

The **4th** 제4차 방사성폐기물
안전관리 국제 심포지엄

International Symposium on Safety Improvement & Stakeholder Confidence in Radioactive Waste Management

**Social Responsibility for
Clean & Prosperous Future**

September 28 - 29, 2017
The Sheraton Grand Walkerhill (Seoul)
&
KORAD HQ (Gyeongju)
Republic of Korea



KORAD
한국원자력환경공단



모시는글

올해 6월, 1978년 첫 가동을 시작하여 40년간 운영되어 온 고리1호기가 영구정지 상태에 들어갔습니다. 우리나라 경제발전의 신호탄이 된 고리1호기의 영구정지는, 올해 새롭게 출범한 정부의 새로운 에너지 정책의 시작을 알림과 동시에, 2015년 채택된 파리협약은 전 세계적으로 지속가능한 에너지 이용을 통한 신기후변화체제로의 이행을 촉진하고 있습니다.

우리나라가 이러한 변화에 적기 대응하기 위해서는 무엇보다 원전 운영으로 발생한 다량의 방사성폐기물 특히, 사용후핵연료의 안전관리가 뒷받침되어야 합니다. 즉, 사용후핵연료 관리사업의 원활한 추진이 우리나라가 새로운 에너지 패러다임으로 전환할 수 있는 교두보가 될 것입니다.

나아가, 사용후핵연료 관리는 미래세대에게 안전하고 깨끗한 환경을 물려주기 위한 우리세대의 책무이고, 그 특성상 선진기술과 사회적 신뢰를 바탕으로 추진되어야 합니다. 우리나라는 그간 사용후핵연료 안전관리 기술 확보를 위한 노력과 사회적 신뢰 제고를 위한 이해관계자와의 다양한 소통활동을 전개해 왔습니다.

올해 개최되는 제4차 방사성폐기물 안전관리 국제 심포지엄 역시, 이러한 노력의 연장선으로써 사용후핵연료 관리에 대한 국내외 전문가 및 이해관계자 간의 정보를 공유하고 특히, 젊은 세대의 다양한 의견을 주고받는 토론의 장을 마련하고자 합니다. 또한 부지선정부부터 영구처분까지 여러 국가에서 경험한 사용후핵연료 관리 각 단계별 우수사례와 도전과제, 그리고 발생가능한 이슈들을 논의함으로써 우리나라의 사용후핵연료 관리사업 추진을 위한 교훈을 얻을 수 있는 기회가 되기를 바랍니다.

사용후핵연료 관리에 관심있는 많은 분들이 부디 저희 심포지엄에 참석하셔서, 소중한 의견을 제시해 주시기 바랍니다. 감사합니다.

한국원자력환경공단 이사장 직무대행 **조 병 옥**



Background

Kori No.1 reactor, which is the very first commercial reactor in Korea, was permanently shut down in June this year. The shutdown of Kori No.1 reactor marked a beginning for transition to new government energy policy in Korea. At the same time, the Paris Agreement adopted in 2015 encourages the global efforts to develop and use sustainable energy for new climate regime.

The adaptation to domestic and international changes in energy policy is depending on safe management of spent nuclear fuel as well as radioactive waste, considerably generated from reactor operation. In other words, transition to new energy paradigm should be underpinned by the stable infrastructure and circumstance that spent nuclear fuel could be managed safely.

Additionally, safe management of spent nuclear fuel is one of responsibilities that our generation should take on for future. It will also mean that we can pass on the clean environment to the next generations as precious heritage.

With good recognition of those points, great efforts to improve the technology for safe management of spent nuclear fuel and to encourage the open communication with the public and the stakeholders have been made in Korea. The International Symposium on Safety Improvement & Stakeholder Confidence in Radioactive Waste Management (SaRaM) is intended to provide the opportunities for knowledge & information exchange and opinion sharing among the experts and the stakeholders, and to listen to the voices of young generation. In particular, the issues on spent nuclear fuel management will be discussed during the 4th SaRaM, focused on challenges and good practices of each step of spent nuclear fuel management from siting process to the final disposal.

The people who are interested in spent nuclear fuel management and, every opinion presented during the symposium will be welcome and appreciated.

Acting President & CEO **Byung-Oke Cho**



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Program 프로그램

September 28, The Sheraton Grand Walkerhill

시간	프로그램	비고	
08:30 ~ 12:00	Opening Session(오프닝 세션)	Vista Hall	
	Opening Remark(개회사)	Byung-Oke Cho (조병옥)	KORAD
	Congratulatory Remark(축사)	Director general (원전산업정책관)	MOTIE
	Keynote Presentation(기조발표)	William D. Magwood	OECD/ NEA
	General Presentations on HLW management (국가현황 발표)		
08:30 ~ 12:00	<ul style="list-style-type: none"> National policy and future plan for HLW management in Korea 한국의 고준위방폐물 관리현황 Current status of SNF management in China 중국의 사용후핵연료 관리현황 Current status of HLW management in France 프랑스의 고준위방폐물 관리현황 Current status of SNF management in Finland 핀란드의 사용후핵연료 관리현황 	Joo Wan Park (박주완)	KORAD
		Ye Guoan	CIAE
		Patrick Landais	ANDRA
		Kimmo Lehto	Posiva
12:00 ~ 13:00	Lunch(점심식사)		
13:00 ~ 15:30	Panel Discussion I (패널토의 I)	Vista Hall(Chair 좌장 : Jong Woon Park 박종운)	
	Technically and socially reliable ways of siting process for high level waste management facilities 고준위방폐물 관리시설 부지선정 방안	Stratis Vomvoris Patrick Landais Motoyuki Yamada Young Seok Oh (오영석) Sang Hoon Lee (이상훈)	Nagra ANDRA NUMO Dongguk Univ. NGO
15:30 ~ 16:00	커피 브레이크		
16:00 ~ 18:00	Panel Discussion II(패널토의II)	Vista Hall(Chair 좌장 : Chul-Hyung Kang 강철형)	
	How to develop and operate the URL in an effective way 지하연구시설의 효과적인 운영 방안	Stratis Vomvoris Daniel Delort Eiji Sasao Kimmo Lehto Jeong Hyun Yoon (윤정현) Min Hoon Baik (백민훈) Sang Ki Kwon (권상기)	Nagra ANDRA JAEA Posiva KORAD KAERI Inha Univ.

September 29, KORAD HQ

시간	프로그램	비고	
10:00 ~ 12:40	Talk Concert(토크 콘서트)	Conferenec Hall 국제회의실	
	Introduction(인사말 및 소개)	Chunhyung Cho (조천형)	KORAD
	Presentation(발표)	William D. Mag- wood Christophe Xerri	OECD/NEA IAEA
	Q&A(질의응답)		
	Closing Remark(맺음말)	Chunhyung Cho (조천형)	KORAD
12:40 ~ 14:00	Lunch(점심식사)		
14:00 ~ 16:00	Technical Tour to LILW disposal facility 중저준위방폐물 처분시설 시찰	Wolsong LILW Disposal Center 월성환경관리센터	

Official Language 공식 사용 언어

- English will be spoken language during the symposium. Translation will be also provided.

심포지엄은 영어로 진행되며, 동시통역이 제공됩니다.

Contacts 연락처 및 등록문의

Ms. Ou Jeong YOO 유우정 과장

Tel +82-54-750-4371 Email dnwjddl00@korad.or.kr

Registration fee is free.(별도 등록비는 없습니다.)

Practical Information 행사장 안내

Direction 오시는 방법

▶ From Incheon Airport



STEP 01

From the Passenger Terminal(1F), locate exit #4 or #11 and go outside.



STEP 02

Buy bus tickets for #6705 at the ticket booth next to the exit.



STEP 03

Take Bus #6705 at Bus Stop 4A or 10B.
• The Bus Stop is right next to the ticket booth.



STEP 04

It takes approx. 90 minutes to Walkerhill.
• The travel time may vary, depending on the traffic situation.

▶ From Gimpo Airport



STEP 01-1

Go down to 1B using the elevator next to GATE1 at International Terminal(1F) and follow the sign for subway line #5.



STEP 01-2

Go down to 1B using the elevator next to GATE2 at Domestic Terminal(1F) and follow the sign for subway line #5.



STEP 02

Go through the turnstile to Sangildong and Macheon) Line #5.



STEP 03

Take the train and get off at Gwangnaru Station (55 min).



STEP 04

Cross the road in front of Exit #2 of Gwangnaru Station, and go to the Complimentary Shuttle stop near the Gwangjin-gu Sports Center.



STEP 05

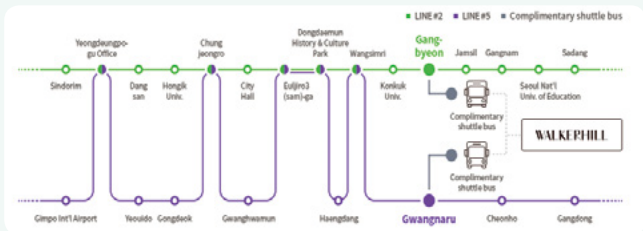
Take the complimentary shuttle bus at the stop.

STEP 06.

It takes about 8 minutes to arrive to Walkerhill.

▶ Subway and complimentary shuttle 지하철 이용 시 —

Gangbyeon Station(Line #2) or Gwangnaru Station(Line#5)

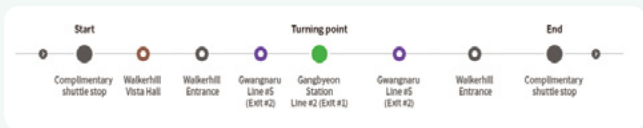


Walkerhill Complimentary Shuttle Bus

•Interval 10min •First Bus 06:00 •Last Bus 23:20

•Gangbyeon Station▶Walkerhill : 15min Gwangnaru Station▶Walkerhill : 8min

※The first and last bus times are based on the times of departure.



▶ From Gangbyeon station 강변역 하차 시 —



Location of Complimentary Shuttle pick-up service via Gangbyeon Station(Line #2)

STEP1

Exit Gangbyeon Station(Exit #1)and go left.

STEP2

Cross two roads, and go towards Guui Park.

STEP3

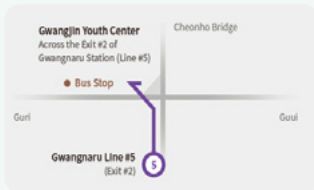
Take the complimentary shuttle bus at the stop.

STEP4

It takes about 15 minutes to arrive at alkerhill.

•The travel time may vary, depending on the traffic situation.

▶ From Gwangnaru station 광나루역 하차 시 —



Location of Complimentary Shuttle pick-up service via Gwangnaru Station(Line #5)

STEP1

Cross the road in front of Exit #2 of Gwangnaru Station and turn left. Head to the complimentary Shuttle bus stop near the Gwangjin-gu Sports Center.

STEP2

Take the complimentary shuttle from at the stop.

STEP3

It takes about 8 minutes to arrive to Walkerhill.

•The travel time may vary, depending on the traffic situation.