

**TR-17-11 Information and Control Systems Utilized in Refineries**  
**November 22 – December 9, 2011**

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**Lecturer: Kazuhiro Suzuki**

**Content:** Petroleum Industry in Japan;  
Outline of Distributed Control System (DCS); Trend  
of Information and Control Systems;  
Process Control Theory; Hands-on Training of  
Process Control; Operation Support System;  
Outline of Alarm Management;  
Modernization of Instrumentation

**Site visits:** Yokogawa Electric Corporation (Mitaka  
Headquarters); JX Nippon Oil & Energy  
Corporation (Marifu Refinery);  
Idemitsu Kosan Co., Ltd. (Chiba Refinery);  
Emerson Japan Ltd. (Mizushima Solutions Center)

**Countries:** Bahrain, Colombia, Indonesia, Iraq, Nigeria,  
Pakistan, Russia, Thailand, Vietnam



*<9 countries / 14 participants>*