



The 47th Conference of the
International Group for the
Psychology of Mathematics Education.

"Rethinking Mathematics Education Together"

PME-47

JULY 17TH-21ST
2024

AUCKLAND, NEW
ZEALAND

Rethinking Mathematics Education Together

47th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME 47)

17-21 July 2024

Auckland, New Zealand

<https://events.massey.ac.nz/pme-47-conference/>

Second Announcement





Auckland Sky Tower



Sculpture "The Golden Promise" at Massey University



Massey University, Albany Campus



University of Auckland, Science Centre



AUT, School of Engineering, Computer and Mathematical Sciences building

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1. Welcome

The Local Organizing Committee of the 47th Annual Meeting of the International Group for the Psychology of Mathematics Education is pleased to invite you to attend the conference to be held in Auckland, New Zealand from July 17 to July 21, 2024.

The theme of the conference is “Rethinking mathematics education together”. This theme has been chosen to emphasize mathematics education research as a shifting field of knowledge which is developed as a collective body of research. The theme also has relevance both to the local Pacific/Oceania context as well as broader international contexts with ongoing debates related to mathematics education and research, shifts in both curriculum and pedagogical practices, and a focus on developing equitable educational systems.

We wish to welcome you to the conference in July 2024 and hope that your visit and stay in Auckland, New Zealand will be exciting, interesting, and inspiring. Our goal is to make the PME 47 conference both inclusive and welcoming for all as well as scientifically successful.

1.1. Your Hosts

PME 47 in 2024 will be co-hosted by Massey University, University of Auckland, and Auckland University of Technology. The venue for the conference will be Massey University, Albany, Auckland, and Albany Senior High School.

Massey University

Massey University College of Manawatu became Massey University of Manawatu on 1 January 1964 under the Massey University of Manawatu Act 1963. The new university had full autonomy and degree-conferring powers under the Act.

The name was shortened in 1966 to Massey University. Massey University of Manawatu enrolled 1,877 students in its first year. The university's buildings and facilities increased greatly over the next few decades to cope with growing student numbers. By December 1992, the university's total student roll was 24,675 students.

On 20 March 1993, Massey University's Auckland campus in Albany, was officially inaugurated with a tree-planting ceremony. Since then, it has been the fastest growing area of the North Shore. Strawberry gardens and dairy farms

were redeveloped in the 1980s and 1990s into 10-acre lifestyle blocks and housing.

In the late 1990s, Massey University launched its Graduate School of Business and, in partnership with Auckland College of Education, a Graduate School of Education.

Over the years the Auckland campus has grown rapidly as both domestic and international student numbers increased. This campus will be the home of PME47.

Auckland University of Technology

AUT was founded as Auckland Technical School in 1895, offering evening classes only. Daytime classes began in 1906 and its name was changed to Auckland Technical College. In 1913 it was renamed Seddon Memorial Technical College.

In the early 1960s educational reforms resulted in the separation of secondary and tertiary teaching; two educational establishments were formed; the tertiary (polytechnic) adopting the name Auckland Technical Institute (ATI) in 1963 and the secondary school continuing with the same name.

For three years they co-existed on the same site, but by 1964 the secondary school had moved to a new site in Western Springs and eventually became Western Springs College. In 1989 ATI became Auckland Institute of Technology (AIT), In 2000 AIT made history as New Zealand's first polytechnic to become a university and renamed itself Auckland University of Technology (AUT).

The University of Auckland

The University of Auckland was formally opened on 23 May 1883 as Auckland University College, part of the University of New Zealand. A disused courthouse and jail served as premises for the 95 students and four teaching staff.

In 1962, the abolition of the University of New Zealand saw the University finally become independent. New subjects such as Geography, Anthropology, Māori Studies, and Fine Arts were introduced, and there was a new focus on staff research. Many of the new and younger academics became very active researchers, as evidenced by the growing lists of staff publications. Today, the University of Auckland is the largest university in New Zealand, hosting over 40,000 students on five Auckland campuses.

1.2.About Auckland (Tāmaki Makaurau)

Tāmaki Makaurau Auckland is a multi-cultural urban oasis of food, music, arts and culture. It's where sparkling waters and lush landscapes meet city sophistication.

Tāmaki Makaurau, meaning 'isthmus of one thousand lovers', was originally a Māori settlement. After purchasing the land from the Māori, European settlers began to arrive and colonise the land. Auckland was first settled by the Māori people in approximately 1350. The Māori constructed terraced pa (fortified villages) on the volcanic peaks of the area then known as Tāmaki Makau Rau.

In 1840 the Treaty of Waitangi was signed, and Auckland was named the capital city of New Zealand. By 1865 the capital was moved to Wellington and by 1900 Auckland was New Zealand's largest city. World-class shopping and phenomenal dining are never too far from harbours, islands, native bush, and black-sand beaches. Go skydiving or whale watching, hike an ancient volcanic cone, taste local award-winning wine, or stargaze from the International Dark Sky Sanctuary of remote Great Barrier Island.

You will find the best of both worlds in Auckland, with beautiful rainforests, parks, and beaches all so close to the city centre. The Waitakere Ranges Regional Park west of the city centre has more than 250 kilometres of walking and hiking tracks through lush native rainforest, past cascading waterfalls and along a magnificent coastline. Walk through the region's largest native forest in the Hunua Ranges or explore the striking landscapes of some of Auckland's 26 regional parks, such as Duder, Shakespear, Tapapakanga or Āwhitu.

You are never far from the sea in Auckland. Bring your board to one of the black-sand surf beaches on the wild west coast – Karekare, Piha, Te Henga (Bethells), Muriwai and more. Head north to the expansive golden sands and clear waters of Tāwharanui and Pakiri. Closer to the city centre, and just a 15-minute drive from downtown Auckland, visit Mission Bay, Kohimarama or St Heliers. Enjoy a stroll along the promenade, hire a kayak or stand-up paddleboard, and refuel with some fresh fish and chips by the seaside.

Auckland has an impressive variety of restaurants, cafes, and bars to suit every taste and budget. In the inner city you will find modern dining at Britomart, Commercial Bay, Federal Street and City Works Depot. Enjoy dinner and drinks

or a casual bite on Auckland's beautiful waterfront in the Viaduct Harbour and Wynyard Quarter precincts.

Auckland has three main wine growing regions, where superb wine and stunning scenery go hand in hand. Visit Waiheke Island, known as 'the island of wine' for its 30 wineries and vineyards. North of the city discover Matakana's boutique wineries set amid picturesque coastal countryside. In the west, Kumeu is home to Auckland's oldest established vineyards and is surrounded by market gardens and organic produce.

1.3. About Aotearoa New Zealand

New Zealand is a welcoming, diverse country with a history of Māori, European, Pacific Island, and Asian immigration. This rich blend of cultures, combined with geologically fascinating landscapes and unique flora and fauna, make New Zealand an exciting country to explore.

New Zealand (Māori: Aotearoa) is an island country in the southwestern Pacific Ocean. It consists of two main landmasses—the North Island and the South Island —and over 700 smaller islands. It is the sixth-largest island country by area and lies east of Australia across the Tasman Sea and south of the islands of New Caledonia, Fiji, and Tonga. The country's varied topography and sharp mountain peaks, including the Southern Alps, owe much to tectonic uplift and volcanic eruptions. New Zealand's capital city is Wellington, and its most populous city is Auckland.

The islands of New Zealand were the last large habitable land to be settled by humans. Between about 1280 and 1350, Pacific People began to settle in the islands and then developed a distinctive Māori culture. In 1642, the Dutch explorer Abel Tasman became the first European to sight and record New Zealand.

In 1840, representatives of the United Kingdom and Māori chiefs signed the Treaty of Waitangi, which in its English version declared British sovereignty over the islands. In 1841, New Zealand became a colony within the British Empire. Subsequently, a series of conflicts between the colonial government and Māori tribes resulted in the alienation and confiscation of large amounts of Māori land. New Zealand became a dominion in 1907; it gained full statutory independence in 1947, retaining the monarch as head of state. Today, the majority of New Zealand's population of 5.1 million is of European descent; the indigenous Māori

are the largest minority, followed by Asians and Pacific peoples. Reflecting this, New Zealand's culture is mainly derived from Māori and early British settlers, with recent broadening of culture arising from increased immigration. The official languages are English, Māori, and New Zealand Sign Language, with the local dialect of English being dominant.

As a developed country, New Zealand was the first country to introduce a minimum wage, and the first to give women the right to vote. It ranks highly in international measures of quality of life, human rights, and it has low levels of perceived corruption. It retains visible levels of inequality, having structural disparities between its Māori and European populations. New Zealand underwent major economic changes during the 1980s, which transformed it from a protectionist to a liberalised free-trade economy. The service sector dominates the national economy, followed by the industrial sector, and agriculture; international tourism is also a significant source of revenue.

New Zealand is a member of the United Nations, Commonwealth of Nations, ANZUS, UKUSA, OECD, ASEAN Plus Six, Asia-Pacific Economic Cooperation, the Pacific Community and the Pacific Islands Forum.

1.4. Conference Dates

- Early Researchers Day (ERD) will take place on Tuesday 16th (afternoon) and Wednesday 17th of July (morning).
- The registration for the main conference will be on the 17th July starting at 2:00pm
- The opening session, including the first plenary presentation, will be on Wednesday 17th of July at 16:00pm.
- The conference dinner will take place on Saturday evening, July 20th, in the Ballroom at the Spencer Hotel
- The conference will end on Sunday, July 21, around 13:50pm.

1.5. Dates for IGPME Activities

- The First Timers' Meeting for colleagues attending a PME conference for the first time will take place on Thursday of July 18th, at 13:30-14:30pm.
- The Policy Meeting gives space for an open discussion with the members of the International Committee. It will take place on Friday of July 19th, at 13:30-14:30pm.
- The Annual General Meeting (AGM) will take place on Saturday 20th of July at 16:40-18:10pm.

2. Committees of PME 47

2.1. The International Program Committee (IPC)

The International Program Committee of PME 47 in Auckland consists of:

The International Program Committee (IPC)			
Conference Chair	Jodie Hunter	New Zealand	Massey University
Co-Chair	Tanya Evans	New Zealand	University of Auckland
	Jyoti Jhagroo	New Zealand	Auckland University of Technology
	Generosa Leach	New Zealand	Massey University
	Ofer Marmur	New Zealand	University of Auckland
PME President	Wim Van Dooren	Belgium	KU Leuven
	Ban Heng Choy	Singapore	NIE, Nanyang Technological University
	Chiara Andrà	Italy	University of Eastern Piedmont
	Kotaro Komatsu	Japan	University of Tsukuba

2.2. The Local Organizing Committee (LOC)

The Local Organizing Committee of PME 47 in Auckland consists of:

Local Organizing Committee (LOC)		
Conference Chair	Jodie Hunter	Massey University

Co-Chair	Tanya Evans	University of Auckland
	Pam Perger	Auckland University of Technology
	Igor' Kontorovich	University of Auckland
	Ofer Marmur	University of Auckland
	Louise Fitzgerald	Massey University
	Generosa Leach	Massey University
	Jyoti Jhargoo	Auckland University of Technology
	Kerri Spooner	Auckland University of Technology
	Martha McFaul	Auckland University of Technology
	John Tupouniua	Massey University

3. PME Conference Secretariat

3.1. Secretariat Email Address

For any questions regarding PME 47, please contact Jason Lamontanaro at: PME47@massey.ac.nz

3.2. Conference Website

The conference website is <https://events.massey.ac.nz/pme-47-conference/> where you can find up-to-date information on matters contained within this Second Announcement.

Also, see the conference pages on

Facebook - <https://www.facebook.com/profile.php?id=61555767387700>

and Instagram - https://www.instagram.com/pme47_auckland/

where news and reminders are posted. General information about PME is also available on the website of the International Group for the Psychology of Mathematics Education (IGPME) at www.igpme.org.

4. About IGPME

The International Group for the Psychology of Mathematics Education (IGPME) is an autonomous body, governed as provided for in its constitution. It is an official subgroup of the International Commission for Mathematical Instruction (ICMI) and came into existence at the Third International Congress on Mathematics Education (ICME-3) held in Karlsruhe, Germany in 1976. The conference in 2024 is the 47th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME 47).

4.1. The Constitution of IGPME

The constitution of PME was adopted by the Annual General Meeting (AGM) on August 17, 1980, and changed at the AGM on July 24, 1987, on August 10, 1992, on August 2, 1994, on July 18, 1997, on July 14, 2005, on July 21, 2012. PME decided to seek charitable organization status under UK law and the new constitution related to this change was accepted by the Annual General Meetings in 2018, 2019, and 2022. The name of the Charitable Incorporated Organisation (“the CIO”) is the International Group for the Psychology of Mathematics Education.

The objects of the CIO are to advance the field of mathematics education for the public benefit by:

- Promoting and stimulating research.
- Organising regular educational conferences around the world.
- Supporting regional workshops around the world in general, and in under-represented regions of the world in particular.
- Collaborating with organisations with similar aims.
- Facilitating cross-disciplinary discussion and the sharing of information and research with an international emphasis.
- Helping scholars from different parts of the world establish collaborative networks to further our collective understanding of how to improve mathematics education in their respective countries.
- Providing grants to help bring scholars from under-represented regions of the world to our annual meeting.
- Disseminating our research for the benefit of improving mathematics education at the classroom, school, district, and national levels.

- Disseminating our research for the benefit of improving students' experiences with mathematics education at the classroom, school, district, and national levels.
- Disseminating our research for the benefit of improving the preparation of mathematics teachers at the university level around the world.
- Providing access to our research publications to the public.

All information concerning PME and its constitution can be found at the PME website: <http://www.igpme.org>.

4.2. Honorary Members of IGPME

Efraim Fischbein (deceased), Hans Freudenthal (deceased), and Joop Van Dormolen (deceased).

4.3. Current Board of Trustees of IGPME (IC)

Office	Person	Country/Region
President	<i>Wim Van Dooren</i>	<i>Belgium</i>
Vice President	<i>Michal Ayalon</i>	<i>Israel</i>
	<i>Christina Krause</i>	<i>Austria</i>
Portfolio Group	<i>Daniel Sommerhoff</i>	<i>Germany</i>
	<i>Ting-Ying Wang</i>	<i>Taiwan</i>
	<i>Ban Heng Choy</i>	<i>Singapore</i>
Secretary Portfolio Group	<i>Helena Johansson</i>	<i>Sweden</i>
	<i>Nicky Roberts</i>	<i>South Africa</i>
	<i>Wee Tiong Seah</i>	<i>Australia</i>
Treasurer Portfolio Group	<i>Juan Manuel Gonzalez Forte</i>	<i>Spain</i>
	<i>Tracy Helliwell</i>	<i>United Kingdom</i>
	<i>Jenni Ingram</i>	<i>United Kingdom</i>

	<i>Kotaro Komatsu</i>	<i>Japan</i>
	<i>Chiara Andrà</i>	<i>Italy</i>
Policy Portfolio Group	<i>Sean Chorney</i>	<i>Canada</i>
	<i>Nicola Hodkowski</i>	<i>United States of America</i>
	<i>Anselm Robert Strohmaier</i>	<i>Germany</i>

4.4. IGPME Administrative Manager

Dr. Khemduth Singh Angateeah

Email: info@igpme.org

5. The Scientific Program

The theme of the 47th PME conference is:

Rethinking Mathematics Education Together

The conference language is English. Papers for the proceedings must be written and presented in English. However, colleagues, including the presenters, are welcome to contribute to discussions and questions in their first languages, following a Research Report or an Oral Communication, if translation is provided by someone in the session. The scientific program includes the following activities that are explained in more detail below.

Plenary sessions (see Section 5.1)

- Plenary Lectures
- Plenary Panel

Personal presentations (see Section 5.2)

- Research Reports (RR)
- Oral Communications (OC)
- Poster Presentations (PP)

Group activities (see Section 5.3)

- Research Forums (RF)
- Working Groups (WG)

- Seminars (SE)
- Ad Hoc Meetings (AH)
- National Presentation (NP)

In addition to these activities, the conference will also offer an Early Researchers' Day (ERD), the day before the main conference (see Section 5.4).

5.1. Plenary Sessions

5.1.1. Plenary Lectures

There will be four plenary lectures from invited speakers. Each lecturer will have 60 minutes for presentation, after which the chair of the session will provide a brief reaction and elicit discussion with and comments from the audience.

The plenary speakers for PME 47 are:

Mellony Graven, Rhodes University, South Africa.

"Building and engaging communities: the case of the mental starters assessment project"

Boris Koichu, Weizmann Institute of Science, Israel.

"The secret life of mathematical problems through the lens of research-practice partnerships"

JeongSuk Pang, Korea National University of Education, Korea.

"Five words for rethinking mathematics education"

Keith Weber, Rutgers University, United States of America.

"How should mathematics education researchers think about proof?"

5.1.2. Plenary Panel

The Plenary Panel will be held according to the Oxford-Style debate protocol on a topic related to the theme of the conference:

Can we draw on diverse knowledge in mathematics and, at the same time, develop the mathematics curriculum?

The panel for PME 47 consists of the following researchers:

- *Chair: Armando Solares Rojas, Cinvestav, Mexico*
- *Vilma Mesa, University of Michigan, United States of America*
- *Nuria Planas, Universitat Autònoma de Barcelona, Spain*

- Tony Trinick, *University of Auckland, New Zealand*
- Stefan Ufer, *University of Munich, Germany*

The plenary panel will be held onsite at the venue.

5.2. Personal Presentations

Notifications of decisions from the International Program Committee (IPC) to accept or reject proposals were made available by late March 2024. The detailed reviews for Research Reports are made available in the ConfTool system at <https://www.conftool.com/pme47> (on the author's personal page).

In order for an accepted proposal to be presented at the conference and to appear in the proceedings, the presenting author must pay the full conference fee no later than May 17th, 2024. The conference deposit already paid by the presenting author for pre-registration is non-refundable and will be deducted from the full conference fee.

The International Committee (IC) prepared helpful presenting guidelines for personal presentations. These are available on the IGPME website:

<http://igpme.org/index.php/annual-conference/further-information/presentation-guidelines>.

5.2.1. Restrictions on Number of Contributions

All presentations have to promote the major goals of the IGPME (refer to Section 4.1). In addition, please note that there are restrictions on the number of possible contributions:

Restrictions on number of submissions

You are allowed to submit up to one proposal of each type (but not combine the submission of a Research Report and an Oral Communication).

Restrictions on presenting authorship

You are allowed to be presenting author of either a Research Report (including those bundled within a Colloquium) or an Oral Communication presentation, but not both. Further, you can be presenting author of a Poster Presentation, Research Forum, and Working Group in addition. Note, that it is not possible to change the presenting author after the review process.

Each conference participant may act as organiser of at most one Colloquium and as Coordinator of at most one Seminar. Note, however, it may not be compatible to be a presenter in both a Research Forum and/or a Seminar and/or a Working Group due to scheduling issues.

5.2.2. Research Report (RR)

Research Reports should state what is new in the research, how the study builds on past research, and/or how it has developed new directions and pathways. Some level of critique must exist in all papers.

The number of submitted RR proposals was 190, and 104 of them were accepted. Of those rejected as RR proposals, 57 were invited to be resubmitted as OC, and 26 as PP. Re-submitted OCs and PPs will undergo the same review process as the OC and PP submissions that were submitted directly. Decisions on OC and PP re-submissions will be provided no later than May 4th, 2024. Accepted papers can be presented at the conference and will be included in the proceedings only if the full conference registration fee has been paid by the presenting author no later than May 17th 2024.

Research Reports will be presented in person by the presenting author. Each Research Report presentation will be allotted a total time of 40 minutes: 20 minutes for the oral presentation and 20 minutes for questions and comments. A chairperson will be assigned to each Research Report session. This chair will be selected among the presenters of other Research Reports. The chair will introduce the presenters, make a comment regarding photographing, audio- and videotaping the session, monitor timing of the session, and moderate the discussion. Please see more details about the importance of chairing in Section 5.2.6.

5.2.3. Oral Communication (OC)

Oral Communications are intended to present smaller studies and research that is best communicated by means of a shorter oral presentation instead of a full Research Report. They should present empirical or theoretical research studies on a topic that relates to the major goals of PME.

The number of submitted OC proposals was 136, and 131 of them were accepted. Accepted OCs can be presented at the conference and will be included in the

proceedings only if the full conference registration fee has been paid by the presenting author no later than May 17th 2024.

The IPC will group three Oral Communications according to the distinctive themes in order to provide the opportunity for a common discussion period at the end of each OC session. A chairperson will be assigned to each Oral Communication session. This chair will be selected among the conference attendees. The chair will introduce the presenters, make a comment regarding photographing, audio- and videotaping the session, monitor timing of the session, and moderate the discussion. Please see more details about the importance of chairing in Section 5.2.6.

Oral Communications will be presented in person by the presenting author. In OC sessions, 10 minutes are allowed for each presentation, which include the time it takes for preparation. However, the remaining 30 minutes of discussion time can be organized in different ways. For OC sessions, the chairperson assigned will recommend one of the two timing options depending on whether the presentations are closely related or not. Decisions will be made based on the chairperson's reading of the OC summaries, and after consultation with the three presenters before the start of the session. The two options are:

Option 1: Joint discussion at the end for presentations with related themes. After each presentation, there is the opportunity to clarify immediate questions for at most 5 minutes. 15 additional minutes of discussion are at the end of the session

Option 2: Separate discussions for presentations with separate themes. The chairperson starts 10 minutes of questions and discussion directly after each 10-minute presentation.

5.2.4. Poster Presentation (PP)

Poster Presentations are intended for research that is best communicated in a visual form rather than an oral presentation. There is no formal oral presentation associated with Poster Presentations, although there is time allotted during which presenters will be available by their posters for discussion with conference participants.

Reports should describe the research context of the study presented, the study itself, and its implications, with a particular focus on the visual aspects of the presentation.

The number of submitted PP proposals was 52, and 47 of them were accepted. Accepted PPs can be presented at the conference and will be included in the proceedings only if the full conference registration fee has been paid by the presenting author no later than May 17th, 2024.

Authors are expected to put up their posters at the start of the conference and leave them there until the end of the Poster Presentation session. The Poster Presentation session will last 60 minutes. The presenting author is expected to be at the Poster during that slot for discussions with conference participants.

Please use the portrait format for the poster. The maximum size limit of a poster is A0 (84 cm width × 119 cm height).

5.2.5. Chairing

A chair is assigned to every Research Report session and every Oral Communication session. Please check the conference program carefully to see if you are expected to chair a particular session.

Chairs are selected among the conference participants, and typically they are participants who present a Research Report or Oral Communication themselves. Chairing is an important task, for which we count on everyone's responsibility. If chairs do not take up their duty, we cannot hold up the quality, inclusiveness and spirit of the sessions that strive to have in PME. A further explanation on the task of chairing, and practical tips can be found at https://www.igpme.org/wp-content/uploads/2024/04/ChairingGuidelines_2024.pdf.

5.3. Group Activities

Group activities are intended to provide attendees with the opportunity to exchange information and ideas related to the PME. Conference participants will need to select which sessions they would prefer to attend and indicate this in their registration. Group activities will take place during parallel time allotments and will have limited space.

Accepted proposals will be included in the conference program and in the conference proceedings only if the full conference fee for all the coordinators is paid no later than May 17th 2024.

5.3.1. Research Forum (RF)

The goal of a Research Forum is to create dialogue and discussion by offering PME members more elaborate presentations, reactions, and discussions on topics on which substantial research has been undertaken in the last 5-10 years and which continue to hold the active interest of a large subgroup of PME. A Research Forum is not supposed to be a collection of presentations but instead is meant to convey an overview of an area of research and its main current questions, thus highlighting contemporary debates and perspectives in the field.

There were no submissions for Research Forums.

5.3.2. Working Group (WG)

The aim of Working Groups is that PME participants are offered the opportunity to engage in exchange or to collaborate in respect to a common research topic (e.g., start a joint research activity, share research experiences, continue or engage in academic discourse). A Working Group may deal with emerging topics (in the sense of newly developing) as well as topics that are not new but possibly subject to changes. It must provide opportunities for contributions of the participants that are aligned with a clear goal (e.g., share materials, work collaboratively on texts, and discuss well-specified questions). A Working Group is not supposed to be a collection of individual research presentations (see Colloquium format), but instead is meant to build a coherent opportunity to work on a common research topic. In contrast to the Research Forum format that is meant to present the state of the art of established research topics, Working Groups are considered to involve fields where research topics are emerging.

The number of submitted Working Group proposals was eight of which six have been accepted.

For accepted proposals to be included in the program and the proceedings, all researchers contributing to the Working Group have to make a full registration no later than May 17th, 2024. Two 90-minute slots will be devoted to each Working Group. After presentation, each Working Group is required to send a report of its activities and the goals reached to the PME Administrative

Manager (info@igpme.org) by September 2024. This report may be included in the following PME Newsletter.

WG 1: MATHEMATICS IN INTEGRATED STEM: DILEMMAS AND STRATEGIES FOR SUCCESS

AnnaMarie Conner, Kristin Lesseig, Claire Miller, Anna Bloodworth

WG2: INTERNATIONAL PERSPECTIVES ON PROOF AND PROVING: RECENT RESULTS AND FUTURE DIRECTIONS

David A Reid, Yusuke Shinno

WG 3: CRITICAL MATHEMATICAL THINKING FOR SUSTAINABLE FUTURES

Julia Aguirre, Chiara Andra, Kim Beswick, Alf Coles, Sarah Digan, Vince Geiger, Jodie Hunter, Stefan Siller, Armando Solares, Jennifer Suh, Eva Thanheiser, Nina Unshelm, David Wagner

WG 4: HUMAN DIGNITY AND MATHEMATICS EDUCATION RESEARCH

Yasmine Abtahi, Richard Barwell

WG 5: POETIC METHODS IN MATHEMATICS EDUCATION

Andrew Hare, Rachel Elizabeth Helme, Sue Staats

WG 6: CREATIVE METHODS FOR INQUIRY IN MATHEMATICS EDUCATION RESEARCH

Markku S. Hannula, Tracy Helliwell, Andreas Ebbelind

5.3.3. Seminars (SE)

The goal of a Seminar is the professional development of PME participants, especially new researchers and/or first-comers, in different topics related to scientific PME activities. This encompasses, for example, aspects like research methods, academic writing or reviewing. A Seminar is not intended to be only a presentation but should involve the participants actively. PME can give a certificate of attendance to participants of the Seminar. Facilitating a seminar will not count as a contribution for the existing restrictions on conference contributions.

The number of submitted Seminar proposals was 2, and both were accepted:

SE 1: WRITING PME RESEARCH REPORTS: A SEMINAR FOR EARLY-CAREER RESEARCHERS

Kotaro Komatsu, Peter Liljedahl, Sean Chorney

SE 2: AN INTRODUCTION TO NEURODIVERSITY: CONCEPTS, MYTHS, AND STORIES

David Maximiliano Gomez

For accepted proposals to be included in the program and the proceedings, all researchers contributing to the Seminar have to make a full registration no later than May 17th, 2024. Two 90-minute sessions will be allocated to Seminars. After presentation, the coordinators of each SE are required to send a report of its activities to the PME Administrative Manager (e-mail address: info@igpme.org). This report may be included in the PME newsletter. This report is due by the end of September 2024.

5.3.4. Ad Hoc Meeting (AH)

Ad Hoc Meetings are a form of conference activity approved in 2010. During the conference, PME provides time slots and rooms for meetings of 'ad hoc' groups. The idea is that researchers can meet and discuss research topics that spontaneously came up during discussions of previous presentations at the conference. The Ad Hoc Meetings are reserved only for discussions; presentations or a continuation of a Research Report or Oral Communication are not allowed. To organize an Ad Hoc Meeting, at least two people should prepare an announcement with a short and precise description of the topic, the names of the organizers, and the preferred time slot, and deliver it to the PME Administrative Manager (info@igpme.org). The Administrative Manager will then assign times and rooms. Since there are only a few time slots and rooms, proposals will be accepted on a first-come, first-served basis.

5.3.5. National Presentation (NP)

The country hosting a PME conference can include a National Presentation in the scientific program of the PME conference. The goal of a National Presentation is to present to PME members of other countries the specific history, traditions and perspectives, as well as the most important results, of a national mathematics education community. Accordingly, the National Presentation has to be

organized as a combination of giving information about the national situation and relating/contrasting this information with international mathematics educational research. One 60-minute session will be allocated to the National Presentation.

5.4. Early Researchers' Day (ERD)

PME is pleased to offer a special day (early researchers' day, ERD) for early career researchers who are also attending the PME conference. The Early Researchers' Day will directly precede the main PME conference and will consist of presentations, working groups and other kinds of sessions planned to be of value to those new to research in mathematics education.

The aim of the ERD is to provide early career researchers with opportunities to develop their research skills in various fields, establish new contacts, build networks among themselves and with respect to future PME conferences, and meet and work with international experts in the field.

The 2024 ERD will be held on the afternoon of Tuesday, July 16th, and the morning of Wednesday, July 17th, at Massey University (on site). The day is being organized by Tanya Evans (LOC member, New Zealand) and Arindam Bose (PME representative, India). Registration fees for ERD and coffee breaks are complimentary (no cost) and researchers can apply for participation through ConfTool. The number of participants may be limited. Priority will be given to current PhD students and post-doctoral students, and special consideration will be given to applicants from underrepresented countries. The ERD programme can be found on the conference website: <https://events.massey.ac.nz/pme-47-conference/early-researchers-day/>.

6. PME Pre-Submission Support for PME 48

PME 48 will be held in Santiago, Chile in July 2025. The PME pre-submission support for Research Reports and Oral Communications is intended for novice or inexperienced researchers who have limited access to expert advice and who would like to receive guidance from more experienced PME researchers. Applicants should submit their paper to the coordinator who is appointed by the International Committee. The coordinator will then assign the paper to an appropriate mentor and ensure that the communication between the mentor and novice researcher proceeds smoothly.

6.1. Coordinator

The PME pre-submission support coordinator is Alf Coles (United Kingdom), presubmission@igpme.org

6.2. Procedure

Authors who wish to have a mentor to compose a Research Report or Oral Communication should contact the coordinator as early as possible. The pre-submission support papers should be accompanied by a statement in which the authors describe:

- a. their limited experience in writing research reports (or journal articles) and
- b. their limited access to expert advice.

Mentors will correspond with the applicants and help strengthen their submitted papers. Please note that this procedure is meant to provide feedback on written reports. It is not meant as support for conducting research. This mentoring does not guarantee acceptance, as all submitted papers will still undergo the regular PME reviewing procedures.

7. Registration and Payment

7.1. Conference Registration

Registration for PME 47 will be carried out online using the ConfTool conference registration system, at www.conftool.com/pme47. Before registering for the conference or paying the membership fee, you need to register in the PME ConfTool system.

1. If you already have been a user of the PME ConfTool system, for example if you attended one of the last conferences:
 - Please enter your username and password to log in and select the option “Pre-Register for this Event or Join PME as a member.” If you have forgotten your password, ConfTool will help you to retrieve it.

If you are a new user for the PME ConfTool system:

- Please create a new account and register in the system.
- You will need to provide your personal information and account information in order to build your own data base in the system.

- After filling in these details and submitting all information needed, you will be able to continue with your conference pre-registration.
2. Select your status as PME participant by clicking on the appropriate option. Step by step, the system will take you to the payment form for the conference deposit (see section 7.4).

If you have any problems with your conference pre-registration, please contact at: pme47@massey.ac.nz

7.2. IGPME Membership Only

If you have been an IGPME member in the past, but will not be attending PME47, or you want to become a new IGPME member who will not attend PME47, pay the annual membership fee for PME through ConfTool. This is necessary for maintaining or getting membership.

1. As a member of IGPME who wants to renew membership:
 - Please log in by entering your username and password and select the option “Pre- Register for this Event or Join PME as a member.”

As a new member of IGPME:

- Please create a new account and register in the system.
 - You will need to provide your personal information and account information in order to build your own data base in the system.
 - After filling in these details and submitting all information needed, you are able to select the option “Pre-Register for this Event or Join PME as a member.”
2. After checking your personal details and choosing “Pay PME membership fee ONLY” in the following step, the system will automatically take you to the payment form for the membership fee (see section 7.4).

If you have any problems with payment of the membership fee, please contact at: pme47@massey.ac.nz

7.3. Registration Fees

7.3.1. Total Registration Fee

The total registration fee for PME 47 is \$800 (NZD) this covers:

- PME membership for the year 2024 of \$90

- a compulsory Skemp Fund donation of \$18
- access to electronic conference proceedings; and
- administrative costs related to the handling of the proposals.
- 3 lunches and 7 coffee breaks
- opening reception
- conference dinner and
- the costs of venue, administrative work, and facilities needed for the organization of the conference.

During the final registration process via the ConfTool system, you may order the printed proceedings for an additional \$165 (NZD).

7.3.2. Accompanying Person Fee

We welcome accompanying people. Accompanying people participate in the social program but not in the scientific program of the conference. The fee for accompanying people is expected to be \$280 (NZD) per person.

The fee covers:

- opening reception (Wednesday 17th);
- conference dinner (Saturday 20th); and
- some of the administrative work involved outside of the scientific program.

There is no fee for accompanying children 13 years of age or less. Accompanying persons should be registered together with the regular participant in the registration process. It is not possible to register as accompanying person only.

If you have any questions, please contact at: pme47@massey.ac.nz

7.3.3. Late Registration Fees

An additional charge of \$200 (NZD) will be applied for registrations made after May 17, 2024.

7.4. Payment Options

All participants should do their payment by credit card payment or bank transfer. In the case of a bank transfer, you should provide the following reference: *"PME47-Surname, Name"*.

After the payment, you must send a copy of the bank transfer receipt to the email address: pme47@massey.ac.nz to complete the payment process.

7.5. Donations to Skemp Fund

The Richard Skemp Memorial Support Fund is a fund that was established to support academics from under-represented or economically weak countries in attending the annual conference (see section 7.6). The spirit of the fund is to help academics who normally would not have access to the PME conference. As such, where applicants are from, where they are living, where they are working, where they are currently studying, as well as the conditions of their employment and studies are important factors when adjudicating the applications.

The Skemp Fund plays an increasingly important role in making the PME annual conference more accessible to mathematics educators who would not otherwise be able to attend the conference. The extent to which we can give this financial assistance depends to a large degree on the generosity of the PME community. For this reason, a compulsory donation of \$18 is included in the pre-registration fee for the conference. In addition, the International Committee calls on members to make an additional donation, however small, to the Skemp Fund when paying membership fees or registering for annual conferences. Donations in cash during the conference are also possible through the Administrative Manager, who can provide a receipt for this.

7.6. Richard Skemp Memorial Support Fund

The Richard Skemp Memorial Support Fund is a fund that was established to support academics from under-represented or economically weak countries in attending the annual conference. The spirit of the fund is to help academics who normally would not have access to the PME conference.

A limited amount of financial support is available to researchers who experience difficulty in obtaining financial support to attend a PME conference. Applicants for a grant from the Fund must submit an individual contribution (RR, OC, PP) and pay the non-refundable conference deposit, prior to the applicant's proposal being reviewed. A grantee must have at least one proposal (RR, OC, PP) accepted.

In general:

- only one of the authors of a particular proposal will be eligible to apply for a grant;

- those who have already received a grant on two prior occasions will not receive an additional grant; and
- for applicants who have already received a grant in a previous year, priority will go to those who have an accepted Research Report rather than an Oral Communication or Poster Presentation.

The number and size of grants each year depend on the amount available as well as the number of applicants and the relative merits of each application. The Richard Skemp Memorial Support Fund Committee will meet during the second International Program Committee meeting, in April 2024, and will make its recommendations once decisions on the acceptance or rejection of proposals have been completed. The PME Administration Manager will contact applicants to inform them of the decision on their application for a Richard Skemp Memorial Support Fund grant. This will usually take place before the end of April each year. Please note that grants cannot be carried over to the next year's conference. Grants will be paid at the conference and are not available in advance.

7.7. Cancellation Policy

7.7.1. For Registered Participants

Participation in the conference is conditional upon registration and payment of all fees. All cancellations and changes regarding the conference registration must be made in written form to the conference secretariat by sending an email to pme47@massey.ac.nz. In all cases, the conference deposit will not be refunded; however, the deposit will cover one year of membership as well as access to the electronic conference proceedings (see section 7.3.1 Conference Deposit).

If a cancellation for conference participation is made after the full registration fee has been paid: Before June 3, 2024, the refund will be the amount of the full registration fee minus the conference deposit and the fees that the bank charges for transferring the refund. Refund = (registration fee – conference deposit – bank fees).

Cancellation after June 3, 2024, will be subject to the discretion of the Conference Chair on an individual basis.

7.7.2. For Accompanying People

If a cancellation for accompanying person is made after the full registration fee has been paid: Before June 3, 2024, the refund will be the amount paid minus the

fees that the bank charges for transferring the refund will be refunded. Refund = accompanying person fee – bank fees.

7.7.3. General Information

Participation is not guaranteed until full payment of the registration fee is received.

The conference program may be subject to changes (based on decisions by the International Program Committee).

In the case of unforeseeable events, it is up to the International Program Committee and the International Committee of PME to decide on changes or even the cancellation of the conference and the amount of refund of payments. If the conference is cancelled, the remaining funds will be paid back to the participants and no further liability of the local organizers or PME will be accepted towards the client.

8. Important Dates 2024

8.1. Deadlines for PME 47

For all accepted proposals, the deadline for final registration is May 17, 2024. Contributions will not be included into the proceedings, if final registration including the payment of the total registration fee is not completed by that date.

Late registration (for participants not presenting) is possible (with an extra fee of \$200 NZD) until July 2nd 2024.

8.2. Deadlines for PME 48 (2025) in Santiago, Chile

Research Forums for PME 48 to be held in Santiago, Chile should be submitted before November 1, 2024, to the Administrative Manager (info@igpme.org).

The deadline for PME Pre-Submission Support for contributions to PME 48 in Santiago, Chile is November 1, 2024. Please refer to www.igpme.org/index.php/annual-conference/pre-submission-support/ for further information.

9. Further Information About the Conference

9.1. Letter of Invitation

Delegates requiring a letter of invitation in order to attend the conference may write to the conference secretariat at PME47@massey.ac.nz specifying the necessary details. Please note that this procedure aims explicitly at assisting delegates who need to obtain a visa or permission to attend the conference. It is not an official invitation covering fees or other expenses and does not imply any financial support from the conference organizers.

9.2. Facilities at the Conference Venue

Massey University is modern and well equipped. Bathrooms and resting areas are easily accessible. Since the tap water in Auckland is of such high quality, and for ecological reasons, we highly recommend you bring your own water bottle. You can fill it at any tap you can find. The university is also well equipped with elevators for every stair-case and wide doors to most rooms. At the university you can find coffee shops and cafeterias.

9.3. Name Badges

Participants and accompanying persons will receive a conference name badge. Everyone is requested to wear this badge during the conference for access to all conference activities. The badge will function as an entrance pass to lunches, coffee breaks, the welcome reception, and the conference dinner, and to all sessions in the scientific program.

9.4. Internet Facilities

Wireless internet access will be available at the conference sites.

As a guest or visitor to Massey, you can use the MUGuests Wi-Fi or Eduroam. This open, public network has a data limit of 600MB a day.

Details for Wi-Fi access at the secondary conference venue (Albany Senior High School) will be available at the registration desk.

9.5. Equipment for Presentations

All lecture rooms will be equipped with a projector and a screen. Please bring your own laptop. There will be connections available, including VGA and HDMI connections. If you want to use your own laptop with a different connection (e.g., Mac, HDMI mini), please bring an adapter. If you have entered any other requests during the submission process, you will be contacted by the Local Organising Committee. If you have any questions concerning equipment, please contact PME47@massey.ac.nz

9.6. Food During the Conference

Coffee, tea, juice, water, and some light snacks will be provided at the conference venue during the coffee breaks. We will provide lunch. You will be able to specify dietary needs in the registration process.

The opening reception will be on Wednesday, July 17th, at 18.30pm in the Sir Neil Waters Building at Massey University. The conference dinner will take place on Saturday 20th July in the ballroom of the Spencer Hotel.

9.7. Conference programme booklets

For PME 47, we will not be printing conference programme booklets. Instead, both the conference timetable and abstracts for sessions will be available on a conference app which will be available to download prior to the conference. Details of this conference app will be emailed to conference participants and available on the conference website. We will also provide a PDF of the conference programme booklet on the conference website which participants can download and print themselves.

9.8. Printed Copies of Conference Proceedings

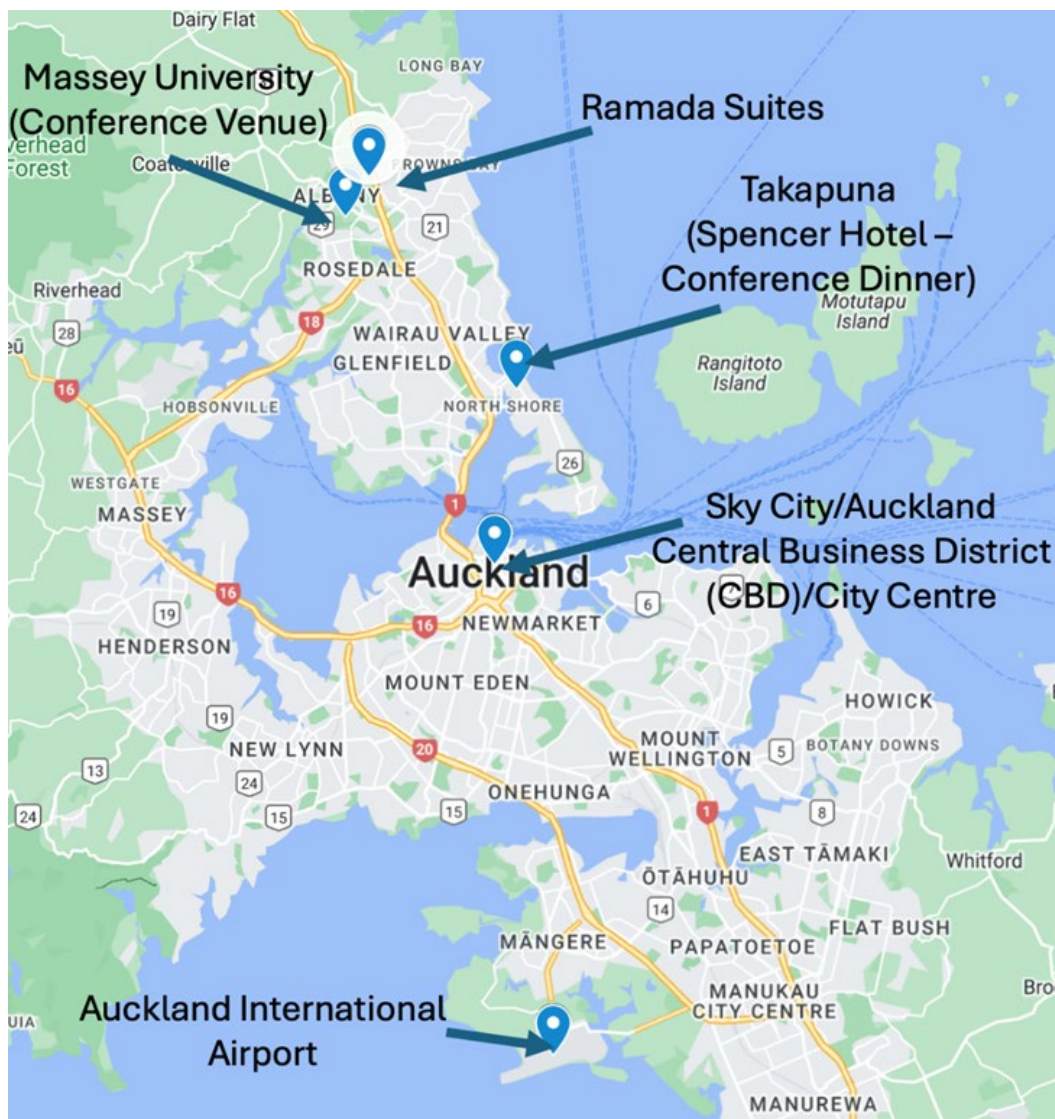
All PME 47 participants will be provided with electronic access to the conference proceedings prior to the conference. If you wish to purchase printed copies of the conference proceedings, you can select this option when registering online through ConfTool. The additional cost of the printed proceedings will be \$165 (NZD), and these need to be ordered by May 17, 2024. The proceedings must be picked up at the conference either personally or by asking a colleague to do it. Printed copies of the Proceedings will not be mailed.

10. Travel Information

The conference will be held at Massey University and Albany Senior High School (Thursday and Friday only) on the North Shore of Auckland in the suburb of Albany.

Albany is around 42 km away from Auckland International Airport, 17 km from Auckland Central Business District, and 9 km from Takapuna (an area where some of the offered accommodation is situated).

Information about important locations relevant to the conference are provided on the map below:



10.1. Getting to Auckland

You can only reach Auckland via plane or cruise ship internationally.

Twenty-nine international airlines fly direct to Auckland from 44 destinations around the world.

Auckland is the most connected city in New Zealand, with regular flights to and from cities across the globe and daily flights to all the country's main centres and popular tourist destinations.

<https://www.aucklandairport.co.nz/>

From the Airport into Auckland CBD

- *SkyDrive: Bus from Auckland Airport into the city:*

SkyDrive offers a reliable and affordable express and direct shuttle service between both the Domestic and international Terminals at Auckland Airport and SkyCity in Central Auckland

The SkyDrive Airport Express service travels directly from downtown Auckland to Auckland Airport in comfort on coaches with panoramic views. (check website for up-to-date pricing)

Adult: \$18 (NZD) One Way

Child: \$8 (NZD) One Way

<https://www.skydrive.co.nz/>

- *Catch a shuttle from Auckland Airport to the city.*

Approximately \$35 (NZD) for one person. (Check website for up-to-date pricing)

A shuttle is a cost-effective way to travel into the city and takes approximately one hour. Discounts apply if two or more people are travelling together - approximately \$8 (NZD) per additional person. Shuttles are normally shared with other passenger groups.

The shuttle's travelling time depends on traffic conditions and the number of drop-offs or pick-ups along the way. Allow plenty of time to reach the airport for departing flights.

<https://www.supershuttle.co.nz/>

- *Getting a taxi*

Approximately \$75 to \$90 (NZD) - about 30 minutes.

Taxi and shuttle ranks are located outside the arrivals area (door 8) at the international terminal and outside the Jetstar forecourt at the domestic terminal. The journey between the airport and the central city can take considerably longer during peak traffic periods.

If you're travelling to the airport by taxi, make sure you allow plenty of time. Taxis licensed to operate from the airport carry a value and service guarantee.

All taxis generally accept both cash and credit card.

- *Rideshares*

Both the domestic and international terminals have a dedicated rideshare area. You can get picked up or dropped off with rideshare services such as Uber and Ola. The cost of an Uber to Auckland city is around \$54 depending on the time of day in which you arrive.

- *Car rental*

Major rental car companies operate from both terminal buildings. Bookings are strongly recommended.

10.2. Getting to the Conference Venue

Once you are in Auckland CBD or on the North Shore, there are several ways to arrive at Massey University and Albany Senior High School where the conference will take place:

- By bus (to Albany Campus)

Auckland Transport buses run to the Auckland campus from many parts of the North Shore and stop in front of the Atrium Building in the East Precinct. This includes buses to Albany Station on the Northern Busway to Auckland city.

There are also frequent buses to Takapuna that depart a 3-minute walk from Massey University.

To use buses in Auckland you will need to purchase a HOP card. This may change by July 2024.

<https://at.govt.nz/bus-train-ferry/at-hop-card/buy-at-hop-card>

- By car/rideshare app.

There is free car parking at the campus – this is on a first come, first serve basis. You may decide to rent a car or use a rideshare app such as Uber or Ola which

are readily available in New Zealand. We would recommend that you purchase a tourist sim card for your mobile phone at the airport to make use of this option.

10.3. About New Zealand

10.3.1. Language

New Zealand has three official languages: English (de facto), Māori and New Zealand Sign Language.

10.3.2. Biosecurity

There are very strict biosecurity and customs rules about what you can and cannot bring into New Zealand.

<https://www.govt.nz/browse/immigration-and-visas/bringing-things-into-new-zealand/>

You must declare or dispose (in amnesty bins prior to customs) any of the following items from your hand luggage or checked bags.

- Food
- fruit, vegetables, meat, fish, poultry, honey, ingredients used in cooking, and all dairy products
- alive or dead plants and seeds
- wooden items
- alive or dead animals
- alive or dead animal products
- traditional/herbal medicines
- any shoes, sports or outdoor equipment you've used

If you fail to declare restricted or prohibited items or make a false or incorrect declaration in your NZTD, you could face a \$400 instant fine.

10.3.3. Passport and visa

Most travellers to New Zealand either need an NZeTA or visa to enter the country. There are 60 countries that have a visa waiver agreement with New Zealand, however, this still requires an NZeTA to be applied for prior to the visit (approximately three days processing time).

<https://www.immigration.govt.nz/new-zealand-visas/visas/visa/nzeta>

Those who need an official invitation in order to obtain a visa to enter New Zealand, please read Section 9.3.3. Letter of Invitation.

PME 47 cannot be held responsible for any matters related to obtaining visas.

10.3.4. Currency

The currency in New Zealand is the New Zealand Dollar (NZD/\$)

10.3.5. Power Plugs

For New Zealand the associated plug type is I (see image), which is the plug that has three flat pins in a triangular pattern. New Zealand operates on a 230V supply voltage and 50Hz.



10.3.6. Telephone Codes and Useful Numbers

The New Zealand country code +64 will allow you to call New Zealand from another country. The code 64 is followed by an area code. The Auckland area code is 09 (+64 9xxxxxxx) There is no area code if you are calling a mobile phone (cell phone).

Where to call in case of emergency?

Dial 111 for all emergency services.

10.3.7. Weather

July is winter in New Zealand, the temperature settles at its coolest point, an average 11°C (52°F). The average high temperature for the month is 14°C (57°F) and the average low temperature for the month is 8°C (46°F), with the overnight temperatures often being brisk and requiring a jacket. July also receives more precipitation than any other month. **We suggest that you bring both a raincoat and umbrella in preparation.**

10.3.8. Liability and Insurance

Please check the validity of your insurance before travelling to the conference. The Local Organizing Committee does not accept any liability for personal injury, loss or damage of personal belongings, or additional expenses incurred to congress participants (or their accompanying people) either during the conference or as a result of any other causes.

11. Accommodation

There are different accommodation options available for your visit to Auckland during the conference.

On the one hand, if you prefer to stay in Auckland CBD and enjoy your time visiting the city, most of their hotels are located very close to each other in the city centre, which makes it easy to meet up with colleagues and there are public transport options available to transport you to the North Shore where the conference is held.

On the other hand, Massey University is situated on the North Shore and close to several large hotel chains where accommodation can be found. The University is located in Albany which has both restaurant options and a nearby shopping centre close. Takapuna is a suburb with a wide range of restaurant options which is situated on the North Shore approximately half-way between Massey University and the City Centre.

Information about accommodation is available on the conference webpage:

<https://events.massey.ac.nz/pme-47-conference/location-and-travel/accommodation/>

Hotel	Travel time by car/rideshare	Travel time by public transport (bus)
The Spencer on Byron (Takapuna)	14 min	47 min
Carnmore (Takapuna)	14 min	52 min
Ramada Suites (Albany)	5 min	14 min
M-Social (Auckland CBD)	18 min	42 min
Copthorne (Auckland CBD)	18 min	47 min
Grand Millenium (Auckland CBD)	20 min	63 min

12. Conference Dinner

The Conference dinner is on Saturday July 20th, 2024, at the Spencer Ballroom at the Spencer Hotel in Takapuna.

Buses will leave from the University to the Conference Dinner venue, there will not be a return bus.

13. Special information: Tikanga tips (cultural considerations)

New Zealand is a bicultural country and we are proud of our Māori cultural heritage and traditions. We ask that you are mindful during your visit to observe some important points of tikanga (Māori customary behavior).

Firstly, we will be having a traditional welcome during the conference opening. This means that we need to ask you to refrain from entering the lecture theatre until you are called to enter as part of the cultural protocol.

Secondly, we ask that you avoid either sitting on the top of tables/desks or placing your bags on the top of tables/desks as in our culture, it is seen as unhygienic given that these will also be used for eating. We thank you for respecting the tikanga of our people.