	
		20	19		20			
16	11					14		13



## Protection Technologies Injection Systems

Whether for restoring structural integrity or for sealing cracks and surfaces against the ingress of water, MC-Bauchemie – the leading supplier and expert in this area – offers proven Injection Systems to suit your project requirements.

- Waterproofing of Structures
- Strengthening of Structures
- Sealing against Water Ingress
- Foundation Stabilisation



Your Partner in Construction for:

- Injections
- Concrete Repair & Protection
- Waterproofing
- Industrial Flooring
- Concrete Admixtures
- Tile-fixing Systems
- Skimcoats & Renders

MC Bauchemie (M) SDN BHD  
38-1&2, Jalan SS2/61 • 47300 Petaling Jaya  
Selangor Darul Ehsan • Malaysia  
Tel: 03 - 7877 1232 • Fax: 03 - 7877 0911  
[enquiry@mc-bauchemie.com.my](mailto:enquiry@mc-bauchemie.com.my) • [www.mc-bauchemie.com](http://www.mc-bauchemie.com)