ISDEIV

四川大學 SICHUAN UNIVERSITY IEEE DEIS

ISDEIV 2025

CONFERENCE PROGRAM

The 31st International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV)

Sept. 21 - 26, 2025 | Chengdu, China



31st International Symposium on Discharges and Electrical Insulation in Vacuum

ISDEIV 2025

Conference Program

September 21st-26th, 2025 ● Chengdu, China



https://isdeiv2025.org

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清洁能源电力系统与装备四川省重点实验室 CLEAN ENERGY POWER SYSTEM AND EQUIPMENT KEY LABORATORY OF SICHUAN PROVINCE

中国南方电网 CHINA SOUTHERN POWER GRID 广东电网广州供电局

ISDEIV2025 Schedule

Date Venue	09/20 Sat	2025/09/21 Sun	2025/09/22 Mon	2025/09/23 Tue	2025/09/24 Wed	2025/09/25 Thu	2025/09/26 Fri
8:00							
9:00		Workshop I: 8:30-10:00 Breakdown in vacuum Hiroki Kojima	Opening Session 8:30-8:50 Dyke Award 8:50-9:50	Oral 3 8:30-10:00	Oral 5 8:30-10:00	Oral 7 8:30-10:00	Oral 10 8:30-10:00
10:00		Break 10:00-10:30	Photo & Break 9:50-10:30	Break 10:00-10:30	Break 10:00-10:15 Oral 6 10:15-11:30	Break 10:00-10:30	Break 10:00-10:30
11:00		Workshop II: 10:30-12:00 Surface flashover in vacuum Guanjun Zhang	Oral 1 10:30-12:00	Poster 1 10:30-12:00		Poster 3 10:30-12:00	Oral 11 10:30-11:30
12:00		Buffet 12:00-13:30 Lunch & Learn 12:00-13:00	Buffet 12:00-13:00	Buffet 12:00-13:00		Buffet 12:00-13:00	Closing Ceremony 11:30-12:30
13:00	Registration 13:00-21:00		Oral 2 13:00-14:30	Oral 4 13:00-14:30	Excursion 11:30-18:00	Oral 8 13:00-14:30	Buffet 12:30-13:30
14:00		Workshop III: 13:30-15:00 Scientific writing-1 Raymond Boxman	Break 14:30-15:00	Break 14:30-15:00		Break 14:30-15:00	
15:00		Break 15:00-15:30	Chatterton Award 15:00-17:00	Poster 2 15:00-16:30		Oral 9 15:00-16:30	
16:00		Workshop IV: 15:30-17:00 Scientific writing-2 Raymond Boxman					
17:00				Panel discussion 16:30-18:30		Poster 4 16:30-18:30	
18:00		Reception 18:00-21:00	Best Film Award 17:15-18:15				
19:00					Banquet 18:00-22:00		
20:00		PISC Meeting 19:30-21:00		PISC Meeting 19:30-21:00		PISC Meeting 19:30-21:00	
21:00							

Note for Registration

From 13:00~21:00 on Sept. 20 and from 8:30~21:00 on Sept. 21 in the foyer in **Qinghuang Holiday Inn**.
From 8:30, Sept. 22~26 in the foyer outside the conference room in **Tianfu Intl. Convention Center.**

ISDEIV 2025 Programs at a Glance

Date	2025/9/20 Sat	2025/9/21 Sun		
Venue	Qinhuang Holiday Inn		Tianfu Intl. Convention Center	
Room			115 Jiuzhai	118 E'Mei
8:00				
		Registration (8:30~21:00)	**Workshop I** **Breakdown in Vacuum** **8:30~10:00** **Prof. Hiroki Kojima**	
9:00				
10:00			Break 10:00~10:30	
			Workshop II **Surface flashover in Vacuum** **10:30~12:00** **Prof. Guanjun Zhang**	
11:00				
12:00				Buffet 12:00~13:30 / Lunch& Learn 12:00-13:00
13:00	Registration (13:00~21:00)			
			Workshop III **Scientific Writing - I** **13:30~15:00** **Prof. Raymond Boxman**	
14:00				
15:00			Break 15:00~15:30	
			Workshop IV **Scientific Writing - II** **15:30~17:00** **Prof. Raymond Boxman**	
16:00				
17:00				
18:00		Welcome Reception 1F YUE Cafe 18:00-21:00		
19:00		PISC Meeting 3F Xilingxueshan 19:30~21:00		
20:00				
21:00				

ISDEIV 2025 Programs at a Glance

Date	2025/9/22 Mon		
Venue	Tianfu Intl. Convention Center		
Room	Foyer	115 Jiuzhai	118 E'Mei
8:00			
	Registration (8:30~18:15)	Opening Session 8:30~8:50	
		Dyke Award 8:50~9:50	
9:00			
		Photo & Coffee 9:50~10:30	
10:00			
		Oral 1 A1 10:30~12:00	
11:00			
12:00			Buffet 12:00~13:00
13:00		Oral 2 A2 13:00~14:30	
14:00			
		Break 14:30~15:00	
15:00	Chatterton Award 15:00~17:00		
16:00			
17:00			
		Best Film Award 17:15~18:15	
18:00			
19:00			
20:00			
21:00			

ISDEIV 2025 Programs at a Glance

Date	2025/9/23 Tue					2025/9/24 Wed		
Venue	Tianfu Intl. Convention Center					Convention Center		Crowne Plaza
Room	Foyer	115 Jiuzhai	Foyer	114 Wawushan	118 E'Mei	Foyer	115 Jiuzhai	
8:00								
9:00	Registration 8:30~18:30	Oral 3 B1+C3 8:30~10:00				Registration (8:30~11:30)	Oral 5 B3 8:30~10:00	
10:00		Break 10:00~10:30					Break 10:00-10:15	
11:00			Poster 1 A1+A2+ B5+C2 10:30~12:00				Oral 6 B4 10:15~11:30	
12:00					Buffet 12:00~13:00		Excursion (Sanxingdui Museum) 11:30~18:00	
13:00		Oral 4 B2+C4 13:00~14:30						
14:00		Break 14:30~15:00						
15:00			Poster 2 B1+B2+C4+ C5+D 15:00~16:30					
16:00		Panel discussion 16:30~18:30						
17:00								
18:00								Banquet (2F Grand Ballroom) 18:00~22:00
19:00				PISC Meeting 19:30~21:00				
20:00								
21:00								
22:00								

ISDEIV 2025 Programs at a Glance

Date	2025/9/25 Thu					2025/9/26 Fri		
Venue	Tianfu Intl. Convention Center					Tianfu Intl. Convention Center		
Room	Foyer	115 Jiuzhai	Foyer	114 Wawushan	118 E'Mei	Foyer	115 Jiuzhai	118 E'Mei
8:00								
	Registration (8:30~18:30)	Oral 7 B4 8:30~10:00				Registration (8:30~11:30)	Oral 10 C3+C4 8:30~10:00	
9:00								
10:00		Break 10:00~10:30					Break 10:00~10:30	
			Poster 3 B3+B4 10:30~12:00				Oral 11 B5+C2+ C5+C6 10:30~11:30	
11:00								
12:00					Buffet 12:00~13:00		Closing Ceremony 11:30~12:30	Buffet 12:30~13:30
13:00		Oral 8 C1 13:00~14:30						
14:00		Break 14:30~15:00						
15:00		Oral 9 C1 15:00~16:30						
16:00			Poster 4 C1 16:30~18:30					
17:00								
18:00								
19:00				PISC Meeting 19:30~21:00				
20:00								
21:00								

PREFACE

Welcome address of the PISC & LOC chairman

Dear colleagues and participants of ISDEIV2025,

It is my great honor to welcome you to Chengdu, China, for the 31st International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV 2025).

Over the past 61 years, ISDEIV has evolved significantly. Initially, the topics centered around "The Insulation of High Voltages in Vacuum (IHVV)". As time went by, the scope was expanded to incorporate "Vacuum Arcs and Applications". The expansion of themes has made ISDEIV a forum that focuses on both fundamental research and applied technologies. At the beginning, the participants were mainly from the United States, accompanied by a few European scholars. After decades, today representatives from Asia, Europe, and America biennially gather to form a truly international and diverse platform.

Energy remains a key factor in the development of human society. Fusion energy has received more widespread attention nowadays, and its key technologies have been constantly making new progress recently. There are a large number of issues in this field related to the ISDEIV conference topics, including vacuum insulation and discharge in accelerators, particle sources, and so on. This connection between fusion energy and ISDEIV highlights the relevance and timeliness of our discussions.

With growing concern over environmental issues, it is becoming increasingly important for vacuum switch technology to move towards higher voltage levels. In Europe and Asia, 145 kV single-break (126 kV in China) vacuum switches, including VCB and GIS, have been successfully developed and rapidly applied. In China, the 252 kV single-break vacuum circuit breaker has been developed and put into operation in the demonstration project. In addition, 420 kV and 550 kV multi-break vacuum circuit breakers are also under development. Research on the application of vacuum interrupters with a voltage level of hundreds of kilovolts to HVDC circuit breakers is also being carried out

simultaneously. All these indicate that vacuum switch technology will greatly contribute to the development of clean energy.

Yet significant challenges still remain. The pursuit of higher voltage levels, current ratings, and reliability demands deeper fundamental research into breakdown mechanisms, advanced contact materials, and innovative arc control designs.

The rapid advancement of AI technologies presents both opportunities and challenges for our field. Machine learning algorithms are enabling new insights from vast experimental datasets, while digital twin technologies offer transformative potential for device optimization. These tools demand that we rethink traditional research paradigms and develop new interdisciplinary collaborations.

This year's symposium features three specialized workshops that blend cutting-edge research with professional development: the "Breakdown in Vacuum" workshop will delve into fundamental mechanisms and predictive models for high-electric-field applications; the "Surface Flashover in Vacuum" session will focus on interfacial phenomena and mitigation strategies for high-voltage systems; while the "Scientific Writing in English" workshop aims to enhance researchers' international communication skills - together representing our holistic approach to advancing both technical innovation and researcher development in this academic community.

Finally, I wish everyone a fruitful and happy experience during ISDEIV2025 in Chengdu. Let's work together to promote the development of vacuum insulation and discharge science and technology to meet the urgent needs of this constantly changing world.



Chairman of Permanent International Scientific Committee of ISDEIV
Chairman of Local Organization Committee of ISDEIV 2025, Chengdu

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Conference committees

Permanent International Scientific Committee (PISC)

Shenli JIA	P.R. China	Chair
Alexander BATRAKOV	Russia	Vice Chairman
Michael KURRAT	Germany	Secretary
Matthew M. HOPKINS	USA	Treasurer
René P.P. SMEETS	The Netherlands	Chairman of Awards Committee
André ANDERS	Germany, USA	
Raymond L. BOXMAN	Israel	
Antonio DE LORENZI	Italy	
Flyura DJURABEKOVA	Finland	
Edgar DULLNI	Germany	
Leslie T. FALKINGHAM	United Kingdom	
Eiji KANEKO	Japan	
Sandeep KULKARNI	India	
Akiko KUMADA	Japan	
H. Craig MILLER	USA	
Irina POLUYANOVA	Russia	
Dirk UHRLANDT	Germany	
Jiyan ZOU	P. R. China	

Local Organizing Committee (LOC)

Shenli JIA	Sichuan University	Chairman
Zongqian SHI	Xi'an Jiaotong University	Vice Chairman
Xiaolong HUANG	Sichuan University	Executive chairman/Secretary
Wenjun NING	Sichuan University	Publication
Longwen WU	Sichuan University	IT
Jiyan ZOU	Dalian University of Technology	
Lijun JIN	Tongji University	
Jianwen WU	Beihang University	
Guanjun ZHANG	Xi'an jiaotong University	
Xiaoming LIU	Hebei University of Technology	
Yong WANG	China Southern Power Grid	
Tao SHAO	Chinese Academy of Sciences	
Guangning WU	Southwest Jiaotong University	
Junjia HE	Huazhong University of Technology	
Meng WANG	China Academy of Engineering Physics	
Jianying ZHONG	China Electrical Equipment Group Co., Ltd.	
Junping CHEN	Chengdu Xuguang Electronics Co., Ltd	
Saikang SHEN	Sichuan University	
Qiang TANG	Sichuan University	

Scientific Program

Topics

A BREAKDOWN AND FLASHOVER

A1. Vacuum breakdown and pre-breakdown phenomena
A2. Surface discharges and flashover phenomena

B VACUUM ARCS

B1. Switching in vacuum and related phenomena
B2. Interaction of vacuum arcs with magnetic fields
B3. Vacuum arc physics
B4. Modeling and simulation
B5. Pulsed power physics and technology

C APPLICATIONS

C1. Vacuum interrupters and their applications
C2. Surface science and modification and related technologies
C3. Electron, ion, neutron, X-ray and other beam and light sources
C4. Accelerator and fusion reactor related issues
C5. Space related technologies
C6. Vacuum microelectronics and their applications

D OTHERS

Awards

WALTER P. DYKE AWARD 2025

DA-I-01 Dynamic Insulation and E-stress Sharing in Transmission-level Vacuum Circuit Breakers

Sept. 22, 8:50-9:50
Ph. D Jiyan Zou, Dalian University of Technology,
Professor, China



ISDEIV BEST PAPER AWARD – JAPAN PRIZE 2023

A. Daibo, Y. Niwa, Y. Sasaki, T. Saito, and T. Yoshida

Measurement of Electrode Surface Temperature and Post-Arc Current in Vacuum Interrupter

PAUL A. CHATTERTON YOUNG INVESTIGATORS AWARD 2025

Awardees will be selected during the symposium

BEST FILM AWARD 2025

Awardees will be selected during the symposium

Workshops

Date: Sunday, Sept. 21st
Venue: Room 115, Jiuzhai, Tianfu Intl. Convention Center
Chair: Prof. Shenli Jia
No. 3333 Shuzhou Road, Tianfu New Area, Shuangliu District, Chengdu
Direct access by Chengdu Metro Line 1 or Line 6 at Western China International Expo City Station. The convention center is 420 meter away from Exit E.

Workshop I

Time: 8:30~10:00

WS-1 Breakdown in Vacuum

Assoc. Prof. Hiroki Kojima, Nagoya University, Japan



Workshop II



Time: 10:30~12:00

WS-2 Surface flashover in Vacuum

Prof. Guanjun Zhang, Xi'an Jiaotong University, China

Workshop III



Time: 13:30~15:00

WS-3 Scientific writing-1

Prof. Raymond Boxman, Tel Aviv University, Israel

Workshop IV

Time: 15:30~17:00

WS-4 Scientific writing-2

Prof. Raymond Boxman, Tel Aviv University, Israel

Lunch& Learn Session

Time:	12:00-13:00
Date:	Sunday, Sept. 21st
Moderator:	Dr. Moein Borghei
Venue:	Room 118, E' Mei, Tianfu Intl. Convention Center
Format:	Fireside chat with keynote guest + moderated Q&A
Session Title:	A Fireside Chat with Prof. Raymond Boxman: Career Paths, Research Frontiers, and Mentorship for Young Professionals

1. Agenda

12:00–12:03	Welcome & housekeeping
12:03–12:05	Introduction of Prof. Raymond Boxman
12:05–12:30	Presentation from Prof. Boxman: career trajectory, leadership in engineering, research lessons, and mentoring experiences.
12:30-12:50	Open audience Q&A (prepared questions asked by moderator + questions asked by attendees)
12:50-13:00	Closing remarks, group photo, and call-to-action (join DEIS YP, mentorship sign-ups)

Note 1: If you want to ask questions to Professor Boxman, you may either ask them on-site or write it down on a piece of paper and send to us, and Dr. Moein will help you to ask.
Note 2: Designed to complement Prof. Boxman's Scientific Writing Workshop later in the day. The L&L focuses on personal and professional development, while the workshop delivers practical training in technical writing.

2. Objectives

Engagement:	Offer an informal forum for young professionals to interact with Prof. Boxman outside his formal workshop.
Mentorship:	Share stories and lessons learned from a distinguished career in research, academia, and leadership.
Knowledge Sharing:	Provide big-picture perspectives on career transitions, resilience in research, and leadership in engineering.
Complementarity:	Distinguish the L&L from the Scientific Writing Workshop by emphasizing mentorship and career guidance rather than writing mechanics.
Visibility:	Publish highlights and photos in IEEE Electrical Insulation Magazine (EIM) to reach the wider DEIS community.

3. Short Description (for program & website)

Grab your lunch, and join us for a fireside chat with Prof. Raymond Boxman at ISDEIV 2025. In this session, Prof. Boxman will share stories from his remarkable career, highlight pivotal lessons in research and leadership, and offer practical advice for the next generation of engineers. Organized by the IEEE DEIS Young Professionals, the event is designed especially for graduate students, postdocs, and early-career engineers who want inspiration and guidance that goes beyond technical skills. This Lunch & Learn sets the stage for Prof. Boxman's afternoon Scientific Writing Workshop by focusing on mentorship, career growth, and building community—don't miss this chance to connect, learn, and be inspired.

Invited Speakers

A1-I-01 Theoretical understanding of vacuum arcing phenomenon within the CLIC project at CERN



Sept. 22, 10:30-10:55

Prof. Flyura Djurabekova

University of Helsinki, Finland

A2-I-01 Surface secondary electron emission and charge trap parameters: physics, measurement and applications



Sept. 22, 13:00-13:25

Prof. Guanjun Zhang

Xi'an Jiaotong University, China

C3-I-01 Fore-vacuum plasma source of electrons



Sept. 23, 8:30-8:55

Prof. Efim Oks, IEEE Fellow

Tomsk State University of Control Systems and Radio electronics (TUSUR), Russia

C4-I-01 Summary of fifteen years of HVDC experiments and tests in vacuum at the High Voltage Padova Test Facilities



Sept. 23, 13:00-13:25
Nicola Pilan
Consorzio RFX, Italy

B3-I-01 Spectroscopic Studies of Fast Phenomena in Vacuum Switching Arcs



Sept. 24, 8:30-8:55

Prof. Dirk Uhrlandt

Leibniz Institute for Plasma Science and Technology, Germany

B4-I-01 Plasma-cathode interaction in vacuum, unipolar and high-pressure arcs



Sept. 24, 10:15-10:40

Dr. Helena Kaufmann

Research Engineer, Simens Energy Global GmbH & Co. KG, Germany

C1-I-01 Effect of Contact Materials on the DC Interruption Characteristics of a TMF Vacuum Circuit Breaker



Sept. 25, 13:00-13:25

Prof. Akiko Kumada

The University of Tokyo, Japan

C1-I-02 Considerations on data management in VCB research



Sept. 25, 15:00-15:25

Prof. Michael Kurrat

eleina Institute for High Voltage Technology and Power Systems, Technische Universitaet Braunschweig, Germany

C3-I-02 Wire-shorted rod-pinch diode for flash x-ray radiography and dynamic x-ray diffraction



Sept. 26, 8:30-8:55
Prof. Huantong Shi
Xi'an Jiaotong University, China

Panel Session

Date: Tuesday, Sept. 23rd

Time: 16:30-18:30

Title: Limitations of vacuum switching technology (and how to overcome these)?

Venue: Tianfu Intl. Convention Center

Moderator: René Smeets

Session 1: Vacuum in high-voltage current interruption

Application of HV vacuum switchgear in China



Xiaomin Zhao

Pinggao-XJTU Power Equipment Research Institute, China

Physics of high-voltage vacuum interruption



Thierry Delachaux

Hyosung Heavy Industries, Netherlands/South Korea

High-voltage vacuum interrupter development



Thomas Heinz

Siemens Energy, Germany

High-voltage DC interruption with vacuum interrupters



René Smeets

KEMA Labs, Netherlands

Session 2: Vacuum interrupter technology for medium voltage application

Medium voltage vacuum interrupter development



Dietmar Gentsch

ABB AG, Germany

Manufacturing technology of vacuum interrupters



Martin Leusenkamp

Eaton, China/US

Low- and medium voltage DC interruption with vacuum



Tarek Lamara

Sécheron, Swiss

Ultra-high current interruption phenomena in vacuum interrupters



Thomas Brauner

Siemens AG, Germany

Session 3: Vacuum for the future research activities

Modelling of vacuum arcs and plasma



Xiaolong Huang

Sichuan University, China

Breakdown phenomena in vacuum gaps



Yuki Inada

University of Saitama, Japan

Experimental research of high current vacuum arc phenomena



Zhiyuan Liu

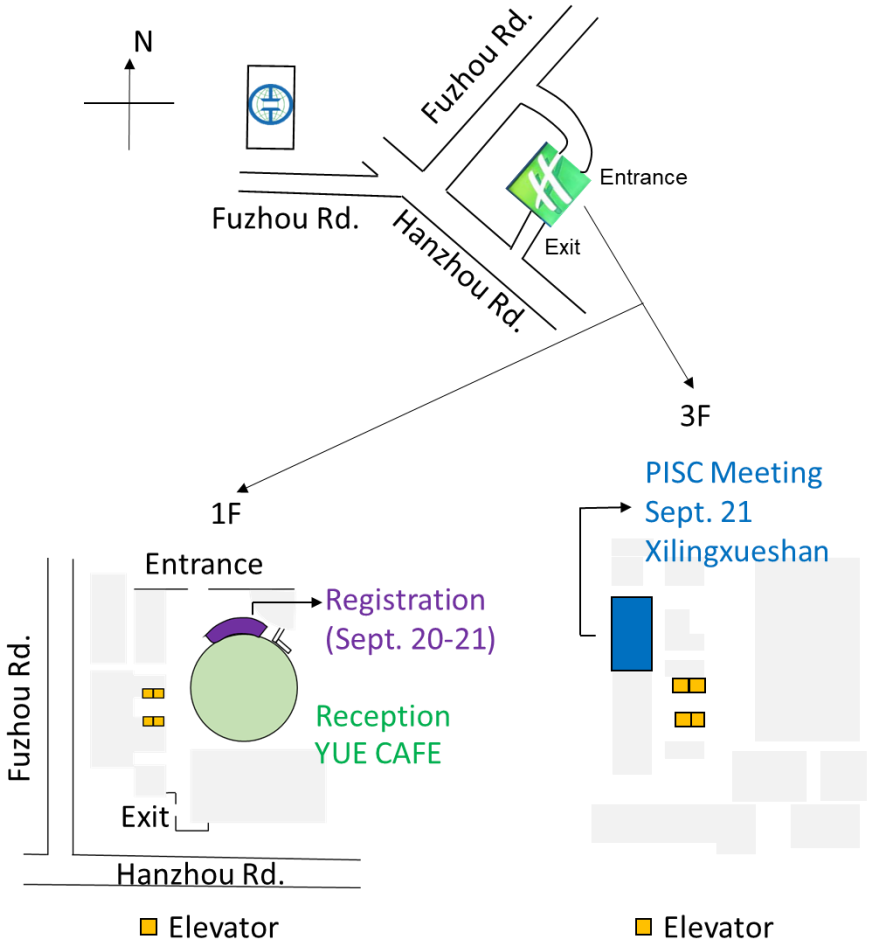
Xi'an Jiaotong University, China

Format:

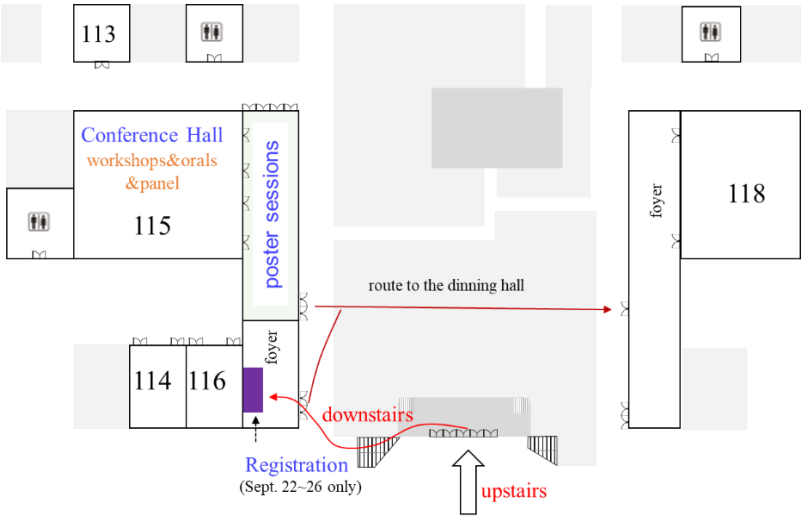
1. Brief introduction by moderator
2. Panellists introduce the limitations on their topics and how to overcome in three slides.
   1st slide: Actual status; 2nd slide: Limitations; 3rd: Outlook.
   5 minutes each panellist.
3. After every session, 20 minutes of open discussion will be guided by a number of pre-formulated questions to audience and panellists.

Guide for Space Holding Events

Space in Qinhuang Holiday Inn



Functional Districts in the Tianfu Intl. Convention Center



Key

113	LOC office (8:30-18:30)	**114**	PISC Meeting room on Sept. 23& 25
116	Shared working space (08:30-18:30)	**118**	Dining Hall

The Best Film Award

Date: Monday, Sept. 22nd, 17:15~18:15

Ballot paper to be provided for voting live.

Proceedings

Paper submission and review work have been completed. All accepted papers will be provided electronically prior to the conference. To be published in the ISDEIV 2025 Conference Proceedings and to be eligible for publication in IEEE Xplore®, one of the authors of an accepted paper must register for the symposium as an author. **The paper must be presented by one of the authors** of that paper in oral

or poster format.

Special Issue- Electrical Discharges in Vacuum in IEEE Trans. Plasma Sci.

Planned in **September 2026**. The paper submission deadline is **January 15, 2026**.

Senior Editor: Ken Struve

Guest Editor: Xiaolong Huang (xlhuang2018@163.com)

Please pay attention to online updates and e-mails from LOC of ISDEIV2025.

Programs

Sunday, Sept. 21, 2025

Tianfu International Convention Center

Workshop I (Room 115, Jiuzhai)			
Time	No.	Presenter	Title
8:30-10:00	WS-1	Prof. Hiroki Kojima	Breakdown in Vacuum

Workshop-II			
Time	No.	Presenter	Title
10:30-12:00	WS-2	Prof. Guanjun Zhang	Surface Fashover in Vacuum

Lunch& Learn Session (Dinning Hall, Room 118, E' Mei)		
Time	Interviewee	Moderator
12:00-13:00	Prof. Raymond Boxman	Dr. Moein Borghei

Workshop-III (Room 115, Jiuzhai)			
Time	No.	Presenter	Title
13:30-15:00	WS-3	Prof. Raymond Boxman	Scientific Writing-1
Workshop-IV			
Time	No.	Presenter	Title
15:30-17:00	WS-4	Prof. Raymond Boxman	Scientific Writing-2

Qinhuang Holiday Inn

Welcome Reception
18:00-21:00

Monday, Sept. 22, 2025

Tianfu International Convention Center

Opening Session
8:30-8:50

Dyke Award Session			
Chair: René Smeets			
Title	No.	Presenter	Title
8:50-9:50	DA-I-01	Jiyan Zou (Dalian University of Technology)	Dynamic Insulation and E-Stress Sharing in Transmission-level Vacuum Circuit Breakers

Group Photo & Coffee
9:50-10:30

Oral Session 1 (A1+A2)			
Chair: Antonio de Lorenzi			
Time	No.	Presenter	Title
10:30-10:55	A1-I-01	Flyura Djurabekova (University of Helsinki)	Theoretical Understanding of Vacuum Arcing Phenomenon within the CLIC Project at CERN
10:55-11:10	A1-O-01	Edgar Engel (ABB Schweiz AG)	Probing and Modeling the Memory Effect in Vacuum Breakdowns
11:10-11:25	A1-O-02	Jianyu Wang (Xi'an Jiaotong University)	Recent Progress on Nanostructures Deformation Behaviors under Intense Electric Fields

11:25-11:40	A1-O-03	Hannan Shan (Xi'an Jiaotong University)	Research on the Influence of Different Grading Capacitors and Resistive-Capacitive Components on the Pre-strike Characteristics of Double-break Vacuum Circuit Breakers
11:40-11:55	A2-O-01	Jie Li (Institute of Fluild Physics, China Academy of Engineering Physics)	Effects of Substrates on Electrical Properties of Al2O3 Ceramics with a Mixed Cr2O3-based Coating

Oral Session 2 (A2)			
Chair: Akiko Kumada			
Time	No.	Presenter	Title
13:00-13:25	A2-I-01	Guanjun Zhang (Xi'an Jiaotong University)	Surface Secondary Electron Emission and Charge Trap Parameters: Physics,Measurement and Applications
13:25-13:40	A2-O-02	Chengyan Ren (Institute of Electrical Engineering, Chinese Academy of Sciences)	Surface Parameter Regulation of Electrode-Insulation and Its Effect on Vacuum Flashover
13:40-13:55	A2-O-03	Liang Zhang (Sichuan University)	Semiconductive Glaze for Enhancing Surface Flashover Voltage of Vacuum Interrupters

13:55-14:10	A2-O-04	Yusuke Nakano (Kanazawa University)	Mitigation of Vacuum Surface Discharge Development through Electrode Shape Modification and Barrier Implementation

Chatterton Award Candidates			
Chair: Wenjun Ning			
Time	No.	Presenter	Title
15:00-17:00	A1-O-01	Ziang Tong (University of Science and Technology Beijing)	A Staged Spectral Acquisition Method for Intermediate-Frequency Vacuum Arcs Under Ruled Curved Contacts
	A1-P-06	Fuma Ueno (Nagoya University)	Dependence on Breakdown Charge and Energy of Dielectric Strength in Spark Conditioning in Vacuum
	A1-P-12	Dengkui Zhang (Dalian University of Technology)	Conditioning Performance Analysis of Vacuum Circuit Breakers under High-frequency Pre-breakdown Arcing
	A1-O-03	Jianyu Wang (Xi'an Jiaotong University)	Recent Progress on Nanostructures Deformation Behaviors Under Intense Electric Fields

	A1-O-04	Hannan Shan (Xi'an Jiaotong University)	Research on the Influence of Different Grading Capacitors and Resistive-Capacitive Components on the Pre-strike Characteristics of Double-break Vacuum Circuit Breakers
	A2-P-10	Yuki Hagiwara (Saitama University)	Conditioning and Deconditioning Effects on Surface Discharge and Dark Current of Organic Insulator Processed by Pulse Voltage Conditioning in Vacuum
	A2-P-03	Manato Kubota (Nagoya University)	Penetrating Destruction of Solid Insulator in Vacuum Induced by Local Negative Charging and Electric Field Distortion under High AC Voltage Application
	A2-P-05	Yuwen Zeng (Sichuan University)	Surface Microstructural Design of Alumina Ceramics to Enhance Surface Flashover Voltage in Vacuum Interrupters
	B1-P-13	Runming Zhang (Xi'an Jiaotong University)	Simulation Study on Cathode Spot Initial Diffusion Considering Plasma Density Domain
	B1-P-15	Shilong Tang (Xi'an Jiaotong University)	In-situ Investigation on the Insulation Performance of Typical Microfeatures of Vacuum Contact Surface
	B1-P-09	Yuxin Lin (Xi'an Jiaotong University)	Research on The Switching Characteristics Of Dual Power Transfer Switches

	B1-P-10	Yiming Ding (Xi'an Jiaotong University)	Study on the Reignition Phase of Drawn Vacuum Arc of 126 kV Axial Magnetic Field Contacts
	B1-P-02	Liang Chen (Sichuan University)	Experimental Investigation of the Charging Characteristics of Metal Particles in Vacuum Interrupters
	B1-O-04	Xiaoxi Le (Sichuan University)	Experimental Study on the Dynamic Behavior of Cathode Molten Pool Particles During High-Current Vacuum Interruption
	B2-P-02	Yinan You (Hebei University of Technology)	Analysis of Influencing Factors of Magnetic Field Characteristics of DC Vacuum Circuit Breaker Based on Field-circuit Coordination
	B2-O-01	Yu Nishio (Mitsubishi Electric Corporation)	Analysis of Axial Magnetic Field Required for Diffusion of Long-gap Arcs in Vacuum Interrupters
	B2-O-03	Hang Hu (Sichuan University)	Novel Contact Structure for Enhanced DC High-Frequency Vacuum Interruption
	B2-O-04	David Cziumplik (eleina Institute for High Voltage Technology and Power Systems, Technische Universitaet Braunschweig)	Simulation and Experimental Validation of Magnetic Field Measurements in AMF Contacts

	B3-O-02	Vadim Gridilev (Institute of High Current Electronics SB RAS)	Erosion of Cathode Materials with Different Melting Temperatures in a Pulsed Vacuum Arc
	B3-O-04	Huikai Xu (Sichuan University)	Spectral Lines Overlap in Vacuum Arc Plasmas of CuCr Electrodes
	B4-P-20	Xiangyu Wang (Xi'an Jiaotong University)	Simulation Calculation of Two -Dimensional Anode Plume Expansion Process
	B4-P-15	Xu Chen (Xihua University)	Temperature Rise Analysis of 252kV Environment-friendly Vacuum Circuit Breaker
	B4-O-03	Cong Wang (Xi'an jiaotong University)	Three-dimensional Model of Cathode Spot Crater Formation in Vacuum Arc with the Variation of Effective Radius
	B4-O-06	Ziqiao Zhao(Xi'an Jiaotong University)	Cell-Based Stepwise Simulation of Cathode Spots Motion and Distribution in Vacuum Arc
	B4-P-07	Jiayi Song (Sichuan University)	Modeling and Simulation of Cathode Spot Jet Mixing Process Based on Realistic Contact Geometry
	B4-P-03	Sergei Filippov(Ioffe Institute)	Field Emission Properties Affected by Work Function Distribution
	C1-P-25	Karen Flügel (Technische Universität Braunschweig)	Influence of Internal Shields on External Dielectric of Vacuum Interrupter
	C1-P-19	Jingjie Yang (Hebei University of Technology)	Optimization of Vacuum Interrupter Contact Structure Based on GWO-SVR

C1-P-14	Jiayuan Zheng (Hebei University of Technology)	Thermal Stability Enhancement Strategy for Low Voltage Large Current Axial Magnetic Field Vacuum Switch
C1-P-08	Kota Hamada (Toshiba Corporation)	Suppression Effects of Electron Beam on Partial Discharge in Vacuum
C1-P-15	Xinpeng Su (Xi'an Jiaotong University)	Physics-Informed Neural Ordinary Differential Equations for Tomographic Reconstruction of Vacuum Arcs
C1-P-35	Ruiqi Liu (Xi'an Jiaotong University)	Study on the Operating Overvoltage of Vacuum Circuit Breakers in the Low-Frequency Power Transmission Systems
C1-P-11	Saikang Shen (Sichuan University)	Voltage Distribution Analysis of 252 kV Vacuum Interrupter under AC and Lightning Impulse Conditions Based on Stray Parameter Modeling
C1-O-08	Xin Liao (Sichuan University)	Surface Electric Field Distribution and Floating Potential Measurement of Double-Break Vacuum Interrupters
C1-O-02	Xiyuan Liao (Sichuan University)	Investigation on High-speed Zero-crossing Interruption of Vacuum Interrupter for DC Circuit Breaker
C2-P-05	Moein Borghei (Avalanche Energy)	Impact of Plasma Electrolytic Polishing on the Field Emission of Molybdenum

	C6-O-01	Sergei Filippov (Ioffe Institute)	Field Emission Characteristics of Plasma-Treated Carbon Nanotube/Polystyrene Large-Area Field Emitter

Best Film Award			
Chair: Qiang Tang			
Time	No.	Presenter	Title
17:15-18:15	B1-O-04	Xiaoxi Le (Sichuan University)	Experimental Study on the Dynamic Behavior of Cathode Molten Pool Particles During High-Current Vacuum Interruption
	B1-P-04	Chongyang Huang (Shenyang University of Technology)	Research on the vacuum arc extinguishing stage based on high-frequency oscillating magnetic field
	B1-P-19	Dehua Xiong (Dalian University of Technology)	The Influence of the Grading Capacitors and Asynchronism of the Double-Break Vacuum Circuit Breaker on the No-Load Closing of a Transformer
	B3-O-04	Huikai Xu (Sichuan University)	Multispectral Synchronous Imaging of the Spatiotemporal Evolution of Components in the Vacuum Arc

	B4-O-06	Ziqiao Zhao (Xi'an Jiaotong University)	Cell-Based Stepwise Simulation of Cathode Spots Motion and Distribution in Vacuum Arc

Tuesday, Sept. 23, 2025

Tianfu International Convention Center

Oral Session 3 (B1+C3)			
Chair: Flyura Djurabekova			
Time	No.	Presenter	Title
8:30-8:55	C3-I-01	Efim Oks (Tomsk State University of Control Systems and Radioelectronics)	Development of Forevacuum Plasma-Cathode Electron Sources of Pulsed Large-radius Electron Beams Based on a Cathodic Arc
8:55-9:10	B1-O-01	Andreas Lawall (Siemens AG)	Characterisation of Surface Erosion of Switching Contacts by Optical Methods
9:10-9:25	B1-O-02	Ziang Tong (University of Science and Technology Beijing)	A Staged Spectral Acquisition Method for Intermediate-Frequency Vacuum Arcs Under Ruled Curved Contacts
9:25-9:40	B1-O-03	Chaozheng Peng (Xi'an Jiaotong University)	Arc Transfer Characteristics in Targeted Current Conditioning for Vacuum Interrupters
9:40-9:55	B1-O-04	Xiaoxi Le (Sichuan University)	Experimental Study on the Dynamic Behavior of Cathode Molten Pool Particles During High-Current Vacuum Interruption

Poster Session 1 (A1+A2+ B5+C2)			
Chair: Guanjun Zhang			
Time	No.	Presenter	Title
10:30-12:00	A1-P-01	Yuriy Mamontov (Institute of Electrophysics, UB RAS)	Estimation of a Vacuum Gap Breakdown Voltage by Considering Cathode Field Emission Properties
	A1-P-02	Pan Dong (Institute of Fluild Physics, China Academy of Engineering Physics)	Preliminary Experiment on Vacuum Breakdown Strength of Metal Electrode Materials
	A1-P-03	Minju Xu (Xi'an Jiaotong University)	Classification of Pre-strike Arc Shape in Vacuum Interrupter with Different Contact Structures under Capacitive Switching
	A1-P-04	Zongyao Ge (Xi'an Jiaotong University)	Classification of Prestrike Arc Shape in Vacuum Interrupter with Different Contact Material under Capacitive Switching
	A1-P-05	Lizhi Wang (Dalian University of Technology)	Simulation and Analysis of Pre-Arc Electric Breakdown of Vacuum Circuit Breaker
	A1-P-06	Fuma Ueno (Nagoya University)	Dependence on Breakdown Charge and Energy of Dielectric Strength in Spark Conditioning in Vacuum
	A1-P-07	Evgeny Nefedtsev (Institute of High Current Electronics)	Traces of Pre-Breakdown Electro-Plastic Phenomena on a Cathode Surface

	A1-P-08	Jingyu Shen (Fuzhou University)	Breakdown Characteristics of Double Vacuum Gaps in Series under Lightning Impulse Voltages with Different Polarities
	A1-P-09	Haoyan Liu (Xi'an Jiaotong University)	Study on Ion Sputtering-Induced Gap Breakdown between Molybdenum Grid Electrodes in Vacuum
	A1-P-10	Shimin Li (Nanjing University of Aeronautics and Astronautics)	Vacuum Breakdown Mechanism Classification Based on Class Weight Optimization
	A1-P-11	Yuanzhao Li (Xi'an Jiaotong University)	Study on the Conditioning Characteristics of Different Metal Materials under Different Breakdown Energies
	A1-P-12	Dengkui zhang (Dalian University of Technology)	Conditioning Performance Analysis of Vacuum Circuit Breakers under High-Frequency Pre-breakdown Arcing
	A1-P-13	Jiemin Huang (Xi'an Jiaotong University)	Evolutionary Law of Contact Condition and Prestrike Characteristics in Vacuum Interrupter Under Inrush Current Erosion

A1-P-14	Dietmar Gentsch (ABB AG ELDS / Ratingen - Germany)	World – Novelty in dielectric steering of floating potentials in Vacuum Interrupter
A1-P-15	Evgeny Nefedtsev (Institute of High Current Electronics)	Total Voltage Effect Relating to Surface Electromechanical Stresses of Flat Electrodes
A1-P-16	Junhao Niu (Xi'an Jiaotong University)	Study of the Effect of Eccentricity on the Drawn Vacuum Arc Characteristics
A1-P-17	Weigang Feng (Shaanxi Baoguang Vacuum Electric Device Co., Ltd.)	Research on the Insulation of Vacuum Gap with Different Surface Condition of Electrode
A2-P-01	Dandan Feng (Beijing Vacuum Electronics Research Institute)	Surface withstand Voltage Performance of Al2O3 Ceramic Modified with Cr/Mn/Ti Coating
A2-P-02	Jialin Yang (Institute of Electronic Engineering, China Academy of Engineering Physics)	Experimental Study on Cathode-initiated and Anode-initiated Surface Flashover with Streak Camera
A2-P-03	Manato Kubota (Nagoya University)	Penetrating Destruction of Solid Insulator in Vacuum Induced by Local Negative Charging and Electric Field Distortion under High AC Voltage Application

	A2-P-04	Na Zhang (China Academy of Space Technology(Xi'an))	ALD Deposited Al_2O_3 Film for Micro-discharge Mitigation in Space TWTA
	A2-P-05	Yuwen Zeng (College of Electrical Engineering,Sichuan University)	Surface Microstructural Design of Alumina Ceramics to Enhance Surface Flashover Voltage in Vacuum Interrupters
	A2-P-06	Yuning You (Xi'an Jiaotong University)	Research on Strong Electromagnetic Field Induced Discharge of High Voltage Solar Arrays in Spacecraft
	A2-P-07	Wenrui Li (Xi'an Jiaotong University)	Effect of UV Irradiation on Vacuum Flashover Properties of Different Polyimide Films
	A2-P-08	Xian Cheng (Zhengzhou University)	Analysis on Surface Flashover along Vacuum Interrupter Insulator Surface in Environment-friendly Tank Vacuum Circuit Breaker
	A2-P-09	Minglu Feng (Xi'an Jiaotong University)	Research on Cathode Material Migration Characteristics of Vacuum Surface Flashover in Vacuum Interrupter

	A2-P-10	Yuki Hagiwara (Saitama University)	Conditioning and Deconditioning Effects on Surface Discharge and Dark Current of Organic Insulator Processed by Pulse Voltage Conditioning in Vacuum
	A2-P-11	Yayu Hao (China Academy of Engineering Physics)	Experimental Study on Enhancing Surface Flashover Voltage by Metallization on the Side of the Ceramic
	A2-P-12	Feng Li (China Academy of Engineering Physics)	Investigation on Vacuum Insulator Surface Electrical Performance under Main Pulsed Voltage with Reversed Polarity Voltage
	B5-P-01	Ziwei Chen (China Academy of Engineering Physics)	The Study of the Dynamic Behavior Transition of the Preconditioned Wire Arrays Z-pinch from Ablation Implosion to Snow-plow Implosion
	B5-P-02	Liang Bu (Dalian University of Technology)	Study on Time-Delay Characteristics of Field-Breakdown Triggered Vacuum Switch with Different Structures of Trigger Electrode

	B5-P-03	Guiling Fu (Xi'an Jiaotong University)	Numerical and Experimental Investigation of Partial Insulating Coating on the Surface of Aluminum Wire to Enhance Local Gasification in Wire Electrical Explosion
	C2-P-01	Zhengjie An (Xi'an jiaotong University)	The Surface Modification Method for Alumina Particles Employing Pulsed Hollow Cathode Discharge
	C2-P-02	Changchun Qi (Xi'an Jiaotong University)	Study on Vacuum Surface Insulation Properties of Sulfur/Fluorine-Containing Specialty Polyimide Films Targeting Space High-Voltage Solar Array Applications
	C2-P-03	Yuguan Zhu (Xi'an Jiao Tong University)	Experimental Study on the Removal of Milling Burrs from Aluminum Alloys Using Low-Pressure Discharge
	C2-P-04	Vadim Gridilev (Institute of High Current Electronics SB RAS)	DC Magnetron Deposition by Sputtering a Pure Boron Target in an Oxygen Atmosphere
	C2-P-05	Moein Borghei (Avalanche Energy)	Impact of Plasma Electrolytic Polishing on the Field Emission of Molybdenum

	C2-P-06	Akio Ogura (University of Tsukuba)	Annealing Temperature Effect on the Sheet Resistance and the Secondary Electron Emission Yield of Alumina Substrates with Chromium Oxide Coatings
	C2-P-07	Yongjia Luo(Sichuan University)	Enhanced Vacuum Gap Insulation Between Non-Arc Metal Components in Vacuum Interrupters by Ion Implantation

Oral Session 4 (B2+ C4)			
Chair: Efim Oks			
Time	No.	Presenter	Title
13:00-13:25	C4-I-01	Nicola Pilan (Consorzio RFX)	Summary of Fifteen Years of HVDC Experiments and Tests in Vacuum at the High Voltage Padova Test Facilities
13:25-13:40	B2-O-01	Yu Nishio (Mitsubishi Electric Corporation)	Analysis of Axial Magnetic Field Required for Diffusion of Long-gap Arcs in Vacuum Interrupters
13:40-13:55	B2-O-02	Zihan Wang (Xi'an High Voltage Apparatus Research Institute CO., LTD)	Vacuum Arc Characteristics of a Composite Magnetic Field Contact with Fixed Break under Different Fixed Contact Structures
13:55-14:10	B2-O-03	Hang Hu (Sichuan University)	Novel Contact Structure for Enhanced DC High-Frequency Vacuum Interruption

14:10-14:25	B2-O-04	David Cziumplik (eleina Institute for High Voltage Technology and Power Systems, Technische Universitaet Braunschweig)	Simulation and Experimental Validation of Magnetic Field Measurements in AMF Contacts

Poster Session 2 (B1+B2+C4+C5+D)			
Chair: Liu Xiaoming			
Time	No.	Presenter	Title
15:00-16:30	B1-P-01	David Cziumplik (elenia Institute for High Voltage and Power Systems, Technische Universitaet Braunschweig)	Guidance for Breaking Current Measurement at Zero Crossing for Vacuum Interrupters
	B1-P-02	Liang Chen (Sichuan University)	Experimental Investigation of the Charging Characteristics of Metal Particles in Vacuum Interrupters
	B1-P-03	Hongyi Chen (Xi'an Jiaotong University)	Enhancing Insulation Level of Vacuum Interrupters via Dividing the Vacuum Gap by Using a Movable Contact Plate
	B1-P-04	Chongyang Huang (Shenyang University of Technology)	Research on the Vacuum Arc Extinguishing Stage Based on High-frequency Oscillating Magnetic Field
	B1-P-05	Chongyang Huang (Shenyang University of Technology)	Study on the Equivalence of Vacuum Arc Zero Zone Process Gaps

	B1-P-06	Jiayuan Zheng (Hebei University of Technology)	Analysis on Anode Ablation in DC Vacuum Circuit Breakers with Transverse Magnetic Field
	B1-P-07	Minhao An (Xi'an Jiaotong University)	Simulation Analysis of the Electric Field Characteristics of the Vacuum Interrupter Arranged in the Metal Tank
	B1-P-08	Chongyang Huang (Shenyang University of Technology)	A Study of the Effect of Gap Differences on the Development of Vacuum Arcs
	B1-P-09	Yuxin Lin (Xi'an Jiaotong University)	Research on The Switching Characteristics Of Dual Power Transfer Switches
	B1-P-10	Yiming Ding (Xi'an Jiaotong University)	Study on the Reignition Phase of Drawn Vacuum Arc of 126 kV Axial Magnetic Field Contacts
	B1-P-11	Manuel Nierenberg (TU Darmstadt)	Influence of Current Amplitude and Arcing Time on MVDC Switching Capability of Butt and AMF Contact Gemoetries
	B1-P-12	Mengze Yu (Guangdong Power Grid Corporation)	Magnetic Field Degradation in AMF Contacts Under High-Frequency Artificial Zero-Crossing

	B1-P-13	Runming Zhang (Xi'an Jiaotong University)	Simulation Study on Cathode Spot Initial Diffusion Considering Plasma Density Domain
	B1-P-14	Jieli Chen (Xi'an Jiaotong University)	3D Transient Modeling and Simulation of Vacuum Arc Considering the Interaction with Anode Melting Pool
	B1-P-15	Shilong Tang (Xi'an Jiaotong University)	In-situ Investigation on the Insulation Performance of Typical Microfeatures of Vacuum Contact Surface
	B1-P-16	Xingyu Guo (Dalian Jiaotong University)	Analysis of Dual-actuated of Back-to-back Vacuum Interrupter Unit
	B1-P-17	Jiancheng Xu (Xi'an Jiaotong University)	Investigation of the Closure Bounce Damping Method Based on Particle -damping Technology
	B1-P-18	Wenjun Xiang (Dalian University of Technology)	Research on Initial Plasma Current Characteristics of Laser-Triggered Vacuum Switch
	B1-P-19	Dehua Xiong (School of Electrical Engineering Dalian University of Technology)	The Influence of the Grading Capacitors and Asynchronism of the Double-Break Vacuum Circuit Breaker on the No -Load Closing of a Transformer

	B2-P-01	Yulu Yang (Sichuan University)	Simulation Study on Vacuum Arc Drawing Process with Arc Starting Position Offset
	B2-P-02	Yinan You (Hebei University of Technology)	Analysis of Influencing Factors of Magnetic Field Characteristics of DC Vacuum Circuit Breaker Based on Field-circuit Coordination
	B2-P-03	Xinkun Lv (Xi'an Jiaotong University)	Numerical Simulation of High-Current Vacuum Arcs Under Different Bell-Shaped Axial Magnetic Fields
	B2-P-04	Yueheng Yang (Xi'an Jiaotong University)	MHD Simulation of Vacuum Arcs Distribution Characteristics under Critical Short Circuit Interrupting Current
	C4-P-01	Sergey Taskaev (Budker Institutute of Nuclear Physics);	Vacuum Insulated Tandem Accelerator Upgrade.
	C4-P-02	Antonio De Lorenzi (Consorzio RFX)	Investigation of the Effect of Electrode Oxide Layer on Emission of Current Under High Voltage in Vacuum.
	C4-P-03	Igor Sorokin (Budker Institute of Nuclear Physics)	Changes in the Tandem Accelerator in the Second Version of the VITA-II Accelerator Neutron Source.
	C4-P-04	Yulun Chen (Xi'an Jiaotong University)	Focusing Simulation of a Dynamitron Accelerator Vacuum Tube for Electron Beam Transport

	C5-P-01	Wentong An(Xi'an Jiaotong University)	Electron Beam-induced Surface charge accumulation in multilayer composite thin films
	C5-P-02	Liying Zhu(Beihang University)	Laser-induced Arc Discharge Experiment of Spacecraft Solar Array
	D-P-01	Chaojian Xing (Shenyang University of Technology)	Degradation Characterization and Fault Operation State Identification of AC Contactor Contact Systems Based on CW-SDAE and Dual-Channel Neural Networks
	D-P-02	Shang Di (China Qiyuan Engineering Corporation)	Research on the Grounding Distribution Characteristics of Lightning Impulse Test Field in High Altitude Ultra High Voltage Test Hall
	D-P-03	Shang Di (China Qiyuan Engineering Corporation)	Selection and Calculation of Electrical Parameters for DC High Voltage Generator Used in High Altitude Ultra High Voltage Test Hall
	D-P-04	Shang Di (China Qiyuan Engineering Corporation)	Design of Non Partial Discharge Single-Phase/Three-Phase Isolated Grounding Safety Switch For Experimental Hall
	D-P-05	Wendi Xu (Xi'an Jiaotong University)	Investigation on Temperature Rise by the Thermal Circuit Model for High-Voltage Vacuum Circuit Breakers

	D-P-06	Ziao Yuan (Xi'an Jiaotong University)	A Novel Halbach Array with a Dynamically Adjustable Magnetic Field for Regulating the Vacuum Arc

Panel Discussion			
Moderator: René Smeets			
Time	Panellist	Affiliation	Topic
Session 1: Vacuum in high-voltage current interruption			
16:30-16:35	Xiaomin Zhao	Pinggao-XJTU Power Equipment Research Institute, China	Application of HV vacuum switchgear in China
16:35-16:40	Thierry Delachaux	Hyosung Heavy Industries, Netherlands/South Korea	Physics of high-voltage vacuum interruption
16:40-16:45	Thomas Heinz	Siemens Energy, Germany	High-voltage vacuum interrupter development
16:45-16:50	René Smeets	KEMA Labs, Netherlands	High-voltage DC interruption with vacuum interrupters
16:50-17:10	Open discussion on session 1		
Session 2: Vacuum interrupter technology for medium voltage application			
17:10-17:15	Dietmar Gentsch	ABB AG, Germany	Medium voltage vacuum interrupter development
17:15-17:20	Martin Leusenkamp	Eaton, China/US	Manufacturing technology of vacuum interrupters

17:20-17:25	Tarek Lamara	Sécheron, Swiss	Low- and medium voltage DC interruption with vacuum
17:25-17:30	Thomas Brauner	Siemens AG, Germany	Ultra-high current interruption phenomena in vacuum interrupters
17:30-17:50	Open discussion on session 2		
Session 3: Vacuum for the future: research activities			
17:50-17:55	Xiaolong Huang	Sichuan University	Modelling of vacuum arcs and plasma
17:55-18:00	Yuki Inada	University of Saitama	Breakdown phenomena in vacuum gaps
18:00-18:05	Zhiyuan Liu	Xi'an Jiaotong University	Experimental research of high-current vacuum arc phenomena
18:05-18:25	Open discussion on session 3		

Wednesday, Sept. 24, 2025

Tianfu International Convention Center

Oral Session 5 (B3)			
Chair: Irina Poluyanova			
Time	No.	Presenter	Title
8:30-8:55	B3-I-01	Dirk Uhrlandt (Leibniz Institute for Plasma Science and Technology)	Spectroscopic Studies of Fast Phenomena in Vacuum Switching Arcsaker
8:55-9:10	B3-O-01	Xinpeng Su (Xi'an Jiaotong University)	Investigation of the Absorption Effect Inside the Vacuum Arc by a Collisional Radiative Model
9:10-9:25	B3-O-02	Michael Kurrat (eleina Institute for High Voltage Technology and Power Systems, Technische Universitaet Braunschweig)	Optical and Spectroscopic Analysis of Vacuum Arcs in Larger Gaps
9:25-9:40	B3-O-03	Ralf Methling (Leibniz Institute for Plasma Science and Technology)	Detailed Analysis of High Current Anode Phenomena by Intensified Video Optical Emission Spectroscopy
9:40-9:55	B3-O-04	Huikai Xu (Sichuan University)	Spectral Lines Overlap in Vacuum Arc Plasmas of CuCr Electrodes

Oral Session 6 (B4)			
Chair: Dirk Uhrlandt			
Time	No.	Presenter	Title
10:15-10:40	B4-I-01	Helena Kaufmann (Siemens Energy)	Plasma-cathode Interaction in Vacuum, Unipolar and High-pressure Arcs
10:40-10:55	B4-O-01	Yasunori Tanaka (Kanazawa University)	Vacuum Arc Behavior Simulation by Moving Particle Semi-implicit Method + Finite Volume Method with Improved Electron Density Calculation
10:55-11:10	B4-O-02	Federico Caruggi (University of Milan-Bicocca)	Simulations of Micro-scale Dynamics of Discharges in Conditioning Experiments at the High Voltage Padova Test Facility
11:10-11:25	B4-O-03	Cong Wang (Xi'an jiaotong University)	Three-dimensional Model of Cathode Spot Crater Formation in Vacuum Arc with the Variation of Effective Radius

Excursion (Sanxingdui Museum)
11:30-18:00

Banquet (Crowne Plazza)
18:00-22:00

Thursday, Sept. 25, 2025

Tianfu International Convention Center

Oral Session 7 (B4)			
Chair: Eiji Kaneko			
Time	No.	Presenter	Title
8:30-8:45	B4-O-04	Wei Duan	Study on the Erosion Mechanism of Contacts Under Vacuum Arc Conditions
8:45-9:00	B4-O-05	Camila Cró (Universidade da Madeira)	Phenomenological Description and Modeling of Vacuum Breakdown
9:00-9:15	B4-O-06	Ziqiao Zhao (Xi'an Jiaotong University)	Cell-Based Stepwise Simulation of Cathode Spots Motion and Distribution in Vacuum Arc
9:15-9:30	B4-O-07	Zhenxing Wang (Xi'an Jiaotong University)	A Coupled Circuit-Plasma Model for Post-Arc Dynamics in Vacuum Circuit Breakers
9:30-9:45	B4-O-08	Jie Zhang (Electric Power Research Institute Guangzhou Power Supply Bureau, Guangdong Power Grid Corporation Limited)	Simulation Research on Voltage Distribution Characteristics of 550kV Double-Break Vacuum Environmental Circuit Breaker under Lightning Impulse Voltage
9:45-10:00	B4-O-09	Zhongdong Wang (University of Manchester)	Molecular Dynamics Simulation of Cathode Crater Formation on Cu-Cr contact in Vacuum Circuit Breakers

Poster Session 3 (B3+B4)			
Chair: Lijun Wang			
Time	No.	Presenter	Title
10:30-12:00	B3-P-01	Yuriy Zemskov (Institute of Electrophysics UB RAS)	Investigation of the Ion Composition of Short-duration Vacuum Arc Plasma with Submicrosecond Time Resolution
	B3-P-02	Konstantin Zabello (Ioffe Institute)	Investigation of a High-current Vacuum Arc with Copper Electrodes in Vacuum Ultraviolet
	B3-P-03	Chenxi Yang (Sichuan University)	Vacuum Arc Voltage Characteristics of Low-Voltage DCCB Based on Parallel Capacitor
	B3-P-04	Efim Oks (Institute of High current electronics Russian Academy of Sciences)	Vacuum (gasless) Magnetron as an Alternative to Vacuum Arc
	B3-P-05	Isak Beilis (Tel Aviv University)	Electrical Arcs with Low Melting Cathode materials
	B4-P-01	Haonan Sun (Sichuan University)	Modeling and Simulation of the Influence of the Metal Particle on the Characteristics of the Anode Jet in Vacuum Arc
	B4-P-02	Ran Cheng (Xihua University)	Optimization Design of Magnetic Actuator for 252kV High Voltage Vacuum Circuit Breaker

	B4-P-03	Sergei Filippov (Ioffe Institute)	Field Emission Properties Affected by Work Function Distribution
	B4-P-04	Guitian Lan (Sichuan University)	Material Parameters Research of Ceramic Envelope of High Voltage Vacuum Interrupters to Improve Voltage Sharing
	B4-P-05	Xuwen Liang (China Academy of Engineering Physics)	Development and Modeling of Surface Spot Ablation of W-Cu Alloy Electrodes in Vacuum Arc Channels
	B4-P-06	Xuewen Zhong (Sichuan University)	Simulation Study of Multi-Species Vacuum Arc Based on Magnetohydrodynamics
	B4-P-07	Jiayi Song (Sichuan University)	Modeling and Simulation of Cathode Spot Jet Mixing Process Based on Realistic Contact Geometry
	B4-P-08	Xianghui Qin (Xihua University)	A Multiphysics Co-simulation Design Method for Oil Buffers for Fast Mechanical Switches
	B4-P-09	Yu Liu (Xihua University)	Optimal Design of Electric Field in Three Junction Area of 252kV Single-break Vacuum Circuit Breaker

	B4-P-10	Jiayuan Zheng (Hebei University of Technology)	Thermal Stability Influencing Factors of the Vacuum Circuit Breaker for C-GIS
	B4-P-11	Kai Zhang (Taiyuan University of Technology)	Simulation on Plasma Diffusion During Pulse Current Rising in Triggered Vacuum Switch
	B4-P-12	Jingjie Yang (Hebei University of Technology)	Control Method for Closing Bounce in Vacuum Circuit Breaker Spring Mechanism Considering Tolerance Interval Uncertainty
	B4-P-13	Xinquan Li (Xi'an Jiaotong University)	Simulation of the Anode Erosion Process in High -current Vacuum Arcs under Various Frequencies
	B4-P-14	Yubin He (Harbin institute of technology)	Numerical Simulation of Copper Electrode Erosion under DC Arc Discharge Using a Level -set Method
	B4-P-15	Xu Chen (Xihua University)	Temperature Rise Analysis of 252kV Environment-friendly Vacuum Circuit Breaker
	B4-P-16	Yongxiang Yu (East China Jiaotong University)	The Impact of Different Current Peaks on Ablation.

	B4-P-17	Junjie Li (Sichuan University)	Modeling and Simulation Study of Large-size Vacuum Arc Ignition Process
	B4-P-18	Bingjie Shi (Shenyang University of Technology)	Influence of Oxygen on Contact Erosion in Vacuum Circuit Breakers
	B4-P-19	Zhefeng Zhang (Xi'an Jiaotong University)	Simulation Study on Vacuum Arc Ion Sources under Different Discharge Modes
	B4-P-20	Xiangyu Wang (Xi'an Jiaotong University)	Simulation Calculation of Two-Dimensional Anode Plume Expansion Process
	B4-P-21	Shuchen Liu (Xi'an Jiaotong University)	Simulation of Metal Vapor Characteristics Caused by Micro-particles Impact in Long Vacuum Gaps under High Voltage
	B4-P-22	Shichen Deng (Xi'an Jiaotong University)	Simulation Investigation of the Influence of Materials and Electric Field on Field Emission Current in Long Vacuum Gaps
	B4-P-23	Juqi Wang (North China Electric Power University	Study on the Effect of Metal particles on the Electric Field of Polyimide Under Electron Irradiation

B4-P-24	Yuanbing Zhang (Xi’an Jiaotong University)	Influence of Contact Diameter and Contact Distance on Post-Arc Sheath Development in High-Current Vacuum Interruption
B4-P-25	Hongjian Wang (Xi’an Jiaotong University)	Study on the Plasma Flow Behavior in the Vacuum Arc Ion Source of Deuterium Storage Cathode
B4-P-26	Ze Yang (Chengdu University of Technology)	Numerical Study on the Anode Deformation Considering the Interaction between Arc Column
B4-P-27	Xutong Jin (Xi'an Jiaotong University)	Numerical Investigation on the Detection of Vacuum Interrupter Pressure Based on Pirani Method
B4-P-28	Lu Zhu (Electric Power Research Institute Guangzhou Power Supply Bureau, Guangdong Power Grid Corporation Limited)	Validation and Application of ANSYS-based Iterative Method for Vacuum Circuit Breaker Temperature Rise Simulation
B4-P-29	Xubin Li (Dalian University of Technology)	Influence of Superparticle Number on PIC-MCC Simulation Results of the Post-Arc Sheath Stage in VCBs
B4-P-30	Xubin Li (Dalian University of Technology)	A Simplified Equivalent Circuit Model for the Post-Arc Sheath in VCBs and Circuit Parameter Calculation Based on the PIC-MCC Method

	B4-P-31	Xubin Li (Dalian University of Technology)	Application of the PIC Method in Simulating Atom Dissipation After Current Zero in VCBs
	B4-P-32	Xubin Li (Dalian University of Technology)	Comparison of 1D, Simplified 2D, and Full 2D PIC-MCC Models for the Post-Arc Sheath Stage in VCBs

Oral Session 8 (C1)			
Chair: Michael Kurrat			
Time	No.	Presenter	Title
13:00-13:25	C1-I-01	Akiko Kumada (The University of Tokyo)	Effect of Contact Materials on the DC Interruption Characteristics of a TMF Vacuum Circuit Breaker
13:25-13:40	C1-O-01	Xavier Godechot (Schneider Electric)	Current Conditionning Process for Vacuun Interrupters Manufacturing
13:40-13:55	C1-O-02	Xiyuan Liao (Sichuan University)	Investigation on High-speed Zero-crossing Interruption of Vacuum Interrupter for DC Circuit Breaker
13:55-14:10	C1-O-03	Yufei Tao (Xi'an Jiaotong University)	Design and Simulation of DC Circuit Breaker with Fault Current Limiting Capability
14:10-14:25	C1-O-04	Li Peng (Shaanxi Sirui Advanced Materials Co.,Ltd)	Investigation of Surface Treatment Technology to Three Different CuCr Contact Material and Its Influences for Electrical Performance

Oral Session 9 (C1)			
Chair: Raymond L. Boxman			
Time	No.	Presenter	Title
15:00-15:25	C1-I-02	Michael Kurrat(eleina Institute for High Voltage Technology and Power Systems, Technische Universitaet Braunschweig)	Considerations on Data Management in VCB Research
15:25-15:40	C1-O-05	Martin Leusenkamp (Eaton Corporation)	Advanced Techniques for Derating Vacuum Circuit Breakers
15:40-15:55	C1-O-06	Yaopeng Lu (Henan Pinggao Electric Co.,Ltd.)	A Mechanical DC Disconnection Technology Based on Vacuum Arc Control
15:55-16:10	C1-O-07	Dietmar Gentsch (ABB AG ELDS / Ratingen - Germany)	Low- and very Low Frequency Short-circuit Current Interruption in Vacuum
16:10-16:25	C1-O-08	Xin Liao (Sichuan University)	Surface Electric Field Distribution and Floating Potential Measurement of Double-Break Vacuum Interrupters

Poster Session 4 (C1)			
Chair: Wenjun Ning			
Time	No.	Presenter	Title
16:30-18:00	C1-P-01	Xavier Godechot (Schneider Electric)	Analysis of Synthetic Testing Station Limitations, and Solutions

	C1-P-02	Minfu Liao (Dalian University of Technology)	Study on Parametric Characteristics of Miniaturized Permanent Magnetic Actuator for Vacuum Circuit Breaker
	C1-P-03	Shuaibing Wang (Electric Power Research Institute, CSG)	External Electric Field Distribution Calculation and Analysis of High-voltage Vacuum Interrupter in Metal Tank
	C1-P-04	Yun Geng (Xi'an University of Technology)	Enhanced Diagnostic Method for Microscopic Contact Surface Conditions in VCBs Using Murphy-Good Field Emission Theory
	C1-P-05	Yuriy Zemskov (Institute of Electrophysics UB RAS)	Study of the Factors Influencing the Copper Cathode Conditioning Process
	C1-P-06	Verena West (IAEW at RWTH Aachen University)	Requirements for Vacuum Interrupters in DC Circuit Breakers
	C1-P-07	Xianzhao Wang (Chongqing University)	Investigation on the Current Distribution Characteristic of a Parallel-Connected Vacuum Circuit Breaker
	C1-P-08	Kota Hamada (Toshiba Corporation)	Suppression Effects of Electron Beam on Partial Discharge in Vacuum
	C1-P-09	Yanlin Zhang (Sichuan University)	Design of Liquid Metal Electromagnetic Drive Structure for Improving the Heat Dissipation Capacity of Vacuum Interrupters

C1-P-10	Helena Kaufmann (Siemens Energy Global GmbH & Co. KG, Berlin, Germany)	Investigation of Breakdown in the Exterior of Vacuum Interrupters
C1-P-11	Saikang Shen (Sichuan University)	Voltage Distribution Analysis of 252 kV Vacuum Interrupter under AC and Lightning Impulse Conditions Based on Stray Parameter Modeling
C1-P-12	Jiyan Zou (Dalian University of Technology)	Electric Field Stress Sharing in the TVCB Vacuum Interrupter Unit
C1-P-13	Tianyang Xu (Dalian university of technology)	Research on Fault Current Interruption Tests for Resonant High-Voltage DC Vacuum Circuit Breaker
C1-P-14	Jiayuan Zheng (Hebei University of Technology)	Thermal Stability Enhancement Strategy for Low Voltage Large Current Axial Magnetic Field Vacuum Switch
C1-P-15	Xinpeng Su (Xi'an Jiaotong University)	Physics-Informed Neural Ordinary Differential Equations for Tomographic Reconstruction of Vacuum Arcs
C1-P-16	Ning Han (Shaanxi Sirui Advance Materials Co.,Ltd)	Preparation Process And Properties Of CuCr25 Contacts

C1-P-17	Stefan Giere (Siemens Energy Global GmbH & Co. KG)	Filter circuits to Safely Switch Small Inductive Currents with High-voltage Vacuum Circuit Breakers: Operational Experience
C1-P-18	Min Li (Schneider Electric Co., Ltd.)	Bellows Mechanical Endurance Research of Vacuum Interrupter in Embedded Pole
C1-P-19	Jingjie Yang (Hebei University of Technology)	Optimization of Vacuum Interrupter Contact Structure Based on GWO-SVR
C1-P-20	Xiaoqing Yang (Shaanxi Sirui Advanced Materials CO., LTD)	Comparative Study on the Properties of Copper-chromium Contacts Prepared by Two Powder Metallurgy Processes
C1-P-21	Weidong Xu (Dong Guan Power Supply Bureau, Guangdong Power Grid)	Numerical Simulation on Temperature Rise Characteristics of 40.5kV Switchgear Based on the Coupling Technology between Electromagnetic and Temperature Fields
C1-P-22	Weidong Xu (Dong Guan Power Supply Bureau, Guangdong Power Grid)	Simulation Study on Influence of Different Environmental Factors on Temperature Rise Characteristics in 12kV Switchgear
C1-P-23	Santanu Banerjee (Schneider Electric)	Statistical Correlation Between the Parameters of Surface Treatment and the Vacuum Level and Voltage Conditioning Performance of Vacuum Interrupter.

C1-P-24	Wei Sun (Xi'an Jiaotong University)	X-ray Radiation in 126 kV Vacuum Interrupters During Sequential Power-Frequency Conditioning and Comparative Analysis of Conditioning Methods
C1-P-25	Karen Flügel (Technische Universität Braunschweig)	Influence of Internal Shields on External Dielectric of Vacuum Interrupter
C1-P-26	Jinchao Chen (Xi'an Jiaotong University)	Interruption of Direct Current with Parallel Vacuum Interrupters
C1-P-27	Qiang Tang (Sichuan University)	Post Arc Plasma Following DC Interruption Achieved by a Vacuum Interrupter
C1-P-28	Dietmar Gentsch (ABB AG ELDS / Ratingen - Germany)	Optimizing Vacuum Interrupters by a Suited Selection of Contact Materials and Superimposed Axial Magnetic Fields
C1-P-29	Dietmar Gentsch (ABB AG ELDS / Ratingen - Germany)	Investigation of Current Interruption in Vacuum Using Long Gaps up to 45 mm: A Comparison of Different Contact Geometries
C1-P-30	Thomas Heinz (Siemens Energy AG)	Investigation on High-Power Switching with Series-Connected Vacuum Interrupters

C1-P-31	Chen Fu (Xi'an Jiaotong University)	Research on the Transfer Characteristics of Vacuum Arc Current to Parallel Branches under Various Contacts Magnetic Field Modes
C1-P-32	Jaehun Yoon (LS ELECTRIC)	Remaining Life Evaluation Method of Vacuum Interrupter Breaking Stress
C1-P-33	Fanke Zeng (TU Braunschweig)	Experimental Study on Arc Characteristics of a Vacuum Contactor in LVDC system
C1-P-34	Jie Zhang (Electric Power Research Institute Guangzhou Power Supply Bureau, Guangdong Power Grid Corporation Limited)	A Review of Mechanical Condition Evaluation and Fault Diagnosis of High Voltage Vacuum Circuit Breakers
C1-P-35	Ruiqi Liu (Xi'an Jiaotong University)	Study on the Operating Overvoltage of Vacuum Circuit Breakers in the Low-Frequency Power Transmission Systems
C1-P-36	Wenjun Xiang (Dalian University of Technology)	Research on Electric Field Optimization of 126kV Vacuum Interrupter
C1-P-37	Wenjun Xiang (Dalian University of Technology)	Study on the Influence of Structural Parameters of 126kV Vacuum Interrupter on Electric Field Distribution

C1-P-38	Lu Zhu (Chengdu Xuguang Electronics Co.,Ltd.)	Simulation Study on Modeling of Vacuum Arc Characteristics and Anode Temperature Rise in Low-frequency Vacuum Interruption
C1-P-39	Lu Zhu (Chengdu Xuguang Electronics Co.,Ltd.)	Investigation on Vacuum Arc Characteristics and Anode Temperature of 16.7 Hz Vacuum Interruption
C1-P-40	Minfu Liao (Dalian University of Technology)	Detection Method for Vacuum Degree in Vacuum Circuit Breakers Based on Electron Multiplication
C1-P-41	Minfu Liao (Dalian University of Technology)	Research on Vacuum Degree Detection Technology for Vacuum Circuit Breakers Using High-Frequency High-Voltage Pulse Power Supply

Friday, Sept. 26, 2025

Tianfu International Convention Center

Oral Session 10 (C3+C4)			
Chair: Sandeep Kulkarni			
Time	No.	Presenter	Title
8:30-8:55	C3-I-02	Huantong Shi (Xi'an Jiaotong University)	Wire-shorted Rod-pinch Diode for Flash X-ray Radiography and Dynamic X-ray Diffraction
8:55-9:10	C3-O-01	Aurelian Marcu (NILPRP)	Pulsed Electron Beams and EM Field Generation from Solid Targets-Proceeding
9:10-9:25	C3-O-02	Eugeni Popov (Ioffe Institute)	Field Emission Parameter Extraction Method for Semiconductor Nanowire Emitters
9:25-9:40	C4-O-01	Tommaso Patton (Consorzio RFX)	Progress of the High Voltage Vacuum Insulation Tests at ITER Neutral Beam Test Facility
9:40-9:55	C4-O-02	Moein Borghei (Avalanche Energy)	An Overview of Vacuum Insulation Technology for the Orbitron Fusion Device

Oral Session 11 (B5+C2+C5+C6)			
Chair: Zongqian Shi			
Time	No.	Presenter	Title
10:30-10:45	B5-O-01	Zhanqing Chen (Taiyuan University of Technology)	Research on Current Rising Rate of Surface-flashover Triggered Vacuum Switch under Different Trigger Parameters
10:45-11:00	C2-O-01	Vadim Gridilev (Institute of High Current Electronics SB RAS)	Erosion of Cathode Materials with Different Melting Temperatures in a Pulsed Vacuum Arc
11:00-11:15	C5-O-01	Dejie Wei (Beihang University)	Experimental Study on Arc Discharge Characteristics under Different Excitations of Spacecraft Solar Array
11:15-11:30	C6-O-01	Sergei Filippov (Ioffe Institute)	Field Emission Characteristics of Plasma-Treated Carbon Nanotube/Polystyrene Large-Area Field Emitter

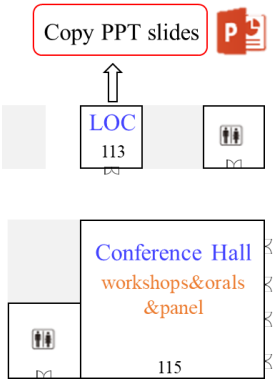
Closing Ceremony
11:30-12:30

Presentation Guidelines

Presentation File

Presenters have three options to deal with PPT slides.

(a) Bring the presentation file copied onto a USB memory stick to the LOC office (Room 113) half day before the oral session starts. Volunteers will download the presenter's file to the laptop.



(b) Send the file to the LOC e-mail address info@isdeiv2025.org half day before the oral session begins. Name the e-mail with the session number, for example A1-O-01.

(c) If presenters prefer to using their own laptop, please inform LOC through info@isdeiv2025.org in advance. Presenter are requested to bring their own power adapter and connecting cables.

We suggest that participants check display in the conference hall ahead of their presentation when the conference room is not occupied by any activities.

Slides in 16:9 format are recommended. Please prepare backup files in case of any problems.

The following devices are provided for the convenience of presentation in each oral session.

- A laptop (MS PowerPoint 2021, OS Win11 is only available)
- A laser pointer

Presentation Time

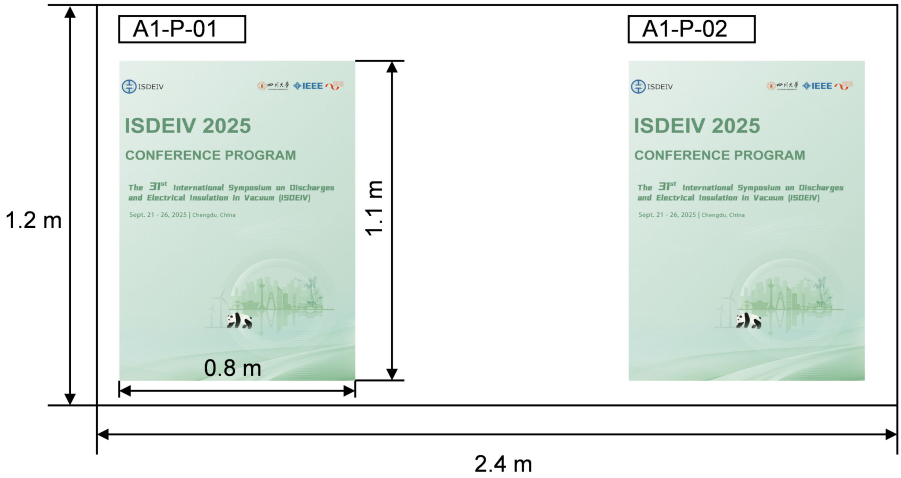
Invited talks (**25 minutes in total**): 18 minutes for presentation, 6 minutes for Q&A, 1 minute for movement.

General oral presentations (**15 minutes in total**): 10 minutes for presentation, 4 minutes for Q&A, 1 minute for movement.

Poster Sessions

LOC will place poster panels outside Room 115, Jiuzhai.

- Please print your poster on your own.
- Abstract number: 8 cm in height. Volunteers will update the abstract number on the left top corner according to scheduled poster sessions.



Pins and double-side sticky tapes will be available for fixing the poster. Please take away your poster when the allocated time is over. Volunteers will remove posters which are left on the panel but if its exhibition time has passed.

Note: Competitors for Chatterton Award should present in both Oral and Poster Sessions.

Social Events

Welcome Reception

Date: Sunday, September 21

Time: 18:00~21:00

Venue: 1F YUE Cafe, Qinhuang Holiday Inn

Address: No. 999 Hanzhou Road, Tianfu New Area, Chengdu

300 m away from Tianfu Intl. Convention Center, approximately 4 minutes' walk.

Excursion and Banquet

Date: Wednesday, September 24

Time: 11:30~22:00

Gathering place: The front of the convention center

Takeaway: Available from 11:30 at the entrance of the conference hall, Room 115, Jiuzhai



Visit to the Sanxingdui Museum

11:30-12:00 Get takeaway and get on tour buses

12:00-13:30 Ride for Sanxingdui Museum

13:30-16:30 Visit in Sanxingdui Museum

16:30-17:00 Break and get on tour buses

17:00-18:00 Ride for Crowne Plaza

Sanxingdui Museum is a fascinating window into the ancient Shu civilization. The museum showcases over 6,000 remarkable artifacts. The Sanxingdui Ruins, dating back 4,500 to 2,900 years, reveal the unique culture, artistry, and technological achievements of the mysterious Shu Kingdom. It is a must-visit destination for anyone interested in archaeology.

Banquet in Crowne Plaza Chengdu Panda Garden

18:00-18:30 Cocktail reception at the entrance of the Grand Ballroom

18:30-19:00 Food service

19:00-19:30 Award Ceremony

19:30-20:30 Cultural performances

21:30-22:00 Buses that are full will leave at once

It takes one hour to return to the convention center.

The banquet will feature with traditional Chinese performances, offering guests a rich cultural experience alongside the evening's dining.

✧ Caution

The banquet will be held right after the visit to Sanxingdui Museum.
Participants are carried to Crowne Plaza directly by the tour bus.

Anyone who plans to participate the banquet only, following ways are available.

[Metro & Bus]

➢ From Tianfu Intl. Convention center

Walk from Tianfu Intl. Convention center to Western China International Expo City Station of Line 18. Take Line 18 to South Railway Station and transfer to Line 1. Get off Line 1 at Provincial Stadium and transfer to Line 3. Get off Line 3 when arriving at Panda Avenue Station. Take Bus 198 and get off at Ertaizi Stop. Crowne Plaza is 13 minutes' walk from Ertaizi Stop.

This route takes around 2 hours.

Fare: ￥10.0 RMB

[Taxi]

- **From Tianfu Intl. Convention center**

Distance: 46~53 km

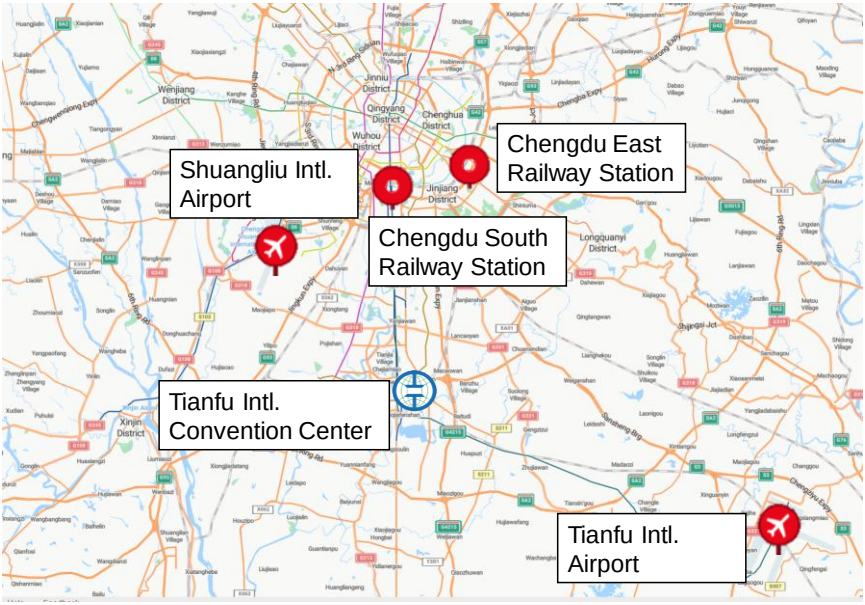
Fare: ￥127~147 RMB

It takes about 1 hour.

Conference Venue

Address: No. 3333 Shuzhou Road, Tianfu New Area, Shuangliu District, Chengdu, Sichuan, China

Note: The location shown on Google Maps is incorrect. It is recommended to use Amap (Gaode Map) or Baidu Map for navigation to the venue.



1、Chengdu Shuangliu International Airport → Tianfu International Convention Center

Distance: approximately 29 km
By taxi: around 44 minutes, estimated cost RMB 100
By public transport: Walk about 250 meters to Shuangliu Airport Terminal 2 East Station, take Metro Line 19 (toward Tianfu Airport North, available 6:00~23:30), get off at Tianfu Commercial District (Exit B), then walk about 1000 meters to the Convention Center.

2、Chengdu Tianfu International Airport → Tianfu International Convention Center

Distance: approximately 50 km
By taxi: around 41 minutes, estimated cost RMB 139
By public transport: Walk about 300 meters to Terminal 1 & 2 Tianfu International Airport Metro Station, take Metro Line 18 (toward South Railway Station, 06:03-23:34), get off at Western China International Expo City Station (Exit E), then walk about 500 meters to the Convention Center.

3、Chengdu East Railway Station → Tianfu International Convention Center

Distance: approximately 30.1 km
By taxi: around 38 minutes, estimated cost RMB 81
By public transport: Walk about 40 meters to Chengdu East Metro Station, take Metro Line 7 (inner loop, 06:15-23:13), transfer at South Railway Station to Metro Line 18 (toward Tianfu Airport North, 06:00-23:30), get off at Western China International Expo City Station (Exit E), then walk about 500 meters to the Convention Center. Total travel time is about 44 minutes.

4、Chengdu South Railway Station → Tianfu International Convention Center

Distance: approximately 20.9 km
By taxi: around 42 minutes, estimated cost RMB 55
By public transport: Walk about 410 meters to Chengdu South Railway Station,

take Metro Line 18 (toward South Railway Station, 06:00-23:30), get off at Western China International Expo City Station (Exit E), then walk about 420 meters to the Convention Center. Total travel time is about 20 minutes.

How to Take Metro in Chengdu

1. Ticket Vending Machines (Self-Service)

a. Locate a ticket machine. Ticket vending machines are available at every station and support both English and Chinese.

b. Select your destination. Use the touchscreen to choose the station you are traveling to. If departing from Shuangliu International Airport, select Tianfu Commercial District (Line 19) as your destination. If departing from Tianfu International Airport or Chengdu East Railway Station, select Western China International Expo City (Line 18).

c. Choose the number of tickets. Select how many tickets you need.

d. Make payment. You can pay using: Cash (bills or coins), Alipay and WeChat Pay.

Tip: Smaller stations may not accept large bills (¥50/¥100), so it's best to carry small change.

e. Collect your tickets and change. Once the payment is complete, take your tickets and any change dispensed.



Note: Single-journey tickets purchased from vending machines must be tapped

at the entrance gate and inserted into the slot at the exit gate. The ticket will be collected, and the gate will open for you to exit.

2. Ticket Counters (For Assistance)

Helpful if you're unsure about the machines or need change.

3. Mobile QR Code (The Easiest Option!)

Please click the following link for details. https://www.chinajob.com/city_content/detail.php?id=yrQdtukl6IaejROm6J





Accommodation

Holiday Inn Chengdu Qinhuang(the primary accommodation for ISDEIV 2025 participants)

Address: No.999 Hanzhou Road, Tianfu New Area, Chengdu, Sichuan, China
Distance from Tianfu International Convention Center: 300 meters (North, approx. 4-minute walk)
Note: Both conference check-in and the welcome reception will be held at this hotel on the evening of September 21.
Room Types and Prices (including taxes and breakfast for two):

- 1 King Bed Standard: ￥450 RMB/night
- 2 Twin Beds Standard: ￥500 RMB /night

Room reservation link

Courtyard by Marriott, Chengdu Tianfu

Address: 288 Bolan Cheng Road, Tianfu New Area, Chengdu, Sichuan, China.
Distance: 500 meters southeast (approx. 6-minute walk)
Average Price: ￥400 RMB /night

Four Points by Sheraton, Chengdu Tianfu

Address: 198 Longxiang West 2nd Street, Tianfu New Area, Chengdu, Sichuan, China
Distance: approx. 800 meters southwest (approx. 10-minute walk)
Average Price: ￥400 RMB /night

Atour Hotel (Chengdu Xibocheng Shuzhou Road)

Address: No. 999, Hanzhou Road, Tianfu New District, Chengdu, Sichuan
Distance: 600 meters south (approx. 10-minute walk)
Average Price: ￥330 RMB /night

Huazhu Quanji Hotel, Chengdu Tianfu

Address: No. 500, Xingkang 3rd Street, Tianfu New District, Chengdu, Sichuan
Distance: 1.5 kilometers northwest (approx. 18-minute walk)
Average Price: ￥250 RMB /night

Registration

From 13:00~21:00 on Sept. 20 and from 8:30~21:00 on Sept. 21.

Qinhuang Holiday Inn

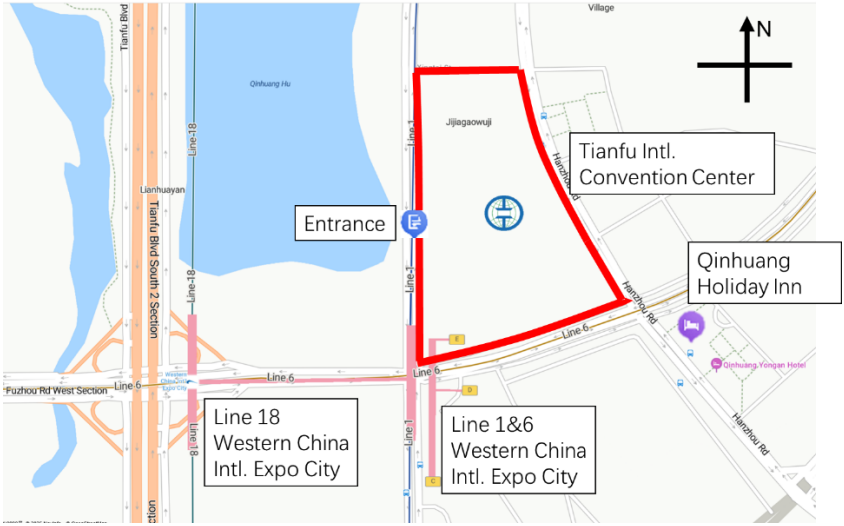
Address: No. 999 Hanzhou Road, Tianfu New Area, Chengdu

300 m away from Tianfu Intl. Convention Center, approximately 4 minutes' walk.

From 8:30, Sept. 22~26

Foyer on 1st floor of Tianfu Intl. Convention Center

Venue Map



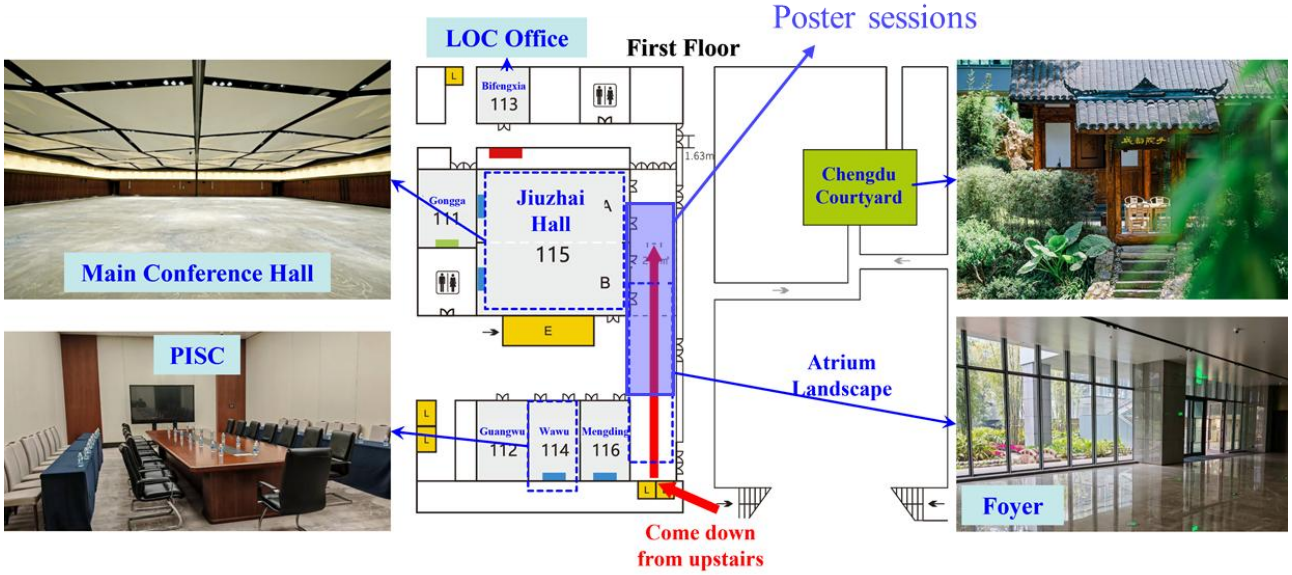
N
Tianfu Intl.
Convention Center
Entrance
Qinhuang
Holiday Inn
Line 18
Western China
Intl. Expo City
Line 1&6
Western China
Intl. Expo City
Tianfu Blvd
Tianfu Blvd South 2 Section
Fuzhou Rd West Section
Line 6
Line 18
Line 1
Hanzhou Rd
Jijiagaowuji
Qinhuang Hu
Village
Lianhuayan
Qinhuang Yongan Hotel



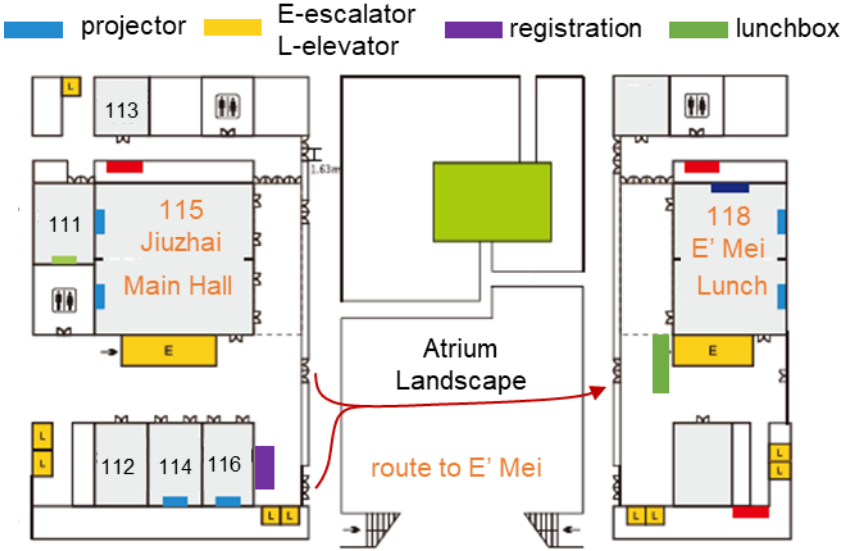
N
A bird's-eye view of the Convention Center
Qinhuang Holiday Inn
Tianfu Intl. Convention Center
Exit E, Western
China Expo City
Station, Line 1 & 6
Qinhuang Lake

Floor Map

Area surrounding the conference hall Jiuzhai



From the main hall to the dining hall



City Information

Chengdu, the vibrant provincial capital of Sichuan Province in southwest China, is renowned for its relaxed lifestyle, famous spicy cuisine, and the beloved Giant Panda Breeding Center. Blending historic temples, traditional teahouses, and bustling streets with modern urban developments, Chengdu consistently ranks among China's most livable and charming cities.

Climate &Weather*

Located in the bordering areas of the Sichuan northwest highland and Sichuan basin, Chengdu has a subtropical monsoon climate, with an altitude of 500 m. The annual average temperature is 16 ℃ / 61 °F and the annual rainfall is about 1000 mm. It's cloudy and humid always and short of sunny days. Another remarkable feature of Chengdu climate is its high humidity. Therefore, it is sultry.

From September onwards the weather in Chengdu gets cooler and cooler with the average high temperature around 26°C (79°F) only. The climate will be noticeably less humid too, with an average rainfall of 119 mm and the occasional heavy fog in the morning. Hence, a trip in this month would be more manageable due to lesser humidity, making trekking, sightseeing, and anything physical more tolerable.

Summer clothing is still good enough for this month. However, temperature drops when autumn arrives in late September. Hence, bring along a light coat or thin sweater. As temperature varies a lot during the day, please be always preparing by dressing appropriately. Umbrella is necessary as well.

*Cited from https://www.travelchinaguide.com.

NOTE