



JCCP NEWS

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In this issue:

JCCP Seminar in Iran	1
JCCP Seminar in Mexico	3
Cooperation with Training Centers in Russia and Kazakhstan	5
Report of the Survey on Downstream Trends in Oil-Producing Countries	8
Upcoming JCCP Regular Courses	10
15,000 Training Participants	11
From Our Participants	11
JCCP Regular Courses Completed June – September 2005	13
Technical Cooperation	
HE The Rector of KFUPM Visits Japan	15
Personnel Changes	16

JCCP Seminar in Iran Heavy Oil Upgrading



Participants of the seminar

Introduction

Iran has nine refineries with a combined capacity to produce 250,000 b/d of gasoline. However, with domestic consumption far exceeding this figure, the country must depend on imports to acquire an additional 150,000 b/d of gasoline. Iran had long wished to address this gasoline shortage problem by renovating its old refinery facilities and introducing new technologies, but lacked expertise in heavy oil cracking technology. Against this background, Iran requested the assistance of JCCP in improving its technologies through the Expert Service (ES) and Study Tour (ST) programs. JCCP agreed to conduct this particular ES program in Tehran, with plans to hold a follow-up ST program in December. Experts dispatched to Tehran included Mr. Hideki Otake from Chiyoda Corporation, Mr. Hidetoshi

Tani from Toyo Engineering Corporation, and Mr. Shigeyoshi Takahashi and myself, Kazuyoshi Kamijyo, from JCCP.

Seminar Overview

The main part of the program was held June 11 to 15 at Tehran Refinery, with each of the Japanese experts and an expert from NIORDC giving presentations on various topics related to heavy oil upgrading. We also held a seminar at Tabriz Refinery on June 18 and at Kermanshah Refinery on June 19.



Discussions during coffee break



At Tehran Refinery



At Kermanshah Refinery

As many as forty participants attended the program. They included members not only from Tehran Refinery, but also from other refineries throughout Iran and the NIORDC head office. As most of the participants were process engineers and project engineers with direct interest in issues concerning technology improvement, the presentations captured their undivided attention. Brimming with questions and comments, their discussions continued even after the presentation sessions and into their coffee breaks. At the end of the seminar, the participants were asked to take a brief wrap-up quiz, the results of which indicated they had gained a

good understanding of the key points of the presentations.

Refinery Visits

On June 18 and 19, we visited Tabriz Refinery and Kermanshah Refinery, respectively. We inspected the facilities, and delivered a brief presentation on JCCP activities as well as an overview of heavy oil upgrading. The plant engineers were most interested in learning how to improve gasoline yield, and asked questions concerning this topic. We realized anew that the problem of gasoline shortage in Iran is being addressed as a company-wide concern.

Impressions of the ES Program

Although our ES program coincided with the Iranian presidential election, the program received a great turnout and finished successfully, owing to the warm support and cooperation of everyone involved. We met some familiar faces from JCCP courses previously held in Japan, and took great pleasure in renewing old friendships. We sincerely hope that this ES program, together with the ST program scheduled for later in the year, will contribute to increased gasoline production in Iran in the future.

We would like to extend our deepest thanks to Mr. Shaker of NIORDC, Mr. Aghabagloo and Mr. Reza of Tabriz Refinery, and Mr. Tabei of Kermanshah Refinery, for their thoughtful and warmhearted hospitality.

<Reported by Kazuyoshi Kamijyo,
Master Lecturer, Training Dept.>



Seminar session

Seminar Location	Lecture Title	Speaker
Tehran Refinery	Introduction of JCCP	Mr. Takahashi (JCCP)
	Upgrading Technology	Mr. Salary (NIORDC)
	Outline of Heavy Oil Upgrading Process	Mr. Kamijyo (JCCP)
	Selection of Heavy Oil Upgrading Process	Mr. Tani (TEC)
	Catalytic Cracking (FCC & RFCC) Process	Mr. Tani (TEC)
	Hydrogen Addition Process	Mr. Otake (Chiyoda)
	Thermal Cracking & Gasification Process	Mr. Otake (Chiyoda)
Tabriz Refinery / Kermanshah Refinery	Introduction of JCCP	Mr. Takahashi (JCCP)
	Outline of Heavy Oil Upgrading Process	Mr. Kamijyo (JCCP)



Mr. Otake



Mr. Kamijyo



Mr. Takahashi



Mr. Tani