

The First Announcement of IHTC-17

17th International Heat Transfer Conference (IHTC17)



14 – 18 August 14-18, 2023
www.ihtc17.org

CAPE TOWN INTERNATIONAL CONVENTION CENTRE,
CAPE TOWN, SOUTH AFRICA



Organized by
HEFAT

Under the auspices of
The Assembly for International Heat Transfer Conferences

Supported by the South African Institution of Mechanical
Engineers
International Centre for Heat and Mass Transfer
American Society of Thermal and Fluids Engineers



Mode of the conference

The Assembly of International Heat Transfer Conferences (AIHTC) has decided that the “mode/format” of the conference will be a face-to-face conference in Cape Town. However, it might be changed to a hybrid format for delegates only that cannot travel from countries with Covid or other major force restrictions.”

Scope and background of conference

Heat transfer, a major academic discipline originating from seminal studies of thermal non-equilibrium phenomena, has grown to include the science of transport phenomena for ions, electrons, and chemical species. Thus it deals with essential fundamentals such as energy, materials, food and water, and also with a range of technologies that support modern lifestyles. Heat transfer is now a vitally important field, as scientists and engineers face difficult challenges: the SARS-COV-2 pandemic diffusion, development of cutting-edge technologies for highly efficient energy systems, massive information/communication equipment, high-value-added manufacturing, and comfortable living environments, to name but a few. Due to its enormous scope and impact, heat transfer is often called “thermal science.”

The International Heat Transfer Conference (IHTC), nicknamed the “Heat Transfer Olympics,” is the world’s premier conference for scientists and engineers in the heat and mass transfer research community, who convene every four years to exchange the latest information. Previous conferences have greatly enhanced mutual exchanges of knowledge and experience, and nurtured new and/or interdisciplinary research areas. Future conferences should realize an increasingly important mission: to foster international

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cooperation and facilitate the exchange of ideas among colleagues in order to solve urgent problems and improve peoples' lives in the years ahead.

To pursue these aims, we invite forward-looking scientists, engineers, and researchers from all over the world to attend the Seventeenth International Heat Transfer Conference (IHTC-17) in Cape Town, from 14 – 18 August 2023. In addition to exploring traditional research areas, IHTC-17 also asks an important question (asked already at IHTC15) so that we may better serve society : “What is the role of thermal science in meeting societal challenges?” Clearly, we face major issues such as ensuring sustainable development, healthy ageing, sufficient food for all, and economic growth, and we need to develop scientific and technological solutions. To do this, we should shape our current and future roles more concretely, and start to formulate an interdisciplinary framework for collaboration among colleagues active across a wider range of physical, life, and information sciences. the conference period.

IHTC History

| | | | |
|---|--------------|-------------------------|---------------------------------|
| 1 | 1951 | London Atlantic City | United Kingdom United States |
| 2 | 1961 1962 | Boulder London | United States United Kingdom |
| 3 | 1966 | Chicago | United States |
| 4 | 1970 | Paris | France |
| 5 | 1974 | Tokyo | Japan |
| 6 | 1978 | Toronto | Canada |
| 7 | 1982 | München | Germany |
| 8 | 1986 | San Francisco | United States |
| 9 | 1990 | Jerusalem | Israel |

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|----|------|----------------|----------------|
| 10 | 1994 | Brighton | United Kingdom |
| 11 | 1998 | Kyongju | Korea |
| 12 | 2002 | Grenoble | France |
| 13 | 2006 | Sydney | Australia |
| 14 | 2010 | Washington | United States |
| 15 | 2014 | Kyoto | Japan |
| 16 | 2018 | Beijing | China |
| 17 | 2023 | Cape Town | South Africa |
| 18 | 2026 | Rio de Janeiro | Brazil |

Paper Submission

Abstracts for IHTC-17 should be submitted on-line via the [IHTC-17 web page](#). They will initially be reviewed by the regional International Scientific Committee (ISC) members. Once an abstract has been accepted, the full-length manuscript will be requested by the due date. The full-length manuscripts will then be reviewed by reviewers assigned by the regional ISC members. A copyright transfer form must be submitted with the final manuscript. All papers will be presented in a poster paper format venue with a short oral presentation. Approximately 50 keynote papers will be presented as oral papers. Each accepted manuscript (also keynote papers) must have at least one paid registered author before a paper can be presented and be published in the conference proceedings. The registration fees are published on the conference website, and it should be noted that the fees for face-to-face participation and online participation, when applicable, will be the same.

Important Dates

Abstract submission: 15 October 2022
 Notification of abstract acceptance: 31 October 2022
 Full paper submission: 31 December 2022

Notification of full paper acceptance: 30 April 2023
 Submission of final manuscript: 31 May 2023
 Author registration due: 31 May 2023 (for papers to be included in the proceedings)

IHTC Digital Library (IDL)

The AIHTC and Begell House have agreed to establish the IHTC Digital Library (IDL). The IDL is an online archival library which features an interactive web interface and an advanced search engine. The library includes all past and future Proceedings of the International Heat Transfer Conferences under the auspices of the AIHTC. All the papers presented at IHTC-17 will be uploaded into the library after the conference.

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The First Announcement of IHTC-17

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