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www.iitk.ac.in/ihpc17

Welcome to 17th IHPC

International Heat Pipe Conferences (IHPC) series started in the year 1973, at Stuttgart, Germany, with specific focus on topics related to science, technology and applications of heat pipes, thermosyphons and related passive phase-change heat transfer devices/systems. The last forty years have seen phenomenal technological growth and market penetration of heat pipe systems. The past 16 uninterrupted IHPC editions have diligently reflected this extraordinary progress. Today IHP conferences are the established primary knowledge repository of this art.

Commemorating forty years of successful organization of the International Heat Pipe Conference series, the 17th jubilee edition will be held in the campus of Indian Institute of Technology Kanpur, Kanpur (UP), India, during October 13 to 17, 2013. The conference is being organized by the Department of Mechanical Engineering, Indian Institute of Technology Kanpur, under the coordination of the Committee on International Heat Pipe Conferences and the local/national organization and advisory committees. The aim of the conference is to bring together experts, students, practicing engineers and industry representatives from across the world on a common platform to share state-of-the-art information, experiences and latest developments on the science and technology of all kinds of heat pipes and passive phase-change devices and thermal systems.

Welcome to the campus of Indian Institute of Technology Kanpur, Kanpur, India, to participate in the jubilee conference.



History of IHPC

| | LOCATION | YEAR |
|--|-----------------------|-------------|
| 1st IHPC | Stuttgart, Germany | 1973 |
| 2nd IHPC | Bologna, Italy | 1976 |
| 3rd IHPC | Palo Alto, USA | 1978 |
| 4th IHPC | London, UK | 1981 |
| 5th IHPC | Tsukuba, Japan | 1984 |
| 6th IHPC | Grenoble, France | 1987 |
| 7th IHPC | Minsk, Belarus | 1990 |
| 8th IHPC | Beijing, China | 1992 |
| 9th IHPC | Albuquerque, USA | 1995 |
| 10th IHPC | Stuttgart, Germany | 1997 |
| 11th IHPC | Tokyo, Japan | 1999 |
| 12th IHPC | Moscow, Russia | 2002 |
| 13th IHPC | Shanghai, China | 2004 |
| 14th IHPC | Florianopolis, Brazil | 2007 |
| 15th IHPC | Clemson, USA | 2010 |
| 16th IHPC | Lyon, France | 2012 |
| 17th IHPC at Kanpur, India in 2013 Celebrating the Jubilee: 40 years of the series. | | |

Organizing Committees

Patron

Prof. Dr. Indranil Manna, Director, IIT Kanpur

Local Organization Committee (IIT Kanpur)

Prof. A. K. Chaturvedi, Dean, Research and Development

Prof. P. M. Dixit, Head, Department of Mechanical Engineering

Prof. Dr. K. Balani, Department of Materials Science and Engineering

Prof. Dr. P. S. Ghoshdastidar, Department of Mechanical Engineering

Prof. Dr. Y. Joshi, Department of Chemical Engineering

Prof. Dr. P. M. Munshi, Department of Mechanical Engineering

Prof. Dr. K. Muralidhar, Department of Mechanical Engineering

Prof. Dr. P. K. Panigrahi, Department of Mechanical Engineering

Prof. Dr. A. K. Saha, Department of Mechanical Engineering

Conference Convener

Prof. Dr. Sameer Khandekar, Department of Mechanical Engineering

Indian National Advisory Committee

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Dr. J. K. Bajpai, IRDE, Dehradun

Prof. Dr. P. K. Das, IIT Kharagpur, Kharagpur

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Prof. Dr. M. Pandey, IIT Guwahati, Guwahati

Prof. Dr. B. C. Pillai, Karunya University, Coimbatore

Mr. S. G. Markandeya, BARC, Mumbai

Committee on International Heat Pipe Conferences

Honorary Chairman

Prof. Dr. M. Groll, Stuttgart, Germany

Chairman

Prof. Dr. Yu. Maydanik, Ekaterinburg, Russia

Members

Prof. Dr. J. Bonjour, Lyon, France

Prof. Dr. J. H. Boo, Seoul, Korea

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Prof. Dr. M. Katsuta, Tokyo, Japan

Prof. Dr. S. Khandekar, Kanpur, India

Prof. Dr. M. Mantelli, Florianopolis, Brazil

Prof. Dr. J. M. Ochterbeck, Clemson, USA

Prof. Dr. W. Qu, Beijing, China

Prof. Dr. P. Stephan, Darmstadt, Germany

Mr. W. Supper, Noordwijk, The Netherlands

Prof. Dr. L. L. Vasiliev, Minsk, Belarus

Conference Details

Language

The official language of the 17th IHPC is English; all conference related activities will be carried out in English.

Topics

The conference topics include, but are not limited to:

- Fundamental studies on thermal and fluid-dynamic phenomena associated with passive heat pipes and closed two-phase thermosyphons, CPLs, LHPs, oscillating heat pipes, mini/micro heat pipes, etc.
- Theoretical and experimental studies on thermosyphons and heat pipes including CPL, LHP, oscillating heat pipes, mini/micro-heat pipes, etc.
- Heat pipe and thermosyphon application in various industries, including passive heat removal, heat pipe heat exchangers, heat regenerators, vapor generators, renewable and new energy systems, etc.
- Microelectronics and power electronics thermal control applications.
- Aerospace applications of heat pipes, including spacecraft thermal control, space power systems, space experiments and high speed aircraft applications
- Applications in manufacturing process and material processing, including new developments of wicks, fluids, materials, modeling of corrosion and life tests.
- State-of-art of heat pipe development in different countries and different fields and new ideas of heat pipe development.

Important dates/deadlines

Stage #1

- November 15, 2012: Online submission of Preliminary Paper (2 pages) commences
- March 30, 2013: Preliminary Paper submission deadline
- April 15, 2013: Acceptance notification for Preliminary Paper

Stage #2

- April 16, 2013: Full paper submission commences/ Early-Bird registration starts
- May 15, 2013: Preliminary program will be announced
- July 31, 2013: Full paper submission deadline
- August 15, 2013: Conference registration closes
- October 13, 2013: Conference begins

Stage #3

- The schedule for post conference activity will be announced later.

Official Conference Website

www.iitk.ac.in/ihpc17

Sessions and Keynote Lectures



About 100 papers will be presented during the conference (approximately 50% orally and 50% through poster media). Several keynote lectures are planned. No parallel sessions will be held.

Awards and Honors

Several awards will be given during the conference banquet

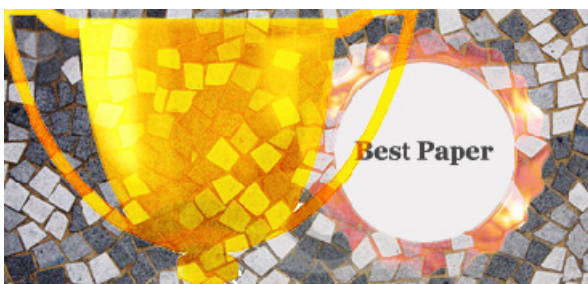
George Grover Medal



The Committee on International Heat Pipe Conferences has established the George Grover Medal to honor individuals for their outstanding contributions to the development of Heat Pipe Science and Technology. The medal is named in honor of Dr. George Grover, who, with his first external publication in 1963 on heat pipes, laid the foundation for all heat pipe research and

development. The award was given for the first time at the 14th IHPC in Florianopolis, Brazil. This award is given in two categories: Young Scientist Award (recognizing promising young individuals typically working in the field less than 10 years) and Distinguished Scientist Award (recognizing significant and sustained contributions in the field).

Donald M. Ernst Award



This Best Papers Award category was established in memory of Donald M. Ernst by his friends and colleagues to honor his achievements in the fields of Heat Pipe research, product development and commercialization. It was given for the first time at the 16th IHPC in Lyon. The selection will be done by the International Heat Pipe Conference

Committee from amongst the papers presented during the conference. The award includes a cash prize and a certificate. The award is given in two categories: (i) for fundamental research and, (ii) for technical/technology applications.

Venue/Accommodation

Venue

The venue of the conference is the campus of [Indian Institute of Technology Kanpur](#), Kanpur, India. Lectures/ Presentations/ sessions will be held in the Outreach Auditorium Complex located inside the campus.

Lodging and boarding

All registered participants will stay together in the [Institute Guest House](#) (Standard double bedded comfortable AC Rooms) on a shared basis, at nominal cost, during the conference. Sharing preferences may be indicated during the online registration process.

Depending on the availability of rooms against the demand, student participants may be accommodated in post-graduate hostels of the institute. Dining for all five days will be arranged in the lawns of the guest house complex. For logistical reasons, the organizers do not suggest any participant to stay outside the institute campus during the conference.



Main Library, IIT Kanpur



Institute Guest House

Call for papers

Original research articles broadly within the scope of the conference topics, written in English language, are solicited. Authors will have to sign a declaration of originality at the time of final submission.

Pre-Conference manuscript submission activity:

Stage #1: Preliminary Paper (Extended Abstract) Submission

At this stage authors should submit a Preliminary Paper (maximum two pages long), using the template provided for it. This Preliminary paper will be reviewed by the committee on International Heat Pipe Conferences. The scope and significance of the subject, originality, quality of the contents and preliminary results (if any) etc. will be the parameters based on which the organizing committee will recommend this preliminary submission for Stage #2: Full Paper Submission. The committee will also decide the format of presentation of the Full Paper (oral presentation or poster presentation). Specific recommendations/decision of the committee will be communicated to the corresponding author. Online Conference Registration will commence immediately after Stage #1 acceptance notification. It is expected that at least one author will register for the conference.

Online submission portal for Stage #1 has opened on November 15, 2012. The template for Preliminary Paper Submission is also available. Please check the website.

Stage #2: Full Paper Submission

Once the notification of acceptance of the Preliminary Paper (Stage #1) is received by the authors, they authors can submit the Full Paper (maximum six pages), using the template for it. After this submission stage there will be no review of the paper till the conference is over. The authors will directly present their work at the conference as per the format recommended by the committee in Stage#1 review (oral presentation or poster presentation). Pre-prints of all manuscripts received after Stage #2 will be provided in electronic format at the time of the conference.

Post-conference manuscript submission activity:

Stage #3: FINAL PAPER SUBMISSION (for Conference Proceedings)

After the conference is over, a second review will be carried out by the Committee, only for the papers presented by the authors at the conference (either orally or through a poster). Specific recommendations/ comments, if any, will be communicated to the authors to improve their respective manuscripts and resubmit them. Thereafter, the hard-copy version of the FINAL CONFERENCE PROCEEDINGS will be published.

Registration

How to register

Kindly note that the conference does not support 'on-spot' registration format. All participants must register before the conference, following the schedule of registration, as indicated below. Please do not start your journey if you do not have a confirmation of your registration from the IHPC secretariat. This is important as in-campus accommodation is limited and 'on-spot' arrangement will be impossible.

Online Registration Process (Three quick forms, as noted below)

- (i) [Click here to begin Online Registration for Participants.](#)
- (ii) [Click here to begin Online Registration for Accompanying Persons, if applicable.](#)
- (iii) Once you have done the online bank transfer of the registration fees ([How to pay?](#)), then please [click here to provide bank transaction details.](#)

Registration fee structure

- All Costs are per person. All taxes are included. No additional charges.
- Secure Online Transaction can only be done in INR; Use 1 USD = 55 INR.

(A) Registration fees (Regular Participant - Full payment)

| Item | Early Bird Registration | Late Registration |
|--|------------------------------|-------------------------------|
| | April 16, 2013-June 30, 2013 | July 01, 2013-August 15, 2013 |
| Registration fees * | USD 520 | Add USD 75 |
| Accommodation ** | USD 680 | Add USD 75 |
| ADD ON CHARGES (flat rates for to and/or fro journey) | | |
| Pick up and drop to/from Lucknow Airport (preferred) or Kanpur Airport/Railway Station | USD 70 | |

(B) Student participants (ID proof required) and Accompanying persons[#]

| Item | Early Bird Registration | Late Registration |
|---|------------------------------|-------------------------------|
| | April 16, 2013-June 30, 2013 | July 01, 2013-August 15, 2013 |
| Registration fees # | USD 400 | Add USD 35 |
| Accommodation ** | USD 400 | Add USD 35 |
| ADD ON CHARGES (flat rates for to and/or fro journey) | | |
| Pick up and drop to/from Lucknow Airport (preferred) or Kanpur Airport/ Railway Station | USD 70 | |

- All authors and co-authors are expected to register as 'Regular - Full Payment' participants, unless they are students and have a valid student ID/Certificate.
- Participants from industry, private and governmental research and development laboratories, independent consultants and technical managers, etc. are also expected to register as 'Regular - Full Payment' participants
- Authors/ Co-authors cannot be treated as 'Accompanying persons'.

*** Registration fees for regular participants/ student participants includes:**

- Entry to all technical sessions, Poster Sessions, Display Arena
- Registration kit including conference souvenir/gift
- Conference pre-prints on digital media
- Welcome Reception and Conference Banquet
- Grover Medal Ceremony
- Cultural Program
- Conference Proceedings in hard copy, to be sent by postal mail after the conference.
- Campus tour
- All Tea/Coffee/ Snack breaks

Registration fees for accompanying persons includes:

- Souvenir/gift for accompanying persons
- Special events and tour for accompanying persons
- Welcome Reception and Conference Banquet
- *Grover Medal Ceremony*
- Cultural Program
- All Tea/Coffee/ Snack breaks

**** Accommodation for all participants includes:**

- Lodging/ Boarding (Twin Shared AC Double Rooms in Institute Guest House)
- All days of the conference, including one extra night free (Arrival: 13th October 2013, Departure 18th October, 2013)
- In case you want to stay for any one night/ two days OR two nights/ three days of the conference, you need to pay a minimum of USD400. For longer stays than two nights/three days, full payment should be paid.
- Buffet Breakfast (05), Lunch (06), Dinner (05, including Banquet)
- Packaged mineral water on demand
- Free Internet WiFi
- Currency Exchange/ Banking Services/ Travel agency Services available, as per the requirement

How to pay?

(A) International Bank Transfer

Payments can be made through International Bank Transfer as per the following details:

| | |
|-------------------------------|--|
| Name of Bank | State Bank of India |
| Branch Name | IIT Kanpur, India |
| IFSC Code | SBIN0001161 |
| MICR Code | 208002041 |
| SWIFT Code | SBININBB499 |
| Name of the Account | IHPC-17 |
| Account number | 00000032683190857 |
| Type of Account | Current Account |
| Name of the Account Holder | Dr. Sameer Khandekar (authorized to operate by Director, IIT Kanpur) |
| Address of the Account Holder | Associate Professor Department of Mechanical Engineering Indian Institute of Technology Kanpur Kanpur (UP), 208016, INDIA |

(B) Secure Online Payment Gateway by Credit cards

- Kindly note that Online Transactions can only be accepted in INR.
- Use present conversion rate of 1 USD = 55 INR for online transaction.
- Click here for the [Secure Online Payment Gateway](#)

Travel/Tours Tips

Travel: How to reach Kanpur

Kanpur, a major city of the state of Uttar Pradesh, situated in the Gangetic plain, is well-connected by rail, road and air to all the parts of the country ([See Map](#)).

Air travel: The nearest airport is Amusi International Airport, Lucknow, about 75 kms from the IITK campus (about 2.5 hrs drive). Taxi-pickup-drop will be arranged at Lucknow. For international participants, this service is included in the registration fee. For Indian participants, it can be booked on request, at additional cost.

All international participants are advised to travel by air till Lucknow. They can arrive at Lucknow, preferably via Indira Gandhi International Airport, Delhi (flight time 1 hour). Direct flights to Lucknow airport are also available from Mumbai (Bombay), Kolkata (Calcutta), Chennai (Madras) and Hyderabad.

Several airlines are presently operating in the inland sector (Delhi-Lucknow or Bombay-Lucknow etc.): Air India, Jet Airways, Jet Connect, Spice Jet, Indigo.

Rail travel: The railway station is at a distance of about 15 km from the IITK campus. Public transport regular auto-rickshaw (about Rs. 160) and taxi service (about Rs. 250) from the station are available. Interested participants are advised to make railway reservation well in advance.

Weather at Kanpur

The weather at Kanpur in October is expected to be pleasant. Day-time temperatures are expected to range from 26-30°C. The night temperatures may be between 18-22°C.

Pre-/Post- Conference Tours

To help you plan your trip to India, please find below some suggestions for Pre-/Post conference tours, along with budgetary details. The suggested travel agent, M/s Pearl International Tours and Travels Pvt. Ltd. has an office inside the campus of IIT Kanpur to serve the community on standard commercial terms and conditions.

You are kindly advised to directly contact the travel agent for more details as well as for booking the trips, as per your choice and convenience. You may like to choose some other company also, based on your choice or preference. All payments/charges/costs associated with Pre-/Post Conference tours are to be directly settled between you and the travel agent. On request, the travel agent will provide details for fund transfer. In your communication, please indicate to the travel agent that you are a participant of 17IHPC at IIT Kanpur.

Note: The organizing committee of 17IHPC is not responsible for any commercial dealings which you make with the suggested travel agent/ any other agent. The suggested travel agent is not responsible for conference registration process and/or accommodation charges during the conference period. All 17IHPC related official financial transactions are completely independent to the business which you undertake with the suggested travel agent.

Suggested Pre-Conference Tours (Click for details)

1. [Delhi - Agra - Kanpur](#)
2. [Delhi - Jaipur - Kanpur](#)
3. [Delhi - Varanasi - Khajuraho - Kanpur](#)

Suggested Post-Conference Tours (Click for details)

1. [Kanpur - Agra - Delhi](#)
2. [Kanpur - Agra - Jaipur - Delhi](#)
3. [Kanpur - Khajuraho - Varanasi - Delhi](#)



[Please click here](#) to get more information through the official website of India Tourism.

Social/ Cultural program

We plan to organize vibrant and colorful evening programs, showcasing Indian culture, music and performing arts. There will be a special program and activity schedule for the accompanying persons. More information soon!



Contact Us

Conference Convener

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