# 11TH INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS & NANOTECHNOLOGY



ŌTAUTAHI CHRISTCHURCH NEW ZEALAND 9-13 FEBRUARY 2025

#### 11TH INTERNATIONAL CONFERENCE ON

## ADVANCED MATERIALS & NANOTECHNOLOGY

CONFERENCE LOCATION:	CHRISTCHURCH, NEW ZEALAND
DATE:	9TH - 13TH FEBRUARY 2025
CONFERENCE WEBSITE:	WWW.AMN11.CO.NZ

On behalf of the MacDiarmid Institue for Advanced Materials and Nanotechnology and the conference organising comittee, we would like to invite you to join us in New Zealand for the 11th biannual conference series on Advanced Materials and Nanotechnology. Since the innaugural conference in Wellington in 2003, the conference has toured the country. Now, AMN11 welcomes you to Christchurch, Ōtautahi. Framed by the snowy Southern Alps to the west and the Pacific to the east, the city is the largest in the South Island and is host to wide open spaces, modern architecture, and heritage buildings.

The AMN conference series is interdisciplinary and covers a broad variety of topics in material science and nanotechnology. It brings together professionals from material science, chemistry, physicis, biology, and engineering, resulting in stimulating discussions that range from fabricating electronic devices to the examination of protien structures.

The conference is set to provide an enriching experience with a lineup of high-impact plenary and keynote presentations, complemented by engaging invited and contributed talks that showcase the latest advancements in diverse fields. The program extends beyond informative sessions to include a spectrum of scientific and social events. Where attendees can anticipate an immersive platform that encourages the exchange of ideas, paving the way for cross-disciplinary collaborations.

We hope you will join us at AMN11 and look forward to meeting you in February 2025.

## **Conference Themes:**

#### **Towards Zero Waste**

Recovering valuable materials from waste

Next-generation sustainable materials

Optimising material use

Preventing microplastics pollution

Reconfigurable systems



#### **Towards Zero Carbon**

Materials for batteries and energy storage systems

Material discovery using machine learning

CO<sub>2</sub> capture and conversion

Hydrogen production

Photovoltaic devices



### Advanced Characterisation Techniques

Data analysis and computational techniques

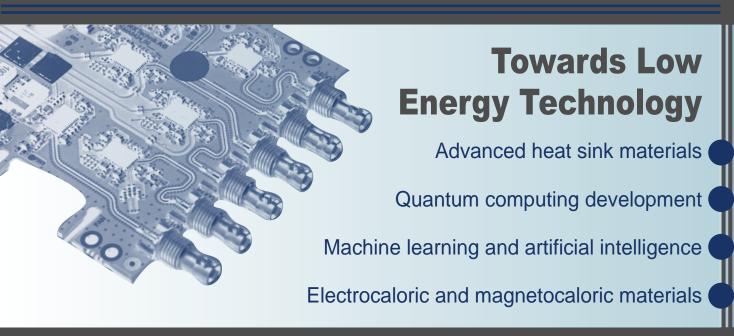
In-situ and operando techniques

Spectroscopy and spectrometry

Structural analysis techniques



## **Conference Themes:**



#### **Sustainable Resource Use**

Advanced materials for waste water treatment

Considering the green credentials of new materials

Using Mātauranga Māori for sustainable resource use

Persistant organic pollutants

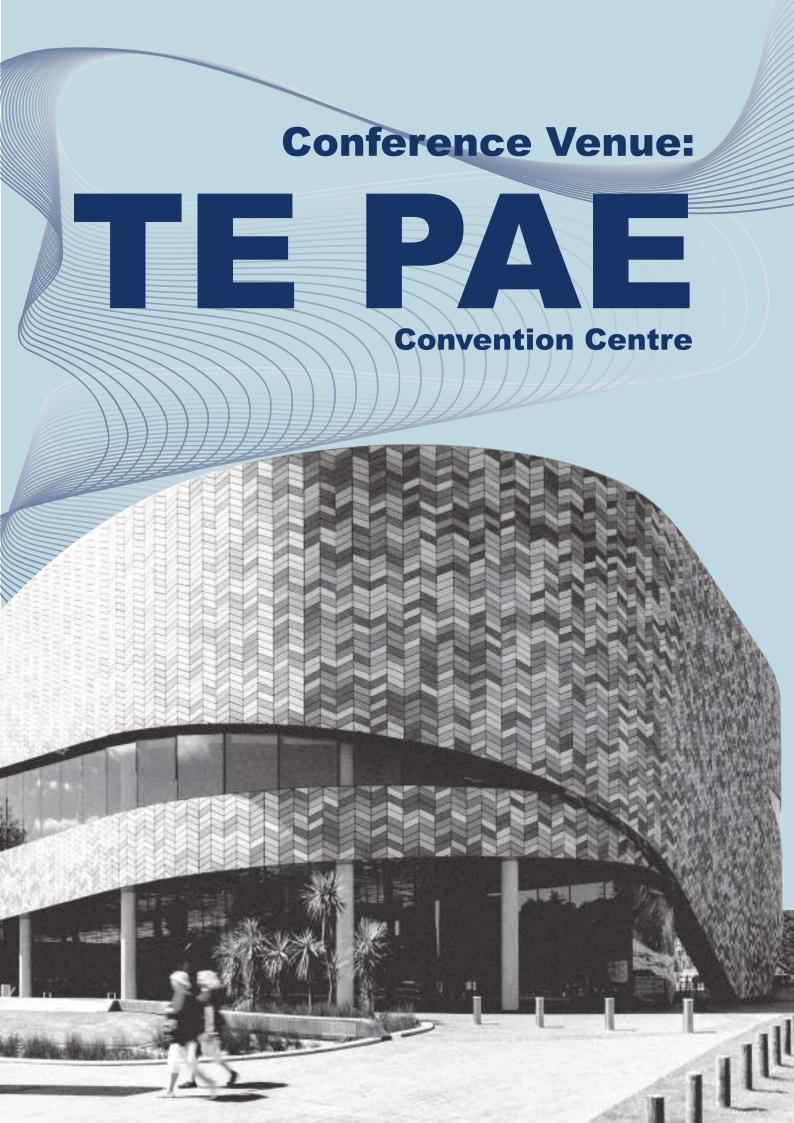
#### **Science Outside of The Lab**

Interface between academia and industry

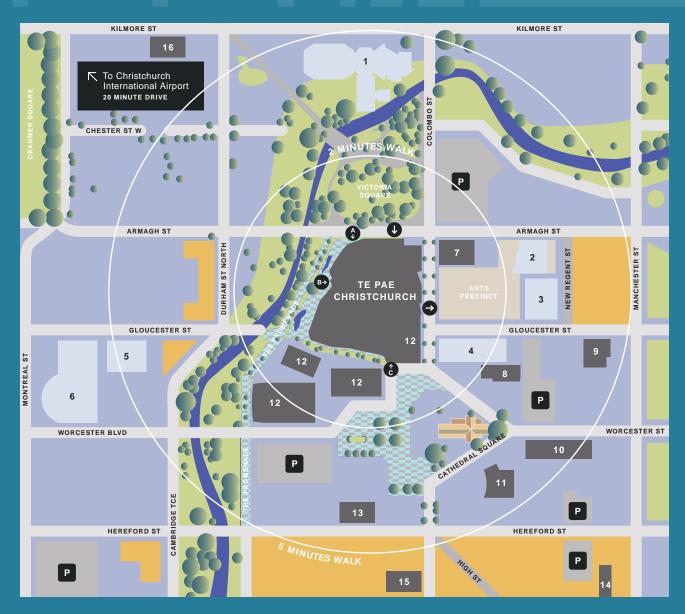
Commercial drivers of a green transition based on advanced materials

Challenges and opportunities for science commercialisation

Science communication



## City Centre Map



#### **KEY**

- Armagh St Entrance
- By Oxford Terrace Main Entrance
- Cathedral Square Entrance
- Loading Entry
- → Loading Exit
- P Parking
- Retail & Hospitality

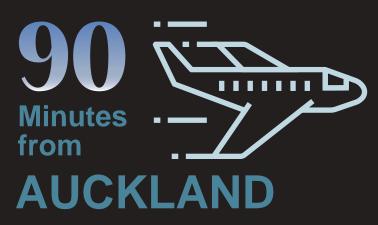
#### **ARTS & CULTURE**

- 1 Christchurch Town Hall
- 2 The Piano
- 3 Isaac Theatre Royal
- 4 Tūranga Central Library
- 5 Centre of Contemporary Art
- 6 Christchurch Art Gallery
  Te Puna a Waiwhentu

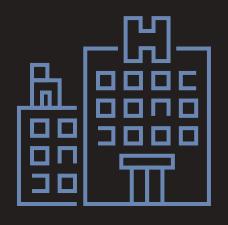
#### HOTELS

- Crowne Plaza
- 8 Novotel
- 9 Fable Christchurch Hotel
- 10 Heritage Hotel
- 11 Distinction Hotel
- 12 Proposed Hotels
- 13 Ibis
- 14 BreakFree on Cashel
- 15 Christchurch City Hotel
- Wyndham Garden Christchurch City









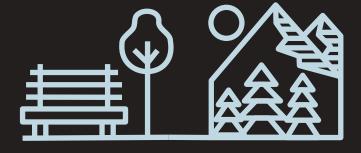
**2500** 

Hotel rooms within walking distance of the conference site

**365** 

Walking, hiking, and mountain biking trails

700 Parks and gardens

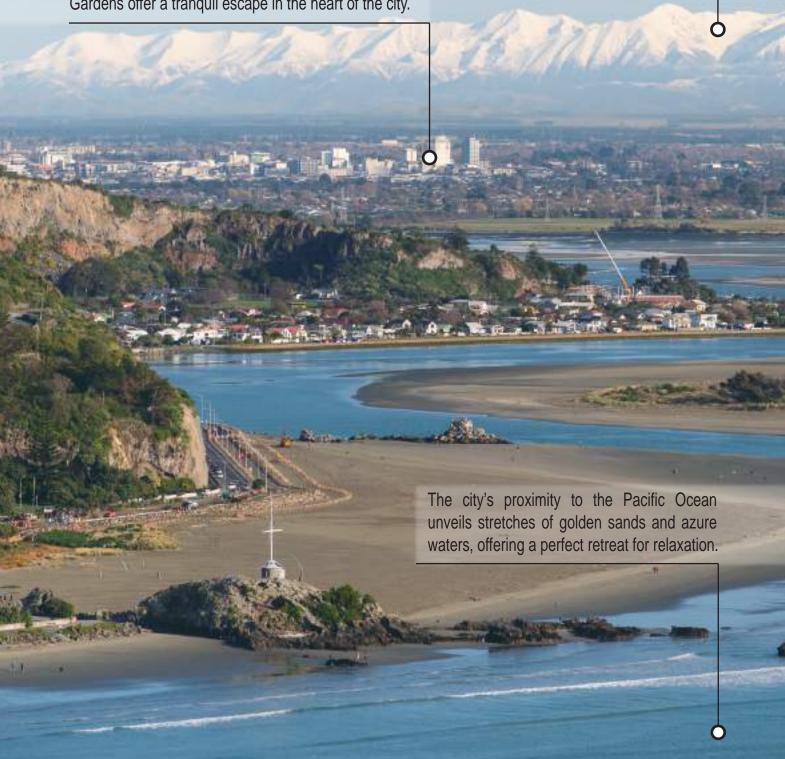


## **Explore Christchurch**

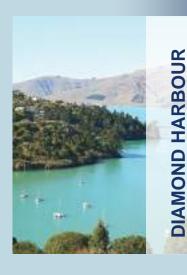
The vibrant city of Christchurch is a combination of modernity, tradition, and natural beauty, offering a unique

Whether you're exploring the mountain trails or simply taking in the breathtaking scenery, the southern alps provides an alpine landscape that invites hikers and nature enthusiasts.

urban experience. Art galleries and street art showcase the city's creativity, the Canterbury Museum invites you into a world of cultural discovery, while the Botanic Gardens offer a tranquil escape in the heart of the city.

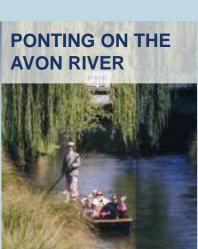








DINING ON NEW REGENT STREET





NEW BRIGHTON PIER AND BEACH



#### Weather

With average high temperatures ranging from 17 degrees Celcius to 23 degrees Celcius, summer in Christchurch is hot without being muggy. UV protection is reccomended in the summer. There are many clear days, sunshine hours are high, and rain is not very common.

#### **Find Out More**

Visit the Ōtautahi Christchurch website to discover the exciting attractions and activities, accomodation, dining, deals, and the amazing destinations that Christchurch has to offer:

**CHRISTCHURCHNZ.COM** 

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#### For more information:

#### **CONVENOR:**

Aaron Marshall
University of Canterbury
Chair AMN11

#### **CONFERENCE ORGANISER:**

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