

## The Third Announcement of IHTC-17

### 17th International Heat Transfer Conference (IHTC17)



14 – 18 August 14-18, 2023  
[www.ihtc17.org](http://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 cooperation and facilitate the exchange of ideas

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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 poses the 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

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.

### South African Advisory Committee

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Dombrovsky

### Secretariat

Prof Jat du Toit  
North-West University  
Email: [jat.dutoit@nwu.ac.za](mailto:jat.dutoit@nwu.ac.za)

### Conference Chair

Prof Josua Meyer  
Stellenbosch University  
Email: [josua7meyer@gmail.com](mailto:josua7meyer@gmail.com)