



# ICHS 2023 A LOOK BACK AT THE INTERNATIONAL CONFERENCE ON HYDROGEN SAFETY

## GENERAL

The tenth International Conference on Hydrogen Security (ICHS 2023) took place in September, from 19 to 21, at the Quebec City Convention Centre in Quebec City, Canada. Presented by the Government of Quebec (<https://www.economie.gouv.qc.ca/>), this major conference was hosted in collaboration with the International Association on Hydrogen Safety (IA HySafe) (<https://hysafe.info/ichs2023/>) and the *Réseau Québécois sur l'Énergie Intelligente* (RQEI).



## OVERVIEW

Hydrogen has become a key component in the transition to cleaner, safer, and more sustainable energy systems. And for years, ICHS has served as a global platform to discuss the safety implications of hydrogen. The conference brings together experts from all over the world every two years to discuss and highlight discoveries, advances, best practices, and regulatory norms in hydrogen safety.



## THE ROLE OF RQEI



As co-organizer, RQEI has rallied a multidisciplinary team of students and technicians from various fields for over a year to coordinate the event. Its participation is first and foremost a reflection of the commitment to promoting smart-energy solutions and safer energy practices. Furthermore, it shows its dedication to encouraging student involvement in large-scale projects to help them secure a foothold in the professional world.

## Data

While the number of scientific papers increases considerably every year, the participation in this tenth edition in Quebec further demonstrates the enthusiastic interest in the subject:

## PAPERS AND PLENARY

- Québec (2023)
  - Papers submitted: 134
    - Plenary: 3
    - Sessions: 29
- Adelaide (previous edition):
  - Papers submitted: 110
    - Plenary: 3
    - Sessions: 24

**GLOBAL SCOPE**

- Quebec City (2023): 315 participants from 22 countries
- Adelaide (previous edition): 275 participants from 22 countries
- Main countries represented (number of delegates) :
  - Canada: 86
  - USA: 48
  - France: 34
  - UK: 28
  - Germany: 21
  - Korea: 20
  - Japan: 10



**KEY TOPICS**

- Safety of hydrogen production and supply chain
- Behavior of hydrogen and its transporters
- Risk management, best practice, and regulation
- Safety implications for energy storage and transport
- Strategies for increasing public awareness and public acceptance of hydrogen.







## ACKNOWLEDGEMENTS

**We would like to express our sincere gratitude:**

1. **To the Government of Quebec, represented by the *Ministère de l'Économie, de l'Innovation et de l'Énergie (MEIE)***: as a presenter of the event, and for their contribution to the dissemination of hydrogen development research.
2. **To IA HySafe**: for their dedication and expertise in hydrogen safety.
3. **To our Sponsors**: for their generous contribution

**RQEI would like to give special mention:**

- Pierre Bénard, event organiser,
- Jessica Rakotoarisoa, organisation coordinator,
- Marie-Ève Marchand-Lamarche, Raphael Gervais-Lavoie, Mathieu Beaudy and Ashkan Makhsoos for their valuable support throughout the event!

And lastly, we are grateful for the team efforts of all the people listed above and the countless others who have helped along the way. Thank you!

Photographer: Frédéric Lavoie, photographe