# 37th Conference of the International Group for the Psychology of Mathematics Education in Kiel, Germany

## – *First Announcement* –

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

## Contents

1 Welcome ..... 5
2 Committees of PME 37 ..... 6
3 PME 37 Conference Secretariats ..... 7
3.1 Conference Scientific Secretariat ..... 7
3.2 Conference Registration Secretariat ..... 7
3.3 Conference Administrative Secretariat ..... 7
4 About the PME ..... 8
4.1 The Constitution of PME ..... 8
4.2 Honorary Members of PME ..... 8
4.3 International Committee of PME ..... 8
4.4 PME Administrative Manager ..... 9
5 The Scientific Program ..... 10
5.1 Plenary Sessions ..... 10
5.1.1 Plenary Lectures ..... 10
5.1.2 Plenary Panel ..... 11
5.2 Personal Presentations ..... 11
5.2.1 Research Report (RR) ..... 11
5.2.2 Short Oral Communications (SO) ..... 12
5.2.3 Poster Presentation (PP) ..... 13
5.3 Group Activities ..... 14
5.3.1 Research Forums (RF) ..... 14
5.3.2 Discussion Group (DG) ..... 15
5.3.3 Working Sessions (WS) ..... 16
5.3.4 Ad Hoc Meetings (AH) ..... 17
5.3.5 National Presentation (NP) ..... 17
6 General Guidelines for Proposals ..... 18
6.1 Submitting a Proposal ..... 18
6.1.1 Content ..... 18
6.1.2 General Regulations ..... 18
6.1.3 Format of Papers ..... 19
6.2 Table of Research Categories ..... 20

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

6.2.1 Research Domains in Mathematics Education ..... 20
6.2.2 Grade Levels ..... 20
6.2.3 Types of Research ..... 20
6.3 Equipment for Presentations ..... 21
7 PME Pre-Submission Support ..... 22
8 Registration and Payment ..... 23
8.1 Conference Pre-Registration ..... 23
8.2 PME Mempership Only ..... 23
8.3 Registration Fees ..... 24
8.3.1 Conference Deposit ..... 24
8.3.2 Total Registration Fee ..... 24
8.3.3 Accompanying Person Fee ..... 25
8.3.4 Late Registration Fees ..... 25
8.4 Payment Options ..... 25
8.5 Donations to the Skemp Fund ..... 26
8.6 Cancellation Policy ..... 26
8.6.1 For registered participants ..... 26
8.6.2 For accompanying persons who cancel conference participation ..... 27
8.6.3 General Information ..... 27
8.7 Richard Skemp Memorial Support Fund & Application for Financial Support ..... 28
9 Important Dates for PME 37 ..... 29
9.1 Scientific Program ..... 29
9.2 Registration ..... 29
9.3 Deadlines for PME 38, 2014 in Vancouver (Canada) ..... 29
10 Travel Information ..... 30
10.1 About Kiel ..... 30
10.2 How to reach Kiel? ..... 30
10.2.1 By Air ..... 30
10.2.2 By Sea ..... 31
10.2.3 By Train ..... 31
10.2.4 By Car ..... 31
10.3 Getting Around in Kiel ..... 31
10.4 About Germany ..... 32

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

10.4.1 Language ..... 32
10.4.2 Passport / VISA ..... 32
10.4.3 Letter of Invitation ..... 32
10.4.4 Currency ..... 32
10.4.5 Electrical Appliances ..... 32
10.4.6 Time Zone ..... 33
10.4.7 Germany Telephone Code ..... 33
10.4.8 Shopping in Kiel ..... 33
10.5 Weather ..... 34
10.6 Liability and Insurance ..... 34
11 Accommodation ..... 35
12 Conference Excursions & Tours ..... 36
12.1 City Tour Kiel ..... 36
12.2 City and Harbor Tour Hamburg ..... 36
12.3 World Heritage Site: Hanseatic City of Lübeck ..... 36
12.4 Thermal Spa Scharbeutz at the Baltic Sea (minimum 25 persons) ..... 37

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

# 1 Welcome

Aiso Heinze (Chair of PME 37) and the Local Organizing Committee are happy to invite you to attend the ***37th Conference of the International Group for the Psychology of Mathematics Education*** (PME 37), which will be held at Kiel University from July 28 to August 2, 2013.

***"Mathematics Learning Across the Life Span"*** has been chosen as the theme of the conference to stress that mathematics education is not restricted to school education but already starts in early childhood and continues after school as lifelong learning.

All our efforts will be directed towards making our 2013 meeting socially and scientifically successful. We hope that your stay in Germany will be an informative and pleasant experience and we look forward to seeing you in Kiel in July 2013.

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# 2 Committees of PME 37

**The International Program Committee (IPC)**

| | |
|---|---|
| João Filipe Matos | University of Lisbon (Portugal) |
| Aiso Heinze | Leibniz Institute for Science and Mathematics Education Kiel (Germany) |
| Bettina Dahl Søndergaard | Aarhus University (Denmark) |
| Gabriele Kaiser | University of Hamburg (Germany) |
| Peter Liljedahl | Simon Fraser University Vancouver (Canada) |
| Anke Lindmeier | Leibniz Institute for Science and Mathematics Education Kiel (Germany) |
| Tim Rowland | University of Cambridge (United Kingdom) |
| Stefan Ufer | Ludwig Maximilians University of Munich (Germany) |

**The Local Organizing Committee (LOC)**

The local organizing committee for PME 37 in Kiel consists of

- Aiso Heinze, Christoph Duchhardt, Meike Grüßing, Tim Heemsoth, Beate von der Heydt, Anne-Katrin Jordan, Anne Kielmann, Imke Knievel, Eva Knopp, Anke Lindmeier, Carolin Loch, Heidrun Petersen, Stefanie Rach, Silke Rönnebeck, Insa Schnittjer, Ulrike Siebert, Lars Tietje, Maike Vollstedt (all members of the Leibniz Institute for Science and Mathematics Education Kiel)

and

- Stefan Ufer, Ludwig Maximilians University of Munich
- Bettina Roesken-Winter, Ruhr-Universität Bochum

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# 3 PME 37 Conference Secretariats

For any questions regarding PME 37 please contact one of the following three conference secretariats at the

Leibniz Institute for Science and Mathematics Education (IPN)
Department of Mathematics Education
24098 Kiel, Germany

responsible for scientific, registration or administrative issues.

## 3.1 Conference Scientific Secretariat

For matters related to the scientific issues of the conference (program, presentations, equipment, etc.) please contact:

**Anke M. Lindmeier**

Phone: +49 (0) 431-880-3109
Fax: +49 (0) 431-880-2641

Email: scientific@pme2013.de

## 3.2 Conference Registration Secretariat

For matters related to the registration and payment please contact:

**Beate von der Heydt**

Phone: +49 (0) 431-880-5133
Fax: +49 (0) 431-880-2641

Email: registration@pme2013.de

## 3.3 Conference Administrative Secretariat

For matters related to the administrative issues of the conference (accommodation, excursion, travel, etc.) please contact:

**Heidrun Petersen**

Phone: +49 (0) 431-880-3110
Fax: +49 (0) 431-880-2641

Email: admin@pme2013.de

PME 37 has a website which is accessible at www.pme37.de and www.pme2013.de where you can find up-to-date information.

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# 4 About the PME

The International Group for the Psychology of Mathematics Education (PME) is an autonomous body, governed as provided for in the 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 (ICME3) held in Karlsruhe, Germany in 1976.

## 4.1 The Constitution of PME

The constitution of PME was adopted by the Annual General Meeting on August 17, 1980 and changed by the Annual General Meetings 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. Here, we have only printed two parts of the constitution. The group has the name "International Group for the Psychology of Mathematics Education", abbreviated to PME. The major goals of the group are:

- to promote international contact 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.

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

## 4.2 Honorary Members of PME

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

## 4.3 International Committee of PME

| | | |
|---|---|---|
| **President:** | João Filipe Matos | University of Lisbon (Portugal) |
| **Vice President:** | Tim Rowland | University of Cambridge (United Kingdom) |
| **Secretary:** | Stefan Ufer | University of Munich (Germany) |
| **Treasurer:** | Bettina Dahl Søndergaard | Aarhus University (Denmark) |
| **Members:** | Silvia Alatorre | Universidad Pedagógica Nacional (Mexico) |
| | Samuele Antonini | University of Pavia (Italy) |
| | Olive Chapman | University of Calgary (Canada) |
| | Marta Civil | University of North Carolina (USA) |
| | Stephen Hegedus | University of Massachusetts Dartmouth (USA) |
| | Marj Horne | Australian Catholic University (Australia) |
| | Guri A. Nortvedt | University of Oslo (Norway) |
| | Masakazu Okazaki | Okayama University (Japan) |
| | Marcia Pinto | Universidade Federal de Minas Gerais (Brazil) |
| | Núria Planas | Universitat Autonoma de Barcelona (Spain) |
| | Leonor Santos | University of Lisbon (Portugal) |
| | Tai-Yih Tso | National Taiwan Normal University (Taiwan) |
| | Wim van Dooren | University of Leuven (Belgium) |

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## 4.4 PME Administrative Manager

**Bettina Roesken-Winter**

Ruhr-Universitaet Bochum
Fakultaet fuer Mathematik, NA/3/28
Universitaetsstraβe 150
44780 Bochum, Germany

Phone: +49 (0) 23432-23311

Email: bettina.roesken@rub.de

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# 5 The Scientific Program

The theme of the 37th PME Conference is:

***"Mathematics Learning Across the Life Span"***

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 a Short 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***

- Plenary Lectures
- Plenary Panel

***Personal presentations***

- Research Reports (RR)
- Short Oral Communications (SO)
- Poster Presentations (PP)

***Group activities***

- Research Forums (RF)
- Discussion Groups (DG)
- Working Sessions (WS)
- Ad hoc Meetings (AH)
- National Presentation (NP)

## 5.1 Plenary Sessions

### 5.1.1 Plenary Lectures

There will be four plenary addresses from invited speakers, each lasting **60 minutes**. Each plenary address will respond to the theme of the conference from a different perspective. A reactor will be present at some of the plenary sessions to comment on the presentations for 15 minutes; following the reactor's comments the presenter will have 10 minutes to respond.

The plenary speakers for PME 37 are:

- Kristina Reiss (Germany)
- Doug Clarke (Australia)
- Iddo Gal (Israel)
- João Filipe Matos (Portugal)

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### 5.1.2 Plenary Panel

A Plenary Panel will be offered on "**Education of Young Mathematics Education Researchers**". Panel members at PME 37 are:

- Peter Liljedahl (Canada, Convenor)
- Marcelo Borba (Brazil)
- Andualem Tamiru Gebremichael (Norway/Ethiopia)
- Heidi Krzywacki (Finland)
- Gaye Williams (Australia).

## 5.2 Personal Presentations

### 5.2.1 Research Report (RR)

**Content**

Research Reports (RR) should deal with topics related to the major goals of the IGPME. 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 papers.

Each participant is allowed to present only one Research Report. No one is allowed to have his or her name on the program more than four times, as an author or co-author, on any kind of presentation or group session.

Two types of papers are suitable for Research Reports:

1. **Reports of empirical studies**

Observational, ethnographic, experimental, quasi-experimental, and case studies are all suitable. Reports of empirical studies should contain, at a minimum, the following:

- a statement regarding the focus of the submitted paper
- the study's theoretical framework
- references to the related literature
- an indication of and justification for the study's methodology
- a sample of the data and the results
- some sample data and results (additional data can be presented at the conference but some data ought to accompany the proposal)

2. **Theoretical and philosophical essays**

Those should contain, 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
- implications for existing research in the respective area

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**Submission**

A Research Report must be proposed to the Program Committee by means of an **eight-page** text. Proposals for Research Report presentations must be submitted via ConfTool, the online registration system, no later than January 15, 2013. Guidelines and instructions are given in the section titled Contributions on the official website www.pme2013.de

**Review Process**

The submitted proposals for the Research Reports will be reviewed by three PME members whose areas of expertise match the applicant's chosen research categories. In order for a proposal to be reviewed, the presenting author must pay the conference deposit no later than January 15, 2013. The conference deposit is non-refundable. Notification of the decision of the Program Committee to accept or reject the Research Report proposal will be available after the 2nd meeting of the Program Committee in April 2013. An accepted paper will appear in the proceedings only if full payment of the conference fee is made no later than May 16, 2013.

The Local Organizing Committee recruits potential reviewers from experienced PME members who have presented either two PME Research Reports in the last five years or presented three PME Research Reports in the last ten years.

Reviewers for reports of studies (empirical research) will be asked to comment on the following: theoretical framework and related literature, methodology (if appropriate), statement, and discussion of results, clarity, and relevance to a PME audience.

Reviewers for theoretical and philosophical essays will be asked to comment on the theoretical framework and related literature, the articulated statement of the author's positionality, on implications for existing and further research, and on the relevance to the wider PME audience.

**Presentation**

Each presentation will be allotted a total time of 40 minutes: 20 minutes for the oral presentation and 20 minutes for questions and comments. For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.2.2 Short Oral Communications (SO)

**Content**

Short Oral Communications are intended for research that is best communicated by means of a short oral communication instead of a full research report.

**Submission**

Short Oral Communications must be proposed to the Program Committee via a **one-page summary** which will be included in the proceedings of the conference if accepted. Proposals of Short Oral Communications must be submitted via ConfTool, the registration system, no later than March 1, 2013. Before proposing a Short Oral paper, first read the instructions for submitting a proposal (see Contributions on www.pme2013.de).

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**Review Process**

Proposals are reviewed by the Program Committee. In order for a proposal to be reviewed, the presenting author must pay the conference deposit when the proposal is submitted. Notification of the decision of the Program Committee to accept or reject the Short Oral proposal will be emailed in April, 2013.

The one-page summary will appear in the proceedings only if full payment of the conference fee is made no later than May 16, 2013.

**Presentation**

The total time for a Short Oral presentation is **20 minutes**: 10 minutes for the oral presentation and 10 minutes for questions and/or comments. Three presentations will be grouped according to distinctive themes.

For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.2.3 Poster Presentation (PP)

**Content**

Poster Presentations are intended for information/research that is best communicated in a visual form instead of a formal paper presentation.

**Submission**

Poster Presentations must be submitted by means of a **one-page summary** which will be included in the proceedings of the conference if accepted. This summary ought to describe both the content of the poster and its particular visual characteristics.

Proposals of Poster Presentations must be submitted online via ConfTool, the registration system, no later than March 1, 2013. Before proposing a Poster Presentation, first read the instructions for submitting a proposal (see Contributions on www.pme2013.de).

**Review Process**

Proposals are reviewed by the Program Committee. In order for a proposal to be reviewed, the presenting author must pay the conference deposit when the proposal is submitted. Notification of the decision of the Program Committee to accept or reject the poster proposal will be emailed in April, 2013.

The one-page summary will appear in the proceedings only if full payment of the conference fee is made no later than May 16, 2013.

**Presentation**

There will be a Poster Presentation session in the conference program. Author(s) should be available in this session for discussion with conference participants.

For more information, please contact the conference scientific secretariat at scientific@pme2013.de

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## 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 the parallel time allotments, and will have limited space.

### 5.3.1 Research Forums (RF)

**Content**

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

A Research Forum:

- focuses on a topic that is of substantial interest within the work of PME,
- stimulates critical dialogue around this topic through the consideration of multiple perspectives,
- has a coherent structure that encourages intellectual debate,
- involves planned input to this critical dialogue from at least five researchers,
- includes structural opportunities for interaction by the audience, and avoids the need for long presentations through the use of well-advertized prior reading.

**Submission and Review Process**

The deadline for Research Forum proposals is October 1 in the year before the conference (for PME 37 it was extended to November 1). The proposals should be sent to the PME Administrative Manager (info@igpme.org) or the Conference Chair and must include:

- the title and focus of the Research Forum;
- the name of the coordinator and assistant coordinator (if desired);
- key question(s) that the Research Forum will address;
- a detailed description of the proposed format of the Research Forum, including timing, contributors, how they will be chosen, plans for audience interaction;
- details of prior reading and how this can be made available;
- how the space within the proceedings will be used (up to 30 pages).

The Program Committee reviews the proposals and provides feedback to the coordinators if a proposal is provisionally accepted. The coordinators will then have to provide the final version of their proposal by January 15, 2013. The Program Committee makes the final decision during its 1st meeting in January, 2013. Then the coordinators have to write and submit the text for the proceedings no later than May 1, 2013.

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The total length of a final Research Forum paper for the proceedings is **30 pages**. It should follow the same specifications as given for Research Reports und must be submitted online via ConfTool, the registration system (please see Contributions on www.pme2013.de). Accepted proposals will be included in the conference proceedings, provided the full conference fee for the coordinators is paid before May 16, 2013.

**Presentation**

Two **90 minute** slots will be devoted to each Research Forum. For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.3.2 Discussion Group (DG)

**Content**

The objective of a Discussion Group is to provide attendees with the opportunity to discuss a specific research topic of shared interest. The idea of a Discussion Group may be the result of an Ad hoc Meeting or an intensive discussion of a Research Report during the previous conference. Discussion Groups may begin with short synopses of research work, or a set of pressing questions. A Discussion Group is more exploratory in character and especially suitable for topics which are not appropriate for collaborative work in a Working Session because they are not yet elaborate enough or because a coherent research strategy has not been identified. A successful Discussion Group may result in an application for a Working Session one year later.

**Submission**

**One-page** proposals for a Discussion Group must be submitted no later than March 1, 2013. Guidelines for the preparation of proposals for a Discussion Group are specified at Contributions on www.pme2013.de. Proposals must be submitted online via ConfTool, the registration system. In order for a proposal to be considered, the coordinators must pay the conference deposit by the submission date.

The one-page proposal for a Discussion Group application must include:

- Names of a coordinator and an assistant coordinator, both of whom must be active members of PME;
- Information about the theoretical background of the topic of the Discussion Group as well as questions or goals which guide the work in the Discussion Group;
- A short outline about the goals and/or activities planned for each of the two 90 minute sessions;
- A plan for how the attendees can participate actively in the discussion (a Discussion Group must not consist solely of presentations).

**Review Process**

The International Program Committee reviews and selects the Discussion Group proposals. Notification of the decision of the Program Committee to accept or reject the proposal will be emailed in April, 2013. Accepted proposals will be included in the conference proceedings, provided the full conference fee for the coordinators is paid before May 16, 2013.

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**Presentation**

Two 90-minute sessions will be allocated to Discussion Groups. After presentation, coordinators of each Discussion Group are required to send a report of its activities to the PME Administrative Manager (info@igpme.org). This report may be included in the PME newsletter. This report is due by the end of September, 2013.

For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.3.3 Working Sessions (WS)

**Content**

The aim of Working Sessions is that PME participants collaborate in joint activities on a research topic. For this research topic, there must be a clear research framework or research strategy and precise goals so that a coherent collaborative activity is ensured. Ideas for a Working Session can result from Discussion Group sessions of previous conferences where a topic was elaborated upon and a research framework or strategy was developed. Each Working Session should be complementary to the aims of PME and ensure maximum involvement of each participant.

**Submission**

**One-page** proposals for a Working Session must be submitted no later than March 1, 2013. Guidelines for the preparation of proposals for a Working Session are specified at Contributions on www.pme2013.de. Proposals must be submitted online via ConfTool, the registration system. In order for a proposal to be considered, the coordinators must pay the conference deposit by the submission date.

The one-page proposal for a Working Session application must include:

- Names of a coordinator and an assistant coordinator, both of whom must be active members of PME;
- Information about the theoretical background of the topic of the Working Session as well as descriptions of specific tasks or activities to be carried out in the sessions;
- A short outline of the goals and/or activities planned for each of the two 90-minute sessions.

**Review Process**

The International Program Committee reviews and selects the Working Session proposals. Notification of the decision of the Program Committee to accept or reject the proposal will be emailed in April, 2013. Accepted proposals will be included in the conference proceedings, provided the full conference fee for the coordinators is paid before May 16, 2013.

**Presentation**

Two **90-minute** sessions will be allocated to Working Sessions. After presentation, coordinators of each Working Session are required to send a report of its activities to the PME

Administrative Manager (info@igpme.org). This report may be included in the PME newsletter. This report is due by the end of September, 2013.

For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.3.4 Ad Hoc Meetings (AH)

**Content**

Ad hoc Meetings are a new 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 which 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 Short Oral communication are not allowed.

**Procedure**

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 organizers, and the preferred time slot, and deliver it to the PME Administrative Manager. 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.

***It is not possible to organize an Ad hoc Meeting before the conference.***

For more information, please contact the conference scientific secretariat at scientific@pme2013.de

### 5.3.5 National Presentation (NP)

**Content**

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.

**Review process**

There is no specific submission and reviewing process. The conference chair informs the Program Committee about the National Presentation during the 2nd Program Committee meeting and announces the National Presentation in the program.

**Presentation**

One **90-minute** session will be allocated to the National Presentation.

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# 6 General Guidelines for Proposals

## 6.1 Submitting a Proposal

All proposals must be submitted online via ConfTool, the registration system at www.conftool.com/pme37 (except Research Forum, see 5.3.1). Please be sure that your proposal is formatted correctly, using the conference template (see Contributions on www.pme2013.de), and that you have named and saved it as directed below. **Proposals that do not follow the formatting guidelines cannot be accepted!**

The submissions should also include all required information related to the research categories (see 6.2). You will select these categories when you submit your proposal through ConfTool.

All files for PME 37 should be submitted in DOC format via the online system by the dates stated for each type of presentation. If required, a blind version of the paper without authors' names or identifying information should be submitted in PDF format. Instructions for submitting the blind version will be given on ConfTool if such a version is required.

The following rules apply to all types of proposals. In addition to these guidelines, all proposals should be concerned with mathematics education and conform to the major aims of PME as stated in the constitution (see 4.1).

### 6.1.1 Content

- Completed research as well as ongoing studies may be submitted, provided that the theoretical framework, preliminary results and related literature appear in the proposal. The authors should state what is new in their research, how it builds on past research, and/or develops into new directions.
- Papers should be concise but should also contain the necessary information to inform both the reviewers and other researchers.
- Proposals too similar to papers previously presented will not be accepted.
- You must use a template for the final version of the submitted paper. The template can be downloaded from the website of PME37 at www.pme2013.de/en/contributions through the link to templates, where you will find the template and the instructions on how to fill it in.

### 6.1.2 General Regulations

- **Each applicant can be the presenting author on only one Research Report or one Short Oral presentation**. Each RR or SO applicant may also present a poster, as well as a Research Forum, Working Session, or Discussion Group, if he or she wishes. **No author's name should appear in the program more than four times**, including Research Reports (RR), Short Orals (SO), Poster Presentations (PP), Research Forums (RF), Working Sessions (WS), and Discussion Groups (DG).

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- In the case of personal presentations, **only the person designated as presenting author of the paper can present the paper**. In the case of group activities, **only the coordinator(s) and announced authors can be the presenters during the group sessions**. The names and addresses of presenting authors and first coordinators (i.e., those designated as the author/coordinator) will be included in an appendix of the proceedings.
- In order to have a proposal for RR and RF considered by the International Program Committee and sent to reviewers, the presenting author(s) MUST be pre-registered as participant(s), paying the non-refundable conference deposit by January 15, 2013.
- In order to have a proposal for SO, PP, WS or DG considered by the International Program Committee, the presenting author(s) must be pre-registered as participant(s), paying the non-refundable conference deposit by March 1, 2013.
- By submitting, you assure that the submitted work is owned by yourself or owned by someone else, from whom you have permission to provide the work to IGPME as a contribution to the Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education. In the case that your contribution is accepted, you agree to provide this work to IGPME for publication in the Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education without charge. This also includes online publication on the PME website and publication via a print-on-demand service.

### 6.1.3 Format of Papers

***Maximum number of pages:*** Different for different proposals, however, the specified limit includes references, figures, and appendices!

***Titles*:** The title should be capitalized and centered. The author's (and co-authors') name(s) and affiliation(s), in this order, must be included. The name(s) of the presenting author(s) must be underlined.

***References*:** In the APA standard style (American Psychological Association).

***Files and Filenames:*** Files should be saved in **DOC format**, and filenames should indicate the type of proposal as well as the name of the presenting author, as detailed below.

- Use RR, SO, PP, DG, RF, WS for Research Report (RR), Short Oral Communication (SO), Poster Presentation (PP), Discussion Group (DG), Research Forum (RF), and Working Session (WS) respectively.
- For example, a proposal for a Short Oral, by FirstName LastName (e.g.; John Smith) for publication in the Proceedings, should be saved as SO_LastName.doc (i.e.; SO_Smith.doc).

***Paper Format:*** A4 paper format with a frame of 170 by 247 mm. The font should be 14 point, *Times New Roman* is recommended, with a *16*-point line space and *6* points between paragraphs.

- **Do not** number the pages!
- Please use exact dimensions, and fill the entire frame!

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

- You may download the conference template from the PME 37 website through the link at Contributions, where you can find the templates and the instructions on how to fill it in. The template provides the exact format and description. Remember that the original text will be reduced to 70% and appear in the proceedings; changes in style will incur difficulties in the printing of the proceedings.
- Please be sure that files do not exceed 2 MB.

## 6.2 Table of Research Categories

This section is for your reference when completing the reviewer information or the proposal information for personal presentations. Reviewers will receive proposals for reviewing according to the research categories they mark when registering as reviewer. The proposals will be sent to reviewers according to the research categories that are marked by the submitting author. All proposals must be concerned with mathematics education.

### 6.2.1 Research Domains in Mathematics Education

01 Algebra and algebraic structures

02 Arithmetic, numbers and operations

03 Calculus and functions

04 Geometry, space and shape

05 Probability and statistics

06 Imagery and visualization

07 Problem solving and problem posing

08 Proof, argumentation and reasoning

09 Representations and modeling

10 Teacher beliefs

11 Teacher knowledge and practice

12 Teacher professional development

13 Preservice teacher preparation

14 Classroom assessment

15 Educational evaluation and policy

16 Classroom interaction and discourse

17 Conceptual change and development

18 Curriculum development and task design

19 Teaching and learning with technologies

20 Tools, semiotics and gestures

21 Affect, emotions and attitudes

22 Culture, language and multilingualism

23 Equity and gender issues

24 Special needs education

### 6.2.2 Grade Levels

01 Pre-School (age under 7, and teachers of this grade level)

02 Elementary (age 5-12, and teachers of this grade level)

03 Secondary (age 10-18, and teachers of this grade level)

04 Post secondary (age 16+, and teachers of this grade level)

05 Vocational education (and teachers of this grade level)

06 Adult education and out-of-school mathematics (and teachers in these contexts)

### 6.2.3 Types of Research

01 Qualitative/interpretative methods

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

02 Quantitative methods

03 Mixed methods

04 Theoretical/philosophical analysis

## 6.3 Equipment for Presentations

For an efficient organization of the conference, we need information about the equipment presenters want to use. On-site booking of equipment will not be possible and hence has to be done in advance. During the online registration process in ConfTool you are asked to choose from the following options:

- OHP Projector
- Only Data Projector, I will bring my own computer
- Data Projector and Computer

Please indicate your preference and needs when completing the online registration and presentation submission via ConfTool. For any other kind of equipment, please email the scientific secretariat at registration@pme2013.de

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

## 7 PME Pre-Submission Support

The PME pre-submission support for Research Reports and Short 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.

The PME pre-submission support coordinator is Nathalie Sinclair (Canada), nathsinc@sfu.ca

The PME pre-submission support deadline is in September in the year before the conference. People who wish to have a mentor for the PME 38 Conference in 2014 should submit a Research Report or Short Oral Communication and contact the coordinator as early as possible, but no later than September 1, 2013.

The pre-submission support papers should be accompanied by a statement in which the authors describe

1. their limited experience in writing research reports (or journal articles) and
2. 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.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

# 8 Registration and Payment

## 8.1 Conference Pre-Registration

Pre-registration for PME 37 will be carried out online using the ConfTool conference registration system, at www.conftool.com/pme37. Before registering for the conference or paying the membership fee, you need to register in the ConfTool system.

1. a) If you are a **new user** for ConfTool:
   - 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 continue with your conference pre-registration.
1. b) If you already **have been a user** of ConfTool:
   - Please enter your username and password to login and select the option "*Pre-Register for this Event or Join PME as a member.*"
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 get additional information on payment options for the conference deposit.
3. If you choose an online payment, the system will connect you with a secure page for you to complete your payment (see 8.4 Payment).

If you have any problems with your conference pre-registration, please contact the conference registration secretariat at registration@pme2013.de

## 8.2 PME Mempership Only

If you have been a PME member in the past who will not attend PME 37, or you want to become a new PME member who will not attend PME 37, pay the annual membership fee for IGPME through www.conftool.com/pme37. This is definitely necessary for keeping/getting the membership status.

1. a) As a **new member** of PME:
   - 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.*"
1. b) As a **member** of PME who wants to renew the membership:
   - Please login by entering your username and password and 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 an online payment, the system will connect you with a secure page for you to complete your payment (see 8.4 Payment).

If you have any problem with the payment of membership fee, please contact the conference registration secretariat at registration@pme2013.de

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

## 8.3 Registration Fees

**The total registration fee is expected to be around 420 €.** Depending on the number of participants and external financial support, the exact amount will be decided by the International Program Committee in April, 2013, just before the publication of the 2nd announcement. As for other PME conferences, the upper limit will be 450 €.

### 8.3.1 Conference Deposit

The conference deposit is 130 € and it is **non-refundable**. For those who attend the conference, the conference deposit will be deducted from the full conference registration fee. The payment balance of the conference fee must be received no later than May 16, 2013.

The conference deposit covers:

- PME membership for the year 2013 with a 10 € compulsory Skemp Fund donation
- Electronic conference proceedings on CD or USB flash drive (including mailing costs if you do not attend the conference)
- The administrative costs related to the handling of the proposals

### 8.3.2 Total Registration Fee

The total registration fee covers:

- PME membership fee for the year 2013 with a 10 € compulsory Skemp Fund donation
- A set of printed conference proceedings (see below) and an electronic version on CD or USB flash drive (available at registration)
- 4 Lunches and 8 coffee breaks
- Opening reception (Sunday, July 28, 2013)
- Conference dinner (Thursday, August 1, 2013)
- Excursions and social events
- Costs of venue, administrative work and facilities needed for the organization of the conference.

**Following the decision of the AGM during PME 36, you have the option to choose if you want to get printed proceedings or not**. As before, the **default option** includes both printed and electronic proceedings. During the final registration process via the ConfTool system, participants can choose the **alternative option** which 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 www.pme2013.de and in the 2nd Announcement after the 2nd Program Committee meeting in April, 2013.

As announced during the AGM of PME 36, printed proceedings should also be available by a print-on-demand publisher where participants can order online for a price of about 45-50 € plus shipping costs. The hyperlink will be announced on the conference homepage and the IGPME homepage as soon as it is available.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

### 8.3.3 Accompanying Person Fee

We welcome accompanying persons. The fee for accompanying persons is expected to be around 100-120 € per person. It also depends on the overall number of participants and the external financial support. The exact amount will be decided by the International Program Committee in April, 2013. The fee covers:

- Opening reception (Sunday, July 28, 2013)
- Conference dinner (Thursday, August 1, 2013)
- Excursions and social events
- 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 administrative secretary at admin@pme2013.de

### 8.3.4 Late Registration Fees

An additional charge of 50 € will be applied for late registration, after May 16, 2013.

## 8.4 Payment Options

All participants can make their payment by bank transfer or via credit card.

***Due to high credit card fees (> 2%), we kindly ask all participants from Germany and other EURO zone countries to use the bank transfer option!***

If you use a **credit card**, the process will be carried out online. The ConfTool system will connect you with a prepared PayPal website to complete your credit card payment. Certificate of security reassures that all transaction details are directly and only transferred to the bank. You will get an email as confirmation when the transaction has been successfully completed. Due to recent changes in the terms and conditions of PayPal, a personal registration in the PayPal system is necessary. This can be done by simply choosing a password on the prepared website. You can also use this account for the final registration in April/May and close it afterwards. For further information, we refer to the terms and conditions (legal agreements) of PayPal which you can read in your language by clicking on the corresponding hyperlink in the footer of the PayPal webpage

PayPal offers its credit card services for many countries but not for all. If you are not able to use PayPal or if you would not like to register with PayPal, please fill in the credit card form provided on our website and fax it to our registration secretariat: +49 (0) 431-880-2641.

If you choose to pay by **bank transfer**, transfer the money to the account printed below. **Please make sure that the bank transfer fees[1] are not charged to the recipient**. To finish the payment process, please print the confirmation of bank transfer and fax it to: +49 (0) 431-880-2641 with your first name and surname. You can alternatively scan the confirmation of bank transfer and email it to registration@pme2013.de. Your pre-registration will not be finalized until the payment has been completed.

[1] Due to EU regulations, fees for bank transactions within the EURO zone are identical to fees for national bank transactions, see http://www.europa.eu for more information. If you are from a EURO zone country, please use the bank transfer option to keep costs low.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

***For international transfer***

| | |
|---|---|
| Recipient: | IPN Kiel |
| Address of the recipient: | Olshausenstrasse 62, 24118 Kiel, Germany |
| Reason for payment: | [*Please insert exactly the Reason for Transfer indicated in the pre-registration confirmation email!*] |
| Name of the bank: | Foerde Sparkasse |
| Int. bank account number (IBAN): | DE34 2105 0170 1001 8836 42 |
| Bank identifier code (BIC): | NOLADE21KIE |
| Address of the bank: | Lorentzendamm 28, 24103 Kiel, Germany |

***For national transfer:***

| | |
|---|---|
| Empfänger: | IPN Kiel |
| Verwendungszweck: | [*Bitte verwenden Sie exakt den Verwendungszweck, der in der Pre-Registration Bestätigungsemail als Reason of Transfer zugeschickt wird!*] |
| Bank: | Förde Sparkasse |
| Kontonummer: | 100 188 3642 |
| Bankleitzahl: | 210 501 70 |

## 8.5 Donations to the 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 8.7). 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.

## 8.6 Cancellation Policy

### 8.6.1 For registered participants

The registration for participation in the conference is binding. All cancellations and changes regarding the conference registration must be made in written form to the conference registration secretariat by sending an email to registration@pme2013.de. In all cases, **the conference deposit and membership fee only will not be refunded**; however, the deposit will cover one year of membership as well as a copy of the conference proceedings on CD, mailed to your address.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

If a cancellation for conference participation is made after the full registration fee has been paid:

- **Before June 15, 2013**, the refund will be the amount of full registration fee minus the conference deposit, also subtracting the commission that the bank charges for transferring the refund.
- **After June 15, 2013**, the refund will be only 50% of [Full registration fee minus conference deposit], subtracting the commission that the bank charges for transferring the refund.

### 8.6.2 For accompanying persons who cancel conference participation

- **Before June 15, 2013**, the amount paid minus the commission that the bank charges for transferring the refund will be refunded.
- **After June 15, 2013**, only 50% of the difference [Full registration fee minus conference deposit] will be refunded, also subtracting the commission that the bank charges for transferring the refund.

### 8.6.3 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 IGPME will be accepted towards the client.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

## 8.7 Richard Skemp Memorial Support Fund & Application for Financial Support

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 have to submit an individual contribution (RR, SO, PP) and pay the non-refundable conference deposit, without which the applicant's proposal will not be reviewed**. The grantees must have at least one proposal (RR, SO, 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 occasions will not receive an additional grant;
- for applicants who have already received a grant in a previous year, priority will go to those who have had a Research Report accepted rather than a Short Oral 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 2nd Program Committee meeting at the beginning of April, 2013 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. Any amount of grant over and above conference fees will only become available at the conference and is not available in advance.

Applicants for a grant should fill in the applicant form template which can be found on the PME 37 website (Registration/Skemp Fund) or at www.igpme.org/#/support/3845017 on the IGPME website. The application should be sent before **March 1, 2013** to:

**Bettina Roesken**

Ruhr-Universitaet Bochum
Fakultaet fuer Mathematik, NA/3/28
Universitaetsstrasse 150
44780 Bochum, Germany

Email: bettina.roesken@rub.de

If you do not receive an acknowledgement of receipt within 10 days, please resend it.

For more information visit the PME Website at www.igpme.org/#/support/3845017

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

# 9 Important Dates for PME 37

## 9.1 Scientific Program

| Type of session | Action | Date |
|---|---|---|
| **Personal Presentation:** | | |
| Research Report (RR) | Pre-Registration & Proposals & Payment of Conference Deposit | January 15, 2013 |
| Short Oral (SO) | Pre-Registration & Proposals & Payment of Conference Deposit | March 1, 2013 |
| Poster Presentations (PP) | Pre-Registration & Proposals & Payment of Conference Deposit | March 1, 2013 |
| **Group Activities:** | | |
| Research Forum | Proposals | November 1, 2012 |
| | Pre-Registration & Proposals & Payment of Conference Deposit | January 15, 2013 |
| | Full Papers | May 1, 2013 |
| Working Sessions | Pre-Registration & Proposals & Payment of Conference Deposit | March 1, 2013 |
| Discussion Groups | Pre-Registration & Proposals & Payment of Conference Deposit | March 1, 2013 |
| All accepted submissions | Final Registration | May 16, 2013 |

## 9.2 Registration

| | | |
|---|---|---|
| Pre-registration | Necessary for proposals to be reviewed | Starting on December 1, 2012 |
| Final Registration | Necessary for accepted proposals to be included in the PME proceedings | May 16, 2013 |
| Late Registration Fee | Registration fee plus additional 50 € | After May 16, 2013 |

## 9.3 Deadlines for PME 38, 2014 in Vancouver (Canada)

| | | |
|---|---|---|
| PME Pre-Submission Support | Contact the PME Pre-Submission Support Coordinator Nathalie Sinclair, nathsinc@sfu.ca | September 1, 2013 |
| Research Forums | Proposals to the PME Administrative Manager, info@igpme.org | October 1, 2013 |

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

# 10 Travel Information

## 10.1 About Kiel

Photo: Jürgen Haacks / Uni Kiel

**Kiel** is the capital and most populous city of the northern German federal state of Schleswig-Holstein. It is situated approximately 90 km to the north of Hamburg on the south-western shore of the Baltic Sea. Kiel is well-known for a variety of international sailing events, including the annual Kiel Week at the end of June, which is the biggest sailing event in the world. Kiel can be regarded as a gateway to Scandinavia and the Baltic States since a number of passenger ferries to Sweden and Norway operate from here. Furthermore, a lot of commercial and cruise traffic passes through the Kiel Canal. As 80% of the city was destroyed in the Second World War, the architecture of Kiel is quite new. Kiel is home to Kiel University and the University of Applied Sciences and thus has a large student population.

For more information on Kiel and surroundings:

www.kiel-sailing-city.de/en.html

www.sh-tourismus.de/en/index

## 10.2 How to reach Kiel?

The geographic location of Kiel is in the north of Germany. It is connected to Sweden and Norway by way of sea ferry, to Denmark and parts of Central Europe by train, and to all other countries via Hamburg International Airport (HAM) by aircraft.

### 10.2.1 By Air

By air, Kiel can be reached best via the international airport in Hamburg (www.flughafen-hamburg.de/en/) and by taking a transfer bus from the airport directly to Kiel. The coach *"Kielius"* leaves the airport at Terminal 1, Section C of the bus terminal approximately once every hour and goes directly to Kiel main bus station. Tickets can be purchased in the bus. With a combi-ticket, the bus driver will even call a taxi/cab for you which picks you up at Kiel main bus station and brings you to your hotel. For further details on prices and timetables visit www.kielius.de

It is also possible to fly to Lübeck airport (LBC) from some European destinations (www.flughafen-luebeck.de/en/). To get from Lübeck airport to Kiel, it is necessary to take a bus or train to Lübeck main train station first and then a train to Kiel (about one hour travel time).

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

### 10.2.2 By Sea

Scandinavian participants may take a ferry to Kiel. There are daily connections between Gothenburg (Sweden) or Oslo (Norway) and Kiel, as well as between Trelleborg (Sweden) and Travemünde/Lübeck (100 km east of Kiel).

The Stenaline (www.stenaline.com) from Gothenburg moors at the Kiel ferry port "Schwedenkai" and the Colorline (www.colorline.com) from Oslo at the "Norwegenkai". Note that no public busses run from the "Norwegenkai" on Sundays. You may instead either walk directly to the central station (approx. 600 meters) where all busses operate from or take a taxi. The TT-Line (www.ttline.com) from Trelleborg moors at the Travemünde/Lübeck ferry port "Lübeck-Travemünde Skandinavienkai". From Lübeck you can take a train to Kiel (about one hour travel time).

### 10.2.3 By Train

Kiel main station is located directly in the city center, only a few meters away from the ferry terminals, main bus station and the central taxi station.

For online reservations and train timetables, please refer to the homepage of "Deutsche Bahn", which is available at www.bahn.de (the website is available in more than ten languages). This website is also interesting if you are planning to go to other places in Germany or Europe after the conference since special train fares and combination tickets are offered.

### 10.2.4 By Car

Kiel is near to the A7 motorway (Autobahn A7) and is well sign-posted when travelling by car. From the north (Denmark/Flensburg): head south on the A7 motorway and exit onto the A210 to Kiel at "Kreuz Rendsburg".

From the south: head north on the A7 motorway via Hamburg and exit onto the A215 to Kiel at "Dreieck Bordesholm".
If you are considering renting a car, please be aware that most rentals are standard (or stick-shift). Make sure to ask for an automatic transmission if you prefer that. Some companies are very strict and you have to pay for each scratch when returning the car. So, when you pick up the car, have a close look at the car and make sure that any damage, bump etc. is written in the handover report.

## 10.3 Getting Around in Kiel

Kiel is not a big city (250,000 inhabitants) so conference participants will not face long distances. Most conference hotels have a walking distance of 30-45 minutes to the conference venue. Kiel has a good public transport system operated by a bus company called the KVG Kiel (www.kvg-kiel.de). A single bus ticket costs 2.40 €. Alternatively, there are various taxi companies operating in Kiel (e.g. www.taxikiel.de/index-E.htm). Taxis cost 2.50 € basic fare and about 1.40 € for each kilometer. From most hotels a taxi drive to the conference venue costs about 7-8 €. Furthermore, it is possible to rent a bicycle at various places.

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

## 10.4 About Germany

For general information on Germany please visit www.germany-tourism.de

### 10.4.1 Language

The official language of the conference is English. There will be no simultaneous translation. In Germany, the main language is German; many people can speak English as well. Please be aware that there are some specific German letters: ä, Ä, ö, Ö, ü, Ü and ß. In an international context, these letters are usually displayed as: ä = ae, ö = oe, ü = ue and ß = ss.

### 10.4.2 Passport / VISA

Germany is a member state of the European Union (EU). No visa is needed for EU citizens but citizens of many non-EU countries need a visa. Information can be found on the following website of the German government:
www.auswaertiges-amt.de/EN/EinreiseUndAufenthalt/Visabestimmungen_node.html

For non-EU citizens, please contact the nearest German Embassy or consulate for further details and the required formalities. Please remember to apply for a visa in good time.

Those who need an official invitation in order to obtain a visa for entering Germany, please read Section *10.4.3 Letter of Invitation*.

PME 37 cannot be held responsible for any matters related to obtaining visas.

### 10.4.3 Letter of Invitation

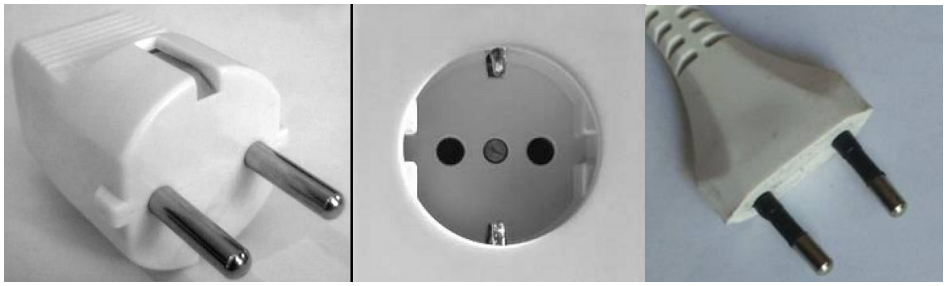
Delegates requiring a letter of invitation in order to attend the conference may write to the administrative secretariat specifying the necessary details. Please note that this procedure aims explicitly at assisting delegates who need to obtain a visa or permission to attend the conference. It is not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

### 10.4.4 Currency

The currency in Germany is Euro (EUR/€) and Cent (Ct; 100 Ct = 1 €). For exchange rates, please check the European Central Bank website: http://www.ecb.int/stats/exchange/.

### 10.4.5 Electrical Appliances

If you are planning to bring electrical equipment (e.g. battery chargers, laptop power supply, etc.) with you, please check whether you need an adapter. Electrical power is rated 220-230V at 50Hz.



**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

Most common power outlets are designed for two-pin Euro plugs (German style CEE7/4 Schuko, see www.en.wikipedia.org/wiki/Schuko).

### 10.4.6 Time Zone

In summer, the time in Germany is two hours ahead of Greenwich Mean Time (GMT + 2, Central European Summer Time CEST).

### 10.4.7 Germany Telephone Code

To call Kiel, Germany, you will need to dial: International Access Code for Germany +49 plus area code (the area code of Kiel is 431) and finally dial the correct telephone number. For example, if you need to call someone in Kiel with the telephone number 12345, you need to dial the number as +49-431-12345. For telephone calls within Germany, in order to call Kiel you only start with the area code of Kiel beginning with a 0 instead of the International Access code. For the example above you would dial 0431-12345.

### 10.4.8 Shopping in Kiel

#### *Sophienhof*

Shopping City Kiel – here you can find a shopping center next to the sea. The shops stretch across 2 levels incl. the Sophienhof, the Querpassage, the market hall, Karstadt and restaurants as well as coffee bars. This area is only a few minutes away from the harbor and the central station. (www.sophienhof.de)

**Opening times:** Monday-Friday 10 a.m. - 8 p.m./Saturday 10 a.m. - 6 p.m.

#### *Holstenstraße, Alter Markt at the historic city center, Dänische Straße*

Next to the Sophienhof, you will find the Holstenstraße, Germany's oldest pedestrian area, where Kiel's residents already took a walk in 1953. The pedestrian street leads to the old market and the church of St. Nicolai in the historical part of Kiel. There you can find coffee bars, restaurants and cocktail bars to take a break during your shopping tour. The Dänische Straße is the part of Kiel where exclusive shops offer selected exquisite products. Furthermore, you can experience Kiel's history by visiting the Warleberger Hof museum, the Maritime Museum or Kiel's Franciscan monastery.

**Opening times:** Monday - Friday 10 a.m. - 7 p.m./Saturday 10 a.m. - 4 p.m.

#### *Holtenauer Straße*

From the Dreiecksplatz along the Holtenauer Straße you will find a wide range of attractive shops and numerous coffee bars and restaurants. (www.die-holtenauer.de)

**Opening times:** Monday - Friday 10 a.m. - 7 p.m./Saturday 10 a.m. - 4 p.m.

#### *CITTI-PARK*

Situated next to the motorway (Autobahn), this shopping centre has more than 80 shops and boutiques in addition to a large gastronomic area. A parking lot with space for 3,200 cars (free of charge) makes shopping easy and relaxed. (www.cittipark.de)

**Update (April 10, 2013): Since the website was updated for the final registration, several references and hyperlinks in this document are out of date!**

**Opening times:** Monday - Saturday 10 a.m. - 8 p.m./Thursday 10 a.m. - 10 p.m.

### *Central station*

Located in the city center, but directly at the Kiel Fjord, Kiel's central station offers a full program: travelling, dining and shopping. 19 small shops offer various goods and services 7 days a week, even on Sundays and holidays!

**Opening times:** Monday - Sunday 8 a.m. - 10 p.m.

## 10.5 Weather

Germany has a four-season climate. The following table shows the average temperature in Kiel from June to August.

| | June | July | August |
|---|---|---|---|
| **Average High** | 18.8°C / 65.8°F | 21.3°C / 70.3°F | 21.3°C / 70.3°F |
| **Average Low** | 10.2°C / 50.4°F | 12.8°C / 55.0°F | 12.6°C / 54.7°F |
| **Average Temperature** | 14.5°C / 58.1°F | 17.1°C / 62.8°F | 17.0°C / 62.6°F |

The weather in Kiel is unpredictable. We may have a conference with sunny 30°C or with rainy 10°C. Since Kiel is a city at the sea, there will probably be a fresh breeze. Please check the Internet before you leave for Kiel, Germany (e.g. www.weather.com).

## 10.6 Liability and Insurance

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

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## 11 Accommodation

A variety of accommodation is available in Kiel, ranging from first-class hotels to a more budget-friendly youth hostel. For PME 37, we have pre-booked 570 rooms in eight hotels and one convention center and 99 beds in the youth hostel. The special prices for PME 37 are 20 € - 149 € per person per night. As at most German universities, student dormitories in Kiel are not available for guests.

***NOTE: ARRANGEMENTS FOR ACCOMMODATION BOOKING ARE IN PROGRESS***

The following links are only for your information. Hotel bookings for special PME 37 prices will be organized online via the PME 37 website. You will soon find information at www.pme2013.de

Atlantic Hotel (100 rooms, breakfast included, single: 129-149 €, double: 159-169 €)
www.atlantic-hotels.de/kiel/en/Start.html

Best Western Hotel Kiel (50 rooms, breakfast included, single: 79 €, double: 89 €)
www.nordic-hotels.com/en/kiel-best-western-hotel-kiel.htm

G Hotel (40 rooms, breakfast included, single: 79 €, double: 99 €)
www.ghotel.de/cms/english/hotels/kiel/kiel.html

Hotel Berliner Hof (60 rooms, breakfast included, single: 75 €)
www.berlinerhof-kiel.de/en/

Hotel Steigenberger Conti Hansa (100 rooms, breakfast included, single: 117-132 €, double: 136-149 €)
www.steigenberger.com/en/Kiel

Intercity Hotel (50 rooms, breakfast included, single: 85-100 €, double: 110-120 €)
www.intercityhotel.com/en/Kiel

Maritim Hotel Bellevue Kiel (50 rooms, breakfast included, single: 98-108 €, double: 120-130 €)
www.maritim.com/en/hotels/germany/hotel-bellevue-kiel

Nordic Hotel Astor (50 rooms, breakfast included, single: 69 €, double: 79 €)
www.nordic-hotels.com/en/kiel-nordic-hotel-astor.htm

Sparkassenakademie (convention center) (70 rooms, breakfast included, single: 50 €, double: 75 €)
www.sparkassenakademie.com (in German only)

Youth hostel (Jugendherberge) (34 rooms, breakfast included, single: ca. 29 €, double: ca. 26 € p. person, four-bed room: ca. 20 € p. person):
www.hihostels.com/dba/hostels-Jugendherbergen-Kiel-022016.en.htm

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# 12 Conference Excursions & Tours

In addition to the scientific program, we have prepared four options for an excursion to explore the host city and its surroundings. All costs for excursions like transportation, entrance fees etc. are covered by the registration fee.

## 12.1 City Tour Kiel

Kiel, the venue of PME 37, on the Baltic Sea is truly a Sailing City. As the venue of the sailing events for the 1972 Summer Olympics, life revolves around the water: The cruise port of the city is situated in the city center where cruise ships stop near the pedestrian zone. The Kiel Canal as the busiest artificial waterway in the world ends in Kiel and with the "Kieler Woche" (Kiel Week) the city is the organizer of the largest sailing event in the world and the largest festival in Northern Europe.

Kiel can be discovered on foot and by a boat tour on the Kiel Fjord. After the trips we will go to dinner at the "Kieler Brauerei" (Kiel brewery) where you can eat typical German food and watch how the typical German beverage is brewed.

## 12.2 City and Harbor Tour Hamburg

With 1.8 million inhabitants, Hamburg is the second largest city in Germany and the port of Hamburg is the second largest port in Europe. The green city on the river Elbe is considered young, modern and cosmopolitan. Hamburg offers remarkable historic buildings like the magnificent City Hall or, the symbol of the city, St. Michael's Church, a city center with many shopping malls, the sea port with the warehouse district in a fascinating brick architecture and the modern port city, the newly formed district next to the river Elbe with the new opera building, the Elbe Philharmonic Hall.

You can choose between a walking tour focusing on the city history or a boat trip focusing on the port and the trading history. The excursion ends in the restaurant "Schwerelos" where the food (but not the guests) goes on a rollercoaster.

Distance to Kiel: 60-90 minute bus drive (depending on traffic)

## 12.3 World Heritage Site: Hanseatic City of Lübeck

With the medieval town of Lübeck, in 1987 for the first time in Northern Europe, an entire town was recognized by UNESCO as a World Heritage Site. Winding streets and alleyways, old merchant houses, the world-famous Holsten Gate, the historic old town surrounded by water and the seven church towers make up the city of Lübeck. The city has over 1,000 listed buildings and represents one of the most important examples of Brick Gothic.

Three Nobel laureates originated from Lübeck. One of them is former German Chancellor Willy Brandt who got the Nobel Peace Prize in 1971. Dedicated to him, the city has a small museum where the 20$^{th}$ century history of Germany is presented. Focal points are the work of Brandt as a member of the resistance during the German Nazi era, as mayor of Berlin when

the Berlin Wall was built, and as German Chancellor during the cold war when he started the Ostpolitik (as a policy of détente).

The city will be explored on foot and by boat. The excursion ends with a dinner at the "Schiffergesellschaft", a restaurant built in the 16th century with a rustic seafaring atmosphere.

Distance to Kiel: 60-90 minute bus drive (depending on traffic)

## 12.4 Thermal Spa Scharbeutz at the Baltic Sea (minimum 25 persons)

Since conference excursions almost always have a cultural character, we decided to offer one non-cultural alternative for PME 37. For all those who want to relax during the hard conference work, the day at the Baltic Sea Spa Scharbeutz (www.ostsee-therme.de) is the right choice. The destination is located right on the Baltic Sea beach and with its aqua-world experience and several saunas, the Baltic Sea Spa Scharbeutz offers diverse recreation.

Distance to Kiel: 60-90 minute bus drive (depending on traffic)

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