

# Workshop on Ageing Management Considerations in Mechanical Codes and Standards

## Programme



Hitotsubashi Hall, National Center of  
Sciences Building, Tokyo - Japan

28-29 June 2023



## Objectives

The objectives of the workshop are to provide better understanding of the global framework and to initiate discussion between stakeholders to enable a better consideration of ageing phenomena in codes and standards. The workshop will bring together regulators and stakeholders, including representatives from the industry and other international organisations, to share information and discuss the challenges related to ageing phenomena in mechanical codes and standards, for both existing fleet but also for nuclear new builds and small modular reactors (SMRs).

## General information

### Organisers

The workshop is organised by the Nuclear Energy Agency in co-operation with the Japanese Nuclear Regulatory Authority (NRA).

For further information regarding logistics, please contact  
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### Programme Committee Secretariat

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### Language

All presentations, discussions and meeting documents will be in English.

### Venue

The event will be hosted in Tokyo (Japan), in the Hitotsubashi Hall, National Center of Sciences Building 2F, 2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8439.

# NOTES

# 2023 Workshop on Ageing Management Programme

Day I – 28th June 2023

09:00	<b>Welcome and Registration</b>
09:30	<b>Opening remarks</b> <ul style="list-style-type: none"> <li>• Dr Tomoya Ichimura (NRA Japan)</li> <li>• Dr Seiji Asada (SDO CB chair)</li> </ul>
<b>Session 1 : Comparison of national regulatory requirements related to ageing phenomena RCPB</b>	
09:50	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Dr David Rudland US NRC</li> </ul>
10:00	<b>Regulatory requirements for ageing phenomena of safety-related components in Korea</b> <ul style="list-style-type: none"> <li>• Dr Sangmin Lee, KINS Republic of Korea</li> </ul>
10:20	<b>Regulatory framework in Czech Republic</b> <ul style="list-style-type: none"> <li>• Ms Jolana Rydlova, SUJB Czech Republic</li> </ul>
10:40	Coffee break
10:50	<b>Regulatory frameworks in Japan</b> <ul style="list-style-type: none"> <li>• Ms Haruko Sasaki, NRA Japan</li> </ul>
11:10	<b>Regulatory framework in France</b> <ul style="list-style-type: none"> <li>• Ms Rachel Vaucher, ASN France</li> </ul>
11:30	<b>Regulatory framework in the US</b> <ul style="list-style-type: none"> <li>• Dr David Rudland, US NRC</li> </ul>
11:50	<b>Q/A session</b>
12:30	Lunch break
<b>Session 2: Discussion on code requirements on RCPB to address/prevent ageing phenomena</b>	
14:00	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Mr Ronan Tanguy (World Nuclear Association)</li> </ul>
14:10	<b>ASME Code Requirements for Fatigue</b> <ul style="list-style-type: none"> <li>• Mr Paul Donavin, Becht Engineering - ASME</li> </ul>
14:30	<b>Outline of JSME rules on fitness for service for nuclear power plants</b> <ul style="list-style-type: none"> <li>• Dr Kiminobu Hojo, Mitsubishi Heavy Industries, Ltd, JSME</li> </ul>
14:50	<b>Code Requirements for Managing Aging of Pressure Boundary Components of CANDU Reactors in Canada</b> <ul style="list-style-type: none"> <li>• Mr Suqiang XU, CNSC Canada</li> </ul>
15:10	<b>Initiatives of Japan on standardizing new findings on ageing management</b> <ul style="list-style-type: none"> <li>• Pr Kenta Murakami, University of Tokyo (Japan)</li> </ul>
15:30	Coffee break

15:50	<b>Experience on the ageing phenomena with mechanical design</b> • Mr Jongin Kim, Doosan
16:10	<b>Q/A session</b>
16:50	<b>Conclusion of day 1</b>
17:05	End of Day 1
<b>Day 2 – 29th June 2023</b>	
09:00	<b>Welcome and Registration</b>
<b>Session 3 : Operating Experience related to ageing phenomena on RCPB</b>	
09:30	<b>Introduction</b> • Dr Yinsheng Li, JAEA Japan
09:40	<b>Stress corrosion cracking experience in France</b> • Ms Rachel Vaucher, ASN France
10:00	<b>Stress corrosion cracking experience in Japan</b> • Dr Takumi Terachi, ATENA (KEPCO)
10:20	Coffee break
10:35	<b>SCC Growth Rate Behavior of Stainless Steels in PWR Primary Water Environments</b> • Dr Do Jun Shim, EPRI
10:55	<b>Fatigue Phenomena Experience</b> • Mr Paul R. Donavin, Becht Engineering
11:15	<b>Integrity Assessment of Reactor Pressure Vessel Against Irradiation Embrittlement in Japan</b> • Dr Takatoshi Hirota, Mitsubishi Heavy Industries, Ltd
11:35	<b>Q/A session</b>
12:25	Lunch break
<b>Session 4: challenges of ageing phenomena in C&amp;S applied to SMRs/AMRs</b>	
13:55	<b>Introduction</b> • Mr Suqiang Xu, CNSC Canada
14:05	<b>Degradation of Materials for High Temperature Small Modular Reactors</b> • Dr. Suraj Persaud, Queen's university (Canada)
14:25	<b>Material Aging Challenges for Small Modular Reactors, a Regulatory Perspective</b> • Mr Suqiang Xu, CNSC Canada
14:45	<b>Aging Management Considerations for Advanced SMRs and Non-LWR Reactors</b> • Mr Chris Wax, EPRI
15:05	<b>Q/A session</b>

<b>15:35</b>	Coffee break
<b>Closing session: Harmonization Discussion</b>	
<b>15:55</b>	<b>Panel discussion with speakers from the 4 sessions</b> <b>Moderator: Dr David Rudland</b>
<b>16:55</b>	<b>Conclusions</b> <ul style="list-style-type: none"><li>• <b>Dr Sangmin LEE, KINS</b></li></ul>
<b>17:15</b>	End of day 2



## Local maps (English)


**① CAFETERIA in the Hitotsubashi Hall building**  
[Hitotsubashi Hall building](https://www.hitotsubashi-hall.com/)  
 Lunch price: ~ ¥ 999  
 Limited numbers served and to be sold out quickly.  
 Located on the 3<sup>rd</sup> Floor in the same building of workshop venue.

**② MERCURY**  
 Cafe  
 11:30~14:00  
 76 seats  
 Lunch price: ¥ 1,000~¥ 1,500  
 2-1-1 Hitotsubashi  
 1<sup>st</sup> Floor, JOSUI KAIKAN  
 TEL 03-3261-1108


**③ LATIN**  
 French  
 11:30~15:00  
 46 seats  
 Lunch price: ¥ 1,600~¥ 3,000  
 3-28 Kanda Nishiki-sho  
 1<sup>st</sup> Floor, GAKUSHI KAIKAN  
 TEL 03-3292-0881


**④ KOUROUMU**  
 Chinese  
 11:30~15:00  
 56 seats  
 Lunch price: ¥ 1,300~¥ 2,500  
 3-28 Kanda Nishiki-sho 1<sup>st</sup> Floor, GAKUSHI KAIKAN  
 TEL 03-3292-0880


**⑤ SUSHI WASABI**  
 Sushi  
 11:30~14:30  
 40 seats  
 Lunch price: ¥ 1,000~¥ 1,999  
 3-22 Kanda Nishiki-cho  
 1<sup>st</sup> Floor, TERRACE SQUARE  
 TEL 03-6275-0661

**⑥ MAENAM NO HOTORI**  
  
 Thai, Curry  
 11:30~14:30  
 60 seats  
 Lunch price: ¥ 1,000~¥ 1,500  
 3-22 Kanda Nishiki-cho  
 2<sup>nd</sup> Floor, TERRACE SQUARE  
 TEL 03-5577-4494

**⑦ KINFUKUGEN**  
  
 Chinese  
 11:00~15:00  
 80 seats  
 Lunch price: ~ ¥ 1,000  
 3-11 Kanda Nishiki-cho  
 TEL 03-3294-3466

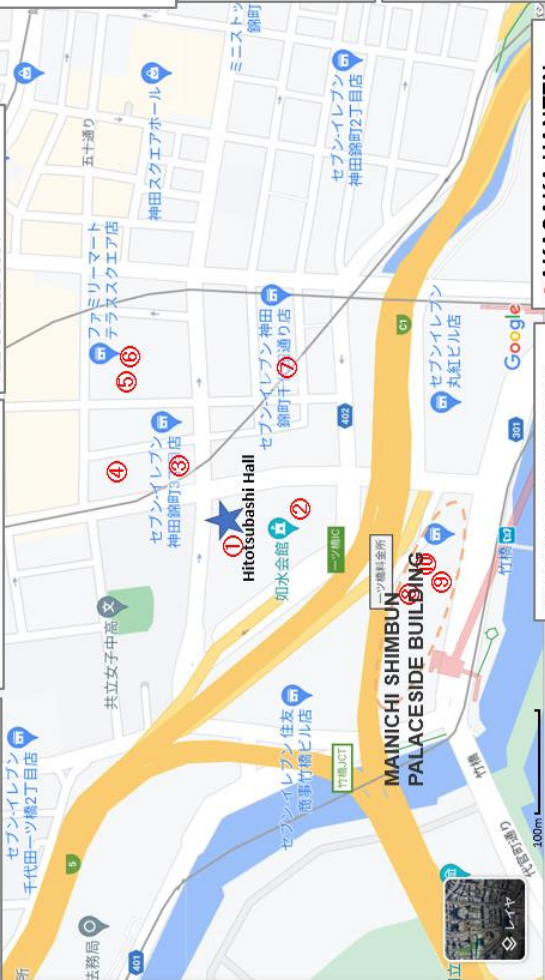
**⑩ KINEYA MUGIMARU**  
  
 Udon  
 11:00~20:00  
 Lunch price: ~ ¥ 900  
 1-1-1 Hitotsubashi  
[Hitotsubashi](https://www.kineya.com/)  
 1<sup>st</sup> Floor, MAINICHI SHIMBUN PALACESIDE BUILDING  
 TEL 03-5220-3125

**⑨ AKASAKA HANTEN**  
  
 Chinese  
 11:00~22:00  
 170 seats  
 Lunch price: ~ ¥ 1,000  
 1-1-1 Hitotsubashi  
 B1F, MAINICHI SHIMBUN PALACESIDE BUILDING  
 TEL 03-3213-2678

**⑧ TONKATSU MARUYA**  
  
 Pork Cutlet  
 11:00~22:00  
 52 seats  
 Lunch price: ~ ¥ 1,000  
 1-1-1 Hitotsubashi  
 B1F, MAINICHI SHIMBUN PALACESIDE BUILDING  
 TEL 03-6551-2698

**Lunch Map**  
**Around Hitotsubashi Hall**  
[Hitotsubashi Hall](https://www.hitotsubashi-hall.com/)

※ There are more restaurants on the 1<sup>st</sup> and B1 floor of the MAINICHI SHIMBUN PALACESIDE BUILDING, in addition to ⑧-⑩.



## Local maps (Japanese)



① 学術総合センタービル 食堂  
※会場ビル内3Fにある食堂  
～999円  
一ツ橋2-12学術総合センタービル3F



② 如水会館カフェ&パントリー  
ケーキ・惣菜  
カフェ・惣菜  
11:30～14:00  
76席  
1,000～1,999円  
(1,100円のランチあり)  
一ツ橋2-11如水会館1F  
TEL 03-3281-1108

③ レストラン ラタン  
フランス料理店  
11:30～15:00  
46席  
1,600～3,000円  
神田錦町3-28 学士会館1F  
TEL 03-3292-0881



④ 紅橋亭  
中国料理  
11:30～15:00  
56席  
1,300～2,500円  
神田錦町3-28 学士会館1F  
TEL 03-3292-0880



⑤ 神保町すしわび  
寿司店  
11:30～14:30  
40席  
1,000～1,999円  
神田錦町3-22 テラスエア1F  
TEL 03-6275-0661



⑥ マナムのほとり 神保町テラスエア店  
タイ料理、カレー店  
11:30～14:30  
60席  
1,000～1,500円  
神田錦町3-22 テラスエア2F  
TEL 03-5577-4494



⑦ 金福源  
中華料理  
11:00～15:00  
60席  
～1,000円  
神田錦町3-11 桜本ビル1F  
TEL 03-3294-3466



## 一橋講堂周辺 ランチマップ

※毎日新聞パレスサイドビルの1R、B1には⑧～⑩以外にも飲食店複数あり。

⑧ とんかつまるや竹橋店  
とんかつ  
11:00～22:00  
52席  
～1,000円  
一ツ橋1丁目1-1  
毎日新聞社パレスサイドビルB1  
TEL 03-6551-2698



⑨ 赤坂飯店 パレスサイドビル店  
中華料理店  
11:00～22:00  
170席  
～1,000円  
一ツ橋1丁目1-1  
毎日新聞社パレスサイドビルB1  
TEL 03-3213-2678



⑩ 自家製麺 杵屋麦丸 竹橋パレスサイドビル店  
うどん店  
(セルフサービス)  
11:00～20:00  
～999円  
一ツ橋1丁目1-1  
毎日新聞社パレスサイドビル1F  
TEL 03-5220-3125







**The Nuclear Energy Agency (NEA)** is an intergovernmental agency under the framework of the Organisation for Economic Co-operation and Development (OECD) headquartered in Paris, France. Its main objective is to promote international co-operation assisting member countries in maintaining and further developing the scientific, technological and legal bases required for a safe, environmentally friendly and economical use of nuclear energy for peaceful purposes.

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