ICABU 2026
Program at a glance

Day 1

Plenary Session I — Chair : Moses Chung [POSTECH]

13:00 - 13:30 PM	Welcome & Congratulatory Remarks	Byung Ho Choi [Former Director of KOMAC]	ROOM 201-204
13:30 - 14:00 PM	Taiwan Photon Source: Advances in Accelerator Technology, Beam Utilization, and Future Perspectives	Jui-Che Huang [NSRRC, Taiwan]	
14:00 - 14:30 PM	Automated Commissioning and AI-Assisted Operation for SRF Systems: Studies at HIAF-Linacand European XFEL	Lijuan YANG [IMP/CAS, China]	
14:30 - 15:00 PM	Osprey: AgenticAI for Scientific Infrastructure	Thorsten Hellert [ALS/LBNL, USA]	
15:00 - 15:15 PM	Coffee Break		

Facility Talk I — Chair : Hyung Jin Kim [IRIS/IBS]

15:15 - 15:40 PM	Status of PLS-II, PAL-XFEL, and PAL-EUV	Changbum Kim [PAL]	ROOM 201-204
15:40 - 16:05 PM	Status and Outlook of the RAON Accelerator Facility	Yeonsei Chung [IRIS/IBS]	
16:05 - 16:30 PM	Korea Light Source (KLS) : Current Status and Future Plans	Hyun-Chang Jin [KLS/KBSI]	
16:30 - 16:55 PM	Current status Of SNUH Heavy Ion Therapy Gijang Center	Jong Min Park [SNUH]	
16:55 - 17:10 PM	National Accelerator Policy Center : Introduction & Future Plans	Jongeun Park [KBSI]	
17:10 - 17:20 PM	Coffee Break		

Exhibitor / Sponsor Lightning Talk — Chair : Inhyuk Nam [UNIST]

17:20 - 18:20 PM	Vendor Introduction		ROOM 201-204

Optional Program

18:30 - 22:00 PM	Gyeongju Historical Site Tour		
13:00 - 18:00 PM	Poster Session		2F Lobby

Day 2

Parallel Session

09:00 - 10:25 AM	Parallel Session (WG-2 Beam physics, diagnostics and novel techniques)	ROOM 201-202
	Parallel Session (WG-4 Applications of particle beams)	ROOM 203-204

Working Group - 2 - 1 — Chair : Hyunchang Jin [KBSI]

09:00 - 09:30 AM	Commissioning simulation of the KLS storage ring Joehyun KIM [PAL]	ROOM 201-204
09:30 - 09:45 AM	Simulation study of vertical emittance blow-up in the KLS storage ring Junha KIM [POSTECH]	
09:45 - 10:10 AM	Novel LWFA-driven crystal-based source of γ-radiation, positrons and neutrons Alexei SYTOV [INFN Ferrara Division, Italy]	
10:10 - 10:25 AM	Beam Extraction and Current Optimization of a 5 MeV Microtron for a Compact THZ Free-Electron Laser Myung-Jin BAE [UST]	

Working Group - 4 - 1 — Chair : In-Seok Hong [IBS]

09:15 - 09:45 AM	Cyclotron production challenges of Ac-225 from Ra-226 at QST Ichinose Jun [QST, Japan]	ROOM 203-204
09:45 - 10:05 AM	Feasibility study of Tandem targets for the production of 229Th Vivek CHAVAN [IBS]	
10:05 - 10:25 AM	Mass and Half-Life Distributions of Products Generated by 40–70 MeV Proton Irradiation of a Thorium-232 Target Jaehong KIM [IBS]	
10:25 - 10:40 AM	Coffee Break	

10:40 - 12:10 PM	Parallel Session (WG-2 Beam physics, diagnostics and novel techniques)	ROOM 201-202
	Parallel Session (WG-4 Applications of particle beams)	ROOM 203-204

Working Group - 2 - 2 — Chair : Garam Hahn [KNU]

10:40 - 11:05 AM	High-Yield K10 Beamline Design for Next-Generation Hadron Physics Ji-Gwang HWANG [KNU]	ROOM 201-204
11:05 - 11:30 AM	Design of a Beam Permit and Machine Protection System for the CiADS Wenjuan CUI [IMP/CAS, China]	
11:30 - 11:50 AM	Improving RF Measurement Reliability and Understanding Performance-Limiting Factors in RAON SSR1 Cavities YooJin CHEON [IRIS/IBS]	
11:50 - 12:10 PM	Fabrication and Procedure Improvement of SSR1 Superconducting Cavities for RAON Eunsol GO [IRIS/IBS]	

Working Group - 4 - 2 — Chair: Jun Kue Park [KOMAC/KAERI]

10:40 - 11:10 AM	Edge Termination Design for Radiation-Hardened SiC Power Devices : Proton-Induced TID and SEB Analysis Cgyun Seok [PNU]	ROOM 203-204
11:10 - 11:30 AM	Feasibility of AI Agent-Assisted Enhancement of Therapeutic Efficacy and Indication Expansion in Accelerator-Based Boron Neutron Capture Therapy (AB-BNCT) Byung Ho Choi [Gachon University GIl Medical Center / DAWONMEDAX]	
11:30 - 11:50 AM	Evaluation of Skin-Sparing Effects Using a FLASH Electron LINAC in a Canine Model : A Pilot Clinical and Molecular Study Yosol YU [DAWMS]	
11:50 - 12:10 PM	Future RAON Experiments from Accelerator to Quantum Many-Body Science in the Era of AI, HPC, and Quantum Computing Kihyeon CHO [KISTI]	
12:10 - 13:10 PM	Lunch *Meal Coupon Required	Hall 300C

14:40 - 16:00 PM	Parallel Session (WG-1 Accelerator systems)	ROOM 201-202
	Parallel Session (WG-3 Beamline and instrumentation)	ROOM 203-204

Working Group - 1 - 1 — Chair: Hansung Kim [KOMAC/KAERI]

14:40 - 15:10 PM	PRISM Alliance: Industrializing High-Temperature Superconducting Magnet Technologies for Accelerator Applications Jaemin Kim [PAL]/Standard Magnet Inc]	ROOM 201-202
15:10 - 15:40 PM	SLS 2.0: Upgrade, Commissioning, and Early Operation of the Upgraded Swiss Light Source Jonas KALLESTRUP [Paul Scherrer Institute, Switzerland]	
15:40 - 16:00 PM	RF Overdrive Protection Device for the Superconducting RF System in PLS-II Mujin LEE [PAL]	

Working Group - 3 - 1 — Chair: Hyoungjeen Jeen [PNU]

14:40 - 15:10 PM	Persistence of local atomic configurations in amorphous silica captured by low-dose electron correlation microscopy Soohyeong Lee [KRISS]	ROOM 203-204
15:10 - 15:40 PM	From Accelerator Beam to Useful Neutrons: Beamline and Instrumentation Considerations for Accelerator-Based Neutron Sources Myungkook Moon [KAERI]	
15:40 - 16:00 PM	X-ray nanoprobe characterization of functional materials at ESRF ID16B Eunyoung CHOI [ESRF, France]	
16:00 - 16:20 PM	Coffee Break	

16:10 - 18:00 PM	Parallel Session (WG-1 Accelerator systems)	ROOM 201-202
	Parallel Session (WG-3 Beamline and instrumentation)	ROOM 203-204

Working Group - 1 - 2 — Chair: Heuijin Lim [DIRAMS]

16:20 - 16:50 PM	The development and applications of superconducting linear accelerators at IMP Zhijun WANG [IMP/CAS, China]	ROOM 201-202
16:50 - 17:20 PM	Recent Progress in the Development of the Nonlinear In-Vacuum Kicker at NSRRC Che-Kai Chan [NSRRC, Taiwan]	
17:20 - 17:40 PM	Progress on the Construction of the Large-Scale Helium Cryogenic System at IMP Jun WEN [IMP/CAS, China]	
17:40 - 18:00 PM	Development of pneumatic frequency tuner for RAON 162.5MHz HWR cryomodul Giyeol HAN [IRIS/IBS]	

Working Group - 3 - 2 — Chair: Jinho Lee [IBS]

16:20 - 16:50 PM	Detector and DAQ Systems at RAON's Low-Energy Facility Kwang-Bok LEE [IRIS/IBS]	ROOM 203-204
16:50 - 17:20 PM	Neutron Fluence and Spectrum Measurements at the KRISS Monoenergetic Neutron Fields Young Soo Yoon [KRISS]	
17:20 - 17:50 PM	Current Status of the RAON ISOL System Yeong Heum Yeon [IRIS/IBS]	
18:10 - 21:00 PM	Banquet *Meal Coupon Required	Grand Ballroom [Hilton Gyeongju 1F]
09:00 - 18:00 PM	Poster Session	2F Lobby

Day 3

Plenary Session II — Chair : Hyeok-Jung Kwon [KOMAC/KAERI]

09:00 - 09:30 AM	How EBS changed what science is possible	Gema Martinez-Criado [ESRF, France]	ROOM 201-204
09:30 - 10:00 AM	SNS Electrical Power Conversion Equipment Operational Status	Yu Gang Tan [SNS/ORNL, USA]	
10:00 - 10:30 AM	When Particles Meet Power Devices : Proton and Neutron Induced Destruction Of SiC MOSFETs	Rosine Coq Germanicus [CRISMAT, France]	
10:30 - 10:40 AM	Coffee Break		ROOM 201-204

Facility Talk II — Chair : Seong Hee Park [KU]

10:40 - 11:05 AM	Operational Status and Future Plan of KOMAC	Han Sung Kim [KOMAC/KAERI]	ROOM 201-204
11:10 - 12:00 PM	Oral Poster		
12:00 - 12:10 PM	Closing Remark & Introduction to ICABU2027	Kyeong-Jun Mun [ICABU2026 LOC Chair] Hyungjin Kim [ICABU2027 LOC Chair]	
09:00 - 12:00 PM	Poster Session		2F Lobby

Optional Programs

12:30 PM - A variety of optional programs are available

과학 대중강연 및 멘토링 포럼 (Science Talk & Mentoring) — ROOM 101-102

Session 1 — 좌장: 정이서 교수 [POSTECH] / Chair : Moses Chung [POSTECH]

Science Talk 13:30 - 14:20 PM
가속기가 바꾸는 우리 일상
- 우주탄생의 비밀부터 신소재 및 신약 개발, 최신 암 치료까지
How Particle Accelerators are Transforming Our Everyday Lives
From the Secrets of the Universe's Origins to New Materials, Drugs Discovery, and Advanced Cancer Treatments
Speaker : Garam HAHN [KNU]

Panel Discussion 14:20 - 15:00 PM
대중과의 소통 : 패널 토론
Engaging with the Public / Q&A
Panel : Chang-Beom Kim (PAL), Hyeok-Jung Kwon (KOMAC), Hyun-Chang Jin (KLS), Yeonsei Chung (IRIS), Minchul Han(Yonsei Cancer Center)

15:00 - 15:10 PM Coffee Break

Session 2 — 사회자 : 황지윤 교수 [단양대학교] / Moderator : Ji-Gwang Hwang [KNU]

Mentoring 15:10 - 16:30 PM
가속기 및 빔이용 기술개발 연구방향과 잡 매칭
Research Directions in Accelerator and Beam Application Technology Development & Job Matching

KOMAC Facility Tour — KOMAC/KAERI

12:30 - 14:30 PM
KOMAC/KAERI Facility Tour
- 100 MeV Proton Accelerator -