

## The 16th Kuwait-Japan Joint Symposium

The 16th Kuwait-Japan Joint Symposium was held on January 13 and 14, 2015 at Jumeirah Beach Hotel Kuwait, jointly hosted by Kuwait Institute for Scientific Research (KISR), Kuwait National Petroleum Company (KNPC) and Japan Petroleum Institute (JPI), together with JCCP. The symposium has been held annually in Kuwait, initially with only KISR as partner, but KNPC joined as a participant from the 5th symposium and as a co-organizer from the 11th symposium. Owing to these developments, the symposium has become an unparalleled forum that covers a broad scope of issues, from catalyst research to refinery operations.

The Japanese side captured the interest of the Kuwaiti side with presentations of technical papers and practical knowledge such as the troubleshooting of actual corrosion cases in processing facilities in the refinery and procedures for operational optimization.

On the first day of the symposium, Mr. Faisal Al-Qattan from Mina Abdullah Refinery, KNPC, Dr. Meena Marafi, Executive Director of KISR, and Mr. Shigeru Yamamoto, First Secretary at the Japanese Embassy in Kuwait, gave opening addresses as the guests of honor, followed by words of greetings from Mr. Masaya Tsukidate, General Manager of the Technical Cooperation Department at JCCP, and Dr. Wataru Ueda, Chairman of JPI.

The symposium featured 18 presentations—two keynote speeches and 16 presentations—in five sessions. Total attendance, including the speakers, reached 120 people.

The names of the Japanese speakers and their presentation themes are shown below (in random order).

- (1) Dr. Wataru Ueda, Department of Material & Life Chemistry, Kanagawa University Presentation title: "Catalytic selective oxidation and
  - Presentation title: "Catalytic selective oxidation and its mechanism over high dimensionally structured Mo<sub>3</sub>VOx"
- (2) Prof. Atsushi Muramatsu, Institute of Multidisciplinary Research for Advanced Materials, Tohoku University Presentation title: "MFI Zeolites Synthesis with Different Acidic Properties for DTO Reaction"
- (3) Dr. Shinichi Takasaki, Venture Academia Presentation title: "Evaluations of Neutralizing



Dr. Meena Marafi, Executive Director of KISR, and Dr. Wataru Ueda, Chairman of Japan Petroleum Institute

- Amines for Corrosion Control in the Overhead of Crude Distillation Units"
- (4) Mr. Taku Maeda, Central Technical Research Laboratory, JX Nippon Oil & Energy Corporation Presentation title: "Development of catalyst system for aromatics production from fuel oil"
- (5) Mr. Eiki Nagashima, Engineering Technology Division, Engineering Unit, Toyo Engineering Corporation
  - Presentation title: "Trend of Corrosion Under Insulation (CUI) Assessment and Application to a Commercial Plant"
- (6) Mr. Eiji Kawai, Refinery, Petrochemical & New Energy Process Engineering Unit, Chiyoda Corporation
  - Presentation title: "SPH (Slurry Phase Hydrocracking)
    Process as a cutting-edge upgrader for upcoming
    diesel demand in not-too-distant future"

News of the symposium was distributed worldwide in English and Arabic via Kuwait News Agency (KUNA), and was also featured in seven local Arabic newspapers (*Al-Anba*, *Al-Shahid*, *Al-Wasat*, *An-Nahar*, *Ar-Ray*, *As-Sabah* and *As-Siyasah*).

The symposium underlined the awareness of Kuwait's strong interest and expectations for Japan's technologies, and of the role of JCCP activities in cooperative ties established with Kuwait through the concerted efforts of various Japanese institutions.

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Day 1 Tuesday 13/1/2015			
9:00 – 9:45	Opening Addresses		
	Mr. Faisal Al-Qattan. Mina Ahmadi Refinery, Kuwait National Petroleum Company		
	Mr. Shigeru Yamamoto, Commercial Attaché, The Japan Embassy in Kuwait		
	Dr. Wataru Ueda, President, Japan Petroleum Institute		
	Mr. Masaya Tsukidate, General Manager, Te	Mr. Masaya Tsukidate, General Manager, Technical Cooperation Department, JCCP	
	Dr. Meena Marafi, Executive Director, Kuwa	it Institute for Scientific Research	
9:45 – 10:30	Keynote Presentation 1: "Corrosion and Equ Prospective," <b>Dr. Abdul Hameed Al-Hash</b> e	·	
10:30 - 10:45	Coffee Break		
Session 1: Failure Investigation <chairperson: al-rabiah,="" dr.="" hassan="" k<="" td=""><td><chairperson: al-rabiah,="" dr.="" hassan="" kisr=""></chairperson:></td></chairperson:>		<chairperson: al-rabiah,="" dr.="" hassan="" kisr=""></chairperson:>	
10:45 – 11:10	Presentation 1: Corrosion Challenge in ARD <b>Kethireddy</b> , KNPC, MAA	Fractionator Overhead System, Laxma Reddy	
11:10 – 11:35	Presentation 2: "External Corrosion of Tubes in Hydrocracker First Stage Reactor Effluent / H2S Stripper Feed Breech-Lock Heat Exchanger," Mansour Al-Ghanem, KNPC, MAB		
11:35 – 12:00	Presentation 3: "Failure of Vessel Trim Line Due to Under Deposit Corrosion in Atmospheric Residue Desulfurization Unit," <b>Nishant Kumbhare</b> , KNPC, MAB		
12:00 – 12:25	Presentation 4: "Assessment of Methanator Temperature Excursion," <b>Bader Al-Harbi</b> , K	Vessel In Hydrogen Manufacturing Unit After NPC, MSH	
12:25 – 1:15	Prayer & Lunch Break		
Session 2: Corrosion Management & Control		<chairperson: al-mazeedi,="" dr="" hanaa="" kisr=""></chairperson:>	
1:15 – 1:40	Presentation 5: "Evaluations of Neutralizing Amines for Corrosion Control in the Overhead of Crude Distillation Units," <b>Dr. Shinichi Takasaki</b> , Venture Academia		
1:40 – 2:05	Presentation 6: "Trend of Corrosion Under Insulation (CUI) Assessment and Application to a Commercial Plant," <b>Eiki Nagashima</b> , Toyo Engineering Corporation		
2:05 – 2:30	Presentation 7: "Challenges in Corrosion Management in Ageing Petroleum Refineries," Naser Al-Sebaii, KNPC, MSH		
2:30 – 2:55	Presentation 8: "A Novel Rig for Investigating the Susceptibility of Metals/Alloys to Stress Corrosion Cracking in Flowing Fluid," <b>Dr. Rihan Omar Rihan</b> , KISR		



KISR, JPI and the symposium secretariat

## Day 2 Wednesday 14/1/2015 Session 3: Green Initiatives in Refining Industry < Chairperson: Prof. Atsushi Muramatsu, Tohoku University> Presentation 9: "Investigations on Parameters Controlling the Production of Diesel Fuel," 9:00 - 9:25Dr. Abdulazim Marafi, KISR Presentation 10: "SPH (Slurry Phase Hydrocracking) Process as a cutting-edge upgrader — for 9:25 - 9:50upcoming diesel demand in not-too-distant future," Eiji Kawai, Chiyoda Corporation 9:50 - 10:15Presentation 11: "Crossflow Microfiltration of Synthetic Oily Effluent using Multi Channel Ceramic Membrane," Dr. Yousef Alanezi, PAAET, Kuwait 10:15 - 10:30 Coffee Break Session 4: Advancements in Catalyst Development <Chairperson: Mr. Faisal Al-Qattan, KNPC> 10:30 - 11:15 Keynote Presentation 2: "MFI Zeolites Synthesis with Different Acidic Properties for DTO Reaction," Prof. Atsushi Muramatsu, Tohoku University 11:15 - 11:40 Presentation 12: "Role of Catalyst Preparation and Support Composition on Hydrodesulfurisation," Dr. Mohan Rana, KISR 11:40 - 12:05 Presentation 13: "Development of catalyst system for aromatics production from fuel oil," Taku Maeda, JX Nippon Oil & Energy Corporation 12:05 - 1:15 Prayer & Lunch Break Session 5: Oxidative Refining Processes <Chairperson: Dr. Mohan Rana, KISR> 1:15 - 1:40 Presentation 14: "Catalytic selective oxidation and its mechanism over high dimensionally structured Mo<sub>3</sub>VOx," **Prof. Wataru Ueda**, Kanagawa University 1:40 - 2:05Presentation 15: "CO and CH<sub>4</sub> oxidation of unsupported and supported CuCeO<sub>2</sub>" Dr. Ali Bumajdad, Kuwait University 2:05 - 2:30Presentation 16: "Current Research Progress in Oxidative Desulfurization of Oil Fuels Using Peroxides," Dr. Muhieddine A. Safa, KISR Closing Remarks 2:30



JPI delegation in front of Kuwait Towers