# ANNOUNCEMENT AND CALL FOR PAPERS

The 9th Asian Symposium on Computational Heat Transfer and Fluid Flow-2023

(ASCHT2023)

December 4-6, 2023

Thuwal, Saudi Arabia

Conference Website: https://ctpl.kaust.edu.sa/conference/home

Email: ascht2023@outlook.com

Organized by: King Abdullah University of Science and Technology

**Background**

The first Asian Symposium on Computational Heat Transfer and Fluid Flow (ASCHT) was organized in Xi'an, China, in 2007 with the intention of encouraging scientific and technical cooperation and exchange among Asian countries. The forum is held every two years and is widely recognized as the premier and main international forum to activate not only the scientific and technical communication but also to promote the friendship of members. The ASCHT2023 will be held by King Abdullah University of Science and Technology in Thuwal in the end of 2023. This symposium is the ninth in this series of highly successful conferences started in Xi'an, China (2007), Jeju, Korea (2009), Kyoto, Japan (2011), Hong Kong, China (2013), Busan, Korea (2015), Chennai, India (2017), Tokyo, Japan (2019) and Qingdao, China (2021).

This conference aims to provide a common forum for presentation, exchange of new ideas and creation of knowledge in recent advances on various aspects of theories, analyses, and applications of computational methods among the scientists and engineers from Asia as well as other parts of the globe, who work on algorithms and applications in theoretical and engineering fluid and thermal science. The program includes invited keynote lectures by distinguished experts across the world. There will be a few plenary sessions and a large number of parallel technical sessions spread over the conference period. It will bring together researchers and practitioners from academia, research institutions, and industry to exchange experiences, disseminate up-

to-date information, and explore new opportunities in the field; in particular, it will expose young and new researchers to the state of the art of the field by means of the conferences. It is anticipated that the 9th Asian Symposium on Computational Heat Transfer and Fluid Flow-2023 (ASCHT2023) will provide an opportunity for stimulation of the researchers and further cooperation among the investigators in the field of thermo-fluid science and engineering.

**Call for papers**

Original papers that deal with all aspects of CFD and experiments, either qualitative and/or quantitative in nature, are solicited. Topics include but are not limited to:

- Computational heat transfer and fluid dynamics
- Computational multi-component and multiphase flow
- Computer simulations for reducing $CO_2$ emission
- Computer simulations of reacting flows
- Flow and heat transfer control
- Heat exchangers
- Industrial heat transfer
- Multiscale modeling and discrete event simulation
- Non-Newtonian flow modeling
- Numerical micro/nanofluid dynamics and heat transfer
- Numerical bio-fluid dynamics and heat transfer
- Numerical methods in multiscale and multi-physics modeling
- Numerical methods in radiative heat transfer
- Uncertainty analysis and experimental validation
- Parameter estimation and inverse problems
- Surrogate modeling and optimization
- Heat and mass transfer in porous media
- Micro and nanoscale heat transfer

Selected papers and presentations will be awarded with ***Best Paper and Presentation***

*Award*. Also, selected papers from ASCHT2023 will be further reviewed and published in special issues of SCI(ESCI)-indexed decent journals, including*:*

1. Applied Thermal Engineering, SCI, IF=6.465, JCR Q1
Special topic: Special Issue for the 9th Asian Symposium on Computational Heat Transfer and Fluid Flow (ASCHT2023)
Submissions open on 1 August 2023
Submission close on 1 February 2024
Note: Only the recommended conference papers (with a recommendation letter from the organizing committee) can be considered.

2. Gas Science and Engineering (the rebranded journal of Journal of Natural Gas Science and Engineering), SCI, IF=5.285, JCR Q1
Special topic: AI technology in the transition from natural gas to the next-generation energy development
Submissions open on 15 March 2023
Submissions close on 15 September 2023
Website: https://www.sciencedirect.com/journal/gas-science-and-engineering/about/call-for-papers
Note: Please select the article type of "VSI: AI in energy transition" when submitting your manuscript online.

3. Membranes, SCI, IF=4.562, JCR Q1
Special topic: Membrane Development for Energy Conversion
Deadline for manuscript submissions: 15 September 2023
Website: https://www.mdpi.com/journal/membranes/special_issues/PO71LC0586

4. Computational Geosciences, SCI, IF=2.948, JCRQ3
Special topic: Recent Advances in Numerical Modeling and Simulation Of Fluid Flow and Heat Transfer in Porous Media
Website: https://www.springer.com/journal/10596
Note: Please select the article type of "VSI: Fluid Flow and Heat Transfer in Porous Media" when submitting your manuscript online.

5. Advances in Geo-Energy Research, ESCI, CiteScore= 11.2
Special topic: Recent Advances in Computational Heat Transfer and Fluid Flow
Submissions close on 15 January 2024
Website: https://www.yandy-ager.com/index.php/index

**Submission**

Papers will be selected based on two-page abstracts (A4, single space, Times New

Roman letters of 10 font size), including results and figures. Papers submitted should include the title of the paper, authors' names and affiliations, a concise statement of the problem, method of approach, results and discussion, and conclusions. Please identify the corresponding author and representing author. Electronic submissions are strongly encouraged. The template is available from the symposium website (https://ctpl.kaust.edu.sa/conference/home). Please submit your abstract in a Word or PDF format to the ASCHT2023 Secretariat via ASCHT2023 website (online submission) or e-mail to the conference mailbox (ascht2023@outlook.com). The file size is limited to 5 MB.

If the abstract is accepted, a notification email will be sent to the corresponding author and inviting full paper submission, which is mandatory for journal paper selection.

Please note, the authors must mention their conference paper ID, which will be notified via email, in the cover letter when submitting to the special issues.

**Important dates**

| Start of two-page extended abstract | March 15th, 2023 |
|---|---|
| Deadline of abstract | July 30th, 2023 |
| Notification of acceptance: | As soon as possible, but before August 15th, 2023 |
| Start of full paper submission: | August 1st, 2023 (mandatory for journal paper selection) |
| Final notice of acceptance: | October 15th, 2023 (mandatory for journal paper selection) |
| Final paper submission: | November 1st, 2023 (mandatory for journal paper selection) |

**Conference venue**

Bay La Sun Hotel

7682 Hijaz Boulevard Bay La Sun District

King Abdullah Economic City 23964 - 2609

Kingdom of Saudi Arabia Jeddah 11492 (https://www.baylasunhotel.com )

**Registration fees**

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| Early Registration | (by September 30th, 2023) | US$ 550, or 3950 人民币 |
|---|---|---|
| Standard Registration (Online) | (after September 30th, 2023) | US$ 600, or 4300 人民币 |
| Standard Registration (On Desk) | (December 4-6, 2023) | US$ 650, or 4650 人民币 |
| Early Student Registration | (by September 30th, 2023) | US$ 300, or 2150 人民币 |
| Student Registration (Online) | (after September 30th, 2023) | US$ 350, or 2500 人民币 |
| Student Registration (On Desk) | (December 4-6, 2023) | US$ 380, or 2750 人民币 |
| Spouse (Partner) Registration | | US$ 150, or 1100 人民币 |

Payment Methods:

大陆地区注册 (直接人民币转账，请在转账说明中附上"ASCHT23+文章编号"):

青岛青果会务服务有限公司

账户：532911124510101

开户行：招商银行股份有限公司青岛经济技术开发区支行

税号：91370211MA3WJEJC24

会务公司地址：山东省青岛市黄岛区长江西路 155 号康大财富中心 905 室

For International Bank Transfer（in US Dollars, please mention the "ASCHT23+Paper ID" in the bank transfer note）：

Name：Qingdao Qingguo Conference Service Co. Ltd

Bank Name：CHINA MERCHANTS BANK, H.O. SHENZHEN, CHINA

Branch Address：CHINA MERCHANTS BANK TOWER NO.7088, SHENNAN BOULEVARD, SHENZHEN, CHINA.

SWIFTCODE SWIFT：CMBCCNBS

Account number：532911124532999

Address of the account holder: Room 905, Kangda Fortune Center, 155 Changjiangxi Road, Huangdao District, Qingdao City, Shandong Province, China

<u>After Payment, please send a copy of your bank transfer record to the conference mailbox, together with the paper and author information corresponding to the registration.</u>

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**Visa Tips**

Guests from many countries can enter Saudi Arabia with an e-Visa now. For more information, please visit: https://visa.visitsaudi.com/


**Travel Tips**

International guests are suggested to fly to the Jeddah King Abdulaziz International Airport (google map link), and then take a taxi to Bay La Sun hotel (google map link) in King Abdullah Economic City, in the north-west of Jeddah and near KAUST. The taxi may take about 75 minutes from the airport to the Bay La Sun hotel.


**Accommodation Tips**

Conference attendees are highly recommended to stay in the conference venue, Bay La Sun Hotel, as the taxi and public transport services may not be so benefit in King Abdullah Economic City now. **Registered conference attendees can have a discount in booking the rooms in Bay La Sun hotel.** The special link will be sent to you via email after you submitting the registration fee transfer record.

**Please note, the special discount in Bay La Sun hotel room rates will only be available before October 4th, 2023. Post October 04th, rooms and rates are subject to availability.**

Special room rates:
1. Deluxe Room, 700 SAR (187.67 US Dollars) per night + 15% VAT, one breakfast included.
2. Superior Room, 800 SAR (213.33 US Dollars) per night + 15% VAT, one breakfast included.

**Please note, the above rates are for single occupancy in one room. Additional person in one room will be charged SR 100 (26.67US Dollars) more per room per night (with one more breakfast). For more details, please visit the room reservation link that will be sent to you via email after you submitting the registration fee transfer record.**

**King Abdullah University of Science and Technology**

King Abdullah University of Science and Technology (KAUST) is a private research university located in Thuwal, Saudi Arabia. Founded in 2009, the university provides research and graduate training programs in English as the official language of instruction. In 2013, the university was among the 500 fastest growing research and citation records in the world. In the 2016 Nature Index Rising Stars, the university ranked 19th in the world of the fastest rising universities for high quality research output. In 2019 KAUST is ranked 8th fastest rising young universities (aged 50 and under) for their research output since 2015, as measured by fractional count (FC).



**Bay La Sun Hotel**

The multiple award-winning Bay La Sun Hotel & Marina brings the spirit of Riviera life to the shores of the Red Sea in the master-planned King Abdullah Economic City (KAEC). With stunning views of the Red Sea, natural lagoon and mangrove, Bay La Sun Hotel & Marina offers its guests an array of exceptional facilities and amenities – as well as enviable location that ensures you can switch off or stay connected as you please.