

## Researcher Dispatch Program

### Completed Programs

| 年度   | 対象国          | 派遣先       | 研究者氏名   |
|------|--------------|-----------|---|
| 2007 | Saudi Arabia | KFUPM     | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi,<br>JGC Catalysts and Chemicals expert                     |
| 2008 | Saudi Arabia | KFUPM     | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi,<br>JGC Catalysts and Chemicals expert                     |
|      |              |           | Dr. Takeshige Takahashi, Professor,<br>Kagoshima University                     |
| 2009 | Saudi Arabia | KFUPM     | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Katsuomi Takehira, Professor<br>Hiroshima University                        |
| 2010 | Saudi Arabia | KFUPM     | Dr. Hidehiro Higashi, Doctor of engineering                                     |
|      |              |           | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Katsuomi Takehira, Professor<br>Hiroshima University                        |
|      |              |           | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2011 | Saudi Arabia | KFUPM     | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Katsuomi Takehira, Professor<br>Hiroshima University                        |
|      |              |           | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2012 | Saudi Arabia | KFUPM     | Dr. Hideshi Hattori, Professor Emeritus,<br>Hokkaido University                 |
|      | Kuwait       | KISR      | Dr. Sachio Asaoka, Professor<br>Kitakyushu University                           |
|      |              |           | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2013 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering  |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2014 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering  |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2015 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering  |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2016 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering  |
|      | Kuwait       | KISR/KNPC | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2017 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering  |
|      | Kuwait       | KISR      | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2018 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering<br>Consulting board of Japan Petroleum |
|      | Kuwait       | KISR/KNPC | Dr. Hidehiro Higashi, Doctor of engineering                                     |
| 2019 | Saudi Arabia | KFUPM     | Dr. Sachio Asaoka, Doctor of engineering<br>Consulting board of Japan Petroleum |
|      | Kuwait       | KISR/KNPC | Dr. Hidehiro Higashi, Doctor of engineering                                     |

(Total: Saudi Arabia = 18、Kuwait = 14)

## Completed Programs

| FY              | Country      | Name / Position   | Organization  | Accepting organization  | Period                        | Theme   |
|-----------------|--------------|---|---|---|-------------------------------|---|
| 2018<br>(trial) | Saudi Arabia | Dr. Takuya Yoshikawa, Assistant Professor   | Faculty of engineering, Hokkaido University   | Saudi Aramco  | Nov.2~Jan.22<br>Jan.22~Feb.21 | Production of chemicals such as BTX from heavy oil by a pyrolysis reaction  |
|                 |              | Dr.Takao Masuda, Dean of Faculty of Engineering, School of Engineering  | Faculty of Engineering, Hokkaido University   | Saudi Aramco  | Nov.6~Nov.8                   | Study sessions for catalyst research and development(5 themes)<br><ul style="list-style-type: none"> <li>•Upgrading hardly treatable carbonaceous resources with iron-based oxidecatalysts by chemical reaction engineering approach</li> <li>•Zeolite Framework as Matrix for Nano-particles of Active Species</li> <li>•Regeneration of Coked Catalysts and Decay of Catalyst Matrix Caused by Sintering</li> <li>•Measurement and Evaluation of Diffusivity of Single and/or Binary compounds in Nano-and Meso-porous Materials in Gas and Liquid Phases</li> <li>•Uniqueness of Downsized Catalytic Zeolite Crystals in Viewpoint of Chemical Reaction Engineering</li> </ul> |
| 2019            | Saudi Arabia | Dr. Satoshi Suganuma, Senior Lecturer   | Center for Research on Green Sustainable Chemistry, Tottori University                    | King Abdullah University of Science and Technology (KAUST)<br>King Fahd University of Petroleum and Minerals (KFUPM)<br>Saudi Aramco R&D Center | Nov.6 –Nov.12                 | Novel conversion process of vacuum gas oil (VGO) by dealkylation of alkyl polycyclic aromatics without cracking   |
|                 |              | Dr. Tatsuya Shinagawa, Assistant Professor  | Department of Chemical System Engineering, School of Engineering, The University of Tokyo | Same as above   | Nov.6 –Nov.13                 | Research at Catalysis for Energy Conversion (CatEC) lab at The University of Tokyo: Bridging conventional and sustainable energy conversions  |
| 2020            | Saudi Aramco | Canceled due to the spread of Coronavirus infection   |   |   |                               |   |
| 2021            | KISR         | Canceled due to the spread of Coronavirus infection<br>(As an alternative to sending students abroad, an online workshop for young researchers was held with two participants from the PRDC of the Iraqi Ministry of Oil and four Japanese graduate students. Trial research themes were presented and a Q&A session was held to deepen mutual exchange among the researchers.) |   |   |                               |   |
| 2022            | KFUPM        | Canceled due to the spread of Coronavirus infection<br>(An online workshop for young researchers was held with five participants from KFUPM and three Japanese researchers. Their research themes were presented and a Q&A session was held to deepen mutual exchange among the researchers.)   |   |   |                               |   |