

TR-4-14 Upgrading Processes of Heavy Oil
May 13 – May 30, 2014

Lecturer: Takaaki Yuasa

Content: Outline of Upgrading of Heavy Oil;
Hydrotreating and Hydrocracking Catalyst;
Thermal Cracking Process; IGCC Technology and
Selection of Heavy Oil Upgrading Process;
FCC & Resid-FCC Process Technology;
Hydrotreating and Hydrodesulfurization Process
Technology; FCC Catalyst Reaction Theory;
Thermal Cracking (Delayed Coker, Flexi Coker)
Unit and FCC Unit; Operation and Troubleshooting
and Decreasing Effect in Heavy Oil Production;
Developed HDS & FCC Catalyst and Its Theory;
Process and Characteristics of RFCC and VRHDS
Unit; Evaluation Technology and Its Results for
HDS Catalyst & FCC Catalyst; Process Simulator
Practice of FCC Start-up & Operating Trouble Examples;
Linear Programming and Production Planning for Refinery

Site visits: JGC Catalysts & Chemicals Ltd. (Kitakyushu Operation Center);
Nippon Ketjen Co., Ltd. (Niihama Division);
JX Nippon Oil & Energy Corporation (Negishi Refinery)

Countries: Indonesia, Iraq, Kuwait, Libya, Myanmar, Nigeria, Pakistan, Peru, Qatar, Sudan, Vietnam



<11 countries / 15 participants>