

Time	Monday, Nov 28	Tuesday, Nov 29	Wednesday, Nov 30	Thursday, Dec 1	Friday, Dec 2	Time					
09:00	Registration and badging (VIC Gate-1)	Poster Session	Side Event: Recent Operations & Maintenance Findings in East Asian Countries (CR-2)	Poster Session	Poster Session	09:00					
09:15						09:15					
09:30						09:30					
09:45						09:45					
10:00						Coffee C-02	10:00				
10:15						10:15					
10:30	Opening Session (BR-C)	Coffee C-02	Coffee C-02	Coffee C-02	Plenary Keynote (CR-7)	10:30					
10:45		10:45									
11:00		Plenary Keynote (BR-C)	Plenary Keynote (BR-C)	Plenary Keynote (BR-C)	TS 3-4 CR-7	TS 1-4 CR-2	11:00				
11:15							11:15				
11:30		TS 1-1 BR-C	TS 3-1 CR-2	TS 5-1 C0440	TS 6-2 BR-C	TS 3-3 CR-2	TS 1-3 C0440	TS 5-2 BR-C	TS 4-2 CR-2	(4)	11:30
11:45		11:45									
12:00	LUNCH/BREAK	(5)	(5)	(3)	(5)	(5)	(4)	(5)	(5)	LUNCH/BREAK	12:00
12:15		12:15									
12:30		12:30									
12:45		12:45									
13:00		LUNCH/BREAK	LUNCH/BREAK	LUNCH/BREAK	LUNCH/BREAK	Panel 4 (CR-7) How LTO related challenges will be managed in a competitive way through innovation	13:00				
13:15		13:15									
13:30	Plenary Keynotes (BR-C)	Panel 1 (BR-C) Flexibility & non-electrical applications of existing nuclear fleet	Panel 2 (BR-C) IAEA Support to Newcomers (including E&T) to implement PLiM, ageing Management, etc.	Panel 3 (BR-C) Nuclear contribution including LTO/LR projects to reach carbon neutrality and/or energy security targets	Report and Closing Session (CR-7)	13:30					
13:45						13:45					
14:00						14:00					
14:15	Plenary Tech Session BR-C (6)	TS 3-2 BR-C	TS 1-2 CR-2	TS 6-1 C0440	TS 4-1 BR-C	TS 2-1 CR-2		TS 2-2 BR-C	TS 6-3 CR-2		14:15
14:30		14:30									
14:45		14:45									
15:00		15:00									
15:15	15:15										
15:30	15:30										
15:45	15:45										
16:00	DG Remarks	Coffee C-02	Coffee C-02	Coffee C-02		16:00					
16:15	Reception C-02	Poster Session	Side Event: Women In Nuclear: Spotlighting Nuclear Changemakers (CR-2)	Side Event: Innovative Nuclear Power Data (CR-2)		16:15					
16:30					16:30						
16:45					16:45						
17:00					17:00						
17:15					17:15						
17:30	17:30										
		END	END	END		17:30					

Nuclear Power Plant Life Management

Fifth International Conference

28 November–02 December 2022

PROGRAMME

(last updated 25-Nov-2022 16:00)

Organized by the
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

Conference co-Presidents

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C. Le-Maitre France/EDF

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P. Efsing Vattenfall, Sweden
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C. Munoz CSN, Spain
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IAEA Secretariat:

Scientific Secretaries: E. Bradley, NENP
 M. Marchena, NSNI
Event Organizer: T. Danaher, MTCD
Administrative Support: L. Makil; T.L. Loi

Location of the Event:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building M, BRB/M1

Wagramer Strasse 5
A-1400 Vienna, Austria
Tel.: (+43 1) 2600 21330

Working Language: English

Resolutions: No resolutions may be submitted for consideration
 on any subject; no votes will be taken.

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Read abstracts and full-papers of speakers



Participate in voting during sessions



Raise questions to speakers during session



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TIMETABLE

Monday, 28 November 2022

Time	Session Title / Break	Venue
08:00-16:00	Registration and badging	VIC Gate-1
10:30-12:00	Opening Session	Board Room BR-C
12:00-13:30	<i>Lunch Break</i>	
13:30-14:30	Plenary Keynotes <ul style="list-style-type: none"> • Approaches to Plant Life Management, A. des Cloizeaux, IAEA • Economics of PLiM, B. Zronek, WNA/Czech Republic 	BR-C
14:30-16:00	Plenary Technical Session	BR-C
16:00-16:15	Director General's Opening Remarks	BR-C
16:15-18:00	<i>Reception</i>	C-02

Tuesday, 29 November 2022

Time	Session No.	Session Title / Break	Venue
09:00-10:30		Poster Session	C-02
10:30-11:00		<i>Coffee Break</i>	C-02
11:00-11:30		Plenary Keynote: Ageing Management & Preparation for LTO, B. Linde, Sweden	BR-C
11:30-12:45	1-1	Approaches to Plant Life Management	BR-C
11:30-12:45	3-1	Ageing Management and Preparation of Long-Term Operation	CR-2
11:30-12:45	5-1	Stakeholder Engagement, Human Factors and Managerial Aspects	C0440
12:45-13:45		<i>Lunch Break</i>	
13:45-15:00		Panel 1: Flexibility and non-electrical applications of the existing nuclear fleet	BR-C
15:00-16:00	3-2	Ageing Management and Preparation of Long-Term Operation	BR-C
15:00-16:00	1-2	Approaches to Plant Life Management	CR-2
15:00-16:00	6-1	Configuration and Modification Management for Safety Enhancement and improved reliability	C0440
16:00-16:30		<i>Coffee Break</i>	C-02
16:30-17:30		Poster Session	C-02

Wednesday, 30 November 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30		Side Event: Recent findings from Operating & Maintenance Experiences: Information Sharing Among Mechanical Engineers from East Asian Countries	CR-2
10:30–11:00		<i>Coffee Break</i>	C-02
11:00–11:30		Plenary Keynote: Configuration & Modification Management for Safety Enhancement & Improved Reliability, C. Zhao, China	BR-C
11:30–12:45	6-2	Regulatory Approaches to Ageing Management and Long-Term Operation	BR-C
11:30–12:45	3-3	Ageing Management and Preparation of Long-Term Operation	CR-2
11:30–12:45	1-3	Approaches to Plant Life Management	C0440
12:45–13:45		<i>Lunch Break</i>	
13:45–15:00		Panel 2: IAEA Support to Newcomers (including Education & Training) to implement PLiM, ageing Management, etc.	BR-C
15:00–16:00	4-1	Configuration and Modification Management for Safety Enhancement and improved reliability	BR-C
15:00–16:00	2-1	Economics of Plant Life Management	CR-2
16:00–16:30		<i>Coffee Break</i>	C-02
16:30–17:30		Side Event: Women In Nuclear: Spotlighting Nuclear Changemakers	C-02

Thursday, 1 December 2022

Time	Session No.	Session Title / Break	Venue
09:30–10:30		Poster Session	C-02
10:30–11:00		<i>Coffee Break</i>	C-02
11:00–11:30		Plenary Keynote: Manpower management and public outreach for LTO during transient period, C. Jang, Korea	BR-C
11:30–12:45	5-2	Stakeholder Engagement, Human Factors and Managerial Aspects	BR-C
11:30–12:45	4-2	Configuration and Modification Management for Safety Enhancement and improved reliability	CR-2
12:45–13:45		<i>Lunch Break</i>	
13:45–15:00		Panel 3: Ensuring nuclear power's contribution to reach carbon neutrality and/or energy security targets: the relevance of LTO/LR programmes and projects	BR-C
15:00–16:00	2-2	Economics of Plant Life Management	BR-C

Time	Session No.	Session Title / Break	Venue
15:00–16:00	6-3	Regulatory Approaches to Ageing Management and Long-Term Operation	CR-2
16:00–16:30		<i>Coffee Break</i>	C-02
16:30–17:30		Side Event: Innovative Nuclear Power Data	CR-2

Friday, 2 December 2022

Time	Session No.	Session Title / Break	Venue
09:30–10:00		Poster Session	C-02
10:00–10:30		<i>Coffee Break</i>	C-02
10:30–11:00		Plenary Keynote: Regulatory Approaches to Ageing Management and Long-Term Operation, M. Turner, Slovakia	CR-7
11:00–12:00	3-4	Ageing Management and Preparation of Long-Term Operation	CR-7
11:00–12:00	1-4	Approaches to Plant Life Management	CR-2
12:00–13:00		<i>Lunch Break</i>	
13:00–14:15		Panel 4: How LTO related challenges will be managed in a competitive way through innovation	CR-7
14:15–15:00		Report and Closing Session	CR-7

Monday, 28 November 2022

08:00-16:00 *Registration*

VIC Gate-1

Monday, 28 November 2022

10:30-12:30 **OPENING SESSION**

Plenary Room (BR-C)

Time	Name	Designating Member State/Organization	Title
10:30–10:45	M. Chudakov	Deputy Director General, Head of Department of Nuclear Energy, IAEA	Opening Address
10:45–11:00	C. Le-Maitre	France/EDF	Keynote Address from Conference co-President
11:00–11:15	HE T. Hikihara	Japan/Ministry of Foreign Affairs	Keynote Address from Conference co-President
11:15–11:30	N. Sekimura	Japan/Tokyo University	Keynote Address
11:30–11:45	E. Bradley	IAEA	Organizational matters and an introduction to IAEA contributions to Plant Life Management and Long-Term Operation
11:45–12:00	M. Marchena	IAEA	IAEA contributions to Plant Life Management and Long-Term Operation

12:00–13:30 *Lunch Break*

Monday, 28 November 2022

13:30–14:30 PLENARY KEYNOTES

Plenary Room (BR-C)

Time	Name	Designating Member State/Organization	Title
13:30–14:00	A. des Cloizeaux	IAEA	Keynote Address: Approaches to PLiM
14:00–14:30	B. Zronek	WNA/CEZ	Keynote Address: Economics of PLiM

Presentations

Monday, 28 November 2022

14:30–16:00 PLENARY TECHNICAL SESSION

BR-C

Chair: Garry Young

Rapporteur: John Moore

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
46	S. Jayet-Gendrot	France	EDF Experience on LTO for the 900 MWe PWR Fleet
56	A. Vaya Soler	OECD-NEA	Long-Term Operation of Nuclear Power Plants and Decarbonisation Strategies
55	M. del Prado Ordiales Rey	Spain	Implementation of ageing management programmes and the quantitative effectiveness performance indicator
23	M. Noguchi	Japan	Latest Status of I&C Modernization in Japanese PWR Plants
116	L. Berthelot	IAEA	Stakeholder Engagement in the Long-Term Operation of NPPs: International Trends and IAEA Support
66	B. Smith	USA	From 40 to 60 to 80 Years – What is Next for License Renewal in the USA?

Monday, 28 November 2022

16:00-16:15 REMARKS FROM THE DIRECTOR GENERAL

Plenary Room (BR-C)

Time	Name	Designating Member State/Organization	Title
16:00-16:15	R. M. Grossi	Director General, IAEA	Opening Address
16:15-18:00	<i>Reception</i>		C-02

Tuesday, 29 November 2022

10:30-11:00 *Coffee Break*

C-02

Tuesday, 29 November 2022

11:00–11:30 **PLENARY KEYNOTE**

Plenary Room (BR-C)

Time	Name	Designating Member State/Organization	Title
11:00–11:30	B. Linde	Sweden/Vattenfall	Ageing Management & Preparation for LTO

Presentations

Tuesday, 29 November 2022

11:30–12:45 **SESSION 1-1 APPROACHES TO PLANT LIFE MANAGEMENT** **BR-C**

Chair: Abdou Al Mazouzi

Rapporteur: Oliver Martin

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
42	S. Yasuraoka	Japan	Approaches for the Safe Long-Term Operation of LWRs in Japan
30	G. Young	EPRI	EPRI's Strategies for Ageing Management and Preparation of Long-Term Operation
6	V. Placek	Czech Republic	Outputs of the Cable ageing management program in Czech Republic
85	Y. Bao	China	Ageing management of CANDU-6 reactor NPP in China
90	R. Krivanek	Netherlands	Current Challenges of Nuclear Power Plants Connected with Safe Long Term Operation

12:45-13:45 *Lunch Break*

Tuesday, 29 November 2022

11:30–12:45 **SESSION 3-1 AGEING MANAGEMENT AND PREPARATION OF LONG-TERM OPERATION** **CR-2**

Chair: Georgi Ignatov

Rapporteur: Jinseok Park

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
57	M. Klemenc	Czech Republic	Implementation of Thermal fatigue monitoring program in Czech NPPs
80	V. Jain	India	Design and Development of Eddy Current Test based Vessel Inspection System for TAPS-1&2 RPV Weld Joints
17	S. Naito	Japan	Anomaly detection AI technology, two-stage autoencoder
62	U. Wildner	Germany	Experiences using a software product for AMR, IGALL implementation and AMP validation
135	N. Ngoy Kubelwa	IAEA	Development Considerations and Life Cycle Management Approaches for Nuclear Facility Instrumentation and Control Systems
<i>12:45-13:45 Lunch Break</i>			

Tuesday, 29 November 2022

11:30–12:45	SESSION 5-1 STAKEHOLDER ENGAGEMENT, HUMAN FACTORS AND MANAGERIAL ASPECTS	C0440
	Chair: Kenta Murakami	Rapporteur: Christina Van Drunen

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
96	R. Harianto	Indonesia	Identification of Nuclear Safety Information System to Preserve Knowledge in Aging Management for Nuclear Power Plant SSC's Important to Safety
38	T. Itoi	Japan	Human Capacity Building towards Knowledge Base Development for Nuclear Safety Regulation facilitating Risk Management
53	B. Kocsis	Hungary	Knowledge transfer in the scope of maintain the RPS in Paks
<i>12:45-13:45 Lunch Break</i>			

Tuesday, 29 November 2022

13:45–15:00	PANEL 1 FLEXIBILITY AND NON-ELECTRICAL APPLICATIONS OF THE EXISTING NUCLEAR FLEET	BR-C
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Facilitator: Nikhil Kumar (USA/Intertek)

Panel Members	Designating Member State/Organization
Y. Dou	China/SNERDI
S. Richard	France/EDF
C. Tomlin	EPRI
U. Otgonbaatar	USA/Constellation

Tuesday, 29 November 2022

15:00–16:00 SESSION 3-2 AGEING MANAGEMENT AND PREPARATION OF LONG-TERM OPERATION BR-C

Chair: Adriana Politi

Rapporteur: Georgi Ignatov

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
77	K. Chitose	OECD-NEA	NEA Working Groups Activities in Ageing Management and Long-Term Operation
65	O. Martin	EC-JRC	Activities and future Trends of the ENIQ Network
132	A. Yu	IAEA	The International Network of Life Management of Nuclear Power Plants
101	C. Mocanu	Netherlands	NRG experience in support of NPPs' ageing management and LTO

Tuesday, 29 November 2022

15:00–16:00 SESSION 1-2 APPROACHES TO PLANT LIFE MANAGEMENT CR-2

Chair: Nathan Paterson

Rapporteur: Abdou Al Mazouzi

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
126	J. Augusto do Amaral	Brazil	Strategy for Licensing Angra 1 Plant Life Extension Program (LTO)
14	M. Kikuchi	Japan	Evaluation on Operating Period Extension of Tokai- II Power Station
87	D. Erak	Russia	Study of the decommissioned RPV metal in support of the operating RPVs lifetime extension
86	D. Synak	Slovak Republic	A programme for Long term operation at Slovak NPPs

Tuesday, 29 November 2022

15:00–16:00 **SESSION 6-1 REGULATORY
APPROACHES TO AGEING
MANAGEMENT AND LONG-TERM
OPERATION**

C0440

Chair: Carmen Munoz

**Rapporteur: Diptojoyoti
Bhattacharya**

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
51	C. Moyer	USA	Regulatory Research on the Aging Management of Structures, Systems and Components in Nuclear Power Plants Supporting License Renewal
121	E. Stencil S. Miller	Canada	CSA N290.20:21, Aging management requirements for nuclear power plants
128	D. Murčehajić	Slovenia	Virtual user interface for Master Equipment Component database interaction

Tuesday, 29 November 2022

<i>16:00-17:30</i>	<i>Posters & Exhibitors</i>	<i>C-02</i>
<i>16:00-16:30</i>	<i>Coffee Break</i>	<i>C-02</i>

Wednesday, 30 November 2022

09:00–10:30 **SIDE EVENT: RECENT OPERATIONS & MAINTENANCE FINDINGS IN EAST ASIAN COUNTRIES** **CR-2**

This side event aims to share recent findings from operation and maintenance experiences in East Asian countries and enhance the networking among mechanical engineers working on ageing management. We will provide a detailed introduction to recent topics on flow-accelerated corrosion and stress corrosion cracking in PWRs and allow time for questions and discussion of these topics. Since this event will be held during early evening in East Asia, interactive discussions between in-person and remote participants from these regions is encouraged.

Wednesday, 30 November 2022

10:30–11:00 *Coffee Break* *C-02*

Wednesday, 30 November 2022

11:00–11:30 **PLENARY KEYNOTE** **Plenary Room (BR-C)**

Time	Name	Designating Member State/Organization	Title
11:00–11:30	C. Zhao	China/CNPP	Configuration & Modification Management for Safety Enhancement & Improved Reliability

Wednesday, 30 November 2022

11:30–12:45 **SESSION 6-2 REGULATORY APPROACHES TO AGEING MANAGEMENT AND LONG-TERM OPERATION** **BR-C**

Chair: Jolana Rydlova

Rapporteur: Carmen Munoz

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
123	C. Loreti	Canada	Regulatory Approach Taken in the Refurbishment of the Darlington Nuclear Generating Station-A Canadian Perspective on Life Extension Projects
127	M. Marchena	IAEA	SALTO peer review service
76	K. Nick	OECD-NEA	Legal Frameworks for Long-Term Operation of Nuclear Power Reactors
39	R. Solanki	India	Regulatory practices on Plant life Management and strategies for renewal of licence for Long term Operation of operating NPPs in India
82	N. Tsukabe	Japan	Regulatory review of extension of operational period of NPPs in Japan

12:45–13:45 *Lunch Break*

Wednesday, 30 November 2022

11:30–12:45 **SESSION 3-3 AGEING MANAGEMENT AND PREPARATION OF LONG-TERM OPERATION** **CR-2**

Chair: Jinseok Park

Rapporteur: Adriana Politi

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
58	R. Bonzom	France	Presentation of the Vessel Internals Project 2 within the Materials Ageing Institute (MAI) - Focus on the effect of baffle assembly design on BFB IASCC susceptibility and on the quantification of radiation-induced segregation
74	A. Jenssen	Sweden	SMILE Project – Research on Aged Materials Harvested from Decommissioned Swedish Boiling and Pressurized Water Reactors
29	K. Nakashima	Japan	Irradiation Embrittlement Management of Nuclear Reactor Pressure Vessels in Japan
26	Y. Li	Japan	JAEA's Research on the Structural Integrity Assessment of Reactor Pressure Vessels for Safe Long-term Operation
28	Y. Miura	Japan	CRIEPI research activities on material aging using decommissioned reactor materials

12:45-13:45 *Lunch Break*

Wednesday, 30 November 2022

11:30–12:45 **SESSION 1-3 APPROACHES TO PLANT LIFE MANAGEMENT** **C0440**

Chair: Annie Yu

Rapporteur: Abdou Al Mazouzi

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
60	S. Percossi Bossero	Argentina	Study of the behaviour and performance against thermal aging, radiation aging and Design Basis Accident (DBA) of epoxy coatings for use in specific environments of CAREM25
16	I. Maruyama	Japan	Concrete research for long-term operation of nuclear power plants in Japan

130	K. Mansoor	Pakistan	PNRA Regulatory Approach to Ageing Management and LTO – The Way Forward
70	V. Pistora	Czech Republic	State-of-the-art reviews of PTS related topics performed within APAL project
12:45-13:45 <i>Lunch Break</i>			

Wednesday, 30 November 2022

13:45–15:00 **PANEL 2 IAEA SUPPORT TO NEWCOMERS (INCLUDING E&T) TO IMPLEMENT PLIM, AGEING MANAGEMENT, ETC.** **BR-C**

Facilitator: Erik English (USA/Bulletin of the Atomic Scientists)

Panel Members	Designating Member State/Organization
P. Pedernera	Argentina/Nucleoeleétrica Argentina S.A.
F. Meng	China/SNERDI
M. Öztaş	Türkiye/Nuclear Regulatory Authority
G. Petofi	IAEA/Senior Nuclear Safety Officer

Wednesday, 30 November 2022

15:00–16:00 **SESSION 4-1 CONFIGURATION AND MODIFICATION MANAGEMENT FOR SAFETY ENHANCEMENT AND IMPROVED RELIABILITY** **BR-C**

Chair: Satoru Yasuraoka

Rapporteur: Kenta Murakami

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
68	O. Martin	EC-JRC	The NUCOBAM Project – Use of Additive Manufacturing in Reactor Component Manufacturing
9	T. Tatsuno	Japan	Overview of Replacement of 3-loop PWR Reactor Vessel Internal
59	E. Maita	Argentina	Development and Improvement of Moderator Pump Sensors for DBA Using Qualification Through Mock Up Methodology in Atucha 1 NPP
37	D. Greenwood	USA	Requirements Management: Extending Plant Life and Improving Equipment Maintainability

Wednesday, 30 November 2022

15:00–16:00 **SESSION 2-1 ECONOMICS OF PLANT LIFE MANAGEMENT** CR-2

Chair: Junji Eto

Rapporteur: Hiroki Sugino

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
115	S. Gezer	Türkiye	Strategic innovation for sustainability of global electricity generation: Nuclear
22	R. Takahashi	Japan	Thermal integration with Renewable energy in Steam turbine plant
124	R. Caricchio	Brazil	Analysis of the economic and financial viability of the Angra 1 life extension
110	L. Martin Huete	Spain	Cost-effectiveness of reliability-focused maintenance for Long-Term Operation

12:45-13:45 *Lunch Break*

Wednesday, 30 November 2022

16:00-16:30 *Coffee Break*

C-02

Wednesday, 30 November 2022

16:30–17:30 **SIDE EVENT: WOMEN IN NUCLEAR SIDE EVENT: SPOTLIGHTING NUCLEAR CHANGEMAKERS** CR-2

This side event will highlight leaders who are currently taking concrete, dynamic actions in PLiM to ensure the safe long-term operation of existing NPPs. It will feature changemakers in the field and involve a wide variety of perspectives, including the approach of policymakers, regulators, owner-operators, industry representatives, etc. The discussion will focus on main lessons learned and recommendations to be considered when implementing PLiM, as well as a number of challenges to be addressed in the future. Join NENP Director A. des Cloizeaux, N. Morelova (moderator) and panellists P. Pedernera, S. Forrai, N. Šubrtová and C. Van Drunen for an excellent discussion.

Thursday, 1 December 2022

09:00-11:00	Posters & Exhibitors	C-02
10:30-11:00	Coffee Break	C-02

Thursday, 1 December 2022

11:00–11:30 **PLENARY KEYNOTE** **Plenary Room (BR-C)**

Time	Name	Designating Member State/Organization	Title (as applicable: Opening Address; Welcome Address; Keynote Address or Title)
11:00–11:30	C. Jang	Korea/KAIST	Human Factors and Managerial Aspects

Thursday, 1 December 2022

11:30–12:45 **SESSION 5-2 STAKEHOLDER ENGAGEMENT, HUMAN FACTORS AND MANAGERIAL ASPECTS** **BR-C**

Chair: Christina Van Drunen

Rapporteur: Pam Gorman

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
113	V. Segovia	USA	Outreach – Key to Stakeholder Engagement
5	A. Yamamoto	Japan	Stakeholder engagement and public understanding for LTO in Japan
125	H. Francina Swanepoel	South Africa	Using an Integrated Asset Management and Human Resilience Approach to Deal with Global Disruptors and Complexity of Power Utility Operations
117	C. Lundqvist	Sweden	The changing role of Swedish nuclear operations in the context of northern Europe
11	J. Eto	Japan	Research on risk assessment human resources and R & D to efficiently realize safe long-term operation in Japan

12:45-13:45 *Lunch Break*

Thursday, 1 December 2022

11:30–12:45 **SESSION 4-2 CONFIGURATION AND MODIFICATION MANAGEMENT FOR SAFETY ENHANCEMENT AND IMPROVED RELIABILITY** **CR-2**

Chair: Kiyoteru Suzuki

Rapporteur: Hiroki Sugino

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
61	A. Zander	Germany	Innovative Concepts and Solutions to support Nuclear Power Plant Long Term Operation
100	J. Moore	Canada	Canadian Industry Innovations Relation to Plant Life Management and Refurbishments
32	S. Okada	Japan	Apply robotics technology of decommissioning Fukushima-Daiichi to aging measure for nuclear power plant
129	S. Qureshi	Canada	CANDU Heat Transport System: Roadmap to Mitigate Aging Effects
118	A. Mohamad	Japan	The behaviour of Cr-coated Zry cladding under high-temperature steam oxidation
<i>12:45-13:45 Lunch Break</i>			

Thursday, 1 December 2022

13:45–15:00 **PANEL 3 ENSURING NUCLEAR POWER'S CONTRIBUTION TO REACH CARBON NEUTRALITY AND/OR ENERGY SECURITY TARGETS: THE RELEVANCE OF LTO/LR PROGRAMMES AND PROJECTS** **BR-C**

Facilitator: Koji Nagano (Japan/CRIEPI)

Panel Members	Designating Member State/Organization
A. Gottschling	Canada/AECL
G. Raud	France/DGEC
T. Tanaka	Japan/Kansai NP
B. Parkash	India/NPCIL

Thursday, 1 December 2022

15:00–16:00 **SESSION 2-2 ECONOMICS OF PLANT LIFE MANAGEMENT** **BR-C**

Chair: Satoru Yasuraoka

Rapporteur: Hiroki Sugino

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
75	J. Kickhofel	FORATOM	Use of High-Quality Industrial Grade Items in Nuclear Facilities: A European Guideline

31	R. Austin	EPRI	Application of the EPRI Nuclear Plant Modernization Strategy at Existing Nuclear Power Plants
133	J. Tokey	USA	Legislative Updates Impacting Nuclear Power Plants in the United States
92	Z. Tomsic	Croatia	Assessment of Extending Operation of Nuclear Power Plant Krško from 2023 to 2043 - Techno-economic, Ecological and Power Flows and System Dynamics Influence

Thursday, 1 December 2022

15:00–16:00 **SESSION 6-3 REGULATORY APPROACHES TO AGEING MANAGEMENT AND LONG-TERM OPERATION** **CR-2**

Chair: Diptojoyoti Bhattacharya

Rapporteur: Gabor Petofi

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
36	A. Chepurna	Ukraine	Regulatory approaches to ageing management and long-term operation of Ukrainian NPPs. Experience, practice and lessons learned
67	A. Hiser	USA	How Did the United States Get to the Point of Renewing Nuclear Power Plant Operating Licenses to 80 Years?
18	K. Murakami	Japan	Japanese Codes and Standards to Support Long Term Operation of Nuclear Power Plant
134	J. Alonso-Escós	Spain	Regulatory approach to ageing management and long-term operation in Spain

Thursday, 1 December 2022

16:00-16:30 *Coffee Break* **C-02**

Thursday, 1 December 2022

16:30–17:30 **SIDE EVENT: INNOVATIVE NUCLEAR POWER DATA** **CR-2**

The side event will present Innovative Data Visualizations of NPP operating experience and tools for nuclear power performance assessment. This event will also include a demonstration of the winning submission developed for the IAEA Competition on Innovative Data Visualization of Operating Nuclear Power Plants, followed by a panel discussion with the winner and experts from

the IAEA. The winner will discuss the data and technology used for their visualizations, discuss how the infographics capture current statuses, challenges, opportunities, or successes related to the ageing and maintenance of operating nuclear power plants.

Friday, 2 December 2022

09:00-10:30	Posters & Exhibitors	C-02
10:00-10:30	Coffee Break	C-02

Friday, 2 December 2022

10:30–11:00 **PLENARY KEYNOTE** **Plenary Room (CR-7)**

Time	Name	Designating Member State/Organization	Title
10:30–11:00	M. Turner	Slovakia/UJD SR	Regulatory Approaches to Ageing Management and Long-Term Operation

Friday, 2 December 2022

11:00–12:00 **SESSION 3-4 AGEING MANAGEMENT AND PREPARATION OF LONG-TERM OPERATION** **CR-7**

Chair: Kenta Murakami

Rapporteur: Nathan Paterson

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
104	E. Lopez	Argentina	Development of a methodology for implementing an Ageing Management Review for a Dry Spent Fuel Storage Facility in Argentina
108	S. Kumar	India	A graded and systematic approach to ageing management and structural assessment of existing concrete structures in nuclear facilities of India
88	R. Polyakova	Russia	Assessment of the HAZ metal properties for VVER-1000 RPV lifetime extension
20	T. Hayashi	Japan	Improvement of Structural Integrity Evaluation Methodology of BWR Reactor Components for Long Term Operation

12:00-13:00 Lunch Break

Friday, 2 December 2022

11:00–12:00 **SESSION 1-4 APPROACHES TO PLANT LIFE MANAGEMENT** **CR-2**

Chair: **Abdou Al Mazouzi**

Rapporteur: **Oliver Martin**

Paper No.	Presenting Author	Designating Member State/Organization	Title of Paper
114	G. Adkins	USA	The License Renewal Process: Application to Implementation
102	D. La Valle	Argentina	Methodology For SSC Aging Evaluations In The Framework Of Safety Reviews For Argentine Research Reactors
7	T. Terachi	Japan	Preparation for long-term operation of the Kansai Electric Power Company

12:00-13:00 *Lunch Break*

Friday, 2 December 2022

13:00–14:15 **PANEL 4 HOW LTO RELATED CHALLENGES WILL BE MANAGED IN A COMPETITIVE WAY THROUGH INNOVATION** **CR-7**

Facilitator: **Sonya Forrai (USA/Westinghouse)**

Panel Members	Designating Member State/Organization
A. Simpson	UK/NNL
J. Tokey	USA/DOE
J. Moore	Canada/OCNI
A. Al Mazouzi	France/EDF/SNETP

Friday, 2 December 2022

14:15-14:45 **CLOSING SESSION** **CR-7**

Time	Name	Designating Member State/Organization	Title
14:15–14:30	HE T. Hikihara	Japan/Ministry of Foreign Affairs	Closing Report from Conference co-President
14:30–14:45	A. Bradford	Director, Division of Nuclear Installation Safety	Keynote Address

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2022

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2022) (CN-304), 13-16 December, Vienna, Austria

2023

International Conference on Effective Nuclear and Radiation Regulatory Systems (CN-309), 13-16 February, Abu Dhabi, United Arab Emirates

International Symposium on Trends in Radiopharmaceuticals (ISTR-2023) (CN-310), 17-21 April, Vienna, Austria

International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Innovation for Sustaining Future Resources and Production (URAM-2023) (CN-311), 8-12 May, Vienna, Austria

International Conference on Nuclear Decommissioning: Addressing the Past and Ensuring the Future (CN-312), 15-19 May, Vienna, Austria

International Conference on Computer Security in the Nuclear World: Security for Safety (CN-313), 19-23 June, Vienna, Austria

International Symposium on Isotope Hydrology (CN-320), 3-7 July, Vienna, Austria

Second International Conference on Climate Change and the Role of Nuclear Power (CN-315), 9-13 October, Vienna, Austria

29th IAEA Fusion Energy Conference (CN-316), 16-21 October, London, United Kingdom

International Conference on Waste and Environmental Safety: Integrated Approach to Strengthening Sustainable Development (CN-318), 6-10 November, Vienna, Austria

International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future (CN-319), 27-30 November, Dead Sea, Jordan

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