PME42
42nd Annual Meeting
July 3-8, 2018
Umeå, Sweden

Delight in Mathematics Education

42nd Annual Meeting of the International Group for the Psychology of Mathematics Education (PME 42)

3-8 July, 2018
Umeå, Sweden

www.pme42.se

First Announcement

UMEÅ UNIVERSITY
The Umeå River, Umeälven.

The Northern Light.

Umeå University Campus from above.
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1. Welcome

The Local Organizing Committee of the 42nd Annual Meeting of the International Group for the Psychology of Mathematics Education is pleased to invite you to attend the conference to be held in Umeå, Sweden from July 3 to July 8, 2018.

The theme of the conference is “Delight in Mathematics Education” and it refers to the joy, pleasure, and beauty in both mathematics and mathematics education. It includes issues on how both teaching and learning mathematics can be fun, meaningful, and inspiring, for teachers as well as for students. The theme also encompasses how mathematics and mathematics education can connect to individual students and teachers, for example, through aspects of motivation, creativity, and usefulness, and how individuals can see themselves as able in mathematics.

Our goal is to make the 2018 meeting scientifically and socially successful. We hope that your visit and stay in Umeå and Sweden will be exciting, informative, and inspiring. We look forward to welcoming you to the conference in July, 2018.

1.1 Your host

PME 42 in 2018 is being hosted by Umeå University, Sweden. Umeå University (umu.se/english) was founded in 1965 and is Sweden’s fifth oldest university. Today, the university has a strong international presence with students, teachers and researchers from all over the world. The university has developed interaction between research, education, collaboration and innovation that challenges boundaries and plays a crucial role in the region’s development.

Umeå University Campus in summer.

Umeå Mathematics Education Research Centre (www.umerc.umu.se) is an interdisciplinary network of researchers and research students engaged in mathematics education. The network has about 25 participants and is one of the largest research groups in mathematics education in Scandinavia. UMERC focuses on applied research, aiming at supporting the development of learning,
teaching, textbooks, tests, steering documents and so on. The participants conduct research in many areas within mathematics education, for example, formative assessment, reasoning, communication, special education, and beauty. UMERC creates a productive and inspiring environment for high quality research through seminar series, international guests, and cooperation with schoolteachers at all levels, local municipalities, the Swedish National Centre for Mathematics Education, the Swedish National Agency for Education, and the international research society.

1.2 About Umeå

Welcome to Umeå, Sweden’s most dynamic and alluring convention city, and the city of birches, which is visible in the conference logo. Umeå is located approximately 600 kilometres north of the Swedish capital, Stockholm, and has around 120,000 inhabitants. Umeå has all the charm of a small town with all the comforts and conveniences of a big city. Compactness is one of Umeå’s many strong points, and the closeness creates excellent conditions for successful and effective meetings. Umeå is a safe, secure and environmentally friendly city that has several times been named Sweden’s best city to live, work and convene in.

The light in the conference theme also alludes to the truly magical summertime in the north of Sweden. The lovely bright summer nights, when the sun barely sets and it’s just as light in the late evening as it is in the middle of the day, make a truly spectacular experience that no visitor will ever forget.

Umeå from above.

More information about Umeå: www.visitumea.se/en/
1.3 About Sweden

Sweden is a Scandinavian nation with thousands of coastal islands and inland lakes, along with vast boreal forests and glaciated mountains. Its principal cities, eastern capital Stockholm and southwestern Gothenburg and Malmö, are all coastal. Stockholm is built on 14 islands.

Sweden is the third-largest country in the European Union by area, with a total population of 10.0 million. Sweden consequently has a low population density of 22 inhabitants per square kilometre (57/sq mi), with the highest concentration in the southern half of the country. Approximately 85% of the population live in urban areas.

Sweden can offer everything from city to wilderness. The islands of the west coast, the archipelago of Stockholm, the border to the continent in Malmö, the medieval city of Visby, the wilderness of the north, the mountains of the west, the aurora borealis (northern lights), ABBA and Björn Borg.

More information about Sweden: www.visitsweden.com

2. Committees of PME 42

2.1 The International Program Committee (IPC)

The International Program Committee of PME 42 in Umeå consists of:

- Ewa Bergqvist LOC, co-chair Umeå University (Sweden)
- Magnus Österholm LOC, co-chair Umeå University (Sweden)
- Carina Granberg LOC Umeå University (Sweden)
- Lovisa Sumpter LOC/PME Stockholm University (Sweden)
- Peter Liljedahl PME Simon Fraser University (Canada)
- Laurinda Brown PME University of Bristol (United Kingdom)
- Stanislaw Schukajlow-Wasjutinski PME University of Münster (Germany)
- Hamsa Venkatakrishnan PME University of the Witwatersrand (South Africa)

2.2 The Local Organizing Committee (LOC)

The Local Organizing Committee of PME 42 in Umeå consists of:

- Tomas Bergqvist, Catarina Rudälv, Ewa Bergqvist, Carina Granberg, Magnus Österholm, Johan Lithner, and Olof Johansson from Umeå University, Sweden, and
- Lovisa Sumpter from Stockholm University, Sweden.

In addition, Umeå Congress is a congress bureau involved in the organizing of PME 42.

3. PME Conference Secretariat

3.1 Secretariat Email Address

For any questions regarding PME 42, please contact Elisabet Norlin at the conference secretariat: elisabet@umea-congress.se
3.2 Conference Website

The conference website is www.pme42.se where you can find up-to-date information on matters contained within this First Announcement. See also the conference page on Facebook www.facebook.com/pme42/ where news and reminders are posted. General information about PME is also available on the website of the International Group for the Psychology of Mathematics Education (IGPME) at www.igpme.org.

4. About IGPME

The International Group for the Psychology of Mathematics Education (IGPME) is an autonomous body, governed as provided for in its constitution. It is an official subgroup of the International Commission for Mathematical Instruction (ICMI) and came into existence at the Third International Congress on Mathematics Education (ICME-3) held in Karlsruhe, Germany in 1976. The conference in 2018 is the 42nd annual meeting of the International Group for the Psychology of Mathematics Education (PME 42).

4.1 The Constitution of IGPME

The constitution of PME was adopted at 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 and on July 21, 2012. The major goals of the group are:

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

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

4.2 Honorary Members of IGPME

Efraim Fischbein (deceased), Hans Freudenthal (deceased), and Joop Van Dormolen (retired).
4.3 International Committee of IGPME (IC)

Peter Liljedahl (President, Canada)
David M. Gomez (Vice-President, Chile)
Einat Heyd-Metzuyanim (Secretary, Israel)
Cris Edmonds-Wathen (Treasurer, Australia)
Richard Barwell (Canada)
Kim Beswick (Australia)
Laurinda Brown (United Kingdom)
Yiming Cao (China)
Man Ching (Australia)
Ester Chan (Hongkong SAR)
Csaba Csíkos (Hungary)
Mellony Graven (South Africa)
Berinderjeet Kaur (Singapore)
Maria Mellone (Italy)
Miguel Ribeiro (Brazil)
Stanislaw Schukajlow-Wasjutinski (Germany)
Lovisa Sumpter (Sweden)
Kai-Lin Yang (Taiwan)

4.4 IGPME Administrative Manager

Bettina Rösken-Winter
Humboldt Universität, Berlin
Postal address: Unter den Linden 6
D-10099 Berlin, Germany
Tel: +49 (0) 30 2093-5857
Email: info@igpme.org
5. The Scientific Program

The theme of the 42nd PME conference is:

**Delight in Mathematics Education**

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

**Plenary sessions (see Section 5.1)**

- Plenary Lectures
- Plenary Panel

**Personal presentations (see Section 5.2)**

- Research Reports (RR)
- Colloquia (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).

### 5.1 Plenary Sessions

#### 5.1.1 Plenary Lectures

There will be four plenary addresses from invited speakers, each lasting 60 minutes. A reactor will be present at some of the plenary sessions to comment on the presentations. The plenary speakers for PME42 are:

- Markku Hannula, University of Helsinki, Finland.
- Mogens Niss, Roskilde University, Denmark.
- Mamokgethi Phakeng, University of Cape Town, South Africa.
- Natalie Sinclair, Simon Fraser University, Canada.
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. The panel for PME42 consists of the following researchers:

- Márcia Pinto, Federal University of Rio de Janeiro, Brazil (chair)
- Wim Van Dooren, KU Leuven, Belgium
- Francesca Morselli, University of Genoa, Italy
- Wee Tiong Seah, The University of Melbourne, Australia
- Qiao-Ping Zhang, The Chinese University of Hong Kong, Hong Kong SAR

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.

Restrictions on presenting authorship

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

Restrictions on (co-)authorship

Each conference participant may have his/her name on not more than four (4) conference contributions in total. Additionally, each conference participant may act as organizer of at most one Colloquium and as coordinator of at most one Seminar.

5.2.2 Research Reports

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 42 template for Research Report Proposals and guidelines for proposals are available at [www.pme42.se](http://www.pme42.se). 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.


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 ([www.conftool.com/pme42](http://www.conftool.com/pme42)) by the presenting author no later than January 15, 2018. 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 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 http://igpme.org/index.php/annual-conference/session-types/research-report/

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 in the form of 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 15, 2018. Details are 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. He/she will introduce the presenters, make a comment regarding photographing, audio- and videotaping the session, monitor timing of the session, and moderate the discussion.

5.2.3 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 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, 2018 (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:  

**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.

**5.2.4 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 42 template for Oral Communications Proposals and guidelines for proposals are available at [www.pme42.se](http://www.pme42.se). 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.


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 ([www.conftool.com/pme42](http://www.conftool.com/pme42)) no later than March 1, 2018. 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 2018.

Details of the review process are available at the IGPME webpage: [http://igpme.org/index.php/annual-conference/session-types/oral-communication](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](http://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 16, 2018. Details are 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. He/she 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.

### 5.2.5 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 42 template for Poster Presentation Proposals and guidelines for proposals are available at [www.pme42.se](http://www.pme42.se). 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.

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](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 (www.conftool.com/pme42) no later than March 1, 2018. 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 2018.

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 16, 2018. 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.

**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.

This year, the previous group formats Working Session and Discussion Group have been combined to a new group format named Working Group. In addition, the description of the group format Research Forum has been refined.

All group activities (except RF proposals) are submitted for review through ConfTool, the online conference registration system (www.conftool.com/pme42). 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 proposals is November 1st in the year preceding the conference. A proposal should not exceed 5 pages, including references.

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 January 15th. During the First IPC meeting (late January), the IPC decides on the acceptance of the Research Forums. If accepted, the final contribution for the conference proceedings (30 pages) must be handed in by March 15.

Proposals must include:

- the topic, title, and focus of the Research Forum;
- the names of all researchers contributing (minimum of 5);
- the name of the coordinator (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.

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 researchers contributing to the Research Forum have to make a full registration May 16, 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. 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, colloquia, 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.

The proposals should follow the PME formatting guidelines. The total length for 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 16, 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 2018. 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
• 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, 2018. 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 2018.
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 2018.

5.3.4 Ad Hoc Meeting (AH)

Ad Hoc Meetings are a form of conference activity approved in 2010. During the conference, PME provides time slots and rooms for meetings of ‘ad hoc’ groups. The idea is that researchers can meet and discuss research topics that spontaneously came up during discussions of previous presentations at the conference. The Ad Hoc Meetings are reserved only for discussions; presentations or a continuation of a Research Report or Oral Communication are not allowed. To organize an Ad Hoc Meeting, at least two persons 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)

For the fifth time, 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 2018 ERD will be held on the afternoon of Monday July 2 and the morning of Tuesday July 3 at the campus of Umeå University. The day is being organized by Johan Lithner (LOC member, Sweden) and Anke Lindmeier (PME representative, Germany). Registration fees for ERD and coffee breaks are complimentary (no cost) and researchers can apply for participation through ConfTool. 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: www.pme42.se.
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 David Wagner (Canada), dwagner@unb.ca.

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 November 1, 2017. 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 42 begins in November 2017. It will be carried out online using the ConfTool conference registration system, at www.conftool.com/pme42. Before registering for the conference or paying the membership fee, you need to register in the PME ConfTool system.

1. a) 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.

   b) 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 where you can find additional information on payment options for the conference deposit.

3. If you choose online payment, the system will connect you with a secure page for you to complete your payment.

If you have any problems with your conference pre-registration, please contact the conference secretariat: elisabet@umea-congress.se.

### 7.2 IGPME Membership Only

If you have been an IGPME member in the past, but will not be attending PME 42, or you want to become a new IGPME member who will not attend PME 42, pay the annual membership fee for PME through ConfTool. This is necessary for maintaining or getting membership.

1. a) 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.”

   b) 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 where you can get information on payment options for the membership fee.

3. If you choose online payment, the system will connect you with a secure page for you to complete your payment. If you have any problems with payment of the membership fee, please contact the conference secretariat: elisabet@umea-congress.se.

### 7.3 Registration Fees

The upper limit for the total registration fee will be SEK 4335 (approximately €450) 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 2018, just prior to the publication of the Second Announcement.

#### 7.3.1 Conference Deposit

The non-refundable conference deposit is SEK 1250 (approximately €130). For those who attend the conference, the conference deposit will be deducted from the total conference registration fee.

The conference deposit covers:

- PME memberships for the year 2018 of €40;
- a compulsory Skemp Fund donation of €10;
• access to electronic conference proceedings; and
• administrative cost related to the handling of the proposals.

7.3.2 Total Registration Fee
The total registration fee covers:

• PME membership for the year 2018 of €40;
• a compulsory Skemp Fund donation of €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;
• conference dinner;
• excursion;
• local bus ticket for the conference days; and
• the costs of venue, administrative work, and facilities needed for the organization of the conference.

You have the option to choose if you want to receive printed proceedings or not. As with previous conferences, the default option includes both printed and electronic proceedings. During the final registration process via the ConfTool system, participants can choose the alternative option that includes only electronic proceedings. If you choose only electronic proceedings, the registration fee will be reduced.

The reduction depends on the price of printed proceedings (i.e., on the number of pages and volumes) and will be announced on the conference website and in the Second Announcement in April 2018.

7.3.3 Accompanying Person Fee
We welcome accompanying persons. Accompanying persons participate in the social program but not in the scientific program of the conference. The fee for accompanying persons is expected to be around SEK 1250 (approximately €130) per person depending on the anticipated number of participants and external financial support. The exact amount will be decided by the International Program Committee in April 2018, just prior to the publication of the Second Announcement.

The fee covers:

• opening reception;
• excursion;
• conference dinner; and
• some of the administrative work involved outside of the scientific program.

There is no fee for accompanying children under 14 years of age. If you have any questions, please contact the conference secretariat: elisabet@umea-congress.se.

7.3.4 Late Registration Fee
An additional charge of SEK 480 (approximately €50) will be applied for registrations made after May 16, 2018.
7.4 Payment Options

All participants can make their payment by credit card or bank wire transfer. If you use a credit card, the process will be carried out online. The ConfTool system will connect you to an external platform for payment. There you will enter your personal information and choose payment type.

If you choose to pay by bank wire transfer you will get an invoice. You need to transfer the funds to the account designated on the invoice sent to you by e-mail or post after registration.

Your registration will only be finalized when the payment process is complete. If you have any questions regarding your payment, please contact the conference secretariat at elisabet@umea-congress.se.

7.5 Donations to Skemp Fund

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

The Skemp Fund plays an increasingly important role in making the PME annual conference more accessible to mathematics educators who would not otherwise be able to attend the conference. The extent to which we can give this financial assistance depends to a large degree on the generosity of the PME community. For this reason, a compulsory donation of €10 is included in the pre-registration fee for the conference. In addition, the International Committee calls on members to make an additional donation, however small, to the Skemp Fund when paying membership fees or registering for annual conferences.

7.6 Richard Skemp Memorial Support Fund

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

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

In general:

- only one of the authors of a particular proposal will be eligible to apply for a grant;
- those who have already received a grant on two prior occasions will not receive an additional grant; and
- for applicants who have already received a grant in a previous year, priority will go to those who have an accepted Research Report rather than an Oral Communication or Poster Presentation.
The number and size of grants each year depends on the amount available as well as the number of applicants and the relative merits of each application. The Richard Skemp Memorial Support Fund Committee will meet during the second International Program Committee meeting, in April 2018, and will make its recommendations once decisions on the acceptance or rejection of proposals have been completed. The PME Administration Manager will contact applicants to inform them of the decision on their application for a Richard Skemp Memorial Support Fund grant. This will usually take place before the end of April each year. Please note that grants cannot be carried over to the next year’s conference. Grants will be paid at the conference and are not available in advance.

Applicants for a Skemp Fund grant should fill in the application form available from the conference website or from the PME website (http://igpme.org/index.php/annual-conference/skemp-fund-support). The application should be sent by March 1, 2018 to:

Bettina Rösken Winter
Humboldt Universität, Berlin
Postal address: Unter den Linden 6
D-10099 Berlin
Tel: +49 (0) 30 2093-5857
Email: info@igpme.org

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 elisabet@umea-congress.se. In all cases, the conference deposit will not be refunded; however, the deposit will cover one year of membership as well as access to the electronic conference proceedings (see section 7.3.1 Conference Deposit).

If a cancellation for conference participation is made after the full registration fee has been paid: Before June 3, 2018, the refund will be the amount of the full registration fee minus the conference deposit and the fees that the bank charges for transferring the refund. Refund = (registration fee – conference deposit) – bank fees.

After June 3, 2018, the refund will be 50% of the full registration fee minus the conference deposit, and then subtracting the fees that the bank charges for transferring the refund. Refund = 50% of (registration fee – conference deposit) – bank fees.

After July 2, when the conference has started, cancellation is not possible.

7.7.2 For Accompanying Persons

If a cancellation for accompanying person is made after the full registration fee has been paid: Before June 3, 2018, the refund will be the amount paid minus the fees that the bank charges for transferring the refund will be refunded. Refund = accompanying person fee – bank fees.

After June 3, 2018, the refund will be 50% of the amount, subtracting the fees that the bank charges for transferring the refund. Refund = 50% of accompanying person fee – bank fees.

After July 2, when the conference has started, cancellation is not possible.
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 42 (2018)

8.1 Scientific Program

For all accepted proposals, the deadline of final registration is May 16, 2018. 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Pre-Registration, Proposals and Payment of Conference Deposit</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Research Report</td>
<td></td>
<td>January 15, 2018</td>
</tr>
<tr>
<td>Colloquium</td>
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<td>January 15, 2018</td>
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<tr>
<td>Oral Communication</td>
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<tr>
<td>Poster Presentation</td>
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8.1.2 Group Activities

<table>
<thead>
<tr>
<th>Type</th>
<th>Proposals</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Forum</td>
<td>Pre-Registration, revised Proposals and Payment of Conference Deposit</td>
<td>January 15, 2018</td>
</tr>
<tr>
<td></td>
<td>Full Papers</td>
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<tr>
<td>Working Group</td>
<td>Pre-Registration, Proposals and Payment of Conference Deposit</td>
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</tr>
<tr>
<td>Seminar</td>
<td>Pre-Registration, Proposals and Payment of Conference Deposit</td>
<td>March 1, 2018</td>
</tr>
</tbody>
</table>

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 16, 2018
Late registration Additional charge of SEK 480 (€50) After May 16, 2018

8.3 Deadlines for PME 43 (2019) in Pretoria, South Africa

Research Forums for PME 43 to be held in Pretoria, South Africa, should be submitted before November 1, 2018, to the Administrative Manager (info@igpme.org).

The deadline for PME Pre-Submission Support for contributions to PME 43 in Pretoria, South Africa, is November 1, 2018. Please refer to www.igpme.org/index.php/annual-conference/pre-submission-support/ for further information.

9. Travel Information

9.1 Getting to Umeå

You can reach Umeå by plane, boat, train, bus, or car.

By Plane

Most flights to Umeå come from Arlanda, Stockholm’s international airport, a 55-minute flight. Umeå also has direct flight connections with Gothenburg and Helsinki.

The airport bus in Umeå follows a circular route between the airport, the city center, and the university campus, returning to Umeå City Airport. During peak periods, buses depart every 20 minutes. The trip from the airport to the city center takes around 10 minutes, and about another 10 minutes to the university. Tickets are SEK 70 (approximately €7), and you can only pay by credit card. A taxi from the airport to the city center or the university costs around €20.

By Boat

From Vaasa in Finland, the Wasaline service takes only four hours to cross the Gulf of Bothnia.

By Train

Train travel to Umeå is easy. There are several departures per day with high-speed trains from Stockholm to Umeå. The overnight train from Stockholm is also a popular option.

By Bus

Ybuss serves Umeå from Stockholm with daily departures along highway E4. Länstrafiken gets you around Västerbotten and surrounding areas. Matkapojat has bus trips from Finland.

By Car

Highway E4 stretches along the coastline from Stockholm to Umeå, and further north to Haparanda, on the border between Sweden and Finland.

9.1.1 Getting to the Conference Venue

The conference will be held at the Umeå University campus. It is walking distance between the hotels in the city center and the campus, and it takes 25-30 minutes. The easiest way to get from the hotels to Umeå University is by local bus. Local buses depart from Vasaplan in central Umeå,
where most hotels are located. For the duration of the conference, all participants will have free bus rides on all local buses after registration.

Any of the following buses from Vasaplan will take you to the bus stop Universum at the campus: No 2 towards Ersboda handelsområde, No 5 towards Strömpilen, No 8 towards Tomtebo, and No 9 towards Carlshem.

For further information on the schedules of local buses, visit the ULTRA website: http://www.tabussen.nu/ultra/english/

If you want to use the local buses before or after the conference, a one-way ticket costs SEK 24, but it is also possible to buy day-cards or multiple-trip cards that are cheaper per trip. Please note that you cannot pay with cash on the bus. VISA, Master Card, and other common credit cards are valid.

Map of Umeå

Map of University Campus. The conference will mainly be in houses E and G.

9.2 About Umeå

9.2.1 Language

Swedish is the official language of Sweden and it is the native language of most of the 10 million inhabitants of the country. However, almost all Swedes can to some extent communicate in English and like getting the chance to practice their English now and then. In general, they are really good at it.

9.2.2 Visa

An entry visa is a permit required by persons wishing to enter Sweden for a temporary visit on business or to take part in a conference or visit as a tourist. No visa for Sweden is needed for EU citizens, but citizens of non-EU countries may need a visa to visit Sweden. Visas cost €60, are usually valid for a maximum of 90 days, and are valid for the entire Schengen area. To get a visa, participants need a valid passport, an invitation which we will issue on request, money for the planned stay, and individual medical travel insurance.

Visa applications are handed in to a Swedish embassy or consulate-general, or to the mission of another Schengen country if there is no Swedish embassy. It normally takes two weeks to get a decision on a visa, but it is recommended that applications are submitted at least two months before travel to Sweden.

If you are unsure if a visa is required, you can check with the Immigration & Checkpoints Authority or with your local consular office. The period of stay granted will be shown on the visit pass endorsement in your passport.

Link to the Swedish Migration Agency: Visas to attend conferences

Link to the Swedish Government Offices: Countries requiring visa for entry

9.2.3 Letter of Invitation

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

9.2.4 Currency
The Swedish Krona is the currency of Sweden. The currency code for Kronor is SEK, and the currency symbol is kr. The most popular exchange rate is the SEK to EUR rate. Over the last year, one Euro has been between 9.23 kr and 9.97 kr. At present (October 2017), one Euro is 9.55 kr.

Sweden is on its way of becoming a cashless society (www.sweden.se/business/cashless-society/). In some places, you cannot pay with cash, in particular on much public transport, including busses in Umeå. That is, you either need to have bought a ticket beforehand or you need to pay with a credit card.

9.2.5 Power Plugs
The standard electrical current used in Swede is 230 volts AC (50 cycles). Electrical sockets (outlets) in Sweden are one of the two European standard electrical socket types. The Type C and the Type F in the following list: http://www.worldstandards.eu/electricity/plugs-and-sockets/. If your appliance’s plug doesn’t match the shape of these sockets, you will need a travel adapter in order to plug in.

9.2.6 Time Zone
Sweden is in the Central European Time Zone. Central European Standard Time (CET) is 1 hours ahead of Greenwich Mean Time (GMT+1).

9.2.7 Telephone Code and Useful Numbers
The Sweden country code 46 will allow you to call Sweden from another country. The code 46 is followed by an area code. The Umeå area code is 090 (+46 90 xxxxxx). There is no area code if you are calling a mobile phone (cell phone).

Where to call in case of emergency? There are four main important phone numbers in Sweden:

- 112 (for emergencies)
- 11 77 (for medical advice)
- 114 14 (for non-emergency incidents)
- 113 13 (for information about none acute accidents and emergencies)

9.2.8 Weather
In July, Umeå has daily high temperatures around 20°C (68°F), with an average temperature of around 16°C (61°F). There is some rain on about one quarter of the days, with a total monthly rainfall of around 70 mm. The days are long, with sunrise around 2:30 am and sunset around 11 pm, and it stays light all night.

9.3 Liability and Insurance
Please check the validity of your insurance before you travel. The Local Organizing Committee does not accept any liability for personal injuries, or for the loss or damage to property belonging to conference participants (or their accompanying persons) either during or as a result of the conference.
9.4 Accommodation

Most of Umeå’s hotels are located very close to each other in the city center, which makes it easy to meet up with colleagues in the long summer evenings.

Information about accommodation can be found on the conference webpage: www.pme42.se.

10. Conference Excursion

In addition to the scientific program, there will be an excursion afternoon with several options for participants. Details of the excursion tours will be included in the Second Announcement available in April 2018.

11. Credits

11.1 PME Logo Design

The PME logo is designed by Catarina Rudälv and Amanda Rudälv.

11.2 Photo Credits

The Umeå River. Photo: Visit Umeå.
The Northern Light. Photo: Mattias Pettersson.
Umeå University campus from above. Photo: Bergslagsbild.
Umeå University campus in summer. Photo: Mattias Pettersson.
Umeå from above. Photo: Visit Umeå.