



## Managing Aging Plants Japan 2021 Preliminary Conference Timetable

February 18th & 19th 2021

Tokyo Metropolitan Industrial Trade Center - Hamamatsuchokan, Japan

Organized by: KCI Publishing / Material Technology Institute  
As of 10August 2020

Day 1 (18 February)	
9:45-10:00	<b>Opening and Welcome</b> Thijs Elshof, KCI Publishing
Presentations	Moderator: Shinichiro Kanamaru, JGC Corporation
10:00-10:45	<b>Management of Aging Plants and International Competitiveness - Focus on Refineries, Petrochemical Plants, and Power Plants</b> Managing Aging Plants effectively involving strengthened international competitiveness and global warming countermeasures. The presentation will delve into these issues by focusing on the cases of Japanese refineries, petrochemical plants, and power plants. Speaker: Takeo Kikkawa, International University of Japan, Japan
10:45-11:15	<b>Perspectives from overseas operating company (the official title will be received later)</b> Speaker: Pak Togar, Pertamina, Indonesia
11:15-11:45	<b>Coffee Break</b>
Presentations	Moderator: Kiyoo Ichikawa, KCI Publishing
11:45-12:15	<b>Approaches and Challenges in Preventing Deterioration and Improving Mechanical Availability in Aging Plants</b> Taking oil refining and petrochemical plants as an example, this presentation will address the issues that can affect aging plants and discuss the efforts being taken to solve the problems of aging and to prevent operational losses at an appropriate cost. Speaker: Katsunobu Hasegawa, Idemitsu Kosan Co., Ltd., Japan
12:15-12:45	<b>Business Models for Smart Maintenance</b> There are more and more opportunities to make maintenance of new and of aging assets 'smart', so digital and integral. 'Digital' means making full use of digital information processing technology and 'integrated' means across the supply chain and the asset life cycle. Reasons why this is not happening everywhere are sometimes technical, but mostly organizational and economical. There are no incentives to speed up innovation, and many roadblocks that slow it down. The business models of the companies involved, i.e. the way in which the companies, or the various departments involved, are rewarded for what they do, are not aligned towards smart maintenance. This has to change. And it can change. This presentation talks about reasons for this misalignments and transition paths towards smart maintenance and asset management. It is based on projects in the Netherlands with OEMs, contractors and Asset Owners in the machine-building industry, process industry and public infrastructure. Speaker: Prof. Henk Akkermans, World Class Maintenance Foundation and Tilburg University, The Netherlands
12:45-14:00	Lunch
Presentations	Moderator: Masao Nakahara, Asahi Kasei Corporation
14:00-14:30	<b>Engineering Company's Experiences</b> Points to keep in mind for planning and executing large-scale revamp projects during periodic maintenance of overseas plants Speaker: Kimitoshi Sano, JGC Corporation
14:30-15:00	<b>Regular Maintenance (The title will be announced later)</b> Speaker: (Will be announced later)
15:00-15:30	<b>Approaches for Smart Maintenance</b> Introducing the future of maintenance using the latest technology with practical examples from the perspectives of infrastructure maintenance, work quality and work planning Speaker : Toshiyuki Shibuya, Fujitsu Laboratories Ltd.
15:30-16:00	Break
16:00 – 16:30	<b>Paper Session : Case Studies from Aging Plants</b> Chair : Masao Nakahara, Asahi Kasei Corporation
	Experience and management of aging plants at SK Energy Speaker : Jaewoong Kim, SK Energy, South Korea
	Field installation solutions as enablers for functionality of aged critical process equipment as well as for improving performance reliability of new equipment in the petrochemical industry Speaker : Shankar Venkataraman, Schmidt + Clemens GmbH + CO. KG, Germany
	External Corrosion Phenomena and Its Management at Chemical Plant Speaker : Norio Ooshima, Asahi Kasei Corporation
17:00 – 17:30	
17:45 – 20:00	<b>Network Reception</b>

Day 2 (19 February)	
Presentations	Moderator: Masao Nakahara, Asahi Kasei Corporation
9:30-10:00	<p><b>Stress Corrosion at the clad side of a pressure vessel and the risks of using sleeves</b></p> <p>During the design of a PV we consider the carbon steel thickness to take the full load. In the design, we never assume that the clad has taken any stress. In practice, however I have seen brackets welded on the clad, designed to hold strainers up and/or keeping internal piping in place. This leads to stresses in the clad. I have observed stress corrosion in the clad area directly under the bracket. I have experienced stress corrosion in the clad layer creating pitting and full penetration corrosion through the clad into the Carbon Steel. In one case it was decided to place a cylindrical sleeve at the inside of the clad vessel. Again, this sleeve got affected by the same stress and corroded through the pressure vessel.</p> <p>Speaker : Raymond Cordewener, R. Cordewener Management &amp; Consultancy BV, The Netherlands</p>
10:00-10:30	<p><b>Limitations of Standard Corrosion Test Procedures and Practices to Assess Corrosion Integrity of Stainless Steel Infrastructure</b></p> <p>The aim of this presentation is to stimulate a discussion about the application and interpretation of standard corrosion practices and test procedures to assess, rank, and quantify corrosion susceptibility of stainless steel components and infrastructure. Commonly applied test procedures and their limitations will briefly be discussed, with a focus on understanding advantages and drawbacks of ASTM A262, A923, G48, E108, and ISO12732. The effect of cold work and microstructure sensitisation will be compared for a wide range of corrosion tests, with relevance to ferritic, austenitic, and duplex stainless steels (austeno-ferritic).</p> <p>Speaker : Dirk Engelberg, The University of Manchester, UK</p>
10:30-11:00	<p><b>A Guide to Weld Repair of Stainless Steels and Nickel Alloys</b></p> <p>This presentation will give very practical suggestions about the possible repair of stainless steels and nickel alloys that have been in service and suffered some form of degradation. Some types of corrosion attack are not cost effective to weld repair, while other types are relatively easily repaired if done correctly. Guidelines to the type of filler metals needed, as well as metal preparation and post-repair techniques will be examined.</p> <p>Speaker : Gary Coates, Nickel Institute, Canada</p>
11:00-11:30	Coffee Break
	<p><b>Paper Session: The latest Technology – Part 1</b> Chair: Hiroyasu Matsuda, Best Materia Co., Ltd.</p>
11:30-11:55	<p>Skill certification of flange fastening worker using bolting simulator Speaker : Tadasuke Asano, ENEOS Corporation</p>
11:55-12:20	<p>Aging of valves and its countermeasures Speaker: Gakuto Takawa, Toa Valve Engineering</p>
12:20-12:45	<p>Corrosion inspection at the pipe/pipe rack junction Speaker: Kazumi Watanabe / Takuya Iwasato, Shin-Nippon Nondestructive Inspection Co., Ltd.</p>
12:45-13:10	<p>(The title will be announced later) Speaker : Hiroyasu Matsuda, Best Materia Co., Ltd.</p>
13:10-14:30	Lunch
	<p><b>Paper Session: The Latest Technology – Part 2</b> Chair: Kiyotaka Arimatsu, Toa Valve Engineering</p>
14:30-14:55	<p>Development of Prediction Model for Corrosion Under Insulation Speaker : Masao Nakahara, Asahi Kasei Corporation</p>
14:55-15:20	<p>Proposal of Plant Management of the Future using 3D Model Speaker : Takehisa Kanamaru, JGC Japan Corporation</p>
15:20-15:45	<p>Introduction of vibration trend management method for rotary machines Speaker: Takashi Oomasa, Shinkawa Electric</p>
15:45-16:10	<p>Diagnosis technology for managing moving equipment and stable operations at Tokuyama (the official title will be received later) Speaker: Yoshifumi Mori, Tokuyama</p>
16:10-16:30	Break
16:30-17:20	<p><b>Ask the Doctor Managing Aging Plants</b> Moderator : Hiroyasu Matsuda, Best Materia Co., Ltd.</p> <p>Doctors</p> <ol style="list-style-type: none"> <li>1. Masao Nakahara, Asahi Kasei Corporation</li> <li>2. Gary Coates, Nickel Institute, Canada</li> <li>3. Allan Raymond Ramos, Fluor, Philippine</li> <li>4.</li> </ol>
17:20- 17:30	<b>Closing</b>