

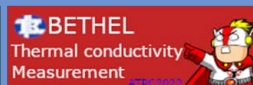
# The 13<sup>th</sup> Asian Thermophysical Properties Conference

September 26 – 30, 2022, Online, JAPAN

Hosted by Japan Society of  
Thermophysical Properties 

ATPC2022  zoom

## Summary



# The 13<sup>th</sup> Asian Thermophysical Properties Conference

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ATPC2022

## Fact Data

Participant:

353

17 Countries

Presentation:

184 + 29

Oral/video

Poster

6 No Show  
As of 29 SEP

Key talk:

3 + 16 + 29

Plenary

Keynote

Invited

Session:

3 + 17 + 1

Plenary

Organized

Poster

Award:

3 + 5

ATPC

BPA/SPA

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## Plenary Lectures

Tuesday Sep. 27

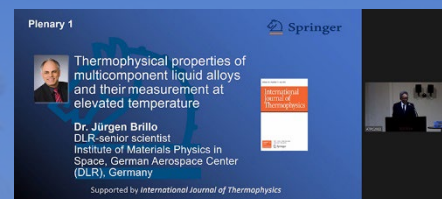


Thermophysical properties of multicomponent liquid alloys and their measurement at elevated temperature

**Dr. Jurgen Brillo**

DLR-senior scientist

Institute of Materials Physics in Space, German Aerospace Center (DLR), Germany

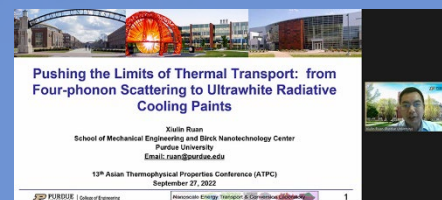


Pushing Limits of Thermal Transport: from Four-Phonon Scattering to Ultrawhite Radiative Cooling Paints

**Professor Xiulin Ruan**

Purdue University

University Faculty Scholar School of Mechanical Engineering Birck Nanotechnology Center, Purdue University, US



Nanomaterials for phase change heat transfer

**Professor Koji Takahashi**

Kyushu University

WPI Principal Investigator, WPI-I2CNER, Kyushu University, Japan



# ATPC Significant Contribution Award

---

Professor Ramesh Laxminarayan Gardas  
Indian Institute of Technology Madras, India

## RESEARCH AREAS:

Chemical Thermodynamics; Fluid Phase Equilibria;  
Solution Chemistry; Thermophysical Properties;  
Ionic Liquids; Deep Eutectic Solvents; Group  
Contribution methods; Structure-Property  
correlations.



# ATPC Young Scientist Award

---



Dr. Aoran Fan  
Tsinghua University, China

**RESEARCH AREAS:**

Thermophysical properties and micro/nano scale measurement technology



Dr. Takuma Shiga  
National Institute of Advanced Industrial  
Science and Technology, Japan

**RESEARCH AREAS:**

Micro-nano heat transfer, phonon transport, thermoelectrics, thermal management

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## Awardee of Student Poster Award

**2P1001-29-06    Yurina Wakita    Kansai University**

Low-temperature operatable electric power supply for CubeSats using VO<sub>2</sub>-based phase change material (PCM)

**2P1001-29-19    Riku Shimauro    Aoyama Gakuin University**

Heat transport properties for amorphous and polycrystalline WO<sub>3</sub> films

**2P1001-29-29    Ziad Maksassi    Nantes Université**

Thermal characterization of mussels around an umbilical cable:  
Application to offshore wind turbine

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## Day 0 and Day 1

Sep. 26 (Mon)						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room P
17:00-18:00	IOC meeting					
Sep. 27 (Tue)						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room P
9:00-9:10	Opening remarks					
9:10-10:10	<b>Plenary 1</b> <b>Dr. Jürgen Brillo</b> "Thermophysical properties of multicomponent liquid alloys and their measurement at elevated temperature"					
10:10-11:10	<b>Plenary 2</b> <b>Professor Xiulin Ruan</b> "Ultra-efficient Radiative Cooling Paints: Materials, Energy Savings, and Climate Crisis Mitigation"					
11:10-12:10	<b>Plenary 3</b> <b>Professor Koji Takahashi</b> "Nanomaterials for phase change heat transfer"					
12:10-13:30	Lunch					
13:30-14:00	ATPC Awards ceremony					
14:00-14:30	2022 Ared Cezairliyan Best Paper Award ceremony					
14:30-15:00	Coffee break					
15:00-17:00						Poster

# The 13<sup>th</sup> Asian Thermophysical Properties Conference

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## Day 2

Sep. 28 (Wed)						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room P
9:00-10:30	<b><u>OS4-1</u></b> MEMS Devices for Properties Sensing (90 min)	<b><u>OS2-1</u></b> Properties of composites, polymers, and organic assemblies (90 min)	<b><u>OS3-1</u></b> Instrumentation and Measurement Techniques (90 min)	<b><u>OS1-1</u></b> Materials Informatics, Database and Standards (90 min)	<b><u>OS12-1</u></b> Properties for Materials Science at High Temperatures (90 min)	
10:30-10:50	Coffee break					
10:50-12:20	<b><u>OS4-2</u></b> MEMS Devices for Properties Sensing (100 min)	<b><u>OS2-2</u></b> Properties of composites, polymers, and organic assemblies (90 min)	<b><u>OS3-2</u></b> Instrumentation and Measurement Techniques (70 min)	<b><u>OS15-1</u></b> Thermophysical Properties and Heat Transfer of Multi Phase, Phase Change (90 min)	<b><u>OS12-2</u></b> Properties for Materials Science at High Temperatures (100 min)	
12:20-14:00	Lunch					
14:00-15:50	<b><u>OS10-1</u></b> Thermal Radiative Properties (90 min)	<b><u>OS2-3</u></b> Properties of composites, polymers, and organic assemblies (90 min)	<b><u>OS3-3</u></b> Instrumentation and Measurement Techniques (100min)	<b><u>OS15-2</u></b> Thermophysical Properties and Heat Transfer of Multi Phase, Phase Change (110 min)	<b><u>OS12-3</u></b> Properties for Materials Science at High Temperatures (90 min)	
15:50-16:10	Coffee break					
16:10-18:00	<b><u>OS10-2</u></b> Thermal Radiative Properties (70 min)	<b><u>OS2-4</u></b> Properties of composites, polymers, and organic assemblies (80 min)	<b><u>OS13-1</u></b> Thermophysical Properties of Solids (60 min)	<b><u>OS15-3</u></b> Thermophysical Properties and Heat Transfer of Multi Phase, Phase Change (110 min)	<b><u>OS12-4</u></b> Properties for Materials Science at High Temperatures (90 min)	

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## Day 3

Sep. 29 (Thu)						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room P
9:00-10:30	<b><u>OS10-3</u></b> Thermal Radiative Properties (70 min)	<b><u>OS5-1</u></b> Nano/Micro-scale Thermophysical Properties (90 min)	<b><u>OS13-2</u></b> Thermophysical Properties of Solids (60 min)	<b><u>OS16-1</u></b> Thermophysical Properties of Space Materials (90 min)	<b><u>OS12-5</u></b> Properties for Materials Science at High Temperatures (80 min)	
10:30-10:50	Coffee break					
10:50-12:20		<b><u>OS5-2</u></b> Nano/Micro-scale Thermophysical Properties (90 min)	<b><u>OS6-1</u></b> Properties for Energy Resources (100 min)	<b><u>OS16-2</u></b> Thermophysical Properties of Space Materials (100 min)	<b><u>OS14-1</u></b> Thermophysical Properties of Fluids (90 min)	
12:20-14:00	Lunch					
14:00-15:50	<b><u>OS17-1</u></b> Thermophysical Properties of Working Fluids and Low GWP Refrigerants (90 min)	<b><u>OS5-3</u></b> Nano/Micro-scale Thermophysical Properties (110 min)	<b><u>OS6-2</u></b> Properties for Energy Resources (90 min)	<b><u>OS7-1</u></b> Properties of Biomaterials (70 min)	<b><u>OS14-2</u></b> Thermophysical Properties of Fluids (100 min)	
15:50-16:10	Coffee break					
16:10-18:00	<b><u>OS17-2</u></b> Thermophysical Properties of Working Fluids and Low GWP Refrigerants (90 min)		<b><u>OS6-3</u></b> Properties for Energy Resources (110 min)	<b><u>OS7-2</u></b> Properties of Biomaterials (60 min)	<b><u>OS14-3</u></b> Thermophysical Properties of Fluids (60 min)	

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## Day 4

Sep. 30 (Fri)						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room P
9:00-10:30	<b><u>OS17-3</u></b> Thermophysical Properties of Working Fluids and Low GWP Refrigerants (90 min)	<b><u>OS11-1</u></b> Properties of Thermoelectric Materials (90 min)	<b><u>OS8-1</u></b> Properties for Sustainable Buildings and Renewable Energy Systems (100 min)	<b><u>OS9-1</u></b> Thermal Design of Electric Device (60 min)	<b><u>OS14-4</u></b> Thermophysical Properties of Fluids (80 min)	
10:30-10:50	Coffee break					
10:50-12:20	<b><u>OS17-4</u></b> Thermophysical Properties of Working Fluids and Low GWP Refrigerants (90 min)	<b><u>OS11-2</u></b> Properties of Thermoelectric Materials (70 min)	<b><u>OS8-2</u></b> Properties for Sustainable Buildings and Renewable Energy Systems (90 min)	<b><u>OS9-2</u></b> Thermal Design of Electric Device (60 min)	<b><u>OS14-5</u></b> Thermophysical Properties of Fluids (80 min)	
12:30-13:00	<b>Closing ceremony</b>					

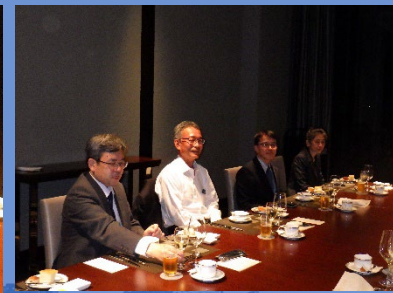
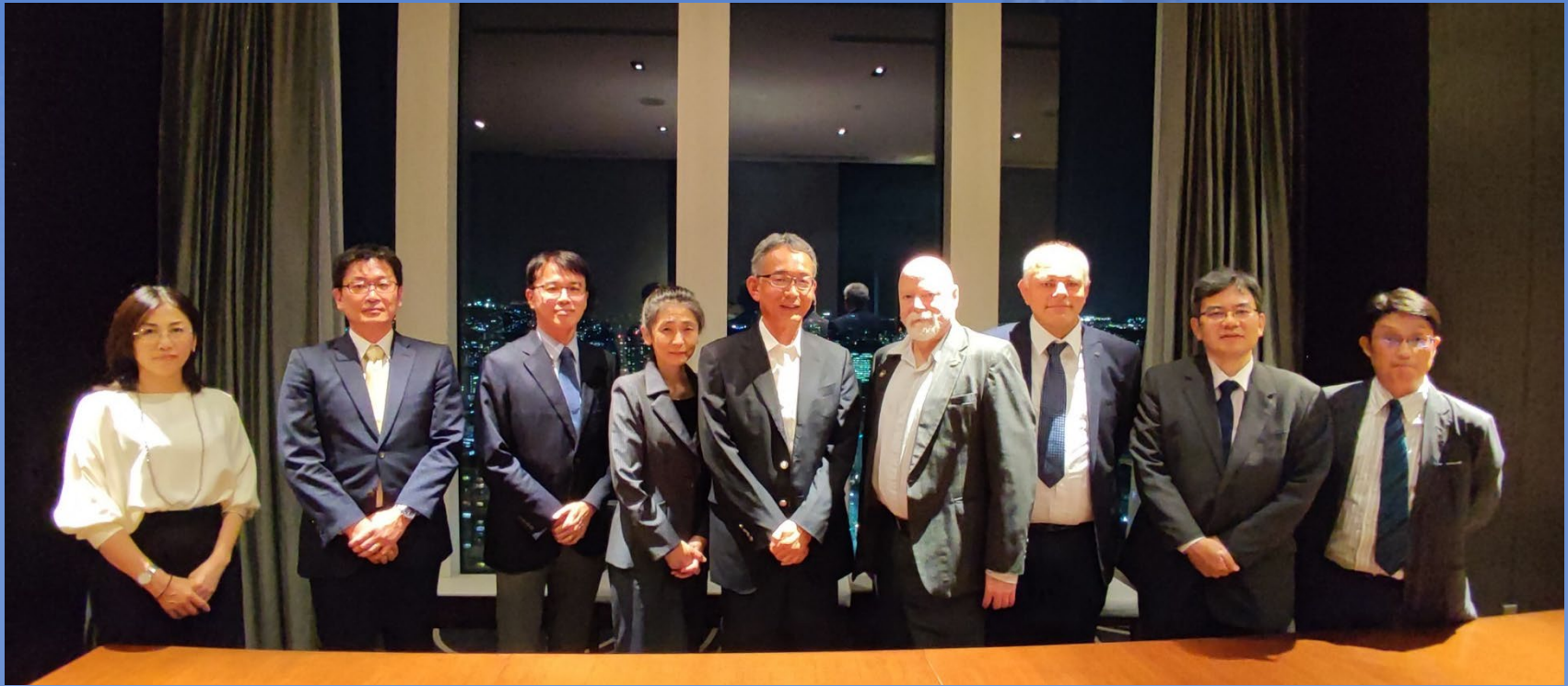
Now, we're here.

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## Evening with Plenary speakers and Award winners Monday Sep. 26



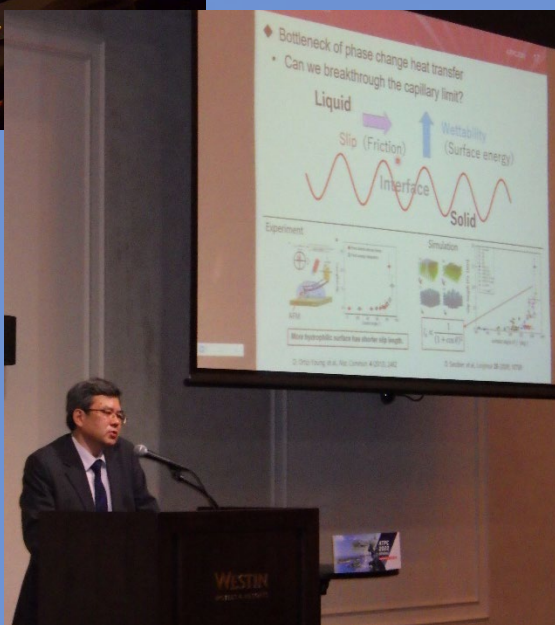
# The 13<sup>th</sup> Asian Thermophysical Properties Conference

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## Opening

Tuesday Sep. 27



# The 13<sup>th</sup> Asian Thermophysical Properties Conference

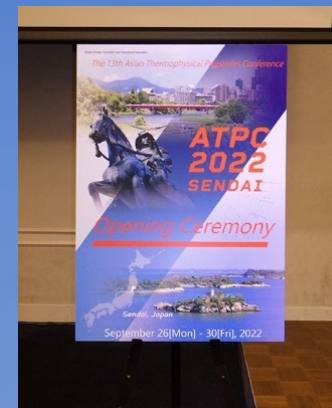
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## Opening

Tuesday Sep. 27



# The 13<sup>th</sup> Asian Thermophysical Properties Conference

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## ATPC Awards ceremony

Tuesday Sep. 27



**Thank you**

**ATPC2022** The 13th Asian Thermophysical Properties Conference

**Japan Society of Thermophysical Properties**

**Asian Union of Thermal Science and Engineering**

**HTSJ** The Heat Transfer Society of Japan

**IMRAM** Tohoku University

**Japan Organization for Supporting Thermal Science Research**

**一般社団法人 熱学工学振興会** Aoba Foundation for the Promotion of Engineering

**東京大学工学部材料科学科** School of Engineering, Tohoku University

**科研費 KAKENHI**

**International Journal of Thermophysics**

**ATPC Significant Contribution Award**

- International Organizing Committee (IOC) of ATPC
- International Scientific Committee
- ATPC Award Committee
- Dr. Dip Saikia
- Prof. Hiroyuki Fukuyama
- ATPC2022 Organizing Committee



**Prof. Ramesh L. Gardas**  
Indian Institute of Technology Madras, India

## 2022 Ared Cezairliyan Best Paper Award

International Journal of Thermophysics

2416 Impact Factor

**International Journal of Thermophysics – 43 Years**

The aim: "a high quality journal having a policy of broad coverage in all major scientific and technological areas of thermophysics... serving both the generators and users of thermophysical properties data"

- Introductory Statement from Ared Cezairliyan, Founding EIC

- 5200+ papers published
- 57,000 citations

**Editors-in-Chief:**  
Ared Cezairliyan – 1980-1997  
William "Mickey" Haynes – 1997-2014  
Andreas Mandelis – 2015-2019  
Marc Assael – 2020 -

**Prof. Marc J. Assael**  
EIC of IJT



**SELF-INTRODUCTION**

**Aoran Fan**  
Tsinghua University  
P. R. China

- **EDUCATION AND EMPLOYMENT**  
2011-2015 Bachelor, Tsinghua University  
2015-2021 Ph. D, Tsinghua University  
2021-present Assistant research fellow
- **RESEARCH AREAS**  
Thermophysical properties  
Micro/nano scale measurement technology
- **AWARDS**  
Student Poster Award of 11<sup>th</sup> ATPC  
Best Paper Award of 12<sup>th</sup> ATPC

**Dr. Aoran Fan**  
Tsinghua University, China

**Phonon transports: bulk, interface, nanostructure**

Thanks to the great collaborations with many researchers, I have contributed to development of phonon transport theory.

**Dr. Takuma Shiga**  
AIST

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# The 13<sup>th</sup> Asian Thermophysical Properties Conference

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Wednesday Sep. 28

## OS12 Properties for Materials Science at High Temperatures



## Discussion, Discussion and Happiest Moments



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## Introduction of 22<sup>nd</sup> ECTP

ECTP 22<sup>nd</sup>  
**2023**

European Conference  
on Thermophysical  
Properties

VENICE (ITALY), 10-13 September 2023



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## Introduction of 22<sup>nd</sup> STP

*We cordially invite you to  
participate in the 22<sup>nd</sup>  
Symposium on  
Thermophysical Properties in  
Boulder, CO, USA  
June 23 – 28, 2024*



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## Introduction of ATPC2025

**ATPC2025 will be held in  
Shanghai, China**



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*Special thanks to  
International Organizing Committee of ATPC*

Yeon Suk Choi

Korea Basic Science Institute

Hiroyuki Fukuyama

Tohoku University

Sanghyun Lee

Korea Research Institute of Standards and Science

Dong-Wook Oh

Chosun University

Dip Saikia

Digboi College

Yoshihiro Taguchi

Keio University

Koji Takahashi

Kyushu University

Naoyuki Taketoshi

The National Institute of Advanced Industrial  
Science and Technology

Dawei Tang

Dalian University of Technology

Ganesh Ch Wary

Cotton College State University

Duan Yuning

National Institute of Metrology

Xing Zhang

Tsinghua University

Xinxin Zhang

University of Science and Technology Beijing

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## *Special thanks to International Scientific Committee*



Marc J. Assael	Aristotle University
Yeon Suk Choi	Korea Basic Science Institute
Hiroyuki Fukuyama	Tohoku University
Marcia L. Huber	National Institute of Standards and Technology
Sanghyun Lee	Korea Research Institute of Standards and Science
Andreas Mandelis	University of Toronto
Douglas Matson	Tufts University
Alberto Muscio	Università di Modena e Reggio Emilia
Dong-Wook Oh	Chosun University
Gernot Pottlacher	Technische Universität Graz
Dip Saikia	Digboi College
Luis Santos	Universidade do Porto
Yoshihiro Taguchi	Keio University
Koji Takahashi	Kyushu University
Naoyuki Taketoshi	The National Institute of Advanced Industrial Science and Technology
Dawei Tang	Dalian University of Technology
William A. Wakeham	Royal Academy of Engineering
Ganesh Ch Wary	Cotton College State University
Duan Yuning	National Institute of Metrology
Xing Zhang	Tsinghua University
Xinxin Zhang	University of Science and Technology Beijing

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*Special thanks to National Executive Committee*

Secretary General

Atsuki Komiya Tohoku University

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NIT, Hakodate College  
Nagasaki University  
Tokyo Institute of Technology  
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Takuma Shiga

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The University of Tokyo  
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Yokohama National University  
Tohoku University  
Osaka University  
Japan Aerospace Exploration Agency  
Keio University  
Tohoku University  
The National Institute of Advanced Industrial  
Science and Technology

Hokkaido University  
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The National Institute of Advanced Industrial  
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Science and Technology  
Nagaoka University of Technology  
The National Institute of Advanced Industrial  
Science and Technology  
The National Institute of Advanced Industrial  
Science and Technology  
Keio University  
Osaka Prefecture University

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## *Special thanks to OS Organizers*

- OS01 Naofumi Yamada (AIST), Yuichiro Yamashita (AIST), Yibin Xu (NIMS)
- OS02 Junko Morikawa (Tokyo Institute of Technology),  
Yoichi Murakami (Tokyo Institute of Technology),  
Yasuyuki Agari (Osaka Industrial Research Association)
- OS03 Koji Fumoto (Aoyama Gakuin University), Masamichi Kohno (Kyushu University)
- OS04 Yoshihiro Taguchi (Keio University), Yasuyuki Yamamoto (AIST)
- OS05 Takashi Yagi (AIST), Junichiro Shiomi (The University of Tokyo)
- OS06 Kenji Yasuoka (Keio University), Naoya Sakoda (Kyushu University),  
Ryo Ohmura (Keio University)
- OS07 Ryo Shirakashi (The University of Tokyo), Tomohide Yabuki (Kyushu Institute of Technology)
- OS08 Atsumasa Yoshida (Osaka Prefecture University),  
Noboru Yamada (Nagaoka University of Technology)
- OS09 Satoru Momoki (Nagasaki University), Tomoyuki Hatakeyama (Toyama Prefectural University)
- OS10 Tsuyoshi Totani (Hokkaido University), Atsushi Sakurai (Niigata University)
- OS11 Koji Miyazaki (Kyushu Institute of Technology),  
Takuma Shiga (The National Institute of Advanced Industrial Science and Technology)
- OS12 Takehiko Ishikawa (JAXA), Shumpei Ozawa (Chiba Institute of Technology),  
Sohei Sukenaga (Tohoku University), Hidekazu Kobatake (Doshisha University)
- OS13 Naoyuki Taketoshi (AIST), Megumi Akoshima (AIST)
- OS14 Masahiro Motosuke (Tokyo University of Science), Atsuki Komiya (Tohoku University)
- OS15 Akihiko Horibe (Okayama University), Tatsunori Asaoka (Shinshu University),  
Masahiko Yamada (Hokkaido University)
- OS16 Sumitaka Tachikawa (JAXA), Hosei Nagano (Nagoya University)
- OS17 Yukihiro Higashi (Kyushu University), Noboru Kagawa (National Defense Academy)

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*Special thanks to*

**Local Committee Chair:** Taku Ohara(Tohoku Univ.)

**Secretariat of General Affairs:** Atsuki Komiya(Tohoku Univ.) **Accounting:** Masaki Kubo(Tohoku Univ.)

**Official Website:** Makoto Ohtsuka(Tohoku Univ.), Atsuki Komiya

**Registration:** Makoto Ohtsuka, Atsuki Komiya

**Online System and Oral Presentations:** Makoto Ohtsuka, Atsuki Komiya, Masaki Kubo, Osamu Takeda(Tohoku Univ.), Masayoshi Adachi(Tohoku Univ.), Hiroyuki Fukuyama (Tohoku Univ.)

**Poster Presentations:** Sohei Sukenaga(Tohoku Univ.), Hiroki Gonome(Yamagata Univ.) Hidekazu Kobatake(Doshisya Univ.), Makoto Ohtsuka

**Online Hosting Management:** Hideyuki Aoki(Tohoku Univ.), Gota Kikugawa(Tohoku Univ.), Yosuke Matsushita(Hirosaki Univ.), Junnosuke Okajima(Tohoku Univ.), Eita Shoji(Tohoku Univ.), Osamu Takeda, Saburo Tanaka(Nihon Univ.)

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**Accounting and Grant :** Masaki Kubo, Osamu Takeda, Hidekazu Kobatake

**Session Programing:** Eita Shoji, Osamu Takeda, OS Organizers

**Awards:** Hiroyuki Fukuyama, Masayoshi Adachi, Sakiko Kawanishi

**IOC Meeting, IJT:** Hiroyuki Fukuyama

**Plenary, Keynote, Invited Speakers:** Hiroyuki Fukuyama, Atsuki Komiya

**Opening Ceremony, OS12:** Hiroyuki Fukuyama, Makoto Ohtsuka, Sohei Sukenaga, Masayoshi Adachi, Sakiko Kawanishi, Hiroyuki Shibata, Miwa Sasaki

**Closing Ceremony:** Hiroyuki Fukuyama, Atsuki Komiya

**IOC Meeting and Evening on Sep26:** Hiroyuki Fukuyama

**Management of Students :** Masayoshi Adachi, Sohei Sukenaga

**Program & Abstract book:** Atsuki Komiya, Yuki Kanda(Tohoku Univ.)

**Special Issues:** HTHP Hidekazu Kobatake, Sohei Sukenaga, IJT: Naoya Sakoda (Kyushu Univ.), Qin-Yi Li (Kyushu Univ.)

**Poster and Presentation Awards:** Satoru Momoki(Nagasaki Univ.), Atsuki Komiya

**Secretariat:** Miwa Sasaki(Tohoku Univ.)

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# **The 13<sup>th</sup> Asian Thermophysical Properties Conference**

**September 26 – 30, 2022, Online, JAPAN**

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**Thank you all from Sendai  
&  
See you again in  
Venice (ECTP2023),  
Boulder (STP2024), and  
Shanghai (ATPC2025) !**