



**MAKING SURE THAT MATHEMATICS EDUCATION
RESEARCH REACHES THE CLASSROOM**

**48th Conference
of the International Group
for the Psychology of Mathematics Education**

PME 48

**July 28 to August 02, 2025
Santiago, Chile**

<https://go.cmm.uchile.cl/pme48>

First Announcement

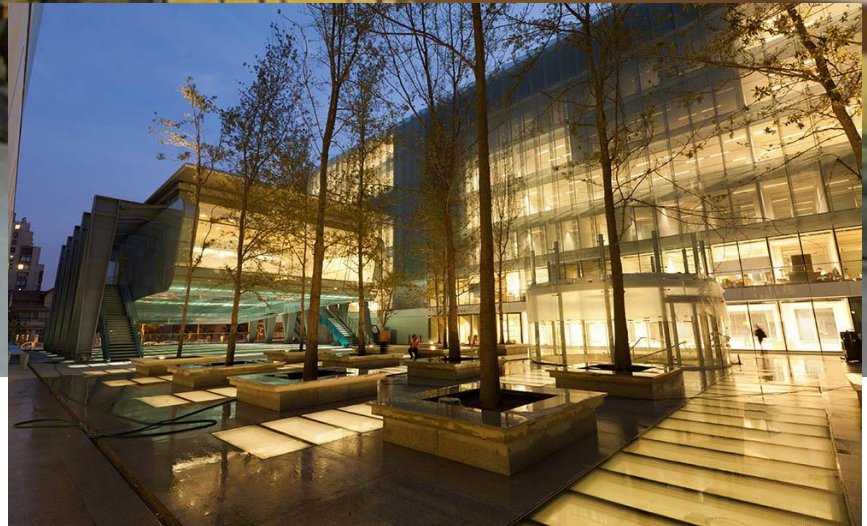


**UNIVERSIDAD
DE CHILE**

UOH Universidad
de O'Higgins



*Faculty of Physical and Mathematical Sciences,
Universidad de Chile. Santiago, Chile.
(conference venue)*



*Universidad de O'Higgins,
Rancagua, Chile.*





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1. Welcome

The Local Organizing Committee of the 48th Conference of the International Group for the Psychology of Mathematics Education is pleased to invite you to attend the conference to be held in Santiago, Chile, from July 28 to August 02, 2025.

The theme of the conference is “Making sure that Mathematics Education Research reaches the classroom”. This theme has been chosen to emphasize the need to connect mathematics education research to the needs and reality of the classroom. The theme is particularly relevant in the Latin American region, which faces great challenges in providing mathematics education of quality for all students.

We wish to welcome you to the conference in July 2025 and hope that your visit and stay in Santiago, Chile, will be exciting, interesting, and inspiring. Our goal is to make the PME 48 conference inclusive, welcoming for all, and scientifically successful.

1.1. *Your Hosts*

PME 48 in 2025 will be co-hosted by Universidad de Chile and Universidad de O'Higgins. The venue for the conference will be the Faculty of Physical and Mathematical Sciences of Universidad de Chile.

1.1.1. Universidad de Chile

Universidad de Chile is a public research university in Santiago, Chile. In 1841 the Chilean minister of public education, Manuel Montt, conceived the idea of funding a corporation for the "advancement and development of sciences and humanities". Andrés Bello, a Venezuelan poet and humanist, formulated the project, which, with small modifications, became a law on November 19, 1842, creating the Universidad de Chile.

The foundation answered the need to modernize the country which a little more than two decades before had become independent from Spain. It replaced the Real Universidad de San Felipe, which was established in 1738.

The university was formally opened on September 17, 1843. During this period, the university consisted of five faculties: Humanities & Philosophy, Physical & Mathematical Sciences, Law & Political Sciences, Medicine, and Theology. During its first years the university gave considerable support to education, institutional organization (such as the "Civil Code", a model for America), the building of the road network to join the territory, and the energy and production infrastructure.

The university seeks to solve national and regional issues and to contribute to the development of Chile. It is recognized as one of the best universities in Latin America for its leadership and innovation in science, technology, social sciences, and arts through the functions of creation, extension, teaching, and research. It is considered the most important and prestigious university in the country.

Its five campuses comprise more than 3.1 square kilometers (1.2 sq mi) of research buildings, healthcare centers, museums, theaters, observatories, and sports infrastructure. The institution has more than 40,000 undergraduate and graduate students, offering more than 60 different bachelor and professional degrees, 38 doctoral programs, and 116 master programs.

Notable alumni include Nobel laureates Pablo Neruda and Gabriela Mistral, twenty-one Chilean presidents including the current president Gabriel Boric, and two presidents from other countries (Mexico and Ecuador).

Sources: https://en.wikipedia.org/wiki/University_of_Chile
<https://www.uchile.cl/>

1.1.2. Universidad de O'Higgins

Universidad de O'Higgins (UOH) is a Chilean public university, created by law in 2014 during the second government of President Michelle Bachelet. It is located in the Región del Libertador General Bernardo O'Higgins, where it develops its academic activities. The university opened its first 13 undergraduate programs in March 2017.

Together with Universidad de Aysén, they constitute the only two Chilean public universities created in more than two decades. The Regions of O'Higgins and Aysén had been the only ones without public higher education institutions so far.

Universidad de O'Higgins' academic organization considers two types of units: institutes and schools. As a consequence of this, UOH has neither faculties nor departments.

The UOH institutes are multidisciplinary academic units devoted to activities of scientific research, technological research, and R&D for capacity-building and solving relevant problems of the O'Higgins Region and problems of national and international importance. The university currently has five research institutes: Institute of Agro-Food, Animal and Environmental Sciences; Institute of Education Sciences; Institute of Engineering Sciences; Institute of Health Sciences; and Institute of Social Sciences. In addition, it has an Institute of Advanced Audiovisual Studies, focused on audiovisual creation.

The UOH schools are academic units that organize, administer, and offer study plans leading to academic degrees and professional licenses. The university currently has five undergraduate schools: School of Agro-Food, Animal and Environmental Sciences; School of Education; School of Engineering; School of Health; and School of Social Sciences.

Nowadays, Universidad de O'Higgins offers 27 undergraduate programs, and has opened 2 doctoral programs, 5 master programs, and 2 medical specializations.

Sources: https://es.wikipedia.org/wiki/Universidad_de_O%27Higgins
<https://www.uoh.cl>

1.2. About Santiago

Santiago, also known as Santiago de Chile, is the capital and largest city of Chile and one of the largest cities in the Americas. It is located in the country's central valley and is the center of the Santiago Metropolitan Region, which has a population of seven million, representing 40% of Chile's total population. Most of the city is situated between 500–650 m (1,640–2,133 ft) above sea level.

Founded in 1541 by the Spanish conquistador Pedro de Valdivia, Santiago has served as the capital city of Chile since colonial times. The city features a downtown core characterized by 19th-century neoclassical architecture and winding side streets with a mix of art deco, neo-gothic, and other styles.

Santiago's cityscape is defined by several stand-alone hills and the fast-flowing Mapocho River, which is lined by parks such as Parque Bicentenario, Parque Forestal, and Parque de la Familia. The Andes Mountains are visible from most parts of the city and contribute to a smog problem, particularly during winter due to the lack of rain. The outskirts of the city are surrounded by vineyards, and Santiago is within an hour's drive of both the mountains and the Pacific Ocean.

Santiago is the political and financial center of Chile and hosts the regional headquarters of many multinational corporations and organizations. The Chilean government's executive and judiciary branches are based in Santiago, while the Congress mostly meets in nearby Valparaíso.

Only a few historical buildings from the Spanish colonial period remain in the city, because of earthquakes. Extant buildings include the Casa Colorada (1769), the San Francisco Church (1586), and Posada del Corregidor (1750). Within the metropolitan area of Santiago, there are 174 heritage sites in the custody of the National Monuments Council, among which are archeological, architectural and historical monuments, neighborhoods and typical areas. Of these, 93 are located within the commune of Santiago, considered the historic center of the city. Although no santiaguino monument has been declared a World Heritage Site by Unesco three have already been proposed by the Chilean government: the Incan sanctuary of El Plomo, the church and convent of San Francisco and the Palace of La Moneda.

Surrounded by a privileged natural environment, the Santiago Metropolitan Region captivates its visitors with internationally renowned sky centers, large parks and amazing nature reserves.

In this active, dynamic, diverse and multicultural region you can find the usual attractions of a large city, such as museums, cinemas, theaters, and interesting places to visit such as vineyards, handcraft centers, and places to practice adventure sports.

Sources: <https://en.wikipedia.org/wiki/Santiago>
<https://www.sernatur.cl/>

1.3. About Chile

Chile, officially the Republic of Chile, is located in western South America. It is the southernmost country in the world and the closest to Antarctica, stretching along a narrow strip of land between the Andes Mountains and the Pacific Ocean. Chile had a population of 17.5 million as of the latest census in 2017 and has a territorial area of 756,102 square kilometers (291,933 sq mi), sharing borders with Peru to the north, Bolivia to the northeast, Argentina to the east, and the Drake Passage to the south. The country also controls several Pacific islands, including Juan Fernández, Isla Salas y Gómez, Desventuradas, and Easter Island. A long and narrow coastal Southern Cone country on the west side of the Andes Mountains, Chile stretches over 4,300 km (2,670 mi) north to south but only 350 km (217 mi) at its widest point east to west and 64 km (40 mi) at its narrowest point east to west, with an average width of 175 km (109 mi). This encompasses a large variety of climates and landscapes. It contains 756,950 square kilometers (292,260 sq mi) of land area. It is situated within the Pacific Ring of Fire. Excluding its Pacific islands and Antarctic claim, Chile lies between latitudes 17° and 56°S, and longitudes 66° and 75°W. The capital and largest city of Chile is Santiago, and the national language is Spanish.

Spain conquered and colonized the region in the mid-16th century, replacing the rule of the Inca empire, but failed to conquer the independent Mapuche people who inhabited what is now south-central Chile. Chile emerged as a relatively stable authoritarian republic in the 1830s after its 1818 declaration of independence from Spain. In the 20th century, up until the 1970s, Chile underwent a process of democratization and experienced rapid population growth and urbanization while relying increasingly on exports from copper mining to support its economy.

Chile is a developing country with a high-income economy and is one of the most economically and socially stable nations in South America. Chile also performs well in the region in terms of sustainability of the state and democratic development. Chile is a founding member of the United Nations, the Community of Latin American and Caribbean States (CELAC), and the Pacific Alliance, and joined the OECD in 2010.

The cultural heritage of Chile consists, first, of its intangible heritage, composed of various cultural events and activities, such as visual arts, crafts, dances,

holidays, cuisine, games, music and traditions. Secondly, its tangible heritage consists of those buildings, objects, and sites of archaeological, architectural, traditional, artistic, ethnographic, folkloric, historical, religious, or technological significance scattered through Chilean territory. Among them, some are declared World Heritage Sites by UNESCO, in accordance with the provisions of the Convention concerning the Protection of World Cultural and Natural Heritage of 1972, ratified by Chile in 1980. These cultural sites are the Rapa Nui National Park (1995), the Churches of Chiloé (2000), the historical district of the port city of Valparaíso (2003), Humberstone and Santa Laura Saltpeter Works (2005) and the mining city Sewell (2006).

Sources: <https://en.wikipedia.org/wiki/Chile>
<https://www.chile.travel/en/about-chile/>

2. Committees of PME 48

2.1. The International Program Committee (IPC)

The International Program Committee of PME 48 in Santiago consists of:

The International Program Committee (IPC)			
Conference Co-Chairs	Patricio Felmer	Chile	Universidad de Chile
	David M. Gómez	Chile	Universidad de O'Higgins
Local members	Farzaneh Saadati	Chile	Universidad de Chile
	María Victoria Martínez	Chile	Universidad de O'Higgins
PME President	Wim Van Dooren	Belgium	KU Leuven
PME President-Elect	Oh Nam Kwon	Korea	Seoul National University
PME Trustees	Juan Manuel González-Forte	Spain	Universidad de Alicante
	Nicola Hodkowski	USA	Digital Promise



2.2. The Local Organizing Committee (LOC)

The Local Organizing Committee of PME 48 in Santiago consists of:

Local Organizing Committee (LOC)		
Conference Co-Chairs	Patricio Felmer	Universidad de Chile
	David M. Gómez	Universidad de O'Higgins
Pablo Dartnell, Armando Peri, Cristián Reyes, Danilka Castro, Farzaneh Saadati, Natalia Ruiz		Universidad de Chile
Claudia Cornejo, Eder Pinto, María Victoria Martínez, Valentina Giaconi		Universidad de O'Higgins
Paola Ramírez		Universidad Católica del Maule
Paulina Araya		Universidad Diego Portales
Valeria Randolph		Pontificia Universidad Católica de Valparaíso

3. PME Conference Secretariat

3.1. Secretariat Email Address

For any questions regarding PME 48, please contact us at:

pme48@cmm.uchile.cl

3.2. Conference Website

The conference website is <https://go.cmm.uchile.cl/pme48/>, where you can find up-to-date information on matters contained within this First Announcement.

General information about PME is also available on the website of the International Group for the Psychology of Mathematics Education (IGPME) at <https://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 2025 is the 48th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME 48).

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 objectives 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: <https://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 (International Committee)

Office	Person	Country/Region
President	Wim Van Dooren	Belgium
President-Elect	Oh Nam Kwon	Korea
Vice President Portfolio Group	Michal Ayalon	Israel
	Christina Krause	Austria
	Farzaneh Saadati	Chile
	Daniel Sommerhoff	Germany
	Ting-Ying Wang	Taiwan
Secretary Portfolio Group	Ban Heng Choy	Singapore
	Helena Johansson	Sweden
	Heather Lynn Johnson	USA
	Nicky Roberts	South Africa

	Wee Tiong Seah	Australia
Treasurer Portfolio Group	Juan Manuel González-Forte	Spain
	Jenni Ingram	United Kingdom
	Kotaro Komatsu	Japan
	Heidi Krzywacki	Finland
Policy Portfolio Group	Chiara Andrà	Italy
	Sean Chorney	Canada
	Nicola Hodkowski	USA
	Ofer Marmur	New Zealand
	Anselm Robert Strohmaier	Germany

4.4. IGPME Administrative Manager

Khemduth Singh Angateeah

Email: info@igpme.org

5. The Scientific Program

The theme of the 48th PME conference is:

Making sure that Mathematics Education Research reaches the classroom

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, a Publication 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)
- Publication Reports (PR)
- Colloquiums (CO)
- 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).

Restrictions

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.

Each submission should be made by the presenting author. You are allowed to submit as the presenting author of only one of the three following options: a Research Report (including those bundled within a Colloquium), a Publication Report, or an Oral Communication. In addition, you can be the presenting author of a Poster Presentation, a Research Forum, and a Working Group. There are no restrictions for being a co-author. Note that changing the presenting author after the review process is not allowed.

Each conference participant may act as organizer of at most one Colloquium and as coordinator of at most one Seminar. Note, however, that 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.

5.1. Plenary Sessions

5.1.1. Plenary Lectures

There will be four plenary lectures from invited speakers. Each lecturer will have 50-60 minutes for their presentation. There will be time left for questions and comments from the audience after all plenary sessions.

The plenary speakers for PME 48 are:

Soledad Estrella, *Pontificia Universidad Católica de Valparaíso, Chile.*

Jinfa Cai, *University of Delaware, United States of America.*

Judy Anderson, *The University of Sydney, Australia.*

Wim Van Dooren, *KU Leuven, Belgium.*

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:

Making sure that Mathematics Education Research reaches the classroom

The panel for PME 48 consists of the following researchers:

Chair: Tanya Evans, The University of Auckland, New Zealand.

Salomé Martínez, *Universidad de Chile, Chile.*

Anthony Essien, *University of the Witwatersrand, South Africa.*

Demetra Pitta-Pantazi, *University of Cyprus, Cyprus.*

Maitree Inprasitha, *Khon Kaen University, Thailand.*

The plenary panel will be held onsite at the venue.

5.2. Personal Presentations

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 Research Reports, Publication Reports and Oral Communications).

Restrictions on presenting authorship

You are allowed to be presenting author of only one of the three following options: a Research Report (including those bundled within a Colloquium), a Publication Report, or an Oral Communication. Further, you can be the presenting author of a Poster Presentation, a Research Forum, and a Working Group. Note that changing the presenting author after the review process is not allowed.

Each conference participant may act as organizer 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.

Contributions need not be limited to completed research. Ongoing studies may be submitted, provided that theoretical framework, preliminary results, and a discussion of these results appear in the text submitted. Proposals that are too similar to papers previously presented cannot be accepted. Proposals that represent new and significant contributions to research in the Psychology of Mathematics Education are especially encouraged.

Two types of papers are suitable for Research Reports:

1. Reports of empirical studies

Reports of empirical studies should cover, as a minimum, the following:

- a statement regarding the focus of the submitted paper;
- the study's theoretical framework;
- references to the related literature;

- a description of the research methods used; and
- a sample of the data and the results (additional data can be presented at the conference but some data ought to accompany the proposal).

2. Theoretical and philosophical essays

These should cover, as a minimum, the following:

- a statement regarding the focus of the submitted paper;
- a statement about the paper's theoretical or philosophical framework;
- references to related literature;
- a clearly articulated statement regarding the author's position on the paper's focus or theme; and
- implications for existing research in the respective area.

Submission procedure and restrictions

Research Report Proposals papers are to be written in English, with an abstract in English (and one in another language, if desired by the author) of at most 10 lines. The document may be up to 8 pages long and must be in line with the formatting guidelines provided by the conference organizers. The PME 48 template for Research Report proposals and guidelines for proposals are available at <https://go.cmm.uchile.cl/pme48/>.

For the peer review process, authors must submit a second, blinded version of their proposal. Papers that do not conform to the formatting guidelines, exceed the maximum number of pages, or which are not accompanied by a properly blinded version may be rejected without further consideration or peer review.

For details, please refer also to the Submission Checklist provided by IGPMPE at <http://www.igpme.org/annual-conference/session-types/research-report/submission-checklist-rr/>.

Because of length restrictions, papers should be concise, but should nevertheless contain all information necessary to inform both reviewers and other researchers. Proposals merely stating that results will be presented at the conference cannot be accepted. Authors are requested to refer to related papers that have been presented at previous PME conferences.

Please consider the following issues before you submit your proposal:

Proposals for Research Reports must be submitted via ConfTool (see the Submission page at the PME 48 website) by the presenting author no later than January 15, 2025. Submissions to ConfTool are only possible if the presenting author is registered in the ConfTool system and has paid the non-refundable conference deposit.

Two files must be submitted for each proposal:

- for publication, a word file that strictly follows the formatting guidelines
- for review, a “blinded version” as a PDF file in which it is not possible for a reviewer to infer the authors’ identities from the text, including the references.

Please note that no revisions are possible after submission. Each contribution is accepted or rejected in the form in which it was submitted. Every pre-registered person may submit up to one Research Report. The proposal should be submitted by the author who will deliver the presentation during the conference. Each conference participant may present at most one Oral Communication or one Publication Report or one Research Report, including the Research Reports that are part of Colloquia (please refer also to section 5.2.1 for Restrictions on number of contributions).

Reviewing procedure and criteria

The submitted proposals for the Research Reports are double-blind peer-reviewed by three PME members whose areas of expertise match the research categories chosen for the contribution. The International Program Committee (IPC) decides on the acceptance of proposals. Details of the review process are available at the IGPME webpage <https://www.igpme.org/annual-conference/further-information/reviewer-information-new/>.

Notification of the decision of the International Program Committee will be available after the second meeting of the International Program Committee in April. The proposal can be accepted or rejected, or the author is invited to resubmit the contribution as an Oral Communication or Poster Presentation.

Publication and presentation

Accepted papers will be included in the proceedings only if the full conference registration fee has been paid in time. The deadline for this payment is May 17, 2025. Details will be published in the Second Announcement.

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. They will introduce the presenters, make a comment regarding photographing, audio- and videotaping the session, monitor the timing of the session, and moderate the discussion.

For more information, please see the Guidelines for Preparing and Presenting Publication Report Contributions at https://www.igpme.org/wp-content/uploads/2024/09/PresentationGuidelinesRRandPR_2024.pdf and the Guidelines for Session Chairs at https://www.igpme.org/wp-content/uploads/2024/09/ChairingGuidelines_2024.pdf.

The publication and presentation should follow the PME formatting guidelines and must be in accordance with the PME publication ethics (<https://www.igpme.org/publications/publication-ethics/>).

5.2.3. Publication Report (PR)

Publication Reports are intended to present already submitted, accepted, or recently published empirical or theoretical research results on a topic that relates to the major goals of PME:

- to promote international contacts and exchange of scientific information in the field of mathematical education;
- to promote and stimulate interdisciplinary research in the aforesaid area; and
- to further a deeper and more correct understanding of the psychological and other aspects of teaching and learning mathematics and the implications thereof.

Publication Reports should state what is new in the research, how it builds on past research, and/or how it has developed new directions and pathways. Some level of critique must exist in all submissions and authors are encouraged to also go beyond what is already published wherever possible – so that the presentation is also of interest to those that are already aware of the published work.

Contributions need not be limited to completed research. They are similar in nature to Research Reports (RRs), however i) relate only to research that was submitted, accepted, or published in scientific journals, books, or conferences with published proceedings after January 15th of the previous conference year (i.e. for a submission as PR to a PME conference in 2025 only after January 15th 2024), and ii) will only be published as an abstract within the proceedings of PME to avoid self-plagiarism.

Proposals which are too similar to papers previously presented cannot be accepted. Proposals that represent new and significant contributions to research in the Psychology of Mathematics Education are especially encouraged.

PME Publication Reports are reviewed in a double-blind peer-review process involving three reviewers.

Two types of submissions are suitable for Publication Reports:

1. Reports of empirical studies

Reports of empirical studies should cover, at minimum, the following:

- a statement regarding the focus of the submitted paper;
- the study's theoretical framework;
- references to the related literature;
- a description of the research methods used; and
- a sample of the data and the results (additional data can be presented at the conference but some data ought to accompany the proposal).

2. Theoretical and philosophical essays

These should cover, at a minimum, the following:

- a statement regarding the focus of the submitted paper;
- a statement about the paper's theoretical or philosophical framework;
- references to related literature;

- a clearly articulated statement regarding the author's position on the paper's focus or theme; and
- implications for existing research in the respective area.

Submission Procedure

Publication Reports proposals are to be written in English. They consist of an abstract in English (and one in another language, if desired by the author) of at most 10 lines, which will be used for publication. They further consist of a paper as the basis for the peer review. Together, abstract and paper may be up to 8 pages long and must be in line with the formatting guidelines provided by the conference organizers. More information is available in the PME 48 template file for Publication Report proposals. Guidelines for proposals are available at <https://go.cmm.uchile.cl/pme48/>. For the peer review process, authors must submit a second, blinded version of their proposal. Papers that do not conform with the formatting guidelines, exceed the maximum number of pages or which are not accompanied by a properly blinded version may be rejected without further consideration or peer review.

Because of length restrictions, papers should be concise, but should nevertheless contain all information necessary to inform both reviewers and other researchers. Proposals merely stating that results will be presented at the conference cannot be accepted.

Authors are requested to refer to related papers that have been presented at previous PME conferences.

For the unblinded version, authors are requested to explicitly refer to the submitted, accepted, or published paper the Publication Report corresponds to and report it as a reference.

Please consider the following issues before you submit your proposal: <https://www.igpme.org/annual-conference/session-types/publication-reports/submission-checklist-for-publication-reports/>.

Proposals for Publication Reports must be submitted via ConfTool (see the Submission page at the PME 48 website) no later than January 15, 2025.

Submissions to ConfTool are only possible if the presenting author is registered in the ConfTool system and has paid the non-refundable conference deposit.

Two files must be submitted for each proposal:

- for publication, the word file that strictly follows the formatting guidelines
- for review, a “blinded version” as PDF file in which it is not possible for a reviewer to infer the authors’ identities from the text.

Please note that no revisions are possible after submission. Each contribution is accepted or rejected in the form in which it was submitted.

Restrictions

Every pre-registered person may submit up to one Publication Report. The proposal should be submitted by the author who will deliver the presentation during the conference.

Each conference participant may present at most one Oral Communication, one Publication Report, or one Research Report, including the Research Reports that are part of Colloquia.

Additionally, each conference participant may act as organizer of at most one Colloquium.

Reviewing

Before submitting and when reviewing Publication Report, please consider the Information on the review process and on review criteria (see <https://www.igpme.org/annual-conference/further-information/reviewer-information-new/>).

PME reviewers are selected from authors who have had Research Reports accepted in previous years. Participation in the PME is part of building a community. So if you have successfully presented at PME before, please expect to be invited to be a PME reviewer for future conferences. We value your ongoing contribution to building and supporting our PME community of excellent research.

Publication and presentation

The abstracts of accepted Publication Reports will be included in the proceedings only if the full conference registration fee has been paid in time. The deadline for this payment is May 17, 2025. Details will be published in the Second Announcement.

Each Publication 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 Publication Report session. He/she will introduce the presenter, make a comment regarding photographing, audio- and videotaping the session, monitor timing of the session, and moderate the discussion.

For more information, please see the Guidelines for Preparing and Presenting Publication Report Contributions at https://www.igpme.org/wp-content/uploads/2024/09/PresentationGuidelinesRRandPR_2024.pdf and the Guidelines for Session Chairs at https://www.igpme.org/wp-content/uploads/2024/09/ChairingGuidelines_2024.pdf.

The publication and presentation should follow the PME formatting guidelines and must be in accordance with the PME publication ethics (<https://www.igpme.org/publications/publication-ethics/>).

5.2.4. Colloquium (CO)

The goal of a Colloquium is to provide the opportunity to present a set of three Research Reports that are interrelated in a particular way (e.g. they are connected through related or contrasting theoretical stances, use identical instruments or methods, or focus on closely related research questions), and to initiate a discussion with the audience on the interrelated set.

A Colloquium proposal:

- consists of a set of exactly three research reports, to be presented by members from at least two different countries;
- includes, in addition, a one-page summary by an organizer (one person), indicating a specific pre-determined focus that is common to each research report; and
- involves a presentation of the three research reports, and a discussion with the audience that is initiated by the contribution of a discussant (one person, indicated in the author line of the one-page summary) who is appointed at submission.

The three Research Reports should be formatted and submitted via ConfTool using the guidelines provided for that presentation format (see above, 5.2.2 Research Report (RR)). Here, further information is provided only for the one-page summary which accompanies the three Research Reports.

The additional one-page summary is created using the same template or formatting guidelines as for Poster Presentations and Oral Communications, and is submitted by the Colloquium organizer via ConfTool. It provides the Colloquium title and the name of the organizer (preceded by "Organizer:") and discussant (preceded by: "Discussant:") in the author fields. Then, the text containing the focus and/or rationale for the Colloquium is provided. Note that no abstract is necessary for the Colloquium summary. Proposals that do not follow the formatting guidelines will not be included in the peer review process.

In the comments field in ConfTool, the authors and titles of the three research reports that comprise the Colloquium must be indicated.

Submissions to ConfTool are only allowed if the presenting author is registered in the ConfTool system and has paid the non-refundable conference deposit. Every pre-registered person may submit up to one Colloquium as organizer.

A Research Report in a Colloquium is counted identically to an individual Research Report for the existing restrictions on the number of contributions for a participant. Therefore, each conference participant may present at most one Oral Communication or one Publication Report or one Research Report, including the Research Reports that are part of Colloquia (please see also section 5.2.1 for Restrictions on number of contributions). Note that acting as a discussant of a Colloquium will not count as a contribution for the existing restrictions on conference contributions. Nevertheless, each participant can take the role of organizer or discussant in a Colloquium no more than once during one conference. Also, the organizer cannot be involved as (co-)author in more than one of the research reports in the Colloquium.

Submission and review process

Proposals for Colloquium presentations must be submitted no later than January 15, 2025 (also the deadline for Research Report proposals). The Research Reports that comprise a Colloquium proposal are reviewed in the usual way, using the same criteria. The IPC may, however, assign the set of three research reports to

the same reviewers, who are then informed that the Research Reports are part of a Colloquium proposal. If all three Research Reports are considered acceptable during the review process, the International Program Committee reviews the Colloquium proposal during the second meeting of the International Program Committee and decides upon its acceptance. If not all the three Research Reports are accepted or if the framing proposal to group them in a Colloquium is rejected by the IPC, those Research Reports that were accepted in the usual review process will enter the conference program as usual Research Reports. In case of rejection, encouragement for resubmission in a different format is possible for the single Research Reports.

Details of the review process are available at the IGPME webpage: <http://igpme.org/index.php/annual-conference/session-types/colloquium/>.

Presentation

A 90-minute timeslot will be devoted to each Colloquium. The organizer takes care of the chairing. The organizer first briefly introduces the Colloquium topic and then each Research Report is presented in turn. The presentation time for each report can be agreed with the organizer beforehand but will be between 15 and 20 minutes (depending on how much the papers have in common; some presentations can be shorter). Afterwards, the discussant initiates the discussion for approximately 10 minutes, which is followed by discussion with the audience.

5.2.5. Oral Communication (OC)

An Oral Communication proposal should describe which past research the study is built on; give a concise overview of the new results attained, and what the main implications of these results are.

Contributions need not be limited to completed research. Ongoing studies may be submitted, provided that theoretical framework, preliminary results, and a discussion of these results appear in the text submitted. Proposals which are too similar to papers previously presented cannot be accepted. Proposals that represent new and significant contributions to research in the Psychology of Mathematics Education are especially encouraged.

Submission procedure and restrictions

Proposals for Oral Communications are to be written in English without an abstract. The document may be up to one page long and must be in line with the formatting guidelines provided by the conference organizers. The PME 48 template for Oral Communications Proposals and guidelines for proposals are available at <https://go.cmm.uchile.cl/pme48/>. For the peer review process, authors must submit a second, blinded version of their proposal. Papers that do not conform to the formatting guidelines, exceed the maximum number of pages or which are not accompanied by a properly blinded version may be rejected without further consideration or peer review.

For details, please refer to the Submission Checklist provided by IGPME at <http://www.igpme.org/annual-conference/session-types/oral-communication/submission-checklist-oc-and-pp/>.

The preparation of a proposal for an Oral Communication is a challenging enterprise since the length is limited to one page only. Note that no abstract is necessary for an Oral Communication paper.

Please consider the following issues before you submit your proposal:

Proposals for Oral Communication must be submitted via ConfTool (see the Submission page at the PME 48 website) no later than March 1, 2025. Submissions to ConfTool are only possible if the presenting author is registered in the ConfTool system and has paid the non-refundable conference deposit. Two files must be submitted for each proposal:

- for publication, the word file that strictly follows the formatting guidelines
- for review, a “blinded version” as a PDF file in which it is not possible for a reviewer to infer the authors’ identities from the text, including the references.

Please note that no revisions are possible after submission. Each contribution is accepted or rejected in the form in which it was submitted. Every pre-registered person may submit up to one Oral Communication (please refer also to section 5.2.1 for Restrictions on number of contributions). The proposal should be submitted by the author who will deliver the presentation during the conference.

Reviewing procedure and criteria

Proposals for Oral Communications will be double-blind peer-reviewed by at least one member of the IPC (International Program committee). Notification of the decision of the International Program committee to accept or reject the Oral Communication proposal will be available after the second meeting of the International Program Committee in April 2025.

Details of the review process are available at the IGPME webpage: <http://igpme.org/index.php/annual-conference/session-types/oral-communication>.

Advice for authors on how to prepare an Oral Communication paper can be found on the PME website www.igpme.org/index.php/annual-conference/further-information/preparing-oc-and-pp.

Publication and presentation

Accepted papers will be included in the proceedings only if the full conference registration fee has been paid in time. The deadline for this payment is May 17, 2025. Details will be published in the Second Announcement.

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.

For OC sessions, the IC recommends one of two timing options. Some sessions may contain presentations that are closely related, while for other sessions, this may be less the case. Based on the chair's reading of the OC summaries, and after consultation of the three presenters before the start of the session, he/she can select the appropriate option.

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.

A chairperson will be assigned to each Oral Communication session. They will introduce the presenters, make a comment regarding photographing, audio- and videotaping the session, monitor timing of the session, and moderate the discussion according to one of the previously mentioned options.

The publication and presentation should follow the PME formatting guidelines and must be in accordance with the PME publication ethics (<https://www.igpme.org/publications/publication-ethics/>).

5.2.6. 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.

Contributions need not be limited to completed research. Ongoing studies may be submitted, provided that theoretical framework, preliminary results, and a discussion of these results appear in the text submitted. Proposals which are too similar to papers previously presented cannot be accepted. Proposals that represent new and significant contributions to research in the Psychology of Mathematics Education are especially encouraged.

Submission procedure and restrictions

Proposals for Poster Presentations are to be written in English. The document may be up to one page long and must be in line with the formatting guidelines provided by the conference organizers. The PME 48 template for Poster Presentation Proposals and guidelines for proposals are available at <https://go.cmm.uchile.cl/pme48/>. For the peer review process, authors must submit a second, blinded version of their proposal.

For details, please refer also to the Submission Checklist provided by IGPME at <http://www.igpme.org/annual-conference/session-types/oral-communication/submission-checklist-oc-and-pp/>.

Papers that do not conform to the formatting guidelines, exceed the maximum number of pages or which are not accompanied by a properly blinded version may be rejected without further consideration or peer review.

The preparation of a proposal for a Poster Presentation is a challenging enterprise since the space is limited to one page only. Note that no abstract is necessary for a Poster Presentation. Advice on how to prepare a Poster paper can be found on the PME website at <http://igpme.org/index.php/annual-conference/further-information/preparing-oc-and-pp>.

Please consider the following issues before you submit your proposal:

Proposals for Poster Presentations must be submitted via ConfTool (see the Submission page at the PME 48 website) no later than March 1, 2025. Submissions to ConfTool are only possible if the presenting author is registered in the ConfTool system and has paid the non-refundable conference deposit. Two files must be submitted for each proposal:

- for publication, the word file that strictly follows the formatting guidelines
- for review, a “blinded version” as a PDF file in which it is not possible for a reviewer to infer the authors’ identities from the text, including the references.

Please note that no revisions are possible after submission. Each contribution is accepted or rejected in the form in which it was submitted.

Every pre-registered person may submit up to one Poster Presentation (please refer also to section 5.2.1 for Restrictions on number of contributions). The proposal should be submitted by the author who will deliver the presentation during the conference.

Reviewing procedure and criteria

Proposals for Poster Presentations will be reviewed by at least one member of the IPC (International Program Committee). Notification of the decision of the International Program Committee to accept or reject the Poster Presentation

proposal will be available after the second meeting of the International Program Committee in April 2025.

Details of the review process are available at the IGPME webpage <http://igpme.org/index.php/annual-conference/session-types/poster-presentation/>.

Publication and presentation

Accepted proposals will be included in the proceedings only if the full conference registration fee has been paid in time. The deadline for this payment is May 17, 2025. Details are published in the Second Announcement.

60 minutes will be allocated to Poster Presentation sessions during the conference. Authors should be available at their poster in this session for discussion with conference participants. The authors should bring their posters printed in the format prescribed by the conference organizers in the Second Announcement.

Posters will be fully onsite. Nevertheless, all posters will be included as one-page pdf in the platform and an asynchronous chat will be available during the whole conference to communicate and discuss ideas with authors.

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.

All group activities (except RF proposals) are submitted for review through ConfTool, the online conference registration system (see the Submission page at the PME 48 website). ConfTool is configured to only accept submissions from presenters who are registered in the ConfTool system and have paid the non-refundable conference deposit. Please refer also to section 5.2.1 for Restrictions on number of contributions.

5.3.1. Research Forum (RF)

A Research Forum is a format of group presentation undertaken by a group of at least five researchers. The goal of a Research Forum is to provide PME members a comprehensive overview on the state of the art on a topic where substantial research has been undertaken in the last 5-10 years and that is of ongoing interest for the PME members. The researchers are expected to be experts with respect to the research topic and offer coherently structured activities during 2 slots of 90 minutes each, as well as a comprehensive contribution (30 pages) to the conference proceedings. See also <http://www.igpme.org/index.php/annual-conference/session-types/research-forum>.

A Research Forum is not supposed to be a collection of individual research presentations (see Colloquium format), but instead is meant to convey an overview of research, highlighting contemporary academic debates and perspectives in the field. In contrast to the Working Group format for evolving research topics, Research Forums are considered to mark significant advances with respect to established research topics.

A Research Forum:

- focuses on a topic which is of substantial interest within the work of PME;
- has a coherent structure that enables to attain a comprehensive overview of the topic;
- contrasts and integrates different research approaches through the consideration of multiple perspectives;
- includes structural opportunities for academic debate in interaction with the audience;
- provides the participants with the opportunity to prepare for the participation through the provision of reading materials prior to the activity;
- is developed by at least five researchers who are experts with respect to the research topic;
- covers 2 slots of 90 minutes each; and
- is represented in a comprehensive and coherent 30-page contribution in the conference proceedings.

Submission and Reviewing Process

Research Forums are highest-quality contributions to PME conferences and, as such, they are subject to a review process. In order to allow the researchers to adequately prepare the Research Forum, the deadline for initial proposals is January 19, 2025. A proposal should not exceed 5 pages, including references, and should be emailed to both pme48@cmm.uchile.cl and info@igpme.org.

The International Program Committee (IPC) pre-reviews the proposals. If necessary, the IPC provides feedback to the coordinators with the opportunity to revise the proposal until February 7, 2025. This revised proposal should also be sent by email. The IPC will then decide on the acceptance of the Research Forums. If accepted, the final contribution for the conference proceedings (30 pages) must be handed in by March 17, 2025, using ConfTool.

Proposals must include:

- the topic, title, and focus of the Research Forum;
- the names of all researchers contributing as presenting authors (minimum of 5);
- the name of the coordinator(s) (corresponding researcher);
- an outline of the theoretical background of the research topic;
- a detailed description of the proposed layout of the Research Forum, including thematic structuring, time structuring for 2 slots of 90 minutes each, as well as descriptions of the planned presentations and audience interactions;
- prior reading suggestions for attendants and details on accessibility (if needed, organizers may use the PME communication infrastructure at <http://www.igpme.org/>); and
- information on the planned structure of the contribution in the conference proceedings.

Presentation and Proceedings

Two 90-minute slots will be devoted to each Research Forum. The conference chairs are asked to schedule the slots subsequent whenever possible, although this cannot be guaranteed.

Please note the following requirements related to the presentation format at the conference:

- The coordinator(s) as well as all the persons listed as presenting authors of a Research Forum need to be registered conference participants and need to participate to the research forum in person.
- If a coordinator or a presenting author of a Research Forum has to cancel last minute – for whatever reasons – their presentation needs to either be presented locally by (i) co-authors of the Research Forum, (ii) co-authors of the presented research that are registered participants of the conference, or (iii) cancelled. That is, for coordinators and presenting authors of a Research Forum there is no option for digital participation.
- If the coordinators of the Research Forum plan to include additional persons digitally in the Research Forum, which are not listed as co-authors of Research Forum, this can be done either in a hybrid mode or via a pre-recorded video under the following conditions:
 - The digital participation is less than five minutes per person (i.e., a person giving a short reaction or input).
 - The digital participation is announced up front in the submission of the research forum together with an indication why physical attendance is not possible and why no other (physically present) person could take this part.
 - If a hybrid participation is planned, a prerecorded video is necessary as a backup in case of technical issues.

The decision regarding digital participation will be made by the IPC.

The proposal and conference proceeding contribution should follow the PME formatting guidelines. The final contribution for the conference proceedings should not exceed 30 pages, including references. For accepted papers to be included in the proceedings, all coordinators and presenting authors to the Research Forum have to make a full registration by May 17, 2025, at the latest.

5.3.2. Working Group (WG)

A Working Group is a format of group presentation undertaken by a group of at least two researchers. The aim of a Working Group 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). See also <http://www.igpme.org/index.php/annual-conference/session-types/working-group>.

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.

A Working Group needs a clear goal (outcome) and a strategy to reach this goal in collaboration with the participants. It must provide opportunities for contributions of the participants that are aligned with the goal (e.g. share materials, work collaboratively on texts, 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 evolving.

A Working Group:

- focuses on a research topic of substantial interest within the PME community;
- has a clear goal and a strategy to reach this goal in collaboration with the participants;
- includes structural opportunities for contributions by the participants to reach the goal;
- involves only a minimum of planned presentations to stimulate the specific collaboration or exchange;
- is provided by at least two researchers who are actively working within the research topic;
- covers 2 slots of 90 minutes each;
- is represented via the 2-page proposal in the conference proceedings; and
- will be portrayed in respect to its outcomes, after the conference, in a report to be included in the following PME newsletter.

Submission and Reviewing Process

Working Groups are subject to review in order to ensure the fit to the goals of PME as an organization. The deadline for proposals (2 pages) is March 1st via ConfTool. The International Program Committee (IPC) reviews the proposals for Working Groups and decides on their acceptance during the Second IPC meeting (April).

Proposals must include:

- the topic, title, goal, and strategy to reach the goal of the Working Group;
- the names of all researchers contributing (minimum of 2);
- the name of the coordinator (corresponding researcher);
- an outline of the theoretical background of the research topic;
- an explicit statement on the way the participants are expected to engage in collaboration and/or exchange in the Working Group;
- an explicit statement if the Working Group is a new initiative or a follow up on previous PME activities, as well as an indication of tentative follow up activities at future PME conferences (further WGs, RRs, Colloquium, etc.);
- a detailed description of the proposed layout of the Working Group, including
 - thematic structuring, time structuring for 2 slots of 90 minutes each, as well as descriptions of planned presentations and participants' exchange/collaboration activities;
 - opportunities to contribute by participants and details on the organizational process (if needed, organizers may use the PME communication infrastructure at <http://www.igpme.org/> for collaboration).

Presentation and Proceedings

Two 90-minute slots will be devoted to each Working Group. The conference chairs are asked to schedule the slots subsequent whenever possible, although this cannot be guaranteed. All Working Groups will take place on site during the conference.

The proposals should follow the PME formatting guidelines. The total length of the proposal is 2 pages, including references. If accepted, this proposal will be

included in the conference proceedings. For accepted papers to be included in the proceedings, all researchers contributing to the Working Group have to make a full registration May 17, 2025, at the latest.

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 2025. This report may be included in the following PME Newsletter.

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.

Submission and review process

A SE application must include:

- name of a coordinator;
- information about the topic and the goals of the SE as well as descriptions of specific tasks or activities to be carried out in the sessions; and
- a short outline about the goals and/or activities planned for each of the two 90 minutes' sessions.

Two-page proposals for a SE must be submitted not later than March 1, 2025 via ConfTool. The International Program Committee reviews and selects SEs during the second IPC meeting. Notification of the decision of the IPC to accept or reject a proposal for SE will be communicated in April 2025.

Presentation and Proceedings

The two-page proposals of accepted Seminars will be included in the Conference Proceedings. 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 2025.

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 Publication 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 90-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 2025 ERD will be held on the afternoon of Sunday July 27 and the morning of Monday July 28 at the Faculty of Physical and Mathematical Sciences of Universidad de Chile (on site). The day is being organized by Paola Ramírez (LOC member, Chile) 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 will 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. Updated and more detailed information will be posted on the conference website: <https://go.cmm.uchile.cl/pme48/>.

6. PME Pre-Submission Support

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), Alf.Coles@bristol.ac.uk

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, but no later

than December 8, 2024. 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 Pre-Registration

Pre-registration for PME 48 begins in December 2024. It will be carried out online using the ConfTool conference registration system, see the Registration page at <https://go.cmm.uchile.cl/pme48/>. In order to register 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 us at: pme48@cmm.uchile.cl

7.2. IGPME Membership Only

If you have been an IGPME member in the past, but will not be attending PME 48, or you want to become a new IGPME member who will not attend PME 48, 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 the payment of the membership fee, please contact at: pme48@cmm.uchile.cl

7.3. Registration Fees

The upper limit for the total registration fee will be around the equivalent of EUR 460 in Chilean currency, according to PME regulations. The exact amount depends on the number of participants and external financial support. The exact amount will be decided by the International Program Committee in April 2025, just prior to the publication of the Second Announcement.

7.3.1. Conference Deposit

The non-refundable conference deposit is 115,000 Chilean pesos (approximately EUR 110) if you choose to contribute EUR 30 to the Skemp Fund (see section 7.5) or 95,000 Chilean pesos (approximately EUR 90) if you choose to contribute EUR 10, the minimum donation amount. For those who attend the conference, the equivalent to EUR 90 will be deducted from the total conference registration fee.

The conference deposit covers:

- PME memberships for the year 2025 of EUR 50;
- a compulsory Skemp Fund donation of at least EUR 10;
- access to electronic conference proceedings; and
- administrative costs related to the handling of the proposals.

7.3.2. Total Registration Fee

The total registration fee covers:

- PME membership for the year 2025 of EUR 50;
- a compulsory Skemp Fund donation of at least EUR 10;
- a set of printed proceedings (see below) and access to an electronic version of the proceedings;
- 4 lunches and 8 coffee breaks;
- opening reception;
- participation in one of the conference excursions;
- conference dinner; and
- the costs of venue, administrative work, and facilities needed for the organization of the conference.

Regarding the conference proceedings, you will receive access to the electronic version. You have the option to choose if, in addition, you want to receive a printed copy. Be aware that this option implies an extra payment. You can request to receive printed proceedings during the final registration process via the ConfTool system.

The extra amount to be paid for printed proceedings depends on several factors, such as the number of pages and volumes, and will be announced on the conference website and in the Second Announcement in April 2025.

7.3.3. 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 around the equivalent of EUR 150 in Chilean currency per person depending on the anticipated number of participants. The exact amount will be decided by the International Program Committee in April 2025, just prior to the publication of the Second Announcement.

The fee covers:

- opening reception;
- participation in one of the conference excursions;
- conference dinner; and
- some of the administrative work involved outside of the scientific program.

If you have any questions, please contact at: pme48@cmm.uchile.cl

7.3.4. Late Registration Fees

An additional charge of the equivalent of EUR 70 in Chilean currency will be applied for registrations made after May 17, 2025.

7.4. *Payment Options*

All participants should do their payment by credit card payment. After confirming your pre-registration, you will find the information to make the credit card payment.

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 recommended donation of EUR 30 is set as the default donation in ConfTool at pre-registration to support the average cost of the grants awarded each year. The compulsory minimum donation of EUR 10 remains for those members for whom a donation of EUR 30 could be difficult and is included in the pre-registration fee. In addition, the PME 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.

7.6. Richard Skemp Memorial Support Fund

The Richard Skemp Memorial Support Fund was established to provide financial support for prospective PME participants from under-represented countries or countries in which insufficient financial support is available and who do not have personal means for self-financing in order to allow them to attend the conference.

The spirit of the fund is to make participation possible for those who might not be able to attend for financial reasons. 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 making decisions on the applications.

The funding amount spent each year should consist of the donations from the same year and some of the Skemp reserve fund. The PME International Committee aims to maintain the Skemp fund in order to ensure support in years where fewer or smaller donations are received. Donations to the Skemp Fund other than those from conference participants are much welcome.

7.6.1. Eligibility

Applicants for a grant from the Fund will be considered from those who are (or who become) members of PME and who submit a proposal to be the presenting author of one of the following:

- an Oral Communication (OC),
- a Poster Presentation (PP),
- a Research Report (RR), including those in a Colloquium,
- a Publication Report (PR),
- a presentation at a Research Forum (RF) on invitation of its coordinators, or
- coordination of a Working Group (WG) or a RF.

In general,

- only one of the presenting authors of a particular proposal will be eligible to apply for a grant; and
- those who have already received a grant on a prior occasion will not normally receive an additional grant.

For more information, please consult the application form (see below).

7.6.2. How to apply

Applications for a Skemp Fund grant should be made at the same time as proposals are submitted for presentation at the conference. Only applicants who have had their presentation proposal accepted by the IPC are eligible for a grant. No applications will be considered after March 1, 2025.

You can find the application form on the IGPME webpage (<https://www.igpme.org/annual-conference/skemp-fund-support/>) and the PME 48 website (<https://go.cmm.uchile.cl/pme48>).

When you have submitted your application form, you will receive a confirmative e-mail that it has reached us, and that your application will be considered. If you do not receive such an e-mail, please contact the Administrative Manager of PME (info@igpme.org).

Please note that you will have to become a member of PME in order to apply for a Skemp Fund grant; this is done when you register for the conference. When registering for the conference, you are required to pay the pre-registration fee: this is the conference deposit plus the membership fee. If the pre-registration fee has not been paid, an applicant's proposal will not be considered. The membership fee is not refundable.

Grants will normally cover conference fees (excluding membership) and may also contribute towards the costs of accommodation, visas, and travel depending on the decision of the Skemp Fund committee (recent awards have ranged between 500 Euros and 2500 Euros).

Before applying for the Skemp grant, you need to be aware that some or all of your travel costs will have to be paid initially by yourself or your institution. You will be reimbursed at the conference site up to a maximum of the total grant amount awarded, once you have justified the expenses incurred as a result of attending the conference at the location of the conference. If your expenses have been less than the total grant amount awarded, you will be reimbursed the amount paid. If your expenses are higher than the total agreed grant amount awarded, you will be reimbursed the total amount awarded as the grant.

For assistance, you can address the IGPME Administrative manager:

Khemduth Singh Angateeah

Email: info@igpme.org

7.6.3. Administration of the Skemp fund

The Richard Skemp Memorial Support Fund Committee will meet during the second meeting of the International Programme Committee (March 2025) and will make its recommendations once decisions on the acceptance or rejection of proposals have been completed.

The PME Administrative Manager will contact applicants to inform them about the decision on their grant application and the maximum grant amount awarded. This will usually take place before the end of April each year. Please note that grants cannot be carried over to future conferences. A new application will have to be made for the new conference.

7.6.4. Criteria on which a grant may be awarded

A. Conditions for support to be given

1. Applicants need to reside in a country where financial support is difficult to obtain. Some explanation or justification is required. If the applicant is studying in a more affluent country, which could be normally expected to provide support, this will also be taken into account.
2. The applicant's institution is unable to provide sufficient funding for the conference.
3. The applicant is unable to provide funding using personal means and declares that it is not possible to cover the costs from other sources.
4. The applicant has pre-registered and paid the conference deposit.
5. The applicant has submitted a proposal for a contribution of one of the kinds listed above.
6. If the proposal has more than one author, only the presenting author can apply for funding.
7. The proposal is accepted.

B. Priorities

1. Applicants coming from a country which has had few PME participants from that country recently would be prioritized, provided all other conditions in A are met.
2. Newcomers and early-career researchers/lecturers are prioritized over members who have participated in prior conferences or who are established researchers/lecturers.
3. Applicants who have an RR accepted are prioritized over other applicants.
4. Contributions that are considered outstanding by the reviewers, the IPC and/or the Skemp Fund selection committee are prioritized.
5. Under normal circumstances, an applicant will be eligible for a grant from the Skemp Fund only for one PME conference; in rare cases funding might be given twice – for example, if the applicant can demonstrate that an outcome of the first grant was a substantial development of the work presented at the first participation.

C. Funding amount

1. The number and sizes of grants made in any year will depend on the amount of money available to the Skemp Fund in that particular year as well as the number and size of applications the same year.
2. Grants will normally only cover conference fees (excluding membership) but may also contribute to accommodation and/or visa and travel expenses in exceptional circumstances, depending on the decision of the Skemp Fund Committee. The maximum possible amount will be the conference fee (excluding the conference deposit), travel, visa and accommodation in student accommodation or hostel or similar low-cost accommodation.
3. The funding must be used for the conference for which it is given. Applicants need to justify the expenses by providing relevant documents, such as travel and accommodation receipts. Only the amounts on these documents will be reimbursed up to the grant amount awarded.
4. The applicant will need to raise all funding temporarily as the grant from the Skemp fund will be paid at the location of the conference. In justified cases, the conference deposit can be reimbursed to help pay for travel expenses before travel.

7.6.5. Skemp Fund ambassadors

PME wishes to attract more participants from under-represented countries, especially those where funding is difficult to obtain. We ask our Skemp Fund recipients to become 'ambassadors' for PME: to make PME, including the possibility of Skemp Fund support, better known in such countries. If you are requesting a grant, please tell us briefly how you might use your personal knowledge of possible new members in underrepresented countries and non-affluent areas if you are a successful recipient.

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 pme48@cmm.uchile.cl. 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 14, 2025, 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. $\text{Refund} = (\text{registration fee} - \text{conference deposit}) - \text{bank fees}$.

Cancellation after June 14, 2025 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 14, 2025, the refund will be the amount paid minus the fees that the bank charges for transferring the refund will be refunded. $\text{Refund} = \text{accompanying person fee} - \text{bank fees}$.

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. Deadlines for PME 48 (2025)

8.1. Scientific Program

For all accepted proposals, the deadline of final registration is May 17, 2025. 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.

8.1.1. Personal Presentations

Research Report	Pre-Registration, Proposals and Payment of Conference Deposit	January 15, 2025
Publication Report	Pre-Registration, Proposals and Payment of Conference Deposit	January 15, 2025
Colloquium	Pre-Registration, Proposals and Payment of Conference Deposit	January 15, 2025
Oral Communication	Pre-Registration, Proposals and Payment of Conference Deposit	March 1, 2025
Poster Presentation	Pre-Registration, Proposals and Payment of Conference Deposit	March 1, 2025

8.1.2. Group Activities

Research Forum	Proposals	January 19, 2025
	Pre-Registration, revised Proposals and Payment of Conference Deposit	February 7, 2025
	Full Papers	March 17, 2025



Working Group	Pre-Registration, revised Proposals and Payment of Conference Deposit	March 1, 2025
Seminar	Pre-Registration, revised Proposals and Payment of Conference Deposit	March 1, 2025

8.2. Registration

Pre-registration	Necessary to submit proposals and for proposals to be reviewed	See above
Full registration	Necessary for inclusion of all types of papers in the PME proceedings	May 17, 2025
Late registration	Additional charge of around EUR 70	After May 17, 2025

8.3. Deadlines for PME 49 (2026) in Helsinki, Finland

Research Forums for PME 49 to be held in Helsinki, Finland should be submitted before December 1, 2025, to the Administrative Manager (info@igpme.org).

The deadline for PME Pre-Submission Support for contributions to PME 49 in Helsinki, Finland is December 1, 2025. Please refer to www.igpme.org/index.php/annual-conference/pre-submission-support/ for further information.

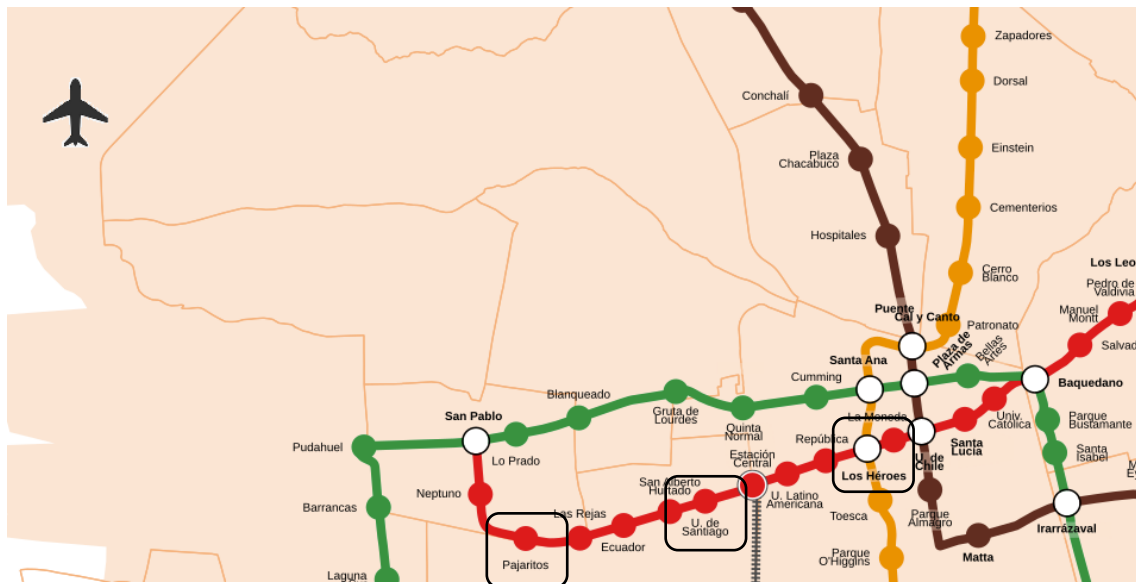
9. Travel Information

9.1. Getting to Santiago

You can reach Santiago via plane or by bus from neighbouring countries.

Santiago Airport (SCL), officially known as Arturo Merino Benitez International Airport, receives direct flights from 63 different airports in 19 countries, including 17 domestic flights. It is the largest airport in Chile, with at least one flight arriving at Santiago Airport every 8 minutes.

To check flights to SCL, go to the section “How to get to Chile?” at <https://www.chile.travel/en/about-chile/>.



From the Airport to Santiago Metro Network

9.1.1. TurBus and CentroPuerto Buses from SCL to the city

Two companies, TurBus (<https://www.turbus.cl/traslados>) and CentroPuerto (<https://www.centropuerto.cl/>), offer reliable and affordable express and direct shuttle service between Santiago Airport and the Santiago Metro Network.

TurBus takes you to Pajaritos Metro Station or to Universidad de Santiago Metro Station (both in Line 1, the red one). CentroPuerto takes you to Pajaritos Metro Station or to Los Héroes Metro Station (both in Line 1).

General Public Fare: CLP 2,000 One Way

9.1.2. Public Transportation Buses from SCL to the city

Bus 555 is part of the Santiago public transportation network and runs from Santiago Airport to Pajaritos Metro Station (Line 1, the red one). To use public buses, you must purchase a Bip! card. You can buy this card in the baggage claim area of the international terminal. No payments are accepted on the buses.

Approximately CLP 800 per person.

9.1.3. Getting a taxi



Approximately CLP 20,000 to CLP 30,000 - about 30 minutes.

Taxi and shuttle service counters are located after the baggage pick up and before the exit to the Airport's open areas. You may pay on the counters by cash or credit card. No payments are made in the vehicle. The journey between the airport and the central city can take considerably longer during peak traffic periods.

If you're traveling to the Airport by taxi, make sure you allow plenty of time.

Please do not use unofficial taxi/shuttle vehicle services, as you may risk excessive charges.

<https://www.nuevopudahuel.cl/servicios/taxi-turismo-oficial>

9.1.4. Car rental

Major rental car companies operate from the Airport. Bookings are strongly recommended.

9.2. Getting to the Conference Venue

Once you are in Santiago central area, there are several ways to arrive at the Faculty of Physical and Mathematical Sciences (FCFM), located in the Beaucheff Campus of Universidad de Chile, where the conference will take place. The

Santiago public transportation network includes metro and buses. To use public buses and metro, you must purchase a Bip! card. You can buy this card in the baggage claim area of the international terminal or in any metro station. No payments are accepted on the buses.

Campus address: Beaucheff 850, Santiago.

Location in Google Maps: <https://maps.app.goo.gl/c4D1pmyDqpt9BSbK8>

9.2.1. By metro

You can reach FCFM with a 12-minute walk from Parque O'Higgins Metro Station or from Toesca Metro Station, both located in L2 (yellow line), or an 18-minute walk from República Metro Station (L1, red line).

Metro stations are open from 6:00 to 23:00 on working days, from 6:30 to 23:00 on Saturdays, and from 8:00 to 23:00 on Sundays. Metro fares range from CLP 690 to CLP 850, depending on the time of the day.



In peak times of working days (6:00-9:00 and 18:00-21:00), lines L2 (yellow) and L5 (green) use a differentiated route system, in which trains stop only at some stations. Red-route trains stop only at red-route and mixed-route stations, and similarly for green-route trains. The most relevant ones regarding arrival and departure from FCFM are the L2 stations Parque O'Higgins (red route), Toesca (green route), and Los Héroes (mixed route).

9.2.2. By bus

Santiago buses run to FCFM from several locations. You can plan your trip and track the locations of buses arriving to a given stop by using Google Maps or the app *Red Metropolitana de Movilidad*, available for Android, iPhone, and Huawei phones. Links to download the app can be found at <https://www.red.cl/acerca-de-red/app-red/>. Internet connection is not needed to use the app.



You can avoid walking from Parque O'Higgins Metro Station to FCFM by taking buses 506, 506e, 506v, 507, and 509 at stop PA450, across the street from the metro station.

9.2.3. By taxi or rideshare

You can get to FCFM using taxis or rideshare services such as Uber and Cabify. You can ask to be taken to the exact address (Beaucheff 850, Santiago) or to the nearest intersection (Blanco Encalada & Beaucheff).

9.2.4. By car

There are limited (paid) car parks outside the campus - these are on a first come, first serve basis.

9.3. About Chile

9.3.1. Language

Spoken by 99,3% of the population, Chile has Spanish as its *de facto* official language. Only a small proportion (about 10%) of the population speaks English.

9.3.2. Passport and visa

Nationals from 96 countries need not have a visa to enter Chile for up to 90 days (check the PDF downloadable at <https://www.consulado.gob.cl/cuadro-de-visas->

[y-aranceles-de-chile](https://www.consulado.gob.cl/servicios/e-visa-para-australia)). Nationals from Australia need an e-visa (<https://www.consulado.gob.cl/servicios/e-visa-para-australia>).

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

PME 48 cannot be held responsible for any matters related to obtaining visas.

9.3.3. Letter of Invitation

Delegates requiring a letter of invitation in order to attend the conference may write to the local organizing committee at pme48@cmm.uchile.cl 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.

9.3.4. Currency

The currency in Chile is the Chilean Peso (CLP/\$).

9.3.5. Power Plugs

Chilean power plug types are C and L (<https://www.power-plugs-sockets.com/chile/>), which are those that have two or three round pins arranged in a line. Chile operates on a 220V supply voltage and 50Hz. If your appliance's plug does not match the shape of these sockets, you will need a travel adapter in order to plug it in.

9.3.6. Telephone Codes and Useful Numbers

The Chilean country code +56 will allow you to call Chile from another country. The code 56 is followed by an area code. The Santiago area code is 2 (+56 2xxxxxxx), whereas the area code for mobile phones is 9 (+56 9xxxxxxx).

Where to call in case of emergency? Ambulance: 131. Firemen: 132. Police: 133.



9.3.7. Weather

July is winter in Chile; the temperature settles at its coolest point, an average of 10°C (50°F). The average high temperature for the month is 16°C (61°F) and the average low temperature for the month is 4°C (39°F), with the overnight temperatures often being brisk and requiring a jacket. July is one of the months receiving more precipitation of the year, although it varies strongly from year to year depending on El Niño and La Niña events.

9.3.8. Liability and Insurance

Please check the validity of your insurance before traveling 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.

9.3.9. Accommodation

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

We suggest you stay close to the city center, in the Santiago or Providencia municipalities, and enjoy your time visiting the city.

Information about accommodation will be available on the conference webpage: <https://go.cmm.uchile.cl/pme48>.



10. Errata

Date	Section	Modification
27/12/2024	7.3.2	“Participation in one of the conference excursions” was added to the list of items included in the total registration fee.
	7.3.3	“Participation in one of the conference excursions” was added to the list of items included in the accompanying person fee.