

The Second Circular

The 23rd International Conference on Accelerators and Beam Utilization (ICABU2019)

November 13 (Wed) – 15 (Fri), 2019

ICC Hotel, Daejeon, Korea

Homepage: <http://indico.ibs.re.kr/e/icabu2019>

The 23rd International Conference on Accelerators and Beam Utilization (ICABU2019) will be held from November 13 to 15, 2019, at ICC Hotel in Daejeon, Korea. The conference covers new developments in accelerator technologies and utilizations of particle beams in a wide range of research fields, spanning from basic science to industrial applications. In addition, a special session on medical equipment utilizing accelerator and beam is formulated to discuss about diverse medical applications.

1. Important dates

Registration: September 30, 2019

Abstract Submission: September 30, 2019

Industrial Exhibitions Registration: September 30, 2019

Full Paper Submission: November 15, 2019

2. Topics

- Accelerator operation and ongoing projects in the world and Korea
Superconducting ion and electron accelerator, Synchrotron light source and XFEL, High power accelerator, Neutron source, Particle therapy facility, Industrial accelerator, etc.
In Korea: RAON, KOMAC, PLS-II, PAL-XFEL
In USA and Canada: FRIB/MSU, ATLAS/ANL, APS/ANL, TRIUMF
In China: CEPC/IHEP
In Europe: European XFEL/DESY, ISOLDE/CERN
- Accelerator Technologies
Ion Sources, RF/SRF technologies, Conventional and SC magnets, Beam instrumentation and diagnostics, Beam dynamics, Radiation shielding & Safety, etc.
- Beam Utilizations
Protons, Neutrons, Ions, and Photons in basic science, materials science, nano, bio-life, information, space, energy & environment, medical applications, industrial processing, etc.

3. Venue

ICABU2019 will be held at Hotel ICC. Detailed information could be found from the website; <http://www.hotelicc.com/eng/index.do>.



4. Abstract submission and Oral presentation

When submitting your abstract, please indicate if you plan to submit your paper later and also if you want to present by poster or oral. If there is sufficient request of oral presentation through the homepage, we will prepare a parallel session in the same time period of the special session on medical device in the afternoon of Nov. 14.

4. Special edition of Journal of Korean Physical Society (JKPS)

Your paper submitted will be considered for a special edition of JKPS after peer-review by the reviewers as for the regular edition. Hence, high-quality papers are expected. **There is a minimum page number of four required by KPS, and the same author can submit a maximum of two papers. The deadline will be rather strictly kept, so please prepare your manuscript in time.**

5. Scientific Program (tentative)

November 13 (Wed.)		
8:00-9:00	Registration	
9:00-9:10	Opening address	Myeun Kwon (RISP/IBS)
	Chair: Myeun Kwon (IBS)	
9:10-9:40	Commissioning Status of the Linac for the Facility for Rare Isotope Beams	Steven Lidia (FRIB/MSU)
9:40-10:10	CEPC status and plan	Jie Gao (IHEP)
10:10-10:40	Pushing the Frontier of Accelerator Applications at TRIUMF	Alexander Gottberg (TRIUMF)
10:40-11:00	Coffee break	
	Chair: In-Soo Ko (POSTECH)	
11:00-11:30	Operation of the European XFEL	Winfried Decking (DESY)
11:30-12:00	Capabilities of Current and Future X-ray Sources	Kwang-Je Kim (U. Chicago)
12:00-12:10	Photo taking	
12:00-13:30	Lunch	
	Chair: Do-Young Noh (GIST)	
13:30-14:00	Developments of SCUs for the light sources	Efim Gluskin (ANL)
14:00-14:30	Experience with Radioactive Ion Beam Diagnostics at ATLAS	Clay Dickerson (ANL)
14:30-15:00	Facility talk 1: Progress of the Rare Isotope Science Project (RISP)	Myeun Kwon (RISP/IBS)
15:00-15:20	Coffee break	
	Chair: Kwang-Je Kim (Univ. of Chicago)	
15:20-15:50	Facility talk 2: Introduction to beam facility of KOMAC and utilization	Jun Kue Park (KAERI)
15:50-16:20	Facility talk 3: Operation status of PAL	Heung-Soo Lee (PAL/POSTECH)
16:20-18:20	RAON facility Tour	
November 14 (Thur.)		
	Chair: Sunmog Yeo (KAERI)	
9:00-9:30	Required technologies for the fabrication of solid state based quantum devices	Jan Meijer (U. Leipzig)
9:30-10:00	Use of MeV energy electrostatic accelerators in materials modification and analysis	Stjepko Fazinic (Rudjer Boskovic Institute)
10:00-10:20	Fine Controlling for Luminescence Color of Carbon based nanomaterials through Charged-Beam Irradiation	Dong-Hyuk Park (Inha U.)
10:20-10:40	Coffee break	

	Chair: Heung-Soo Lee (POSTECH)	
10:40-11:10	Recent Progress in High Temperature Superconductor Magnet Technology for High Field Magnet Applications	Seungyong Hahn (Seoul Nat'l U.)
11:10-11:30	Current Status of Two New 4th Generation Synchrotron Light Source Proposals in Korea - Chungbuk and Jeonnam	Yujong Kim (KAERI)
11:30-11:50	Lattice Design and Beam Dynamics Studies for Fourth-Generation Storage Ring	Seunghwan Shin (PAL/POSTECH)
11:50-12:10	Radiation generation with an existing demonstrator of energy-recovery CW SRF accelerator	Ji-Gwang Hwang (HZB, Germany)
12:10-12:20	Photo taking	
12:20-13:00	Lunch	
	Special Session: Medical device utilizing accelerator and beam	
	Chairs: Se-Byung Lee (NCC), Woo-Yoon Park (Chungbuk Nat'l Univ.)	
13:00-13:40	Proton Stimulation Therapy on Alzheimer's Disease Mouse Model	Jong-Ki Kim (Daegu Catholic U.)
13:40-14:20	The Italian National Centre for Oncological Hadrontherapy: Status and Perspectives	Sandro Rossi (CNAO, Italy)
14:20-14:40	Coffee break	
	Chairs: Jungwon Kwak (Asan Medical Center), Do-Hoon Lim (Sungkyunkwan Univ.)	
14:40-15:10	Laser Wakefield Accelerator for Very High Energy Electron Beam Therapy	Jaehoon Kim (KERI)
15:10-15:40	Research & Development using ion beams at HIMAC	Shigekazu Fukuda (NIRS/QRST, Japan)
15:40-16:10	Clinical Applications of A-BNCT	HyoJeong Seo (Dawon Medax)
16:10-16:40	Flash RT: From Photon to Particle	Woo-Yoon Park (Chungbuk Nat'l U.)
16:40-17:00	Coffee break	
	Ui-Jung Hwang (Chungnam Nat'l Univ.)	
17:00-18:00	Oral presentations	
18:30-20:30	Banquet	
November 15 (Fri.)		
	Chair: Young-Kwan Kwon (IBS)	
9:00-9:30	Post-acceleration of Radioactive Ion Beams at the ISOLDE/CERN facility	Alberto Rodriguez (ISOLDE/CERN)
9:30-10:00	Status of experimental systems of RAON	Taeksu Shin (RISP/IBS)
10:00-10:20	Instrumentation for the Facility for Rare Isotope Beams	Steven Lidia (FRIB/MSU)
10:20~10:50	The continuous beam muon source in Japan, RCNP-MuSIC	Akira Sato (RCNP/Osaka U.)
10:50-12:00	Poster Session with Coffee	
12:30-18:00	Historic Site tour	

6. Accommodation

There are two hotels and one guest house within walking distance from the venue as listed in the table below. In addition, there are many hotels in Daejeon area and public transportation to the venue is available. For Q&As regarding the hotel reservation, please contact icabu2019@ibs.re.kr or Mr. Beomsoo Joo (bjoo@ibs.re.kr / +82-42-878-8740).

Hotel	Location	Distance
Hotel ICC Single: 67,500KRW (appx. 60USD) Double: 85,500KRW (appx. 75USD) ※ Breakfast Included (Several rooms are blocked for this Conference. For reservation, please call +82-42-866-5000)	Convention Complex	Within walking distance
Lotte City Hotel Single/Twin: 120,000KRW (appx. 100USD) ※ Breakfast : 20,000KRW / 1person (For reservation, please fill in the form and e-mail it to rsv.city.daejeon@lotte.net) ★ Lotte City Hotel Room Reservation Form ★ https://indico.ibs.re.kr/event/307/picture/30.xls		
Guest House Single: 40,000KRW (appx. 35USD) Double: 55,000KRW (appx. 50USD) ※ Without Breakfast		
Toyoko-inn	Dunsan Area	~10min. by car
Grayton Hotel		
Hotel Intercity	Yuseong Spa Area	~15 min. by car
Yuseong Hotel		
Ramada Hotel		
Kyeryong Spatel		

7. Industrial exhibition

The industrial exhibition will be an opportunity for the industries to show their products to the community of accelerators and experimental physics. The booth reservation for the exhibition is due by Sep. 30, 2019. The allocation of the booths will be made on a "first come - first served" basis so we highly recommend reserving one early. The fee charged is around 1,500,000KRW (appx. 1,250 USD) for a single booth and 2,500,000KRW (appx. 2,100USD) for a double booth. For details, please visit ICABU Website (<https://indico.ibs.re.kr/event/307/page/2>), and for Q&As, please contact icabu2019@ibs.re.kr or Mr. Beomsoo Joo(bjoo@ibs.re.kr / +82-42-878-8740).

8. Historic site tour on November 15

A tour is planned on Nov. 15 to visit Buyeo area, where is a part of UNESCO World Heritage site. This area is rich in the history of an old Kingdom of Baekjae (白濟, BC 18 ~ AD 660). Baekjae had intimate relationship with old China and Japan, and some historical sites will be visited. Please indicate your intention of taking the tour when you register at the website.

The tour schedule is as follows:

Time	Tour Course	
12:30 – 13:30	Hotel ICC to Buyeo	
13:30 – 14:30	Royal Tombs Park	
14:30 – 16:00	National Museum	
16:00 – 17:00	Jeongnimsa Temple Site	
17:00 – 18:00	Seodong Park and Gunghnamji Pond	
18:00 – 19:00	Buyeo to Hotel ICC	

- ※ It takes about 60 minutes to arrive Buyeo (one-way trip) and the bus will leave at 12:30 PM in front of the Hotel ICC main gate.
- ※ Lunch (Sandwich Box) will be provided in the tour bus.
- ※ The tour schedule is subject to change without prior notice.

9. Visa application

If you need a personal letter of invitation to attend the Forum, please email to icabu2019@ibs.re.kr and provide the following information:

- Full name and Affiliation
- Complete mailing address
- Email address
- Phone number

The invitation letter for Visa application will be emailed to you. A hard copy could be mailed as per your request.