



LINAC 2026

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LINAC2026 Proceedings

Statement from the Conference Chair

LINAC is the principal biennial gathering of the international linear accelerator community. The 33rd Linear Accelerator Conference (LINAC2026) was hosted in-person by the Institute for Basic Science at the Daejeon Convention Center in Daejeon, Republic of Korea, from 16 to 21 August 2026.

LINAC2026 brought together **387 accelerator scientists, engineers, students, and industry representatives—including 59 student attendees**—to exchange the latest results and practical experience in the design, construction, commissioning, operation, and application of linear accelerators. The scientific programme comprised plenary and invited presentations, contributed talks, oral-poster presentations, poster sessions, and an industrial exhibition, covering both hadron and lepton linacs and the technologies that support them.

Beyond the technical programme, the conference encouraged informal exchange through its social programme, including a cultural visit to Jeonju, the conference banquet, and a technical visit to the RAON heavy-ion accelerator facility. We were especially pleased to welcome students and early-career researchers and to support their participation in the international accelerator community.

We sincerely thank the Scientific Programme Committee, International Organizing Committee, Local Organizing Committee, Editorial Team, session chairs, speakers, authors, exhibitors, sponsors, volunteers, and all participants. Their commitment and cooperation made LINAC2026 a productive and memorable conference.

Hyung Jin Kim
Conference Chair

Foreword to the Proceedings

These proceedings present the papers submitted and accepted for publication from the contributions delivered at LINAC2026. They record the scientific and technical work reported during the conference and provide a lasting reference for the worldwide linear accelerator community.

Each paper was processed in accordance with JACoW publication standards. The Editorial Team worked closely with the authors before, during, and after the conference to review formatting, resolve publication issues, and prepare the final volume. Presentation materials approved for publication are also available through the conference website.

We thank all authors for preparing and revising their manuscripts, the volunteer editors for their careful and sustained work, and the JACoW Collaboration for its technical guidance and support in producing these proceedings.

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Sunday August 16th		
14:00	Registration	
16:00		Student Poster Session
18:00		
18:30		Welcome Reception
20:00		

Monday	
MO1A	Chair Dong-O Jeon
8:30	Registration
9:00	Welcome
9:20	Yeonsei Chung (IBS) Present status and future plans for linear accelerators in Korea
9:50	Bruce Yee-Rendon (IAEA) Updates on the Worldwide efforts for transmutation of spent nuclear fuel with accelerator driven systems
10:20	Coffee
MO2A	Chair Marion White
11:00	Sonja Jaster-Merz (DESY) High-dimensional beam tomography with PolarIX: Experimental results from DESY and PSI
11:30	Sofia Johannesson (ESS) Beam commissioning of the ESS accelerator: Results and Challenges
11:50	Daniel Gonnella (SLAC) Status of the LCLS-II-HE Upgrade
12:10	Alec Gonzalez (FRIB) Coupled dynamics and transverse matching of intense heavy ion beams
12:30	Lunch
MO1P	Chair Deepak Raparia
14:00	Austin Hoover (ORNL) Four-dimensional phase space tomography from one-dimensional measurements of a hadron beam
14:20	Takao Asaka (QST) Simple and Stable 3-GeV Linear Accelerator in High Brilliance Synchrotron Light Source NanoTerasu
14:40	Yong Liu (KEK) Systematic Mitigation of Intra-Beam Stripping and Distributed Beam Loss in High-Intensity H Linacs: Experimental and Operational Experience at J-PARC
MOOP	Chair Deepak Raparia
15:00	Oral Posters
MOPO	
16:00	Posters

Tuesday	
TU1A	Chair Hans Weise
8:30	Han-Sung Kim (KAERI) Operational Status of the KOMAC 100 MeV Proton Linac and Pilot R&D for the 200 MeV Upgrade
8:50	Olivier Napoly (FNAL) PIP-II project progress and challenges
9:10	Erdong Wang (BNL) High intensity, high polarization electron gun for Electron-Ion Collider
9:30	Chang-Ki Min (PAL) Photocathode-driven injector linac design for Korea-4GSR
9:50	Mattia Parise (FNAL) First robotic assisted string assembly of PIP-II SSR2 cavities at Fermilab
10:10	Feng Qiu (IMP) Automated Commissioning and Intelligent Operational Strategies for the HIAF-Linac SRF System
10:30	Coffee
TU2A	Chair Leo Weissman
11:00	Alexander Plastun (FRIB) Charge Selector Challenges in High Power Heavy Ion linacs
11:30	Lightning Talks
12:30	Lunch
TU1P	Chair Yuan He
14:00	Chunguang Jing (Euclid Techlabs) Development and First Beam Generation of A Conduction-Cooled SRF Photogun
14:20	Freddy Severino (BNL) RF System Design of a Polarized, High-Charge Electron Linac for the EIC Pre-Injector
14:40	Paolo Craievich (PSI) FCC-ee Injector complex: status, highlights and outlook
TUOP	Chair Yuan He
15:00	Oral Posters
TUPO	
16:00	Posters

Wednesday	
WE1A	Chair Vyacheslav Yakovlev
8:30	Haitao Ren (ORNL) Post-Mortem Insights into the SNS RFQ: Implication and Paths Forward for high beam power operation
8:50	Ivan Podadera (IFMIF-DONES) Overview and current status of the IFMIF-DONES accelerator systems
9:10	John Moss (ORNL) A survey of the global scientific klystron market and its future
9:30	Weilong Chen (IMP) Status of the HIAF Linac
9:50	Deepak Raparia (BNL) Transforming the BNL 200 MeV H ⁺ linac: 10 ⁴ lower losses, 2x high-current transmission, and 2x lower emittance
10:10	Masahiro Okamura (BNL) High-Current Heavy-Ion Acceleration Above 100 mA in a Four-Rod RFQ
10:30	Coffee
WE2A	Chair Yasuhiro Kondo
11:00	Jeroen van Tilborg (LBNL) Laser-plasma accelerator driven radiation generation and applications
11:30	Frederic Chautard (GANIL) Status of the NEWGAIN Project: The New Heavy Ion Injector for SPIRAL2
11:50	Jayakar Thangaraj (FNAL) Breaking the Cryoplat Barrier: Conduction-Cooled Nb ₃ Sn SRF Linacs for Industrial and Environmental Applications
12:10	Mark Holl (ASU) Bringing Coherent X-Ray Science to the Lab: The ASU Compact XFEL
12:30	Outing

Thursday	
TH1A	Chair Paolo Craievich
8:30	Katja Honkavaara (DESY) 25 years of FEL operation at FLASH (DESY)
8:50	Robert Rimmer (TJNAF) Compact and efficient CW electron LINACs for industrial and environmental applications
9:10	Thomas Lucas (PSI) Intrabeam Scattering and 6D Brightness: Modelling, Measurement, and the Road to a Brighter SwissFEL electron source
9:30	Marten Koopmans (ESS) Technical commissioning of the ESS linac cavities for the Beam on Dump Phases
9:50	Yuan He (IMP) Status of the CjADS Linac
10:10	Kaitaro Kondo (QST) Progress in the LIPAc Validation and the roadmap towards SRF Linac Beam Commissioning
10:30	Coffee
TH2A	Chair Lars Groening
11:00	Shichun Huang (IMP) Development of the composite structure SRF cavities for pursuing high operational stability at IMP
11:20	Sang-hoon Kim (FRIB) Operation challenges of large-scale low-beta SC cavities in heavy ion linac
11:40	Tiancai Jiang (IMP) A universal power coupler developed for three superconducting linear accelerators at IMP
12:00	Student Prizes
12:30	Lunch
TH1P	Chair Hyeok-Jung Kwon
14:00	Aodhan McLivenny (LBNL) Progress on Staging of laser-plasma accelerators
14:20	Claudio Emma (SLAC) Experimental Generation of Extreme Electron Beams for Advanced Accelerator Applications
14:40	Doug Storey (SLAC) Simultaneous boost of electron beam energy and brightness in a plasma wakefield accelerator
THOP	Chair Hyeok-Jung Kwon
15:00	Oral Posters
THPO	
16:00	Posters
19:00	Conference Banquet

Friday	
FR1A	Chair Ivan Aliseda
8:30	Chuanxiang Tang (Tsinghua U) A Very compact Inverse Compton scattering gamma-ray source at Tsinghua University
8:50	Yuga Nakazawa (KEK) Low-emittance muon beam acceleration using a radio frequency quadrupole for the J-PARC muon g-2/EDM Experiment
9:10	Kazuaki Togawa (RIKEN) New-type high-voltage pulse generator with wide-band rf amplifiers: The principle and application for particle accelerators
9:30	Zhencheng Mu (IHEP) Development of MW-Level Compact P-Band Metamaterial Klystrons at CSNS
9:50	Antonio Gilardi (CERN) Status and Overview of the CLEAR Facility at CERN
10:10	Lars Groening (GSI) Demonstration of cavity field mapping by falling drops of liquid
10:30	Coffee
FR2A	Chair Hyung-Jin Kim
11:00	Erik Hosler (xLight) Linacs for lithography
11:30	Steven Lidia (FRIB) Linac Facilities for Single Event Effects Testing
12:00	Benjamin Frisch (CERN) Linacs for societal applications : a journey from an accelerator center to society
12:30	Closing