

First Announcement

# The 36<sup>th</sup>

Conference of the International Group  
for the Psychology  
of Mathematics Education

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TAIPEI, TAIWAN

18-22 JULY, 2012

**Opportunities to Learn  
in  
Mathematics Education**



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## Welcome

Tai-Yih Tso (Chair of PME36) and the Local Organizing Committee are happy to invite you to attend *the 36<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education* (PME36), which will be held at *Wesley Girls High School*, Taipei, Taiwan, from 18 to 22 July, 2012. The host organizing committee is composed of members of *Taiwan Association for Mathematics Education* (TAME). Our effort will direct our annual meeting in 2012 to a social and scientific success.

**“Opportunities to Learn in Mathematics Education”** is chosen as the theme of PME36 to meet the prospect that education should be developed and promoted in more diversified dimension.

Taipei is well-known for its multi-culturism, technology, and beauty. We really hope you will have a wonderful time during your stay in Taiwan and look forward to seeing you in Taipei, in July 2012

Dr. Tai-Yih Tso

## Committees of PME36

The International Program Committees (IPC)		
João Felipe Matos	University of Lisbon (Portugal)	President of PME
Tai-Yih Tso	National Taiwan Normal University (Taiwan)	Chair of PME36
Silvia Alatorre	Universidad Pedagógica Nacional (Mexico)	
Marj Horne	Australian Catholic University (Australia)	
Kai-Ju Hsieh	National Taichung University of Education (Taiwan)	
Yuh-Chyn Leu	National Taipei University of Education (Taiwan)	
Pi-Jen Lin	National Hsinchu University of Education (Taiwan)	
Jeong-Suk Pang	Korea National University of Education (Korea)	
Der-Ching Yang	National Chiayi University (Taiwan)	

### The Local Organizing Committees (LOC)

<b>Tai-Yih Tso</b>	National Taiwan Normal University
<b>Shu-Yi Chang</b>	Taipei Municipal University of Education
<b>Yu-Hsien Chang</b>	National Taiwan Normal University
<b>Yu-Liang Chang</b>	National Chiayi University
<b>Chuang-Yih Chen</b>	National Taiwan Normal University
<b>Chia-Huang Chen</b>	Kun San University
<b>Ying-Hao Cheng</b>	Taipei Municipal University of Education
<b>Fang-Chih Cheng</b>	National Taiwan Normal University
<b>Chien Chin</b>	National Taiwan Normal University
<b>Jing Chung</b>	National Taipei University of Education
<b>Pi-Hsia Hung</b>	National University of Tainan
<b>Feng-Jui Hsieh</b>	National Taiwan Normal University
<b>Kai-Ju Hsieh</b>	National Taichung University of Education
<b>Li Tsung Wen Kuo</b>	National Taitung University
<b>Yuan-Shun Lee</b>	Taipei Municipal University of Education
<b>Shin-Yi Lee</b>	Taipei Municipal University of Education
<b>Yuh-Chyn Leu</b>	National Taipei University of Education
<b>Shuk-Kwan Leung</b>	National Sun Yat-Sen University
<b>Pi-Jen Lin</b>	National Hsinchu University of Education
<b>Su-Wei Lin</b>	National University of Tainan
<b>Po-Hung Liu</b>	National Chin-Yi University of Technology
<b>Yi-Wen Su</b>	Taipei Municipal University of Education
<b>Po-Son Tsao</b>	National Taiwan Normal University
<b>Chao-Jung Wu</b>	National Taiwan Normal University
<b>Jya-Yi Wu</b>	Wesley Girls High School
<b>Der-Ching Yang</b>	National Chiayi University
<b>Mei-Ling Yang</b>	Taipei Mandarin Experimental Elementary School
<b>Ru-Feng Yao</b>	National Chiayi University
<b>Jia-Ming Ying</b>	Taipei Medical University



## PME36 Secretaries

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PME 36 has a website at <http://www.tame.tw/pme36/> , where you can find updated information.

## About the International Group of 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.

### The Constitution of PME

The constitution of PME was adopted by the Annual General Meeting on the 17th of August, 1980 and changed by the Annual General Meetings on the 24th of July, 1987, on the 10th of August, 1992, on the 2nd of August, 1994, on the 18th of July, 1997 and on the 14th of July, 2005. We print here only two parts of the constitution. As members it is important that you are aware of your rights. 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://igpme.org>



## Honorary members of PME

Efraim Fischbein (Deceased)

Hans Freudenthal (Deceased)

Joop Van Dormolen (Retired)

## International Committee of PME

The International Committees (IC)		
<b>President</b>	<b>João Felipe Matos</b>	University of Lisbon (Portugal)
<b>Vice President</b>	<b>Tim Rowland</b>	The University of Cambridge (United Kingdom)
<b>Secretary</b>	<b>Laurie Edwards</b>	Saint Mary's College of California (USA)
<b>Treasurer</b>	<b>Marianna Tzekaki</b>	Aristotle University of Thessaloniki (Greece)
<b>Members:</b>	<b>Silvia Alatorre</b>	Universidad Pedagógica Nacional (Mexico)
	<b>Samuele Antonini</b>	University of Pavia (Italy)
	<b>Stephen Hegedus</b>	University of Massachusetts Dartmouth (USA)
	<b>Marj Horne</b>	Australian Catholic University (Australia)
	<b>Alena Hošpesova</b>	University of South Bohemia (Czech Republic)
	<b>Guri A. Nortvedt</b>	University of Oslo (Norway)
	<b>Jeong-Suk Pang</b>	Korea National University of Education (Korea)
	<b>Núria Planas</b>	Universitat Autònoma de Barcelona (Spain)
	<b>Marcia Pinto</b>	Universidade Federal de Minas Gerais (Brazil)
	<b>Leonor Santos</b>	Universidade de Lisboa (Portugal)
	<b>Bettina Dahl Søndergaard</b>	Aarhus University (Denmark)
	<b>Tai-Yih Tso</b>	National Taiwan Normal University (Taiwan)
	<b>Stefan Ufer</b>	University of Munich (Germany)

## PME Administrative Manager

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## The Scientific Program

The theme of the 36<sup>th</sup> Conference of PME is:

### **“Opportunities to Learn 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 a Short Oral Communication, if translation is provided by someone in the session.

The scientific program includes the following activities:

#### **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)
- National Presentation (NP)

## Plenary Sessions

### Plenary Lectures

There will be four plenary lectures from invited speakers. They will respond to the theme of the conference from different perspectives, such as psychological, sociological, didactical and epistemological/philosophical ones. For each plenary session, the total time of devotion is 60 minutes. A reactor will have 15 minutes to comment on the topic presented after the plenary. The presenter can spend 10 minutes making responses.

### Plenary Panel

A Plenary Panel will be offered on "Opportunities to Learn in Mathematics Education".

## Personal Presentations

### Research Report (RR)

#### *Format & Submission*

A Research Report may be proposed to the Program Committee by means of an ***eight-page text***.

Guidelines and instructions are given in the section titled: ***Instructions for Proposals & Templates*** on the official website of PME36. Proposals for Research Report presentations must be submitted via ConfTool no later than ***January 15th, 2012***. The accepted paper will appear in the proceedings only

if *full payment* of the Conference fee is made no later than **May 16th, 2011**.

Online-Registration via Conftool will be opened for contributions beginning **December 1st**, and the link will be published at <http://www.tame.tw/pme36/>.

## **Content**

The report should deal with “the psychological and other aspects of teaching and learning mathematics and the implications thereof”. What is new in the research and how it builds on past research, or goes in new directions should be stated in the report. Some level of critique must exist in the papers.

Each participant is allowed to present only one research report. No one is allowed have his or her name on the program more than four times as author or co-author, though more than four submissions are possible.

## **Types of papers**

Two types of papers are suitable:

### **A. Reports of empirical studies**

Qualitative, observational, ethnographic, experimental, quasi-experimental, case studies and mixed methods are all suitable. Empirically oriented papers should contain at least the following:

- i.** a statement about the focus of the paper;
- ii.** an indication of the theoretical framework and references to the related literature;

- iii. an indication of justification for the methodology used;
- iv. some sample data and results. (Additional data can be presented at the conference, but some data ought to accompany the proposal.)

## **B. Theoretical and philosophical essays**

These should include at least the following:

- i. a statement about the focus of the work;
- ii. an indication of the theoretical or philosophical framework within which the focus or theme of the paper is developed;
- iii. reference to related literature;
- iv. a clearly articulated statement of the author's position on the focus theme;
- v. implications for the existing research on the area.

## ***Review Process***

Proposals for the Research Reports will be reviewed by three PME members whose area of expertise matches the research categories applicants chose. In order for a proposal to be reviewed, the presenting author(s) must pay the Conference Deposit *no later than the January 15th, 2011*. 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 by *April, 2011*.

## **Presentation**

Total time of presentation for RR is 40 minutes: 20 minutes for oral presentation and 20 minutes for questions and comments. For more information, please contact the Conference Scientific Secretary

with this e-mail: [scpme36@gmail.com](mailto:scpme36@gmail.com)

## Short Oral (SO)

### *Format & Submission*

Short Oral Communications may be proposed to the International Program Committee via a **one-page abstract** which will be included in the Proceedings of the Conference if accepted. Please read the instructions for submitting a proposal (see *Instructions for Proposals & Templates* at <http://www.tame.tw/pme36/> .) before proposing a short oral paper. Proposals of Short Oral Communications must be submitted no later than **March 1st, 2012**. The proposal must be submitted via the ConfTool, the online registration system.

### *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. The *research component* of the Short Oral must be communicated in the proposal. The paper will be included in the proceedings only if *full payment* of the Conference fee is made no later than **May 16th, 2012**.

### *Review Process*

Proposals for such communications are reviewed by the International Program Committee. In order for a proposal to be reviewed, the presenting author(s) must pay the *Conference Deposit*. Notification of the decision of the Program Committee to accept or reject the Research Report proposal will be available in **April 2012**.



## Presentation

A total time of presentation for Short Oral is 20 minutes: 10 minutes for the oral presentation and 10 minutes for questions and/or comments. The presentations will be grouped according to distinctive themes. A discussion period of 15 minutes for each group will complete the presentations.

## Poster Presentation (PP)

### *Format & Submission*

Poster Presentations may be proposed to the International Program Committee by means of a **one-page summary**. 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 the registration system, no later than **March 1st, 2012**. Accepted abstracts will be included in the Proceedings. For presenting the poster during the conference you must pay the full Conference fee no later than **May 16th, 2012**.

### *Content*

Poster Presentations are intended for information/research that is best communicated in a visual form instead of a formal paper presentation. This abstract should describe both the content of the Poster and its particular visual characteristics.

### *Review Process*

Proposals for such communications are reviewed by the International Program Committee. Proposals of Poster Presentations must be submitted online via the registration system, no later than **March 1st, 2012**. Notification of the decision of the Program Committee to accept or reject the Poster Presentation proposal will be available in **April 2012**.

## ***Presentation***

There is no formal oral presentation for Poster Presentations; however, after sufficient display time, presenters will be available for discussion with conference participants.

# **Group Activities**

## **Research Forums (RF)**

### ***Format & Submission***

The Forum Presentation documents should follow the same specifications given for Research Reports (Please read *Intructions for Proposals & Templates* at <http://www.tame.tw/pme36/> ). Then submit your proposal via the ConfTool registration system. The deadline for proposals of Research Forums is ***October 1<sup>st</sup> 2011***. The total length of the full paper is ***30 pages***.

### ***Content***

The goal of a Research Forum is to create dialogue and discussion, by offering PME members more elaborated presentations, reactions, and discussions on topics about 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 research, highlighting contemporary debates and perspectives in the field.

A Research Forum:

- focuses on a topic which is of substantial interest within the work of PME,
- has a coherent structure that encourages intellectual debate,
- stimulates critical dialogue around this topic through the consideration of multiple perspectives,

- 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-advertised prior reading.

### ***Review Process***

In October, the International Program Committee reviews the proposals, providing feedback to the coordinators if a proposal is provisionally accepted for presentation at the conference. The coordinators will then have to provide the final version of their proposal in ***January 2012***. During the 1<sup>st</sup> IPC meeting, the IPC makes the final decisions. Then the coordinators have to write and submit the text for the proceedings not later than ***1st May 2012***.

### ***Presentation***

Two ***90- minute*** slots will be devoted to each Research Forum.

## **Discussion Group (DG)**

### ***Format & Submission***

***One-page*** proposals for a Discussion Groups must be submitted not later than ***March 1st, 2012***.

Guidelines for preparation of proposals for a Discussion Groups are specified at

<http://www.tame.tw/pme36/> . Then submit your proposal via the ConfTool registration system.

### ***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 DG may be the result of an Ad Hoc Meeting or an

intensive discussion of a research report during the previous conference. DGs may begin with short synopses of research work or a set of pressing questions. The DG is more exploratory in character, and especially suitable for topics which are not appropriate for collaborative work in a working session (WS) because they are not yet sufficiently elaborated ('emergent' topics), or because a coherent research strategy has not been identified. A successful DG may result in an application for WS one year later.

### ***Review Process***

A DG 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 DG as well as questions or goals which guide the work in the DG.
- A short outline about the goals and/or activities planned for each of the two 90 minutes sessions.
- A plan for how the attendees can participate actively in the discussion (a DG must not consist solely of presentations).

The International Program Committee (IPC) reviews and selects the DGs during the second IPC meeting. Notification of the decision of the IPC to accept or reject the proposal will be emailed in *April*. Accepted proposals will be included in the Conference Proceedings.

### **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 Administrative Manager ([info@igpme.org](mailto:info@igpme.org)) before *the end of September* following the conference. This report may be included in PME Newsletter.

## Working Sessions (WS)

### *Format & Submission*

**One-page** proposals for a Working Sessions must be submitted not later than **March 1st, 2012**. The PME36 website (See *Intructions for Proposals & Templates* at <http://www.tame.tw/pme36/> ) contains guidelines for preparation of proposals for a Working Sessions. Then submit your proposal via the ConfTool registration system.

### *Content*

The aim of Working Sessions is that PME participants collaborate in joint activity 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 WS can result from DG sessions of previous conferences where a topic was elaborated 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.

### *Review Process*

A WS 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 WS 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-minute sessions.

The International Program Committee reviews and selects the WS during the second IPC meeting.

Notification of the decision of the IPC to accept or reject the proposal will be emailed in *April*.

Accepted proposals will be included in the Conference Proceedings.

## Presentation

Two 90-minute sessions will be allocated to Working Sessions. After presentation, the coordinators of each WS are required to send a report of its activities to the PME Administrative Manager ([info@igpme.org](mailto:info@igpme.org)) before *the end of September* following the conference. This report may be included in PME Newsletter.

## National Presentations

### Content

The country hosting a PME conference can include a National Presentation in the scientific program of the PME conference. The goal of an NP 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 NP has to be organized as a combination of giving information about the national situation and relating/contrasting this information with international mathematics educational research.



### ***Reviewing process***

There is no specific submission and reviewing process. The conference chair informs about the NP during the second IPC meeting and announces the NP in the program.

### ***Presentation***

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

## **Instructions for Submitting a Proposal**

### **General Guidelines for Proposals**

The following rules apply to all types of proposals. In addition to the proceeding guidelines, all proposals should be concerned with mathematics education and conform to the major aims of PME as stated in the Constitution.

### ***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 PME36 at <http://www.tame.tw/pme36> through the link to

Conference Template, where you find the template and the instructions to fill it.

- No author's name should appear in the program more than four times, including Research Reports (RR), Short Oral (SO), Poster Presentation (PP), Research Forum (RF), Working Session (WS), Discussion Group (DG). Additionally, each author is limited to one Research Report Presentation.

### *General Regulations*

- Each applicant can be the presenting author on only one Research Report, or Short Oral Presentation. Each RR or SO applicant may also present a poster, as well as a Research Forum or Working Session/Discussion Group, if they wish.
- Only the author(s) of the paper can present on that paper. The names and addresses of first 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 participants, paying the non-refundable Conference Deposit by **January 15th, 2012**.
- In order to have a proposal for **SO**, **PP**, **WS** or **DG**, the presenting author(s) must be pre-registered as participants, paying the non-refundable Conference Deposit by **March 1st, 2012**.

### *Submitting the Proposal*

The submissions should include all required information relating to the research categories. Please download the template for all proposals, or through the link to Conference Template, where you find the template and the instructions to fill it. All files for PME 36 should be submitted in **DOC format** via the online system by the dates stated for each type of presentation. A blinded version of the paper, if required, should be submitted in

PDF format. Instructions for submitting the blind version will be given if such a version is required.

### ***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) name(s), and affiliation(s) of the author(s), in this order. The name of the presenting author(s) is underlined.

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

**Files and Files' names:** Files should be saved in **DOC format**, and filenames should indicate the type of proposal as well as the name of first 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).
- In the paper, all co-authors with their affiliations have to be included.

### ***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!
- The Conference Template you may download from PME36 website through the link to Conference Template, where you find the template and the instructions to fill it. 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

## 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 in their Reviewer information. The proposals will be sent to reviewers according to the research categories that are marked by the author(s). All proposals must be concerned with mathematics education.

### *Research Domains in Mathematics Education*

<b>1 Affect, emotion, beliefs and attitudes</b>	<b>13 Mathematical modeling</b>
<b>2 Algebra and algebraic thinking</b>	<b>14 Mathematical thinking</b>
<b>3 Assessment and evaluation</b>	<b>15 Measurement</b>
<b>4 Computers and technology</b>	<b>16 Metacognition</b>
<b>5 Concept and conceptual development</b>	<b>17 Number concepts and operations</b>
<b>6 Curriculum development</b>	<b>18 Probability and statistical reasoning</b>
<b>7 Equity</b>	<b>19 Problem solving/problem posing</b>
<b>8 Functions</b>	<b>20 Proof, proving and argumentation</b>

<b>9 Gender issues</b>	<b>21 Socio-cultural</b>
<b>10 Geometrical and spatial thinking</b>	<b>22 Teacher development</b>
<b>11 Imagery and visualization</b>	<b>23 Teacher's knowledge, thinking and beliefs</b>
<b>12 Language and mathematics</b>	<b>24 Work-place mathematics</b>

### *Grade Levels*

<b>Pre-school (e. g. age under 7)</b>
<b>Elementary (e. g. age 5-12)</b>
<b>Secondary (e. g. age 10-18)</b>
<b>Post Secondary (e. g. age 16+)</b>
<b>Non-student or unspecified grade level(s)</b>

### *Types of Research*

<b>Qualitative/interpretive methods</b>
<b>Quantitative methods</b>
<b>Mixed Methods (Quantitative and Qualitative)</b>
<b>Theoretical/Philosophical analysis</b>

## **Equipment for presentations**

The equipment listed below will be available for the presentations. There will be computers and projectors in every session.

- Slide Projector
- OHP Projector

- LCD Projector with computer
- LCD Projector with Video Player

For any other kind of equipment, please e-mail to the Scientific Secretary at [scpme36@gmail.com](mailto:scpme36@gmail.com)

Please indicate your preference and needs when completing the online registration and presentation submission. On-site booking of equipment will not be possible and hence has to be done in advance. Confirmation of the availability of your requested equipment will be sent by **May, 2012**.

## Registration and Payment

### Conference Pre-Registration & Payment of Membership Fee Only

#### Processes

The processes of *pre-registration* and *payment of membership fee only* (in case you will not be attending PME36) are carried out online. Before making registration for the Conference on PME36 or paying membership fee only, you should first register in the ConfTool System.

#### *Pre-Registration Process*

1. If you are the **New User** for ConfTool to make registration for a PME conference :
  - Please Create a New Account and register in the system.
  - You will need to provide your Personal Information and Account Information for building your own data base in the system.
  - After filling these details and submitting all information needed, you are able to continue with your Conference pre-registration, in case you wish to do it now.



2. If you **have been the user** of the ConfTool, please enter your user name and password to login, and select the option “**Pre-Register as Participant.**”
3. Select your status as PME participant by clicking on the appropriate option. The system will automatically take you to the Payment Form where you can continue with the on-line payment to pay the *Conference Deposit*.
4. During processing the on-line payment, the system will connect you with a Secure Page for you to complete your payment (see Payment & Fees below).

If you have any problem with your Conference Pre-Registration, please immediately contact the Conference Registrar at [pme36affairs@gmail.com](mailto:pme36affairs@gmail.com) or the Administrative Manager at [bettina.roesken@rub.de](mailto:bettina.roesken@rub.de).

### ***PME Membership Only***

If you have been a PME member in the past who won't attend PME36, or you want to become a new PME member who won't attend PME 36, pay the annual *Membership Fee* for IGPME through <http://www.conftool.com/pmemember> is definitely NECESSARY for keeping/getting the membership status.

1. As a New Member of PME:
  - Please Create account and register in the ConfTool System.
  - You will fill a form with your Personal Information and Account Information.
  - After filling these details and submitting all information needed, you are able to go on the process to pay Membership fee only, in case you wish to do it now. If you don't, please enter your user name and password to login, and select the option “*Pay Membership Fee*”

*ONLY*".

2. As a General Member of PME:
  - Please login by entering your username and password and select the option "*Pay Membership Fee ONLY*".
3. After selecting the status "*Membership Fee ONLY*", the system will automatically take you to the Payment Form where you can continue processing the on-line payment to pay membership fee.
4. During processing the on-line payment, the system will connect you with a Secure Page for you to complete your payment (see Payment & Fees below).

If you have any problem with your Conference Pre-Registration or Payment of Membership Fee Only, please immediately contact Conference Scientific Secretary .

## Payment Options

All participants can make their payment online via Credit Card or by Bank Transfer.

### *Payment by Bank Transfer*

If you prefer payment by Bank Transfer, please follow the instructions below to finish the payment process. At completing the wire transfer, please print your confirmation of Bank Transfer and fax to: **+886-2-29332342** with your first name and surname. You can alternatively scan the confirmation of Bank Transfer and e-mail to [pme36affairs@gmail.com](mailto:pme36affairs@gmail.com). Your pre-registration will not be finalized until the payment has been completed. That is, the Bank has the information that you have already made the payment for registration.

### **Details for the bank transfer**

Bank Name: Bank of Taiwan

Bank Account: 034004968857

Swift Code: BKTWTP034

Beneficiary Address / City: No.120, Sec.4 Roosevelt Rd., Taipei, Taiwan.

Branch Name - Code: Kung Kuang Branch

Account Owner Name/ Beneficiary: Tai-Yih Tso

### ***Payment by Credit Card***

If you use a credit card, the process will be carried out online. Certificate of security reassures that all transaction details are directly and only transferred to the bank. After concluding the process, the bank directly informs you about the state of the operation to check if it has been successful.

### **Payment & Registration Fees**

The registration fee is expected to be around 350 € Depending on the number of participants and external financial support, the exact amount will be decided in April 2012, just before the publication of the second announcement.

### ***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 not later than *May 16th, 2012*.
- The Conference Deposit covers:

- PME membership for the current year, 2012
- One set of the Conference Proceedings in print and on CD (if you attend the conference), or one set of the Conference Proceedings on CD as well as mailing costs (if you do not attend the conference.)
- The Administrative costs related to the handling of the proposals.

### ***Total Registration Fees***

The fee will cover:

- PME membership fee for the year 2012 with a *10 € compulsory donation* to the Skemp Fund
- A printed set of Conference Proceedings and CD (available at registration)
- Lunches (3 days) and Coffee Breaks (7)
- Opening reception (on *Wednesday evening, July 18, 2012*)
- Conference dinner (on *Saturday evening, July 21, 2012*) & Entertainment
- Costs of venue, administrative work and facilities needed for the organization of the conference.

### ***Accompanying person fee covers***

- Accompanying persons are also welcome. The fee for accompanying person is 100 €per person.
- The fee will cover:
  - Opening reception (on *Wednesday evening, July 18, 2012*)
  - Lunches (3 days) and Coffee Breaks (7)
  - Conference dinner (on *Saturday evening, July 21, 2012*) & Entertainment
  - Some of the administrative work involved, outside of the scientific program.

There is no fee for accompanying children under 13 years old. If you have any question, please

contact with the Administrative Secretary at [pme36affairs@gmail.com](mailto:pme36affairs@gmail.com).

### ***Late Registration Fee***

An additional charge of 50 € will be applied for late registration, after **May 16<sup>th</sup> 2012**.

## **Donations to the Skemp Fund**

The Richard Skemp Memorial Support Fund is a fund that was established so as 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 would not normally 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, the International Committee calls on members to make donations; however small, to the Skemp Fund in the appropriate place online when paying membership fees or registering for annual conference.

## **Cancellation Policy**

All cancellations and changes regarding the Conference Registration must be done writing to Conference Scientific Secretary through e-mail [scpme36@gmail.com](mailto:scpme36@gmail.com). In all cases the Conference Deposit and Membership Fee Only will not be refunded.

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

- **Before 19th of June 2012**, the refund will be the amount of Full Registration Fee thatn minus the Conference Deposit and the commission that the bank charges for refunding.
- **After 19th of June 2012**, only 50% of the Full Registration Fee (minus the conference deposit) will be refunded. The Conference Deposit and the commission that the bank charges for refunding are also minus.

**For accompanying persons who cancel conference participation:**

- **Before 19th June 2012**, no special charge is made by the conference and the commission that the bank charges for refunding is still minus.
- **After 19th June 2012**, only 50% of the full registration fee will be refunded. The commission that the bank charges for refunding is minus

## **Richard Skemp Memorial Support Fund & Apply for a financial support**

A limited amount of financial support is available to researchers who experience difficulty in obtaining financial support to attend PME conference for racial, political or philosophical reasons, or because of economic circumstances. 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. One applicant can receive grants for a maximum of two PME conferences, while in one year a maximum of two grantees can be given to applicants coming from the same country.

Applicants for a grant should fill in the Applicant Form (to obtain the Applicant Form Template at <http://www.tame.tw/pme36/>) to attend the 36th Conference of PME, and send it before **March 1st, 2012** to:

**Bettina Roesken**

*Ruhr-Universität Bochum*

Fakultät für Mathematik, NA/3/28, Universitätsstraße 150, 44780 Bochum, Germany

Phone: +49 (0) 234 32-23311

Email: [bettina.roesken@rub.de](mailto:bettina.roesken@rub.de)

If you do not receive an acknowledgment of receipt within 10 days, please resend it. For more information visit the PME Website in the section *Funding*.

## Important Dates

### Deadlines for PME36

#### *Scientific Program*

Type of Session	Action	Date
<i>Personal presentations:</i>		
<b>Research Report (RR)</b>	Proposals & Pre-Registration & Payment of Conference Deposit	January 15, 2012
<b>Short Oral (SO)</b>	Pre-Registration & Proposals & Payment of Conference Deposit	March 1, 2012



<b>Poster Presentations (PP)</b>	Pre-Registration & Summaries & Payment of Conference Deposit	March 1, 2012
<b>Re-submissions</b>	RR resubmitted as SO or PP	May 7, 2012
<i>Group activities:</i>		
<b>Research Forums</b>	Proposals	October 1, 2011
	Pre-Registration & Payment of Conference Deposit	January 15, 2012
	Full Papers	May 1, 2012
<b>Working Sessions</b>	Pre-Registration & Proposals & Payment of Conference Deposit	March 1, 2012
<b>Discussion Groups</b>	Pre-Registration & Proposals & Payment of Conference Deposit	March 1, 2012
<b>All accepted submissions</b>	Final Registration	May 16, 2012

### *Registration*

<b>Pre-registration</b>		Starting on December 1 <sup>st</sup> , 2012
<b>Final Registration</b>	Proposals included in the PME proceedings	May 16, 2012
<b>Late Registration Fee</b>	Registration amount Plus Additional 50€	After May 16, 2012
<b>Ordering of Proceedings by non-participants</b>	Online	May 26, 2012

### *Deadlines for PME 37, 2013*

Research Forums

Proposals

October 1, 2012 (<http://igpme.org/>)

## Venue

### Conference Venue: Wesley Girls High School

Wesley Girls High School is located near Waishuang Creek, Shi-Lin, Taipei, and in the immediate neighborhood of the National Palace Museum. Wesley High provides an environment in which students can enjoy the nature. Wesley is like a Utopia merged with modern technologies. Wireless internet is accessible around campus. Necessary equipment is installed in all classrooms for holding the conference.





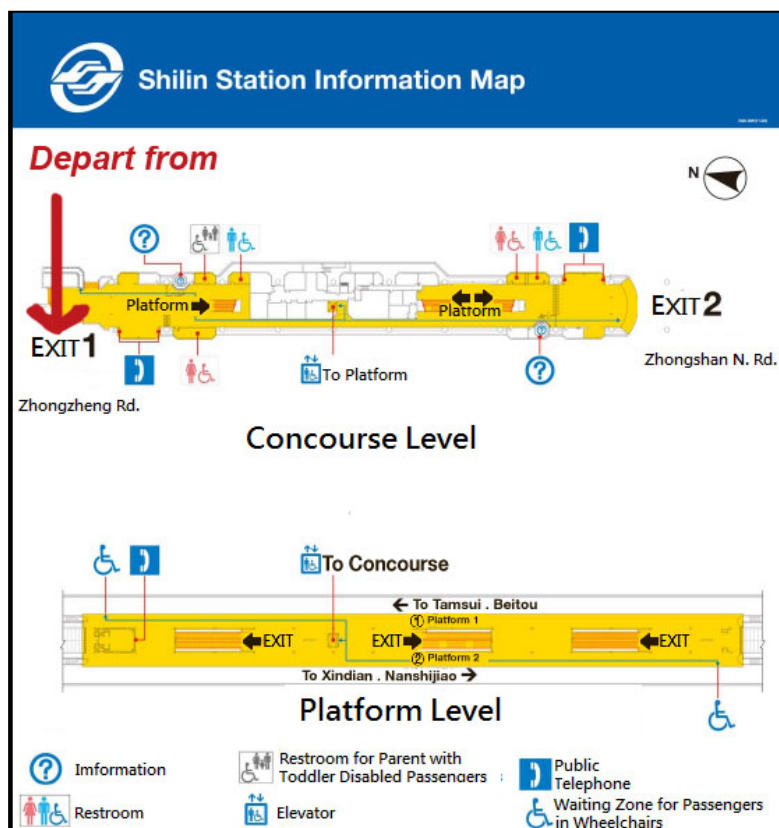
## How to reach Wesley Girls High School

### *By MRT & Bus*

#### **At Shi-Lin MRT Station:**

1. Take Massive Rapid Transportation (MRT) to Shi-Lin Station, and depart from Exit1.
2. Take 1 minute walk to Watson Drugstore (No. 243, Zhongzheng Rd. Taipei). The bus stop is located in front of Watson Drugstore.
3. Take bus No. 255, Mini-bus No. 18 or 19. Get off at the Wesley Girls High School Stop.
4. You may also take the bus No. 304 or 815. Get off at the National Palace Museum Stop and walk to Wesley Girls High School. It will take about 5 minutes.

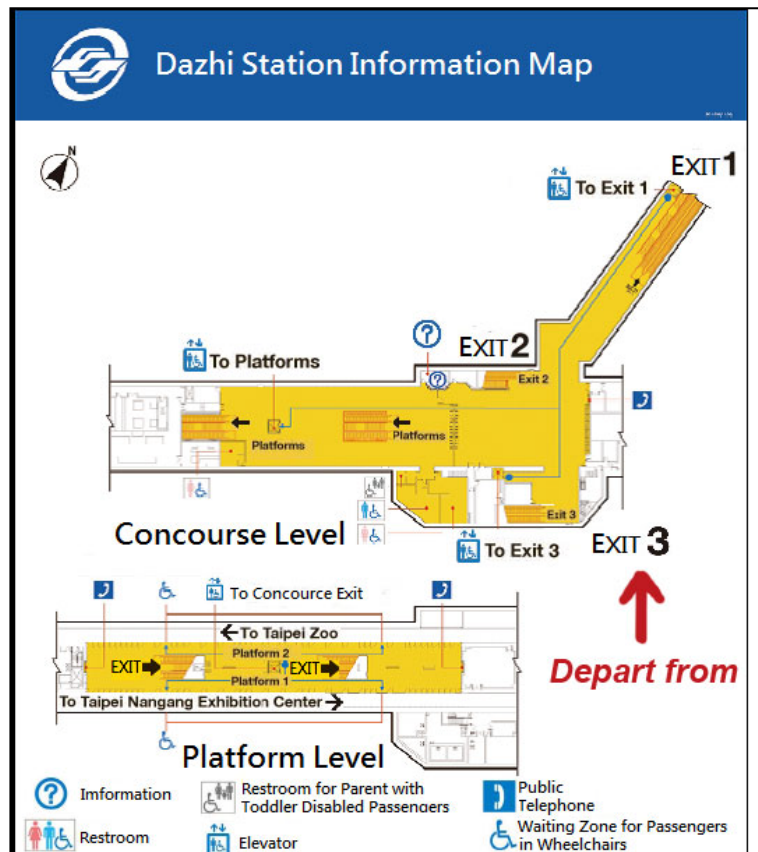




### At Da-Zhi MRT Station:

At Da-Zhi MRT Station:

1. Take Massive Rapid Transportation (MRT) to Da-Zhi Station, and depart from Exit3.
2. Take 1 minute walk to the bus stop (in front of No. 542, Beian Rd. Taipei).
3. Take the bus Brown 13 and get off at the Wesley Girls High School Stop.



## Route Map of MRT





## By Taxi

Taxi is one of the most convenient means of transportation in Taiwan. You can call a taxi anytime and almost anywhere if necessary. You can take a taxi to Wesley Girls High School. It may cost you 5 to 7 € if you take the taxi from Shi-Lin/Da-Zhi Station to Wesley Girls High School.

## About Taipei, Taiwan



**Taipei City** is the capital of Taiwan and the central city of the largest metropolitan area of Taiwan. Taipei is situated at the northern part in Taiwan. Taipei is the political, economic, and cultural center of Taiwan. Considered to be a global city, Taipei is part of a major industrial area. Railways, high



speed rail, highways, airports, and bus lines connect Taipei with all parts of the island. The city is served by two airports: Taipei Song-Shan Airport and Taiwan Taoyuan International Airport. Taipei maintains an extensive system of parks, green spaces, and nature preserves. Parks and forestry areas around the city include Yangmingshan National Park, Taipei Zoo and Da-an Forest Park, and so on. Yangmingshan National Park is famous for its cherry blossoms, hot springs, and sulfur deposits. Taipei is also the city containing abundant history and culture. The National Palace Museum which has one of the largest collections of Chinese artifacts and artworks in the world is located in Taipei. Taipei is also known for night markets. The most famous one is the Shilin Night Market in the Shilin District. The surrounding streets by Shilin Night Market are extremely crowded during the evening. Most stores and vendors in night market are usually opened in late afternoon and keep operating until the midnight. In the night market, you can taste delicious and special food, buy inexpensive and stylish clothing, and enjoy in various entertainment. Taipei city is composed of the beautiful nature, abundant cultures and history, high-developed technology, convenient transportation, special customs and humanities. Taipei is the city that will make you want to visit again and again. You can find all information about this city at <http://www.taipeitravel.net/user/main.aspx?Lang=2>.

## About Taiwan

Taiwan is also known, especially in the past, as Formosa. Taiwan is an island of East Asia in the western Pacific Ocean and located in the southeastern coast of mainland China. Separated from the Asian continent by the 160 km wide Taiwan Strait, the main island of the group is 394 km long and 144 km wide. The shape of the main island of Taiwan is similar to a sweet potato seen in a south-to-north direction, and therefore, Taiwanese, especially in the point of view of Min-nan division, often call themselves "children of the Sweet Potato." Taiwan's rapid economic growth in the decades after World War II has transformed it into an industrialized developed

country and one of the Four Asian Tigers. This economic rise is known as the Taiwan Miracle. It is categorized as an advanced economy by the IMF and as a high-income economy by the World Bank. Its advanced technology industry plays a key role in the global economy.

## How to reach Taipei, Taiwan

Taipei City is located at the northern part of Taiwan Island. You can visit to the other main cities in Taiwan by air, Taiwan Railway, Taiwan High Speed Railway, bus and so on. Taiwan is linked by air to a lot of main cities around the world, such as New York, Frankfurt, Tokyo, Seoul, etc.

### *By Air*

Taipei has its own international airport, *Taiwan Taoyuan Interational Airport*, and flights connect it with other major cities in Taiwan. It also has a domestic airport, *Taipei Song-San Airport*. There are several local flights connecting Taipei to other cities around Taiwan. *Taiwan Taoyuan Interational Airport* is situated 40 km away from the Taipei City. Shuttles of Taiwan High Speed Railway, coach bus and taxi services are all available at the airport. For the taxis, the fare of shuttling from the airport to Taipei City is around 50€ For further information, please contact

<http://www.taoyuan-airport.com/chinese/index.jsp>

### *By High Speed Railway*

You can take Taiwan High Speed Rai (Taiwan HSR) Shuttles to reach Taoyuan HSR Station. And then, transit to Taipei by taking HSR. Taipei HSR Station is constructed with Massive Rapid Transportation (MRT) altogether. When you arrive in Taipei. You can just transit to the hotel or the conference venue by MRT.

### ***By Couch Bus***

Travelers can transit from terminals at the airport to Taipei City by taking couch buses. The destination is near Taipei Railway Station. Taipei Railway Station, MRT Taipei Main Station and Taipei HSR Station are in the same structure. You can just transit to the hotel or conference venue by MRT.

There are a lot of bus companies providing services to transit from the airport to Taipei City. You can buy bus tickets from the reception areas of both Terminals1 & Terminal2. For Terminal1, Tickets Counters are located on the southwester side of the Arrival Passenger Reception Area (on the 1st floor). For Terminal2, the Bus Platform is situated at the northeaster side of the Arrival Passenger Reception (on the 1st floor). The fare of one-way shuttling is about 3 to 4€per adult. It may take about 30-50 minutes from the airport to Taipei City.

## **General Information**

### **Getting Around Taipei**

Taipei has the most convenient transportation system that can be used to travel throughout the city centre and beyond the city limits. Getting around is possible by MRT, Taiwan Railway, Taiwan High Speed Railway, bus and taxi. Those transportation vehicles are easily available throughout the city. There are regular bus and tax services around Taipei City. Cars renting services are also available in Taipei. The cost of taxi is approximately 4-6€for short distances

**Useful links about Transportation System in Taipei and Taiwan are as the following:**

[http://english.trtc.com.tw/MP\\_122032.html](http://english.trtc.com.tw/MP_122032.html) (MRT)

<http://www.taipeibus.taipei.gov.tw/TPBUS.aspx?lang=eng> (Taipei Bus Transit System)

<http://www.thsrc.com.tw/en/?lc=en> (Taiwan HSR)

<http://www.railway.gov.tw/> (Taiwan Railway)

## Languages

The official language of the conference is English. There will be no simultaneous translation. In Taiwan, three main languages are used, Mandarin, Min-Nan, and Hakka.

## Passport / VISA

Recently, a lot of countries are eligible for the **visa exemption** program. Please click the link

<http://www.boca.gov.tw/ct.asp?xItem=1443&ctNode=536&mp=2> to get more information about

visa exemption. ) However, for some non-Taiwan citizens from other countries, visas are still needed

Those who need an official invitation in order to obtain a visa for entering Taiwan, please contact the Conference Secretary as soon as possible!

To get more information about Landing Visas, please see:

<http://www.boca.gov.tw/ct.asp?xItem=1446&ctNode=536&mp=2>

## Letters 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 does not imply any other expenses or financial support from the conference organizers. The

registration fee must be settled for delegates who wish to claim an invitation letter. PME36 cannot be held responsible for any matters related to obtaining visas.

## Currency

The Taiwanese currency is NT dollar (NT\$). A currency converter is available at

<http://rate.bot.com.tw/Pages/Static/UIP001.en-US.htm>.

## Electrical Appliances

Electricity in Taiwan is 110 Volts, alternating at 60 Hertz. In some hotels, there are wall sockets for 220 Volts. If you travel to Taiwan with a device that does not accept 110 Volts at 60 Hertz, you will need a voltage converter.



You can link to <http://electricaloutlet.org/> for getting more information

## Time Zone

The time in Taiwan is eight hours ahead of Greenwich Mean Time (GMT + 8). Same time zone is used all around Taiwan

## Taiwan Telephone Code

To call Taipei, Taiwan, you will need to dial: International Access Code +886 plus area code (the area code of Taipei is “2”) and finally dial the correct telephone numbers. For example if you need to have a international call with someone in Taipei, Taiwan and his telephone number is 23639955, you need to dial the number as +886-2-23639955.

## Shopping

Most shops in Taiwan are open from 10:00 to 22:00 on Monday to Sunday. Night Markets are open from late afternoon to mid-night. Convenient stores like 7-11 or My Family are open for 24-hours.

## Weather

Taipei has a four-season, monsoon-influenced, and humid subtropical climate. The following is average temperature in Taipei from June to August.

	June	July	August
Average High	30°C/86°F	32°C/90°F	32°C/90°F

<b>Average Low</b>	<b>24°C/75°F</b>	<b>26°C/78°F</b>	<b>26°C/78°F</b>
<b>Average Temperature</b>	<b>27.7°C/81.86°F</b>	<b>29.6°C/°F</b>	<b>29.2°C/°F</b>
<b>Highest Temperature in a Month</b>	<b>36.2°C/97.16°F</b>	<b>37.7°C/99.86°F</b>	<b>37.5°C/99.5°F</b>
<b>Lowest Temperature in a Month</b>	<b>23.8°C/74.84°F</b>	<b>24.5°C/76.1°F</b>	<b>24.2°C/75.56°F</b>

Please click the link: <http://www.cwb.gov.tw/eng/index.htm> to get more information about the climate before reaching Taiwan.

## Liability and insurance

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. Please, check the validity of your own insurance.

## Other useful links

<http://eng.taiwan.net.tw/>

<http://visitaipei.pchome.com.tw/index.html?bid=taipeienglish>

## Accommodation

A variety of accommodation is available in Taipei, ranging from luxurious 5-star to more budget-friendly 2-star hotels and guest houses. We are recommending a special region for accommodation: The Grande Hotel. The Grande Hotel is near to the Yuan-Shan MRT station. You can just take MRT and reach to Shi-Lin MRT Station. And then, transit to Wesley Girls High School by the taxi or the bus. The Grand Hotel is famous as its elegant classic Chinese carves and



golden roof tiling. The Grand hotel is the building fusing western architecture and Chinese art foundation. Fusion of western and eastern cultures and specialties makes this building more charming and attractive. The Grande Hotel is also in the vicinity of many places for food and shopping. The most famous night market, *Shi-Lin Night Market* is near the Grande Hotel.

You can just take the MRT from *Yuan-Shan Station* (to *Dan-Shui Direction*), and then get off at the next station, *Jian-Tan Station*. *Shi-Lin Night Markets* is just over there. Otherwise, you can take MRT from *Yuan-Shan Station* (to *Dan-Shui Direction*) and get off at the second station, *Zhong-San MRT Station*. You can depart from EXIT3, and you can see the commercial area of department stores.

We will provide special MRT and bus passes for participants and all participants can freely go around Taipei City by taking transportation vehicles. If you want to get more information about the Grande Hotel, you can link to the following address:

<http://www.grand-hotel.org/main/Article.aspx?a=29&lang=en-US>

**NOTE: ARRANGEMENT FOR ACCOMMODATION ARE IN PROGRESS**