

TR-2-12 Upgrading Processes of Heavy Oil
April 9 – April 26, 2012

Lecturer: Takaaki Yuasa

Content: Outline of Upgrading of Heavy Oil;
Hydrotreating and Hydrocracking Catalysts;
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) 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 Units; Evaluation Technology and Its Results
for HDS Catalyst & FCC Catalyst; Process Simulator Practice in FCC Startup;
Linear Programming and Production Planning for Refinery

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

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



<11 countries / 16 participants>