

CSME TC on Heat Transfer

Chair: Sunny Li, UBC-Okanagan

Co-Chair: TBD

Immediate Past-Chair: Dominic Groulx, Dalhousie Univ.

Committee Mandate/scope:

- ✓ To promote the Heat Transfer technical committee.
- ✓ To attend and participate in the annual meetings of the CSME.
- ✓ To maintain the TC webpage(s).
- ✓ To organize and promote a Symposium on Heat Transfer (SHT) annually at the CSME International Forum.
- ✓ To review papers submitted to the SHT - CSME International Forum.
- ✓ To organize and chair session(s) for the SHT - CSME International Forum.
- ✓ To explore the possibility of having CSME sponsored Heat Transfer related conferences.
- ✓ To promote advancements in the field of heat transfer by theoretical, numerical and experimental research and its engineering applications.
- ✓ To communicate with the Canadian heat transfer community regarding various issues pertaining to it, assist in the discussions, provide information important to it and promote increased community-wide communication.
- ✓ To be a link between the academic community and both industry and government (funding agencies).
- ✓ To select Canadian representatives for international organization, notably the Assembly for the International Heat Transfer Conference (AIHTC) and the International Center for Heat and Mass Transfer (ICHMT) – and coordinate with the Canadian Society for Chemical Engineering (CSCHE) when necessary. See Appendix A for specific rules and details concerning AIHTC and ICHMT.

Keywords: boiling, condensation, conduction, convection, heat exchanger, melting, phase change, solidification, thermal design, thermal engineering, radiation.

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Appendix A

AIHTC:

Procedures as it related to the Assembly for the International Heat Transfer Conference (AIHTC).

The CSME is the National Organization selecting the Canadian Delegates to sit on the Assembly. As such, the Heat Transfer TC, through the chair, will ensure that two delegates are officially selected and recognized by the AIHTC. Since the International Heat Transfer Conference (IHTC) is held only every 4 years, no term duration is imposed on the delegates (unless a delegate is not fulfilling his or her duties). Delegates should also be members of CSME.

The delegates will then have the following responsibilities:

- ✓ Participate, in person, in the AIHTC meetings. There is one meeting every two years (every 4 years at the IHTC, and in between during another thermal conference). Most of those meetings are therefore happening at international destination, so the delegate must be aware and ready to travel for participation using their own funding;
- ✓ Report to the Heat Transfer TC chair after each of the meeting of the AIHTC;
- ✓ Participate in occasional votes and other inquiries from the AIHTC through emails;
- ✓ Every 4 years, act as editors for the IHTC; this implies running the review process and selection of Canadian papers submitted for presentation to the IHTC.

ICHMT:

Procedures as it related to the International Center for Heat and Mass Transfer (ICHMT).

The CSME is one of the two National Member Institutions selecting the Canadian Delegates for ICHMT; the other member institution is the Canadian Society for Chemical Engineering (CSCHE). As such, the Heat Transfer TC, through the chair, will ensure that one delegate is officially selected and recognized by the ICHMT. Since ICHMT is only meeting every 2 to 4 years, no term duration is imposed on the delegate (unless the delegate is not fulfilling his or her duties). The delegate should also be a member of CSME.

The delegates will then have the following responsibilities:

- ✓ Participate, in person, to the ICHMT meetings. There is one meeting 4 years at the IHTC, and sometimes in between during another thermal conference. Most of those meetings are therefore happening at international destination, so the delegate must be aware and ready to travel for participation using their own funding;
- ✓ Report to the Heat Transfer TC chair after each of the ICHMT meeting;
- ✓ Participate in occasional votes and other inquiries from the ICHMT through emails;
- ✓ Organize, or support the organization, of ICHMT sponsored (or co-sponsored) conferences.

The CSCHE has also come to an agreement with the CSME. When they are unable to find a chemical engineering member interested and willing to be their Canadian Delegate, they will ask CSME, through the TC chair, to provide a name of a willing mechanical engineer CSME member. The CSCHE will therefore nominate this CSME member for a term of 4 years (renewable).