

# The 20<sup>th</sup> Kuwait/Japan Joint Symposium “Advancement in Petroleum Refining Industries”



07-08 February 2022

## Scientific Program and Agenda

Organized by:



Japan Cooperation  
Center, Petroleum



Japan Petroleum  
Institute



Kuwait National  
Petroleum Company



Day 1		Monday, 7 <sup>th</sup> February, 2022	
<b>Opening Address</b>		<b>Committee Chair Dr. Abdulazim Marafie</b> , Kuwait Institute for Scientific Research, Kuwait	
9:00 – 9:45	<b>Dr. Mane AlSudairawi</b> , Acting Director General, Kuwait Institute for Scientific Research, KISR		
	<b>His Excellency Mr. Yasunari Morino</b> , the Japanese Ambassador in State of Kuwait		
	<b>Mr. Eiji Hiraoka</b> , Senior Executive Director, Japan Cooperation Center Petroleum, JCCP		
	<b>Mr. Takashi Matsushita</b> , President of JPI, Representative Director, Executive Vice President of Idemitsu Kosan Co., Japan		
		<b>Eng. Shaimaa Ameen</b> , Team Leader, Research and Technology, Kuwait National Petroleum Company, Kuwait	
<b>Session 1 Key note lectures</b>		<b>Chairperson; Dr. Yasser Boghdadi</b> , Organization of Arab Petroleum Exporting Countries, Kuwait	
9:45 – 10:10	<b>Kuwait Keynote lecture</b> <b>Effect of Blending on Viscosity and Hydrotreating Reactivities of Atmospheric Residues</b> <b>Xiaoliang Ma<sup>1</sup>, Adel AlMutairi<sup>1</sup>, Abdulazeem M.J. Marafi<sup>1</sup>, Qingyan Cui<sup>2</sup>, Isao Mochida<sup>3</sup></b> , Kuwait Institute for Scientific Research <sup>1</sup> , Kuwait, Institute for Materials Chemistry and Engineering, Kyushu University <sup>2</sup> , Japan, Kyushu Environmental Evaluation Association <sup>3</sup> , Japan		
	10:10-10:35	<b>Japan Keynote lecture:</b> <b>Future Trends in Petroleum Industry</b> <b>Takashi Matsushita</b> , The Japan Petroleum Institute, JPI, Japan	
		<b>10:35-10:45 Break</b>	
<b>Session 2 “Advancement in Refining Processes”</b>		<b>Chairperson; Prof. Keiichi Tomishige</b> , Tohoku Univ., Japan	
10:45-11:05	<b>Presentation 1:</b> <b>Upgrading Kipic’s Refinery Facilities to Meet The International Diesel Market Specifications</b> <b>Abdulwahab Ben Nasser</b> , Kuwait Integrated Petroleum Industries Company, Kuwait		
11:05-11:25	<b>Presentation 2:</b> <b>Chelating Extraction of Valuable Metals (Ni, V, and Mo) from Spent Hydroprocessing Catalysts using an Aminopolycarboxylic Acid.</b> <b>Ashish Pathak, Hanadi Al Sheeha, R. Navvamani, Sakeena Al Sairafi</b> , Kuwait Institute for Scientific Research, Kuwait		
11:25-11:45	<b>Presentation 3:</b> <b>New Catalytic Processes – KIPIC ARDS Challenges</b> <b>Abdulrahman Mubarak Alajmi, and Najd Saad AlAjmi</b> , Kuwait Integrated Petroleum Industries Company, Kuwait		
		<b>11:45- 12:10 Praying Time</b>	

<p>12:10-12:30</p> <p>12:30-12:50</p> <p>12:50-1:10</p>	<p><b>Presentation 4:</b>  <b>Effect of Coker Gas Oil on the Performance of First-Stage Catalysts of a Two-Stage Hydrocracker: A Comparative Study.</b>  <b>Rashed Bouresli, Tahani Alshammari, Sakeena ALSairafi, Mubarak AlMujaible, and Jamal AlFadli,</b> Kuwait Institute for Scientific Research, Kuwait.</p> <p><b>Presentation 5:</b>  <b>Toluene Disproportionation over Modified ZSM-5 to Enhance Para-Selectivity.</b>  <b>Jumanah Ghanim,</b> Kuwait National Petroleum Company, Kuwait</p> <p><b>Presentation 6:</b>  <b>Acid-Base Properties of Modified Activated Carbon</b>  <b>Navvamani Raajasekaran, Mohan S. Rana, Vinoba Mari, Hanadi AlSheeha and Adel AlEnezi ,</b>Kuwait Institute for Scientific Research, Kuwait</p>
<p><b>1:10-1:20 Break</b></p>	
<p><b>Session 3</b>  <b>“Refining Industry Supportive processes”, Part-1</b></p>	<p><b>Chairperson; Ms. Hanadi Al Sheeha,</b> Kuwait Institute for Scientific Research, Kuwait</p>
<p>1:20-1:40</p> <p>1:40-2:00</p>	<p><b>Presentation 7:</b>  <b>Shortening of the Regular Repair Process-Dramatically Reduce Workload Required for Loop Tests</b>  <b>Hirokazu Kamei,</b> Azbil Corporation., Ltd., Japan</p> <p><b>Presentation 8:</b>  <b>Development of a Multi-Dimensional Gas Chromatograph Method to Screen Sulfur Species in Gas Oils</b>  <b>Hassan Al-Rabiah, Latifa Al Ostad, Abdullwahab Al Hendi, Tahani AlShamary, Hisham Al Henayyan, Roaya Khazemi,</b> Kuwait Institute for Scientific Research, Kuwait</p>

Day 2

Tuesday, 8<sup>th</sup> February, 2022

**Session 4**  
**“Green Initiatives in Refining Industry”**

**Chairperson; Ms. Anoud AlFahad, Kuwait National Petroleum Company, Kuwait**

8:30 - 8:50

**Presentation 9:**

**Utilization of CO<sub>2</sub> in Petrochemical Industry.**

**Yasser Boghdadi, Organization of Arab Petroleum Exporting Countries, Kuwait**

8:50 - 9:10

**Presentation 10:**

**Catalytic CO<sub>2</sub> Conversion to Fuel and Petrochemical Raw Materials**

**Hiroyuki Kamata, IHI Corporation, Japan**

9:10 - 9:30

**Presentation 11:**

**Synthesis of Zeolitic Imidazolate Frameworks for Efficient CO<sub>2</sub> Capture.**

**Vinoba Mari, A. AlOmair, Y. Alqaheem, Afnan A. Ali, Hanadi AlSheena, Kuwait Institute for Scientific Research, Kuwait**

9:30 - 9:50

**Presentation 12:**

**CO<sub>2</sub> Capture from Refining for EOR Project**

**Eman Ahmad Hajeyah, Kuwait National Petroleum Company, Kuwait**

9:50 - 10:10

**Presentation 13:**

**Membranes for Oxygen Enrichment in Petroleum Refining: A case Study.**

**Yousef AlQaheem, Kuwait Institute for Scientific Research, Kuwait**

**10:10 – 10:20 Break**

**Session 5**  
**“Advancement in Corrosion Mitigation”**

**Chairperson; Prof. Shinji Okazaki, Yokohama National Univ., Japan**

10:20-10:40

**Presentation 14:**

**Application Corrosion Evaluation System to Visible Inspection in Refinery**

**Koji Tomita, Idemitsu Kosan Co., Ltd., Japan**

10:40-11:00

**Presentation 15:**

**Modelling of Biofilm Growth of Metallic Alloys in a Nano-meter Scale.**

**Khaled Habib, Kuwait Institute for Scientific Research, Kuwait**

11:00-11:20

**Presentation 16:**

**Innovative Inspection Service for Storage Tank Bottom Plate (Screening Inspection by Electrical Potential Drop Method and Online Automated UT Robotic Inspection)**

**Keisuke Arita, Atlas Co., Ltd., Japan**

11:20-11:40

**Presentation 17:**

**The Pitting Corrosion Resistance of 316 Stainless Steel, 2205 Duplex Stainless Steel and a CoCrFeNiNb High Entropy Alloy.**

**Mohammad AlHashem and Ahmad Alsalman, Kuwait Institute for Scientific Research, Kuwait**

11:40-12:00	<p><b>Presentation 18:</b>  <b>Ultrasonically Induced Cavitation Corrosion of UNS S32205 Duplex Stainless Steel and UNS S32750 Super Duplex Stainless Steel in Seawater.</b>  <b>Ahmad Al Salman and Mohammad Alhashem,</b> Kuwait Institute for Scientific Research, Kuwait</p>
<b>12:00 -12:20      Prayer Time</b>	
<b>Session 6</b> <b>“Refining Industry Supportive processes”, Part-2</b>	<b>Chairperson; Ms. Hanadi Al Sheeha,</b> Kuwait Institute for Scientific Research, Kuwait
12:20-12:40	<p><b>Presentation 19:</b>  <b>Prediction of Product Composition Using Machine Learning in Catalytic Cracking of Polycyclic Aromatic Hydrocarbons</b>  <b>Iori Shimada,</b> Shinsyu Univ., Japan</p>
12:40-1:00	<p><b>Presentation 20:</b>  <b>Quantitative Analysis of Crude Oils using Fourier Transform Near-Infrared Spectroscopy (FT-NIR)</b>  <b>Mustafa A Al-Shamali, Z. Rashid, M. Sebaiti, R. Al-Kazemi,</b> Kuwait Institute for Scientific Research, Kuwait</p>
<b>Session 7</b> <b>1:00-1:10</b>	<b>Poster Session</b>
1:10 -2:10	<b>Video “Celebrating the 20<sup>th</sup> Anniversary of Kuwait-Japan Joint Symposium”</b> <b>Closing &amp; Remarks</b>





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