



# The International Symposium on Rarefied Gas Dynamics

13-17 July 2026

# RGD34

Brisbane, Australia

<https://mechmining.uq.edu.au/rgd34>

## Call for abstracts

The 34th International Symposium on Rarefied Gas Dynamics (RGD34) will be held at the University of Queensland in Brisbane, Australia in July 2026. RGD34 will bring together leading researchers from universities, companies, and national research organisations in the various fields of rarefied gas dynamics research, from space to materials and propulsion applications. The conference will be held from the 13th-17th of July.

We look forward to seeing you in Brisbane in 2026,  
The RGD34 Local Organising Committee

## Important dates

Abstract Submission opens	15 December 2025
Abstract Submission closes	15 February 2026
Notification of Acceptance	15 March 2026
Early Bird Registration Opens	15 March 2026
Early Bird Registration Closes	15 May 2026

## Symposium topics

Boltzmann and related equations	Jets and plumes
Monte Carlo methods and numerical solutions	Internal flows and vacuum systems
Moment methods	Reactive gas dynamics
Experimental methods	Rarefied plasmas
Gas-surface interactions	MEMS and NEMS
Granular flows	Porous media
AI and Machine Learning in RGD	Turbulence and instabilities
Aerospace: high speed flows, shock waves, nozzle expansions, high altitude aerodynamics.	

## Invited speakers



### **The Harold Grad Lecture**

Dr Domenico Giordano

ESA (retired)

"Reflections on my experience with the kinetic theory"



### **The Irving Langmuir Lecture**

Dr Shahid Rauf

Applied Materials, Inc.

"Rarefied Plasmas for Nanofabrication: Modeling, Diagnostics and Applications"

## Brisbane: The host city for RGD34

Brisbane is the capital city of Queensland in Australia and the largest city in South East Queensland. It is a gateway to many nearby attractions such as the beautiful beaches of the Gold Coast, Byron Bay and Australia Zoo.

Winter in Brisbane is characterised by daily temperatures of more than 20 °C (~ 70 °F) dropping to 10 °C (50 °F) overnight. This is great winter weather for being out and about during and after the conference.

UQ's picturesque St Lucia campus houses UQ's Centre for Hypersonics and several major hypersonic test facilities, such as the T4 Stalker Tube and the X2 Expansion Tube, which will be able to be toured during the conference.



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