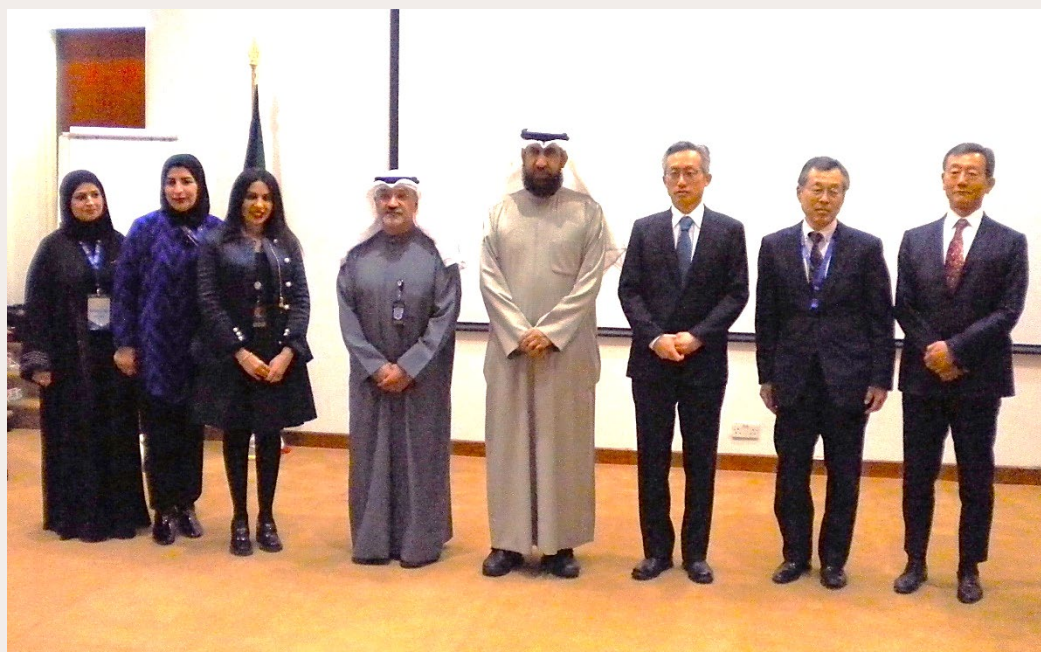


第21日本-クウェート合同シンポジウム開催

2024年2月5、6日の両日、クウェート科学研究所（Kuwait Institute for Scientific Research : KISR）において、KISR、KNPC（クウェート国営石油精製会社）、石油学会（JPI）、JCCPの4社共催で「第21日本-クウェート合同シンポジウム」を開催しました。

初日のオープニングではDr. Meshan M. Al-Otaibi KISR 総裁代行、森野泰成・駐クウェート日本国大使、JCCP 増田特別参与、また JPI を代表して村松 JPI 会長/東北大学教授が挨拶を行い、120名を超える KISR 研究者、KNPC、現地日本企業等からの出席を得て盛大なシンポジウムとなりました。

今回のテーマは、「石油精製産業の発展（Advancement in Petroleum Refining Industries）」で、触媒技術からカーボンニュートラルまで幅広い分野に亘り19件（内、日本からオンライン参加1件を含む5件）の講演とともに活発な質疑応答等が交わされました。



The 21st Kuwait/Japan Joint Symposium
“Advancement in Petroleum Refining Industries”



05-06 February 2024
Scientific Program and Agenda

The 21st Kuwait/Japan Joint Symposium

“Advancement in Petroleum Refining Industries”

05–06 February 2024

Day 1 Monday, 5th February, 2024	
Opening Address	<p>Dr. Dawoud Bahzad, Acting Executive Director (AED), Petroleum Research Center, Kuwait Institute for Scientific Research, KISR</p>
9:00 – 9:50	<p>Dr. Meshan M. Al-Otaibi, Acting Director General, Kuwait Institute for Scientific Research, KISR</p> <p>His Excellency Mr. Yasunari Morino, Ambassador Extraordinary and Plenipotentiary of the Embassy of Japan in Kuwait</p> <p>Mr. Hitoshi Masuda, Special Counselor, Japan Cooperation Center Petroleum and Sustainable Energy, JCCP, Japan</p> <p>Dr. Atsushi Muramatsu, President of JPI, Deputy Director (Soft Materials), Tohoku University, Japan</p>
Session 1 Key note lectures	<p>Chairperson; Dr. Hamza Al Bazzaz, Kuwait Institute for Scientific Research, Kuwait</p>
9:50 – 10:15	<p>Kuwait Key note lecture:</p> <p>Prospective Role of Oil-Producing Nations in the Hydrogen Economy. Faisal Al Humaidan, Kuwait Institute for Scientific Research, KISR, Kuwait</p>
10:15-10:40	<p>Japan Key note lecture:</p> <p>JPI direction along carbon neutrality and introduction of our research on zeolite catalysts Atsushi Muramatsu, President of JPI, Japan</p>
<p>10:40 - 10:50 Break</p>	
Session 2 “Green Initiatives in Refining Industry”	<p>Chairperson; Dr. Naoya Kasai, Yokohama National University, Japan</p>
10:50-11:10	<p>Presentation 1:</p> <p>legal framework of EU energy transition, and effect on fuels industry Maarten Van Haute, Kuwait Petroleum Research and Technology, Netherlands (online)</p>
11:10-11:30	<p>Presentation 2:</p> <p>Carbon dioxide Utilization, Emission Reduction, and Recycling Hosam Jamal, Kuwait National Petroleum Company, KISR, Kuwait</p>
11:30-11:50	<p>Presentation 3:</p> <p>Development of Hydrogen/Ammonia- fired Gas Turbine for Carbon Neutrality Sosuke Nakamura, Gas Turbine Engineering Department, GTCC Energy Systems, Mitsubishi Heavy Industries. Ltd., Japan</p>

11:50-12:10

Prayer Time

12:10-12:30

Presentation 4:

Electrocatalytic CO₂ Conversion to Value-Added Products

Mari Vinoba, Narjes Abul Ghaloum, R. Bouresli, R. Navvamani, Hanadi M. Al-Sheeha, Reem Al Fazran and Mohan S. Rana, Kuwait Institute for Scientific Research, KISR

12:30-12:50

Presentation 5:

Feasibility Study of Solar PV Implementation at Australian University

Suad Al Radwan, Petroleum Engineering, Australian University, Kuwait

12:50-1:10

Presentation 6:

Spirobifluorene based porous organic polymers for H₂ and CO₂ adsorption

Jacob Samuel, Aseel Al-Banna, Mustafa Al-Shamali and Rashed Al-Zufairi, Kuwait Institute for Scientific Research, KISR

1:10-1:45

Posters

Day 2

Tuesday, 6th February, 2024

Session 3
“Advancement in
downstream processes”

Chairperson; Dr. Hassan Al Rabiah, Kuwait Institute for Scientific Research, Kuwait

8:30 - 8:50

Presentation 7:

Zeolite membrane for hydrocarbon separation by molecular sieving effect

Motomu Sakai, Waseda University, Japan (online)

8:50 - 9:10

Presentation 8:

A Biodegradable Leaching Agent for Recycling Valuable Metals from Refinery Spent Hydroprocessing Catalysts

Ashish Pathak, Hanadi Al-Sheeha, Sakeena Al-Sairafi, R. Navvmani, Hanan M. Al-Enezi, and Mohan S. Rana, Kuwait Institute for Scientific Research, KISR

9:10 - 9:30

Presentation 9:

Development of FCC catalyst for shifting fuel oil demand and environmental protection

Ryo Suzuki, Research & Development Center, Cosmo Oil Co., Ltd., Japan

9:30 - 9:50

Presentation 10:

Dynamics of Crude Oils and Maltenes Confined to Engineered Nanoporous Silica Catalyst Proxies

Salim Ok, Kuwait Institute for Scientific Research, KISR

9:50 - 10:10

Presentation 11:

Effect of Additives on Ultra Low Sulfur Diesel Lubricity

Rashed Bouresli, Shibu Jose, Ravindranath Kanhirodan, Bader Al-Wakaa, Jaimes George, and Amani Mohammed, Kuwait Institute for Scientific Research, KISR

10:10 - 10:30

Presentation 12:

Influence of Gasoil End-Cutting Temperature on HDS Reactivity for ULSD Production

Ahmed M. Al-Otaibi, Fatma Al-Attar and Xiaoliang Ma, Kuwait Institute for Scientific Research, KISR

10:30 - 10:40 Break

Session 4
"Maintainability and Plant
Integrity"

**Chairperson; Ali Al Shatti, Research & Technology- Department MAB, Kuwait
National Petroleum Company, KNPC, Kuwait**

10:40 - 11:00

Presentation 13:

Amine Absorber: Troubleshooting Amine Carry Over and High DP Issue

**Naser Alenezi and Suresh Ramakrishnan, Kuwait National Petroleum Company
-MAA Refinery**

11:00 - 11:20

Presentation 14:

**Leakage-type-based Analysis of Accidents and Advanced Maintenance
Technology**

Naoya Kasai, Yokohama National University, Japan

11:20 - 11:40

Presentation 15:

**Delayed Coker Unit-20 Coke Drum Keyhole Thermo-Mechanical Fatigue Life Span
Enhancement and Unified SD structure and manpower allocation.**

**Ahmad Ghalib Abdullateef, Fahad Jassim Ben Awadh, and Mohammad
Albdulateef, Kuwait National Petroleum Company**

11:40 - 12:00

Presentation 16:

KNPC MAB Maintenance Department Successful Stories

Abdullah Bin Jumaah, Kuwait National Petroleum Company, Mina Abdullah Refinery

12:00 -12:20

Prayer Time

12:20-12:40

Presentation 17:

**Trouble Shooting of Reaction Furnace Burner in Sulphur Recovery Unit of Acid
Gas Removal Plant in KNPC-MAA Refinery**

Saad Al-Mutairi, Kuwait National Petroleum Company -MAA Refinery

12:40-1:00

Presentation 18:

Design of an In-Pipe Inspection Robot for Pipelines' Inspection

**Adel Younis, Ibrahim Qasem, Meshari AlAbbasi, Laila AlAnazi, Ahmad abbas and
Aseel Abdullah, Mechanical Engineering, Australian University, Kuwait**

1:00-1:20

Presentation 19:

**Complete Replacement of Radiant Tubes in Reactors Feed Heaters in
Hydrocracker Unit**

Ahmad Tareq Alfoudery , Kuwait National Petroleum Company

1:20 -1:40 Closing & Remarks