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# ICDERS 2025

30th International Colloquium on the  
Dynamics of Explosions and Reactive Systems

July 27 - August 1, 2025

University of Ottawa, Ottawa, Canada

<https://icders2025.com>

## Scientific program

The International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS) is the premier international forum for the presentation of scientific contributions in the fields of explosions and unsteady combustion.

### Topics at the conference include:

- Detonations (gaseous, dispersed, condensed)
- Kinetics (chemical, metalized)
- Detonation engines
- Ramjets, scramjets
- Ignition
- Flames
- Turbulent combustion
- Deflagration to detonation transition (DDT)
- Fire dynamics
- Explosions
- Propellant, ballistics
- Battery kinetics and safety
- Low carbon fuels (biofuels)
- Carbon free fuels (metals, hydrogen, ammonia)
- Application of deep/machine learning to reactive systems
- New numerical techniques for high-speed reacting flow computations
- Role of non-equilibrium effects in detonation waves
- Liquid phase detonations
- Diffusive processes in gaseous detonations

## Key dates

Abstract Submission: January 5, 2025

Notification of Acceptance: March 31, 2025

Early registration: May 1, 2025

## Scientific Committee Chair

Prof. Ashwin Chinnayya

ISAE-ENSMA, Institut Pprime

## Site Committee Chair

Prof. Matei I. Radulescu

University of Ottawa

## Contact the organizers

[support@icders2025.com](mailto:support@icders2025.com)

