

# Summary



7th International Workshop on  
Heat-Mass Transfer Advances  
for Energy Conservation  
and Pollution Control

# Program

7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control



**IWHT2023**  
Date: Aug 4-8, 2023

IWHT2023 - Program at a glance																		
time	5-Aug			time	6-Aug			time	7-Aug			8-Aug						
Japan																		
9:20				9:20	Pradip Datta ROOM-A			9:20	Tassos G. Karayannidis ROOM-A									
9:30	Registration (90 minutes)			10:00	Coffee Break & Discussion (20 minutes)			10:00	Coffee Break & Discussion (20 minutes)									
11:00	Opening Ceremony (20 minutes, group photo)			10:20	Ken Yamamoto	Masahiro Furuya	Li-Zhi Zhang	10:20	Cunling Liu	Masahiro Motooka	Yasuhiko SHIMAZAKI							
11:20	Afshin J. Ghajar ROOM-A			10:50	Oral Session Atsushi Komiya	Oral Session Xulin Xia	Oral Session Liwei Wang	10:50	Oral Session Kazuya Tsuboi	Oral Session Kun Ge	Haocelin Zhang							
12:00	Xing Zhang ROOM-A			11:20	Multiphase 1 Yaning Zhang (140 minutes) ROOM-A	Advanced technology Xian Yang (135 minutes) ROOM-B	Micro and nanoscale 1 Zhifeng Cheng LAM LAM Kemuke Ishara (140 minutes) ROOM-C	11:20	Advanced heat and mass transfer Yoshihiro Deguchi Qinghua Yu (130 minutes) ROOM-A	Phase change Wenxiao Cui Yu-Tong Mu Kecheng Liang (130 minutes) ROOM-B	Environment Koki IHARA Moshao Wang Xiang Ma Yifan Zhang (130 minutes) ROOM-C	Wei Xiong Chen						
12:40	Lunch & Discussion (80 minutes)			11:40	Kwan Teg Lam Zening ZHOU Jiyan Bi Xu Zhang	Zhitomi Fujii Xiaoyi Cai	Lei Xian	12:40	Lunch & Discussion (80 minutes)			Tao Jiang Tomoko KUWATA						
14:00	Yukihiko Matsumura ROOM-A			14:00	Junjie Yan ROOM-A			14:00	Ikuo Wakaida ROOM-A			Excursion						
14:40	Bengt Sundén ROOM-A			14:40	Janusz S Szymyd ROOM-A			14:40	Coffee Break & Discussion (20 minutes)									
15:20	Coffee Break & Discussion (30 minutes)			15:20	Coffee Break & Discussion (30 minutes)			15:20	Oral Session Jiaqi Wang Naoto Haruki									
15:50	Oral Session Akihiko Horibe Zhiqian Lin	Oral Session Xianglong Luo	TAM LAP MOU Qian Liu	Oral Session Koichi Nakase Zhiqu Zhao	Oral Session Yong Shuai Ting Ma	Oral Session Yutaka Yamada Yang Du	Oral Session Vined Narayanan Jifen Wang Zheng Fang	Oral Session Hideaki Teshima Jinjia Wei Pu He	Oral Session Shinhei Inoue Weigang Ma	Oral Session Kazuma Isobe Lisheng Deng	Oral Session Qin-Yi Li Shanshan Bu							
16:20																		
16:50	Advanced cooling system (140 minutes) ROOM-A	Sarmanand Borjigin Xiangmao Li	Modeling and simulation (140 minutes) ROOM-B	Transport in porous media (140 minutes) ROOM-C	Karem Elshayed Elky Qiang Wang Yingxue Hu	Chen Yao	Energy storage 1 Motahareh Salami Weinan Zhang Jian Liu Zaixing Wang	Renewable energy MENGGLI ZHANG Yoshinobu Yokogawa HOSSAIN MD ZAKIR	(115 minutes) ROOM-B	(115 minutes) ROOM-C	Rui Gu Guangqiang Dang Yuanzhang Zhang							
17:10																		
17:25	Welcome party (150 minutes)			19:30	ISAC meeting (150 minutes)			19:30	Young researcher party									
17:40	Zicheng Tang			18:10	Poster Session (50 minutes)			19:00										
17:55	Yusuke MAKIBIRA Bingcheng Li			18:30				19:30	Banquet (150 minutes)									
18:10				22:00				22:00										

# Organization



## International Organizing Committees

### Chairperson

Y. Deguchi, Japan

### Co-chairpersons

Q.W. Wang, China

Y.T. Chen, USA

N. Haruki, Japan

### Executive Chairperson

Z.Z. Wang, China

### Local Committee Members (Japan)

N. Haruki

K. Yuki

M. Ikeda

K. Isobe

S. Inoue

Y. Okumura

Y. Katou

S. Sumi

K. Tanoue

K. Tsuboi

Y. Deguchi

S. Nakajima

M. Nakahara

Y. Nada

T. Nishimura

S. Nomura

A. Horibe

Y. Matsumura

S. Mukasa

H. Wada

Y. Yamada

K. Kunitsugu

K. Nakaso

## International Scientific and Advisory Committees

### Chairperson

W.Q. Tao, China

### Co-chairpersons

B. Sunden, Sweden

A. Ghajar, USA

P. Stehlík, Czech Republic

### Members

Y. Deguchi (JP)

S.J. Ding (CN)

Y.L. Ding (UK)

N. Duić (HR)

Z.X. Guo (USA)

M.Y. Ha (KR)

Y.L. He (CN)

P.X. Jiang (CN)

V. Lu (CN)

A. Mohamad (CA)

H.S. Park (KR)

A.N. Pavlenko (RU)

Y. Shuai (CN)

T. Simon (USA)

R.Z. Wang (CN)

X. Zhang (CN)

T.S. Zhao (CN)

# Group Photo

7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control

IWHT2023  
Date: Aug 4-8, 2023



# Venue

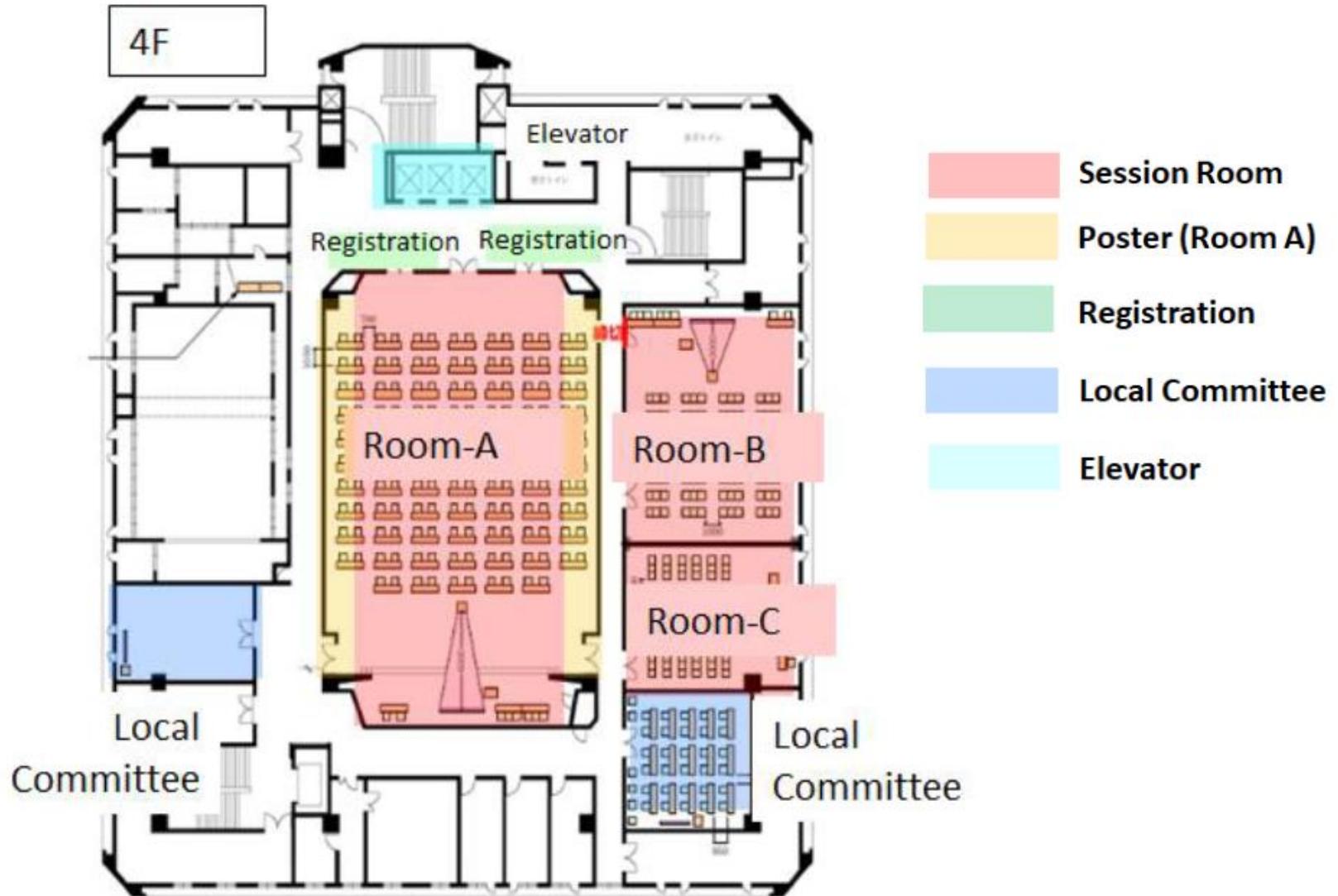


**Conference venue: AWAGIN HALL**

**Address: 2-14,Aibacyo,Tokushima city,Tokushima,  
770-0835,JAPAN**



# Venue



# Presentations



Oral Presentation: 111

Poster Presentation: 22

Welcome party: 120

Young researcher meeting : 52

Excursion : 36

Participant :151

9 countries

China, Japan, USA, Republic of Korea, Czech Republic, India, Canada, England, Sweden

## Plenary Speakers

	<p>Junjie Yan, Xian Jiaotong University STEAM WATER DIRECT CONTACT CONDENSATION TECHNOLOGY AND APPLICATION</p> <p>Junjie Yan is the professor in school of energy and power engineering at Xian Jiaotong University. Prof. Yan is a well-known researcher in the areas of energy system optimization and control.</p>
	<p>Pradip Dutta, Indian Institute of Science Thermochemical Energy Storage Systems</p> <p>Prof. Pradip Dutta is currently J. R. D. TATA Chair Professor in the Department of Mechanical Engineering at IISc Bangalore. He has served as the President of the Indian Society for Heat and Mass Transfer (ISHMT), Associate Editor of ASME Journal of Electronic Packaging.</p>
	<p>Ikuro Wakaida, Japan Atomic Energy Agency CHALLENGING AND DEVELOPMENT ON RADIATION HARDEND LASER REMOTE ANALYSIS FOR IN-SITU SCREENING OF NUCLEAR FUEL DEBRIS IN DECOMMISSIONING OF FUKUSHIMA DAIICHI NUCLEAR POWER STATION</p> <p>Dr. Wakaida is a well-known researcher in the field of nuclear energy and decommissioning. He is the leader of the national R&amp;D project for decommissioning of "Fukushima Daiichi nuclear power station" on onsite, in-situ laser remote analysis of nuclear fuel debris.</p>
	<p>Afshin J. Ghajar, Oklahoma State University Two-Phase Gas-Liquid Flow in Pipes with Different Orientations</p> <p>Dr. Afshin J. Ghajar is Regents and John Brammer Endowed Professor in the School of Mechanical and Aerospace Engineering at Oklahoma State University, Stillwater, Oklahoma, USA and an Honorary Professor of Xian Jiaotong University, Xian, China. He and his co-workers have published over 200 reviewed research papers. He is Fellow of ASME &amp; ASFE. He is the Editor-in-Chief of Heat Transfer Engineering Journal. He is the co-author of two textbooks on Heat and Mass Transfer.</p>
	<p>Xing Zhang, Tsinghua University MULTIDISCIPLINARY INTEGRATION OPTIMIZATION DESIGN OF ELECTRONIC DEVICES: BASED ON IN-SITU MULTI-PHYSICAL FIELD MEASUREMENTS</p> <p>Professor Xing Zhang is the Director of the Institute of Engineering Thermophysics in the School of Aerospace Engineering at Tsinghua University, Beijing, China. His current research interests include micro/nanoscale heat transfer, thermophysical properties of nanostructured materials, multiscale cooling technology for data centers, multidisciplinary optimization design for electronic devices and the efficient use of wind/solar/hydrogen energy sources etc.</p>
	<p>Szmyd, Janusz S., AGH Univ Sci &amp; Technol DEVELOPMENT OF HIGH EFFICIENCY TECHNOLOGIES FOR REINFORCING ENERGY SECURITY</p> <p>Prof. Szmyd, Janusz S. works at the Faculty of Energy and Fuels of the AGH University of Science and Technology in Krakow. He implements many research grants and is the author of over 270 scientific papers. He developed the study program of the international field of study Energy and Environmental Engineering (implemented jointly by AGH and Shibaura Institute of Technology).</p>
	<p>Yukihiko Matsumura, Hiroshima University HIROSHIMA SCENARIO TO ACHIEVE CARBON NEUTRAL SOCIETY AND ROLE OF BIOMASS</p> <p>Prof. Yukihiko Matsumura works at Hiroshima University. His current research topics are supercritical water gasification of biomass, hydrothermal pretreatment of lignocellulosic for ethanol fermentation, dehumidification of air using a chemical reaction, and heat transfer characteristics of supercritical water. He is the manager of the Biomass Division, Japan Institute of Energy, and Asia Biomass Association.</p>
	<p>Tassos G. Karayannidis, Brunel University London Flow boiling in small to micro scale heat exchangers</p> <p>Professor Karayannidis leads the Two-Phase Flow and Heat Transfer Group and directs the Brunel Energy Efficient and Sustainable Technologies Research Centre. He has been involved with fundamental and applied research in convective heat transfer, active and passive methods in enhanced pool boiling and condensation processes and flow boiling in small to micro scale heat exchangers. He is a Fellow of the IMechE and Ei, the Chairman of the UK National Heat Transfer Committee and the President of the UK Heat Transfer Society</p>
	<p>Bengt Sundén, Lund University ON HEAT TRANSFER ISSUES IN GAS TURBINE APPLICATIONS</p> <p>Bengt Sundén received M. Sc. in Mechanical Engineering 1973, Ph. D. and Docent in Applied Thermodynamics and Fluid Mechanics 1979 and 1980, respectively, from Chalmers University of Technology, Sweden. He served as Head of Energy Sciences during 1995-2016. The research activities include compact heat exchangers, enhanced heat transfer, gas turbine heat transfer, combustion-related heat transfer, and others. He received the ASME HTD 75th Anniversary Medal in 2013.</p>

# Presentations



# Awards

**IWHT2023**  
Date: Aug 4-8, 2023



# Welcome Party

7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control

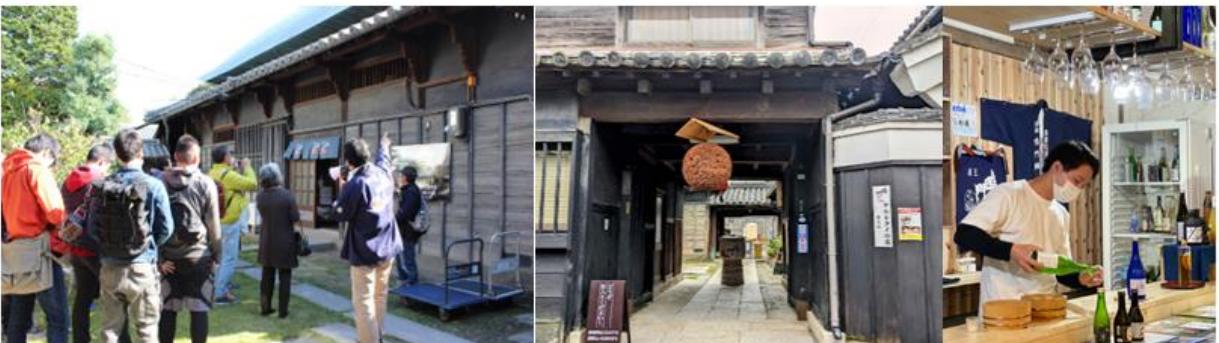
**IWHT2023**  
Date: Aug 4-8, 2023

Time	20-AMC	
8:20	Japan	
8:20	Registration (90 minutes)	
11:00	Opening Ceremony (20 minutes, group photo)	
11:20	Afshin J. Ghajar ROOM-A	
12:00	Xing Zhang ROOM-A	
12:40	Lunch & Discussion (80 minutes)	
14:00	Yukihiko Matsunaga ROOM-A	
14:40	Bengt Sandén ROOM-A	
15:00	Coffee Break & Discussion (30 minutes)	
16:20	Oral Session Advanced cooling system ROOM-A	Akiko Horie Zhenan Liu Xianglong Liu Sureshbabu Bogaia Xiangnan Li Zicheng Tang Bingcheng Li
16:50	Oral Session Modelling and simulation (140 minutes) ROOM-B	TAM LAP MOU Qihui Liu Keishi Nakao Zhigang Zhao Qiang Wang Yoshiki MASHIMA Zhifan Ye
17:10	Oral Session Transport in porous media (140 minutes) ROOM-C	Yong Suau Pu He Karen Maynard Shiley Yingxue Hu Weiqi Liu Shengqiang Wang
17:28		
17:40		
17:55		
18:10		
19:30	Welcome party (150 minutes)	
22:00		

**Welcome Party : August 5<sup>th</sup> 19:30-21:30**  
**Sake brewery**

**Buses will come to the conference venue.  
Please board the bus by 18:40.**

## Sake brewery



# Welcome Party

IWHT2023  
Date: Aug 4-8, 2023

Prof. Yasuhiko Kawamura  
President of Tokushima University



Prof. Qiuwang Wang  
Xi'an Jiaotong University



Local sake made with "LED yeast," a fusion of the latest technology and tradition



# Welcome Party

7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control

**IWHT2023**  
Date: Aug 4-8, 2023



Japanese puppet theater



Jazz theater



Local cuisine unique to Tokushima Prefecture



# Young Researchers' Party

IWHT2023  
 Date: Aug 4-8, 2023

S-ABE	
Poster Session (40 mins) * Korean 20 mins 24 Chinese 20 mins 28 Other 22 mins 28	
Pradeep Datta ROOM-A	
Coffee Break & Discussion (20 minutes)	
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# Young Researchers' Party



# Banquet

**IWHT2023**  
Date: Aug 4-8, 2023

7-Aug	
19:30-20:00 Taeori O. Karyemiro (200M) ROOM-A	
20:00-20:20 Coffee Break & Discussion (20 minutes)	
Oral Session Advanced heat and mass transfer (130 minutes) ROOM-A	Cailing Liu Kazuo Tsuchi Yukiohiko Okamura Qinghai Yu Yu-Ting Ma Kehong Tang Yidan Zhang
Oral Session Phase change (30 minutes) ROOM-B	Maudoro Montaudo Kun Gu Wenjian Chen Ying Sun Madan Wang Xiang Ma Xin Wang
Oral Session Environment (30 minutes) ROOM-C	Yasuhito ISHIMAZAII Huchuan Zhang Wenlong Chen Koki BHARA Qianglin Cao Tao Jiang Toshiaki KIKUCHI
20:20-20:40 Lunch & Discussion (60 minutes)	
20:40-21:00 Ikuo Wakada (200M) ROOM-A	
21:00-21:20 Coffee Break & Discussion (20 minutes)	
Oral Session Energy storage 2 (115 minutes) ROOM-A	Jiayi Wang Naoko Hanaki Zhenchen Wang Tao Zeng Qiang Zhang
Oral Session Micro and nanoscale 2 (115 minutes) ROOM-B	Shulan Issac Weiying Ma Lixiang Deng Tengting Miao Yunfen Liu Ting Ma
Oral Session Numerical simulation (115 minutes) ROOM-C	Qing Li Kazuma Ueda Binghuan Bi Jia Ou Zengqiang Dai Yiheqiang Zhang
21:20-21:40 Closing Ceremony (25 minutes)	
21:40-23:00 Banquet (150 minutes)	

**Banquet : August 7<sup>th</sup> 19:30-21:30**

JR Hotel Clement TOKUSHIMA

Please come to "JR Hotel Clement TOKUSHIMA" by 19:30.  
Admission will be closed around 19:35.



# Banquet

7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control

**IWHT2023**  
Date: Aug 4-8, 2023



**Award Ceremony**



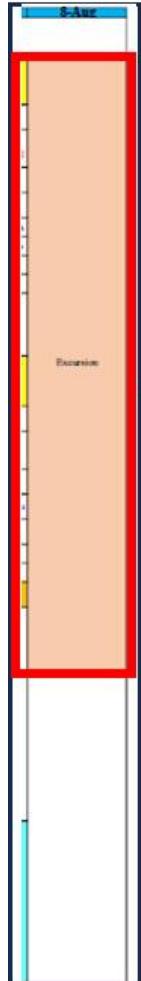
**Banquet Room**

**Awa dance**



# Excursion

IWHT2023  
Date: Aug 4-8, 2023



**Excursion : August 8<sup>th</sup> 9:30-17:00**

***Registration is required for this meeting.***

***(Only registered participants can attend this event. Free of Charge)***

Indigo dyeing



Lunch



Tourist ship and Vortex road



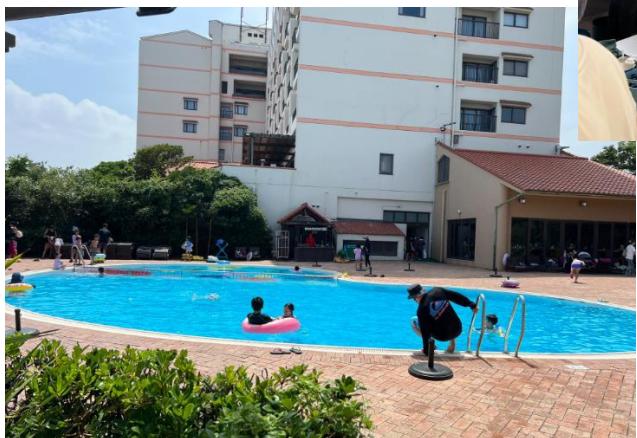
# Excursion



Indigo  
Dyeing



Lunch Venue



Naruto



# Sponsors

## Japan

**Chushikoku Thermal Science Society of Japan**

**Tokushima University**

**Japan National Tourism Organization(JNTO)**

**Tokushima Prefecture Tourism Organization**

**Japan Society of Mechanical Engineers**

**-Chugokushikoku Branch -**

**The Iron and Steel Institute of Japan**

**-Division of Process Evaluation and Material  
Characterization-**

**Japanese LIBS Community**



# Sponsors



## International

**International Centre for Heat and Mass Transfer  
Chinese Society of Engineering Thermophysics**

# IWHT2025



## 8TH INTERNATIONAL WORKSHOP ON HEAT-MASS TRANSFER ADVANCES FOR ENERGY CONSERVATION AND POLLUTION CONTROL

2025

HONG KONG SAR, CHINA



**Chairperson : Prof. Vivien Lu**

**IWHT2023**  
Date: Aug 4-8, 2023

# 7th International Workshop on Heat-Mass Transfer Advances for Energy Conservation and Pollution Control

*Thank you for your contribution!*