

# Cryogenic Heat and Mass Transfer

4<sup>th</sup> - 5<sup>th</sup> November 2019

<http://www.utwente.nl/chmt>

**Srinivas Vanapalli**  
Conference Chair

Heat and mass transfer phenomena is important in the design of devices and systems dealing with the cryogenic temperature range. The aim of the 2-day international conference CHMT 2019 is to bring together physicists and engineers working on cryogenic heat and mass transfer in a broad sense: covering theoretical, experimental, and industrial perspectives.

## Program

Sunday, 3<sup>rd</sup> November  
Welcome reception

Monday, 4<sup>th</sup> November  
focus on cryogenic fluids

Tuesday, 5<sup>th</sup> November  
focus on applications

Evening lecture:

Benoit Dugue  
(University of Poitiers)

Cryotherapy

## Keynote

- Michiel van Limbeek**, *University of Twente*: Impact dynamics of cryogenic droplets  
**Michael Dreyer**, *University of Bremen*: Axial sloshing of liquid hydrogen  
**Huayong Zhao**, *Loughborough university*: LN2 droplet evaporation in liquids  
**Arvind Gangoli Rao**, *TU Delft*: The role of cryogenics in aviation  
**John M. Pfotenhauer**, *University of Wisconsin Madison*: Cryogenic heat pipes  
**Friedhelm Hertog**, *Messer group*: Heat and mass transfer in cryo condensers  
**Hendrie Derking**, *Cryoworld B.V.*: Liquid hydrogen storage: status & future perspectives  
**Ruud van der Woude**, *Demaco*: Rotor cooling system  
**Bart Beulen**, *CryoSol-World*: VitroJet - next generation sample preparation for cryo-EM  
**Sebastian Tacke**, *MPI Dortmund*: Cryogenic workflow in electron microscopy  
**Jean-Pierre Bernard**, *Air Liquide*: Applied cryogenics in lifesciences (cryotherapy)  
**Didier Pathier**, *Air Liquide*: Water losses during food freezing

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