16TH INTERNATIONAL CONFERENCE ON FRACTURE

MELBOURNE, AUSTRALIA

28 June – 2 July 2027

Structural Integrity for Sustainability & Circular Economy

Welcome to the 'Olympics of Fracture Mechanics' - the quadrennial '*16th International Conference on Fracture (ICF-16)*' to be held in the vibrant city of Melbourne, Australia from 28 June to 2 July 2027, continuing its 60 years of history and tradition.

Founded in 1965, the International Conference on Fracture (ICF) series is organised quadrennially by the premier global organisation - the 'International Congress on Fracture'. ICF has become a global, trademark event devoted to the mechanics of fracture, fatigue, and strength of solids. ICF-16 will facilitate an international forum for researchers, industry practitioners, engineers, and graduate students, to exchange and disseminate recent findings on contemporary topics in structural integrity, fracture mechanics, fatigue theory, damage tolerance, failure analysis, and allied fields.

We are proud to facilitate the organisation of this premier quadrennial international conference at RMIT University in Melbourne, the vibrant cultural hub of Australia.

Prof Raj Das
Chair | RMIT University, Australia
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Scope & History

The objective of the ICF is to foster research on the structural integrity and failure analysis of engineering materials and structures to promote sustainable design and manufacturing.

One key aim of the ICF is to promote international cooperation among scientists and engineers and provide means for the public dissemination of the results. Held every four years, these conferences are intended to cover progress on all aspects of the mechanical behaviour of materials from macro-, meso-, and microscopic viewpoints, including fracture, fatigue theory, and damage mechanics perspectives.

ICFs were previously held as follows:

ICF-1: Sendai (Japan) 1965
ICF-2: Brighton (UK) 1969
ICF-3: Munich (Germany) 1973
ICF-4: Waterloo (Canada) 1977
ICF-5: Cannes (France) 1981
ICF-6: New Delhi (India) 1984
ICF-7: Houston (USA) 1989
ICF-8: Kiev (Ukraine) 1993
ICF-9: Sydney (Australia) 1997
ICF-10: Honolulu (USA) 2001
ICF-11: Torino (Italy) 2005
ICF-12: Ottawa (Canada) 2009
ICF-13: Beijing (China) 2013
ICF-14: Rhodes (Greece) 2017
ICF-15: Atlanta (USA) 2023
ICF-16: Melbourne (Australia) 2027

Main Topics

ICF-16 will cover contemporary topics in structural integrity, fracture mechanics, fatigue theory, damage tolerance, failure analysis, and allied fields, encompassing nano-, micro-, meso-, and macro- mechanics of failure in a wide range of material systems, including metals, composites, polymers, ceramics, concrete, and biomaterials. The application domains incorporate science and engineering disciplines, such as aerospace, biomedical, manufacturing, materials, civil, mechanical, mechatronics, chemistry, physics, and mathematics, including theoretical, computational, and experimental aspects.

Conference Venue

RMIT City Campus
RMIT University, Melbourne City Campus,
336–348 Swanston St, Melbourne, VIC

The venue for ICF-16 will be RMIT University - Melbourne city campus. Storey Hall is a multi-function venue, containing an auditorium, lecture theatres, and seminar rooms. First built as the Hibernian Hall in 1887 and remodelled in 1995, the iconic Storey Hall is both architecturally and historically significant.

deakin.au/ICF16

Call For Papers

We invite you to submit an abstract and subsequently a full paper (optional). The abstracts and full papers will be peer-reviewed by expert reviewers, including members of the National and International Scientific Committees. The abstract submission and registration instructions are on the conference website: **https://deakin.au/ICF16**

Key Dates

Abstract submission due date: 30 Nov 2026

Preliminary program posted: 1 Feb 2027

Deadline for early registration: 15 Apr 2027

ICF-16 in Melbourne, Australia
28 June – 2 July 2027

Location

Melbourne, Australia

Melbourne is the capital of the south-eastern Australian state of Victoria. Melbourne is consistently rated as one of the world's most liveable cities and is internationally recognised as a major hub for education, innovation, and research, commonly hosting leading universities, research institutions and industries. Set on the shores of picturesque Port Phillip Bay, Melbourne is rich in aesthetics, with its beauty enhanced by the meandering Yarra River, immaculate parks and gardens, public art, classical buildings and innovative design. Its multicultural atmosphere, modern infrastructure, strong international connectivity, and renowned tourism appeal will guarantee an unforgettable experience.

visitmelbourne.com/Regions/Melbourne

RMIT University

The Royal Melbourne Institute of Technology (RMIT University), established in 1887, is a leading university in science and engineering. One of Australia's original tertiary institutions, RMIT University enjoys an international reputation for excellence in professional education, fundamental and applied research, and engagement with the industry and the community. RMIT Melbourne City campus is located in the cosmopolitan heart of "one of the world's most liveable cities", and is surrounded by public transport, shops, cafes, theatres, and parks. The campus has been an integral part of Melbourne's character for more than one hundred years.

www.rmit.edu.au

Registration & Fees

All registrations are to be paid in Australian dollars (plus 10% GST).

Early Bird (~Euro 600/USD 700) valid until 15 Apr 2027	**$990**
Standard (~Euro 650/USD 780) after 15 Apr 2027	**$1100**
Early Bird Student (~Euro 370/USD 430) valid until 15 Apr 2027	**$600**
Standard Student (~Euro 400/USD 460) after 15 Apr 2027	**$650**
Accompanying Person (~Euro 120/USD 140)	**$200**

Organising Team

Chair: Prof Raj Das
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Prof. S. Barter	Prof. M. Brandt	Prof. A. Dyskin
Prof. M. Easton	Prof. B. Gludovatz	Dr M. Heitzman
Prof. R. Jones	Dr A. Khanna	Prof. A. Kotousov
Prof. J. Kruzic	Prof. Y.W. Mai	Dr B. Main
Prof. P. Marzocca	Prof. A. Molotnikov	Prof. M. Mostafavi
Prof. C.T. Ng	Dr L. Yin	Prof. A. Paradowska
Prof. E. Pasternak	Prof. M. Qian	Prof. B. Rolfe
Dr F. Rose	Prof. D. Ruan	Dr C. Wallbrink
Prof. C. Wang	Prof. W. Yan	Dr X. Yu

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Support Partners

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