



15th  
IIR-Gustav Lorentzen  
Conference on  
Natural Refrigerants



# The Natural Choice by 2030

## First Announcement and Call for Abstracts

13 - 15 JUNE 2022, TRONDHEIM, NORWAY



Trondheim



The conference is a joint commission meeting of the IIR, organized by SINTEF, The Norwegian University of Science and Technology [NTNU], The Norwegian Society of Refrigeration, and The Norwegian Society of HVAC Engineers, on behalf of the IIR.

# Call for Abstracts

Prospective authors of papers are encouraged to submit 150-200 word abstracts along with title and authors' names. Information about uploading abstract is found on the conference website [www.GL2022.no](http://www.GL2022.no). Accepted abstracts will be invited to submit full papers for review and later final papers.

Papers, abstracts, presentations and discussions will be in English. Papers within the final program will be available electronically at the conference and will later be published by IIR as a conference in series publication, qualifying for academic publication points.

## Deadline for Submission of title and abstract is 15 September 2021

The main objectives of the conference will be to discuss the latest research results and advances related to the use of natural working fluids in different types of systems and application areas. Through the presentation of invited and contributed papers, the conference participants will be introduced to the most recent progress in this important area of technology.

### Topics

Conference sessions are planned, and paper are requested on subjects related to the basic engineering science, design and applications of refrigeration, air-conditioning and heat pump systems, as well as heat-to-power cycles, based on natural working fluids, including:

- **Process, cycle, system and component development with natural refrigerants**
- **Vapor compression systems: NH<sub>3</sub>, hydrocarbons, CO<sub>2</sub> and water**
- **Gas cycles and sorption systems**
- **Heat-to-power systems**
- **Applications**
- **Fundamentals: Properties, lubrication, chemistry**
- **Heat transfer fluids**
- **Heat transfer and heat exchangers, compressors and other components**
- **Energy efficiency, operational experience and economy**
- **Safety with respect to flammable, toxic and high-pressure fluids**

### Scientific Committee

Chair	Petter Nekså, SINTEF
Co-Chair	Armin Hafner, NTNU
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Chair	Trygve M. Eikevik, NTNU
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For more information, see the website:  
[www.GL2022.no](http://www.GL2022.no)

