



FIRST ANNOUNCEMENT

10 - 15 JULY 2011 ANKARA / TURKEY

35TH CONFERENCE OF THE INTERNATIONAL GROUP FOR THE PSYCHOLOGY OF MATHEMATICS EDUCATION

DEVELOPING MATHEMATICAL THINKING



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Conference Web Page:
www.pme35.metu.edu.tr



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Welcome

Behiye UBUZ (Chair of PME 35) and the Local Organizing Committee invite you to attend to *the 35th Conference of the International Group for the Psychology of Mathematics Education* (PME 35), to be held at the Orta Doğu Teknik Üniversitesi (ODTÜ) [Middle East Technical University (METU)], Ankara, Turkey, from 10 to 15 July, 2011.

The theme of the conference, “*Developing Mathematical Thinking*”, has been chosen as the development of mathematical thinking is an explicit part of National Curricula and Standards all over the world.

All our efforts will be directed to make our 2011 annual meeting socially and scientifically successful. We hope that your stay in Turkey will be a pleasant experience and look forward to seeing you in Ankara, in July 2011.

Committees and Secretariat of PME 35

Two committees are responsible for the organization of the PME 35 Conference

The International Program Committee (IPC)

| | |
|-----------------------|--|
| João Filipe de Matos | University of Lisbon (Portugal), President of PME |
| Behiye Ubuz | Middle East Technical University (Turkey), Chair of PME 35 |
| Hatice Akkoç | Marmara University (Turkey) |
| İbrahim Bayazıt | Erciyes University (Turkey) |
| Aiso Heinze | Leibniz Institute for Science Education (Germany) |
| Mehmet Fatih Özmantar | Gaziantep University (Turkey) |
| Tim Rowland | Cambridge University (United Kingdom) |
| Tai-Yih Tso | National Taiwan Normal University (Taiwan) |

The Local Organizing Committee (LOC)

Middle East Technical University (METU) Component

| | |
|--------------------|------|
| Meral Aksu | METU |
| Safure Bulut | METU |
| Erđin Çakırođlu | METU |
| Břlent Çetinkaya | METU |
| Ayhan Kürřat Erbař | METU |
| ıđdem Haser | METU |
| Mine Iřıksal | METU |

National Component

| | |
|----------------------|-----------------------------------|
| Petek Ařkar | İzmir Ekonomi University |
| Cengiz Alacacı | Bilkent University |
| Murat Altun | Uludađ University |
| Oylum Akkuř | Hacettepe University |
| Adnan Baki | Karadeniz Teknik University |
| Erhan Bingřlbali | Gaziantep University |
| Gřney Hacıřmerođlu | anakkale OnSekiz Mart University |
| Burcu Karahasan | Bilkent University |
| Sibel Kazak | Pamukkale University |
| řeref Mirasyediođlu | Bařkent University |
| Sinan Olkun | Ankara University |
| Asuman Duatepe Paksu | Pamukkale University |
| Zřlbiye Toluk Uar | Abant İzzet Baysal University |
| Aysun Umay | Hacettepe University |
| Sibel Yeřildere | Dokuz Eylřlř University |

Conference Scientific Secretariat:

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

Meriç Özgeldi

Elementary Education

Middle East Technical University

06531 Ankara, Turkey

Phone: + 90 312 210 40 62

Fax: + 90 312 210 79 71

E-mail: scpme35@metu.edu.tr

Conference Registrar:

For matters related to the registration and payment please contact

A. Kürşat Erbaş

Secondary Science and Mathematics Education

Middle East Technical University

06531 Ankara, Turkey

Phone: + 90 312 2103652

Fax: + 90 312 2107971

E-mail: pme35register@gmail.com

Conference Administrative Secretariat:

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



Tolga Koç

ARBER Professional Tourism and Congress Services

Sair Nedim Sokak No: 19/ 1 06540 A.Ayranci / Ankara - TURKEY

Phone : + 90.312.441 07 00

Fax : + 90.312.441 07 01

E-mail : adminpme35@arber.com.tr

PME 35 has a website at <http://www.pme35.metu.edu.tr> where you can find updated information.

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.

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://www.igpme.org>

Honorary members of PME

Efraim Fischbein (Deceased), Hans Freudenthal (Deceased), and Joop Van Dormolen (Retired)

International Committee of PME

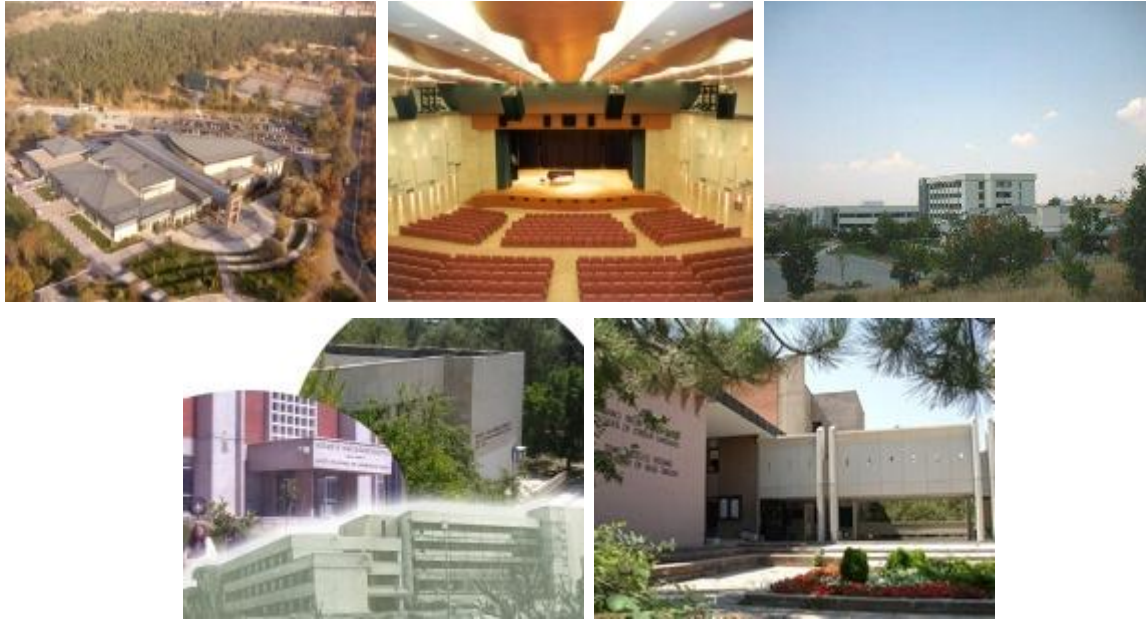
| | | |
|------------------------|-------------------|---|
| President: | João Filipe Matos | University of Lisbon (Portugal) |
| Vice President: | Aiso Heinze | Leibniz Institute for Science Education (Germany) |
| Secretary: | Laurie Edwards | St. Mary's College of California (USA) |
| Treasurer: | Mariann Tzekaki | Aristotle University of Thessaloniki (Greece) |
| Members: | | |
| | Silvia Alatorre | Universidad Pedagogica Nacional (Mexico) |
| | Samuele Antonini | Universita' Di Pavia (Italy) |
| | Bettina Dahl | Aarhus University (Denmark) |
| | Soendergaard | |
| | Olimpia Figueras | Instituto Politécnico Nacional (Mexico) |
| | Cristina Frade | Universidade Federal de Minas Gerais (Brazil) |
| | Marj Horne | Australian Catholic University (Australia) |
| | Alena Hospesova | University of South Bohemia (Czech Republic) |
| | Bat-Sheva Ilany | Beitberl (Israel) |
| | Jeong Suk Pang | Korea National University of Education (Korea) |
| | Marcia Pinto | Universidade Federal de Minas Gerais (Brazil) |
| | Núria Planas | Universitat Autònoma de Barcelona (Spain) |
| | Tim Rowland | The University of Cambridge (United Kingdom) |
| | Tai-Yih Tso | Hsin-Chu University of Education (Taiwan) |

PME Administrative Manager

Bettina Roesken

University of Bochum
Faculty of Mathematics
Universitätsstrasse 150
44780 Bochum
Phone +49 (0) 234 32-23311
Email: info@igpme.org or bettina.roesken@rub.de

Conference Venue



The conference venues will be the Cultural and Convention Centre (<http://www.ccc.metu.edu.tr>), Department of Business Administration (<http://www.ba.metu.edu.tr>), Faculty of Education (<http://www.fedu.metu.edu.tr/web/eng/index.html>), and Department of Basic English (<http://dbe.metu.edu.tr/>) located in the campus of Middle East Technical University (<http://www.metu.edu.tr>).

The participants will be transported from the conference hotels to the conference venue.

The Scientific Program

The theme of the 35th Conference of PME is

“Developing Mathematical Thinking”

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 following a Research Report or a Short Oral Communication in their first language, provided that translation is possible by someone present in the session.

The scientific program includes the following activities:

Plenary Sessions

Plenary Addresses

There will be four plenary addresses from invited speakers, each being devoted 60 minutes. Each plenary address will respond to the theme of the conference from a different perspective: didactical, teacher, learner, and assessment. 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.

A Plenary Panel

A Plenary Panel will be offered on "**Supporting the Development of Mathematical Thinking**" from invited speakers.

Group Presentations and 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 take place during the parallel time allotments, and have limited space.

Research Forums (RF)

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. 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. Research Forums should be on topics of substantial interest to the PME community.

Submission

The deadline for Research Forums is October 1st, 2010. The total length per Research Forum is 30 pages.

Review Process

The Program Committee selects the topics and co-ordinators of the Research Forum and reviews the proposals, providing feedback to the co-ordinators in the case where a Forum is tentatively accepted for presentation at the conference.

Presentation

Two 90 minutes slots will be devoted to each Research Forum.

Working Sessions (WS)

The aim of Working Sessions is to ensure that PME participants collaborate in a joint activity. Each Working Session should be complementary to the aims of PME and ensure maximum involvement of each participant. A Working Group application must have a coordinator and an assistant coordinator, both of whom must be active members of PME

Submission

One page proposals for a Working Session must be submitted no later than March 1st, 2011, and should include descriptions of specific tasks or activities to be carried out in the sessions. When proposing a Working Group, download the Conference Template, and use it to prepare your one-page proposal (without an Abstract) (see *Instructions for Proposals, and Template and Guidelines* at <http://www.pme35.metu.edu.tr>). Then submit your proposal via the ConfTool registration system .

In order for a proposal to be considered, the coordinators must pay the Conference Deposit by the submission date.

Reviewing process

The Program Committee reviews and selects the Working Sessions. Notification of the decision of the International Program Committee to accept or reject the proposal will be e-mailed in April 2011. Accepted proposals for a Working Session will be included in the Conference Proceedings, provided the full Registration Fee for the coordinators is paid before May 16th, 2011.

Presentation

Two 90-minute sessions will be allocated to this activity. After presentation, the coordinators of each Working Session are required to send a report of its activities to the PME Administrative Manager at info@igpme.org . This report may be included in PME News Letter. The report is due by September 20th, 2011.

Discussion Groups (DG)

The objective of a Discussion Group is to provide attendees with the opportunity to collaborate with one another around a specific topic of shared interest. DGs may begin with short synopses of research work, a set of pressing questions, or a provocative jumping off point (such as a short video clip). A Discussion Group application must have a coordinator and an assistant coordinator, both of whom must be active members of PME

Submission

One page proposals for a Discussion Group must be submitted no later than March 1st, 2011. When proposing a Discussion Group, download the Conference Template, and use it to prepare your one-page proposal (without an Abstract) (see *Instructions for Proposals, and Template and Guidelines* at <http://www.pme35.metu.edu.tr>). Then submit your proposal via the ConfTool registration system .

In order for a proposal to be considered, the coordinator must pay the Conference Deposit by the submission date.

Reviewing process

The International Program Committee reviews and selects the Discussion Groups. Notification of the decision of the International Program Committee to accept or reject the proposal will be e-mailed in April 2011. Accepted proposals will be included in the Conference Proceedings, provided the full Registration Fee for the coordinators is paid before May 16th, 2011.

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). This report may be included in PME News Letter. This report is due by September 20th, 2011.

Personal Presentations

Research Reports (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 or Short Oral Presentation. No one is allowed to have his or her name on the programme more than four times, as an author or co-author, on any kind of presentation or group session.

Types of papers

Two types of papers are suitable for Research Reports:

A. Reports of empirical studies (observational, ethnographic, experimental, quasi-experimental, and case studies are all suitable). Reports of empirical studies should contain, at 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
- a preliminary analysis

B. Theoretical and philosophical essay types of papers should contain, at minimum, the following:

- a statement regarding the focus of the submitted paper
- a statement about the paper's theoretical or philosophical framework
- reference 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.

Submission

A Research Report must 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, and Template and Guidelines* at <http://www.pme35.metu.edu.tr>. Proposals for Research Report presentations must be submitted via Conftool, the online registration system, no later than January 15th , 2011.

The Conftool System will be opened for contributions beginning December 1st, at <http://www.conftool.com/pme35> .

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(s) must pay the Conference Deposit no later than 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.

The submitted paper will appear in the proceedings only if full payment of the Conference fee is made no later than May 16th, 2011.

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.

More guidelines will be given directly to the reviewers of Research Reports. More instructions for the reviewers as well as examples of good and bad reviews are available at:

<http://www.igpme.org/view.asp?ItemID=7&tname=tblComponent2&oname=Online%20pages&pg=front>

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 scpme35@metu.edu.tr

Short Oral Communications (SO)

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

Proposals of Short Oral Communications must be submitted no later than March 1st, 2011. While proposing a Short Oral paper, first read the Instructions for submitting a proposal (see *Instructions for Proposals, and Template and Guidelines* at <http://www.pme35.metu.edu.tr>), download the Conference Template, choose the research category for your proposal (Table of Categories) and then submit it online via the ConfTool registration system.

Short Oral Communications must be proposed to the International Program Committee via a one-page summary that will be included in the Proceedings of the Conference if accepted.

Review Process

In order for a proposal to be reviewed, the presenting author(s) must pay the Conference Deposit when the proposal is submitted. Proposals for such communications are reviewed by the Program Committee. Notification of the decision of the Program Committee to accept or reject the Short Oral proposal will be e-mailed in April 2011.

The abstract will appear in the proceedings only if full payment of the Conference fee is made no later than May 16th, 2011.

Presentation

Short Oral presentations will be grouped by themes, in sets of three 10-minute presentations. A discussion period of 30 minutes will complete each group of three presentations. Alternatively, each presentation will be allotted a total time of 20 minutes: 10 minutes for the oral presentation and 10 minutes for questions and/or comments.

Poster Presentations (PP)

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

Submission

Proposals of Poster Presentations must be submitted no later than March 1st, 2011 by means of a one-page summary. This summary should describe both the content of the Poster and its particular visual characteristics. While proposing a Poster Presentation, first read the Instructions for submitting a proposal (see *Instructions for Proposals, and Template and Guidelines at <http://www.pme35.metu.edu.tr>*), download the Conference Template, choose the research category for your proposal (Table of Categories) and then submit it on line via the ConfTool system.

In order to present the poster during the conference you must pay the full Conference fee no later than May 16th, 2011.

Review Process

Proposals for Poster Presentations are reviewed by the International Program Committee. Accepted abstracts will be included in the Proceedings.

Notification of the decision of the Program Committee to accept or reject the Poster Presentation proposal will be e-mailed in April 2011.

Presentation

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

National Presentation (NP)

A National Presentation is intended to give participants an overview of the research activities carried out in a hosting country and its potential contribution to the community's work.

General Guidelines for Proposals

Submitting a Proposal

All proposals must be submitted via the ConfTool Conference System at <http://www.conftool.com/pme35>. Please be sure that your proposal is formatted correctly, using the Conference Template, and that you have named and saved it as directed below.

The submissions should include all required information relating to the research categories; you will select these categories when you submit your proposal through ConfTool. First, please download the template for all proposals through the link to Conference Template, where you find the template and the instructions to complete it (see *Instructions for Proposals, and Template and Guidelines* at <http://www.pme35.metu.edu.tr>).

All files for PME 35 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, without authors' names or identifying information, if required, 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 the preceding listed 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 PME35 website (<http://www.pme35.metu.edu.tr>) through the link to Conference Template, where you find the template and the instructions to fill it.

General Regulations

- Each applicant can be presenting author on only one RR or SO 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.
- 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).
- Only the author(s) of the paper can present 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 a research report 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, 2011.
- 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, 2011.

Format of Papers

number of pages: The maximum number of pages are 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 presenting author, as detailed below.

- XX_Lastname.doc, where XX is the abbreviation of the presentation type.
- 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 can be downloaded from PME35 website (<http://www.pme35.metu.edu.tr>) through the link to Conference Template, where you find the template and the instructions for filling it in. The template provides the exact format and style. 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 in the ConfTool online system. 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

| | |
|--|--|
| 1 Affect, emotion, beliefs and attitudes | 13 Mathematical modeling |
| 2 Algebra and algebraic thinking | 14 Mathematical thinking |
| 3 Assessment and evaluation | 15 Measurement |
| 4 Computers and technology | 16 Metacognition |
| 5 Concept and conceptual development | 17 Number concepts and operations |
| 6 Curriculum development | 18 Probability and statistical reasoning |
| 7 Equity | 19 Problem solving/problem posing |
| 8 Functions | 20 Proof, proving and argumentation |
| 9 Gender issues | 21 Socio-cultural |
| 10 Geometrical and spatial thinking | 22 Teacher development |
| 11 Imagery and visualization | 23 Teacher's knowledge, thinking and beliefs |
| 12 Language and mathematics | 24 Work-place related mathematics |

Grade Levels

| | |
|--------------------------------|--------------------------------|
| Pre-school (e. g. age under 7) | Secondary (e. g. age 10-18) |
| Elementary (e. g. age 5-12) | Post Secondary (e. g. age 16+) |

Types of Research

| | |
|------------------------------------|---|
| Qualitative/interpretive methods | (e.g. Case Study, Action Research, Collaborative Research, Ethnography, Narrative, Teaching Experiment) |
| Quantitative methods | (e. g. Survey design, Experimental design) |
| Theoretical/Philosophical analysis | |

Equipment for Presentations

The equipment listed below will be available for the presentations. There will be computers and LCD projectors in every session. For any other kind of equipment, please e-mail to the Scientific Secretariat at scpme35@metu.edu.tr .

- * Slide Projector
- * OHP Projector
- * LCD Projector with computer
- * LCD Projector with Video Player

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, 2010.

Early Bird Submissions (for PME 36)

The Early Bird Procedure for Research Reports and Short Oral Communications is intended for novice or inexperienced researchers who would like to receive guidance from more experienced PME researchers. Applicants should submit their paper to a 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 Early Bird Procedure is closed for this conference.

People who wish to have a mentor for the PME36 Conference in 2012 should submit a Research Report or Short Oral Communication and contact the coordinator as early as possible, no later than September 6th, 2011.

The Early Bird 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.

The Early Bird coordinator is Richard Barwell (Canada), richard.barwell@uottawa.ca.

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.

Registration and Payment

Conference Pre-Registration

Pre-registration for PME 35 will be carried out online using the ConfTool Conference Registration System, at <http://www.conftool.com/pme35>. The annual Membership Fee is included in the cost of Pre-Registration. The ConfTool system will be open for pre-registration in December, 2010; an announcement with the exact date will be posted at the site as soon as it is available.

To pre-register for PME 35:

1. Go to <http://www.conftool.com/pme35>
2. If this is the first time you have used ConfTool to register for a PME conference, select "Create account". You will be asked to complete a form with your Personal Information and then to choose a User Name and Password. Please make a note of these two items (you can also retrieve them later from the ConfTool system).
3. If you have previously used ConfTool to register for a PME conference, you should enter the User Name and Password you previously created. This information can be retrieved by clicking on "Forgotten your User Name?" or "Forgotten your Password?". If you don't use your original username and password, the system will respond that there is already a user registered with your e-mail address.
4. Select the option "Pre-Register as Participant." (Note: If you don't want to pre-register now, you can return later to do so by logging in with your User Name and Password).
5. Then, select your status as PME member by clicking on the appropriate option, and then click Proceed.
6. The system will take you to the Payment Form and then present options for making your payment (Bank Transfer or Credit Card)

If you have any problem with your Conference Pre-Registration, please immediately contact the Conference Registrar at pme35register@gmail.com or the Administrative Manager at info@igpme.org

PME Membership Only

If you are not planning to attend PME 35 but would like to pay the annual fee for membership in the International Group for the Psychology of Mathematics Education (PME), you may do so at <http://www.conftool.com/pmemember> :

To pay the annual Membership Fee for PME:

1. Go to <http://www.conftool.com/pmemember>.
2. If this is the first time you have paid the membership fee through ConfTool, select "Create account". You will be asked to complete a form with your Personal Information and to choose a User Name and Password. Please make a note of these two items (you can also retrieve them from the ConfTool system).
3. If you have used ConfTool before to pay the membership fee, enter your User Name and Password. This information can be retrieved by clicking on "Forgotten your User Name?" or "Forgotten your Password?". If you don't use your original username and password, the system will respond that there is already a user registered with your e-mail address.
4. Select the option "Register as Member."
5. If you would like to order Conference Proceedings for PME 35, indicate so on the form and then click Proceed.
6. The system will take you to the Payment Form and then present options for making your payment (Bank Transfer or Credit Card)

If you have any problem with your Payment of Membership Fee, please immediately contact the Administrative Manager at info@igpme.org

Registration Fees and Payment

The registration fee is expected to be around 400-450 €. Depending on the number of participants and external financial support the exact amount will be decided in April 2011, just before the publication of the second announcement.

The Conference Deposit of 130 € 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, 2011.

The Conference Deposit covers:

- * PME membership for the current year 2011
- * 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.

The Total Registration Fee covers:

- * PME membership fee for the year 2011 with a 10 € compulsory donation to the Skemp Fund
- * A printed set of Conference Proceedings and CD (available at registration)
- * Lunches (4 days) and Coffee breaks (9)
- * Opening reception (Sunday evening)
- * Conference dinner (Thursday evening) & Entertainment
- * Excursions and Social events
- * Costs of venue, administrative work and facilities needed for the organization of the conference.

Accompanying person fee covers:

We welcome accompanying persons. The fee for accompanying person is 100 € per person. The fee will cover:

- * Opening reception (Sunday evening)
- * Conference dinner (Thursday evening) & Entertainment
- * Excursions and Social events
- * Some of the administrative work involved, outside of the scientific program.

Lunch coupons will be available for accompanying persons at a fixed price at the registration desk. There is no fee for accompanying children under 13 years old.

Please, address any questions you have about these two processes to the Conference Registrar at pme35register@gmail.com

Late Registration Fee

An additional charge of 60 € will be applied for late registration, after May 16th 2011.

Payment Options

All participants can make their payment online via credit card or by bank transfer. If you choose to pay by bank transfer, you will receive the required bank information for the wire transfer at the end of the process. The information is also given below; however, please do not transfer your payment without first using the ConfTool system to pre-register and/or register (<https://www.conftool.com/pme35>).

If you have difficulty paying online via credit card, you may use the manual payment process by filling out the credit card information on the mail order form (see *Registration and Payment* at <http://www.pme35.metu.edu.tr>)and sending it via fax to (+90 312 2107971).

Details for the bank transfer

Bank Name : Turkiye Is Bankasi A.S.

Swift Code : ISBKTRIS

Beneficiary Address / City : Ankara

Branch Name - Code : Kucukesat - 4208

Account Owner Name/ Beneficiary : ARBER

Euro Account Number : 0463910

IBAN : TR430006400000242080463910

Please send the confirmation of your bank transfer along with your first name and surname by fax (+90 312 2107971) or email (pme35register@gmail.com).

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. 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, 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 in the appropriate place online when paying membership fees or registering for annual conference.

Cancellation Policy

- The **registration for participation in the conference is binding.**
- All cancellations and changes regarding the Conference Registration must be done in writing to Conference Scientific Secretary at scpme35@metu.edu.tr .
- In all cases the Conference Deposit 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.
- If a cancellation for conference participation is made after the full registration fee has been paid: Before 31st of May 2011, the refund will be the amount paid minus the Conference Deposit, also subtracting the commission that the bank charges for transferring the refund. Between 31st of May 2011 and the starting date of the conference, only 50% of the full Registration Fee minus the conference deposit will be refunded, also subtracting the commission that the bank charges for transferring the refund.
- For accompanying persons who cancel: Before 31st May 2011 the amount paid minus the commission that the bank charges for transferring the refund will be refunded. Between 31st of May 2011 and the starting date of the conference only 50% of the amount paid will be refunded, subtracting the commission that the bank charges for transferring the refund.
- Participation is not guaranteed until full payment of the registration fee is received.
- The conference program may be subject to changes.
- Payments will be refunded if the conference is canceled by the organizer. In that case, the organizer will have no further liability to the client.
- Registrations remain valid if the conference has to be postponed.

Richard Skemp Memorial Support 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. 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 (Research Report, Short Oral, Poster Presentation) 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 (Research Report, Short Oral, Poster Presentation) accepted. An applicant's proposal for an activity is reviewed in the normal way and either accepted or rejected by the International Program Committee.

The grant will be paid directly to the awardees, during the conference. Applicants should realize that they have to find a way to pay the full travel costs in advance, as the grants will only be handed over after arrival at the conference.

Applications for a grant should fill in the Applicant Form to attend the 35th Conference of PME, which can be found on the conference website at <http://www.pme35.metu.edu.tr> . The application should be sent before March 1st, 2011 to:

Bettina Roesken

University of Bochum
Faculty of Mathematics
Universitaetsstrasse 150
44780 Bochum
Email: info@igpme.org or 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 (<http://www.igpme.org>) in the section Funding.

Important Dates

Deadlines for PME35

| Activity Required | Proposals and papers | Date |
|---------------------------------|---|---|
| Research Forums | Proposals | October 1 st , 2010 |
| | Full Papers | May 1 st , 2011 |
| | Online Registration and Payment | January 15 th , 2011 |
| Research Reports | Online Registration, Full Paper & Payment of Conference Deposit | January 15 th , 2011 |
| Short Oral Communication | Online Registration, Paper & Payment of Conference Deposit | March 1 st , 2011 |
| Poster Presentation | Online Registration, Paper & Payment of Conference Deposit | March 1 st , 2011 |
| Discussion Group | Online Registration, Paper & Payment of Conference Deposit | March 1 st , 2011 |
| Working Session | Online Registration, Paper & Payment of Conference Deposit | March 1 st , 2011 |
| Reviewer Information | Online Information | December 14 th , 2010 |
| Early Bird Proposals | Full paper | September, 2010 to Early Bird coordinator |

Registration

| | | |
|--|---|-----------------------------------|
| Pre registration | | Starts December 1 st |
| Final Registration | Registration must be completed by this date for papers to be included in the proceedings | May 16 th , 2011 |
| Late Registration Fee | Registration amount Plus Additional €60 | After May 16 th , 2011 |
| Ordering of Proceedings by non-participants | With membership, at http://www.conftool.com/pmemember | May 26 th , 2011 |

Deadlines for PME 36, 2012

| | | |
|-----------------------------|---|---|
| Early Bird Proposals | Contact to Early Bird coordinator | September 6th, 2011 |
| Research Forums | Proposals to PME Administrative Manager | October 1st, 2011 (see http://igpme.org) |

Travel Information

About Ankara

Ankara is the capital of Turkey and the country's second largest city after Istanbul. The city has a population (as of 2005) of 4,319,167 (Province 5,153,000), and a mean elevation of 850 m (2800ft). It is the center of the province of the same name, which is a predominantly fertile wheat steppe-land with forested areas in its northeast region. Ankara is an important commercial and industrial city. The industries produce wine and beer, flour, sugar, macaroni products, biscuits, milk, cement, mosaic paving, construction materials, tractors, carpets and leather goods. In recent decades, tourism has become an important industry. For the region around Ankara, mohair is the most valued product. The agriculture produces fruit and wheat.

It is the center of the Turkish Government, and houses all foreign embassies. It is an important crossroads of trade, strategically located at the center of Turkey's highway and railway networks, and serves as the marketing center for the surrounding agricultural area. The city was famous for its long-haired Angora goat and its prized wool (mohair), a unique breed of cat (Angora cat), white rabbits and their prized wool (Angora wool), pears, honey, and the region's muscat grapes.

The architecture of Ankara is quite varied, a reflection of the city's history. The oldest remains go back to Roman times, and include a bath, the Column of Julian and the Temple of Roma and Augustus. From the Byzantine period, a citadel and a cemetery are worthy of note. The town, once an important trading center on the caravan route to the east, had

declined in importance by the nineteenth century. It became an important center again when Kemal Atatürk chose it as the base from which to direct the War of Liberation. In consequence of its role in the war and its strategic position, it was declared the capital of the new Turkish Republic on the 13th October, 1923. After Ankara became the capital of the newly founded Republic of Turkey, new development divided the city into an old section, called Ulus, and a new section, called Yenışehir. Ancient buildings reflecting Roman, Byzantine, and Ottoman history and narrow winding streets mark the old section. The new section, now centered on Kızılay, has the trappings of a more modern city: wide streets, hotels, theaters, shopping malls, and high-rises. Government office and foreign embassies are also located in the new section. Ankara's shopping centres are clustered around Ulus, Kızılay and Kavaklıdere. One popular place for visitors is the Çıkırıkçılar Yokuşu and its shops, near Ulus. Around the castle in Ulus, in the area of Çıkırıkçılar Yokuşu and Samanpazarı, there are shops which sell traditional handicrafts such as textiles, copper, ceramics, wickerwork and leather, as well as a variety of jewellery, decorations, gift items and all types of antiques. In the Bakırcılar Market, there is a wide selection of goods on offer like souvenirs, antiques and clothes as well as copperware and jewellery. At the end of the ascent to the castle is a small bazaar with stands selling spices, dried fruit and nuts and other products.

Atatürk Bulvarı, chestnut trees, sparrows and vivid stores line the street. The illuminated windows, bookstores, pastry shops, restaurants, cafes, business centers and **pasajs** (arcades) are proof of this city is lively. If you go up towards Çankaya you'll reach Kavaklıdere. Here you will find [Tunalı Hilmi Caddesi](#) one of the newest shopping areas and favorite places to stroll in Ankara. It is famous for its **pasaj**, modern shops, cafes, pastry shops, music stores and cinemas. Another lovely area to explore is **Arjantin Caddesi** in Gaziosmanpaşa. Several smart cafes, restaurants, famous designer boutiques, home decoration stores, jewelers and gourmet shops will tempt you. The other big shopping malls are; Armada, Cepa, Kentpark, Gordion.

The cuisine of Old Ankara displays much of the home-cooked food of the Turks, with the oven and tandoor, and cellars for winter supplies. There is a wide variety of dishes in Ankara: Soups such as as dutmac, keskek, miyane, sutlu, tarhana and toyga. Meat dishes include Ankara tavası, alabortme, calla, coban kavurması, iliskik, kapama, orman kebabı, patlıcanlı et, sizgic, siyel and siper. To accompany, there is a wide variety of pilaf (rice dishes) such as bici, wheat pilaf, ogmac asi and pit pit pilaf. There are also stuffed dishes like efelek dolması, manti, sirden dolması (humbar) and yalancı dolma. The pastries of Turkey are delicious, and include alt-ust boregi, ay boregi, bohca, entekke boregi, hamman, kaha, kol boregi, papac, Pazar boregi, tandir boregi.

How to reach Ankara

Centrally located in Anatolia, Ankara is bordered by the provinces of Çankırı and Bolu to the north, Eskişehir to the west, Konya and Aksaray to the south, and Kırıkkale and Kirşehir to the east, and Istanbul 550 km west. It is linked by air, bus, and/or train to all countries.

By Air

Most of the airlines only fly to Atatürk Airport or Sabiha Gökçen Airport, which are in İstanbul. So you have to transfer to another vehicle; another airplane, train or bus. There are lots of bus companies routed between Ankara and İstanbul; the trip takes 5-6 hours. It costs around 40 TL (around 20 Euro) one- way. Also some of the local airlines can provide cheap tickets (AtlasJet, Onur Air, Pegasus, Anadolu Jet, Türk Hava Yolları (Turkish Airlines)).

Turkish Airlines <http://www.thy.com>

Pegasus Airlines <http://www.flypgs.com>

Onur Air <http://www.onurair.com.tr>

AtlasJet <http://www.atlasjet.com>

Anadolu Jet <http://www.anadolujet.com>

Turkish Airlines (THY) at Esenboga Airport:

Tel: (+90 312) 398 0000 / 1517 or (+90 312) 398 0550.

THY City Offices Tel: (+90 312) 419 1492; (+90 312) 428 0200.

Fax: (+90 312) 428 1681

Ankara Esenboga Airport is 33 km (21 miles, about 40 minutes in normal traffic) northeast of the city center, reached by inexpensive (10-15 TL (around 5-7 Euro)) airport shuttle bus (HAVAŞ) to/from the AŞTİ bus terminal or Ankara Gar train station. From the airport shuttle bus stations in downtown Ankara (one near the Gar train station, and the other at the bus station AŞTİ), one can take a metered taxi to the hotels. HAVAŞ runs every half an hour from both directions.

HAVAS Esenboga Airport

Tel: (+90 312) 398 0000 ext. 1649

A metered taxi would cost about 60-80 TL (around 30-40 Euro) from the airport to your hotels.

By Bus

Using a bus to get into Turkey is another option. This is good and cheap if you're planning to get into Turkey from a nearby country such as Bulgaria, Romania or Greece. For Greece – Turkey routes you can even book tickets online through [Varan Tourism](http://www.varan.com.tr) (<http://www.varan.com.tr>) for Thessaloniki to Istanbul. If you're planning to do that from a farther European country then it may get quite tiring although you can at times find such a service, especially from Germany or Austria.

From Asia, one can take buses from Georgia to Turkey in both Batumi and Tbilisi but service is irregular and one should inquire around. From Armenia one can go through Georgia by bus to Turkey. From Iran there are buses to Turkey from Tabriz and from Syria one can get a minibus (shared taxi) from Aleppo to Adana. If you're starting your journey to Turkey in Damascus you should get the bus to Aleppo and switch to shared taxi there.

Most of the intercity and international buses arrive at İstanbul Esenler Otogar from Europe. You can reach Ankara from İstanbul by three different way again; bus, train and airplane (see previous section, By Air).

Some major bus companies are ;

Ulusoy – www.ulusoy.com.tr

Varan - www.varan.com.tr

Metro – www.metroturizm.com.tr

Nilüfer – www.niluferturizm.com.tr

Kamil Koç – www.kamilkoc.com.tr

By Sea

Most of the routes link to Greek locations, mostly islands, with close-by Turkish locations and, a bit farther, Italy with Turkey. There are several companies operating such lines. If you're looking for a ferry from Italy to Turkey or vice-versa as well as alternatives to Greek-Turkey ferries you

should look on Aegean Ferry Services. They have a good map showing all of their ferry routes. One of the most interesting is their ferry from Ancona to Çeşme.

By Train

Train journeys can be made to Istanbul directly from and via some of the major cities of Europe. And also you can reach to Ankara by train after reaching to İstanbul.

For more information and fares: <http://www.tcdd.gov.tr>

By Private Car

You can come to Ankara by your car. But we don't advise you to use this way because of the road situation and customs regulations. Participants from Greece, Croatia, Romania, Hungary, Serbia and Montenegro may choose to use this method.

General Route: Private car: London - Istanbul, approximately 3,000 km. Northern Route: Belgium, Germany, Austria, Hungary, Romania, Bulgaria, and Turkey. Southern Route: Belgium, Germany, Austria, and Italy, with a ferry to Turkey.

Getting Around Ankara

Ankara has a big public transportation system with two connected underground systems, two type bus systems (1. you buy ticket from ticket kiosk (büfe) and 2. you pay after you get into the bus), and also dolmuş system (these are mini busses with an arranged route and arranged fee). But these transportation systems do not work after 00:00. Taxis work all day.

About Turkey

The country is surrounded by the Black Sea to the north, the Aegean to the west and the Mediterranean to the south. Two straits (the Bosphorus and the Dardanelle) form gates to the inner Marmara Sea, dividing Thrace - the European part, and Anatolia - the Asian part of the country. Turkey share borders with Greece and Bulgaria in the West, Georgia and Armenia to the Northeast, Iran to the East and Iraq and Syria in the Southeast.

The landscape presents an astonishing variety, from large plains to high mountains stretching east to west. Nature mingles with history at every step, bearing the heritage of several civilizations. Since the first settlements of 6500 B.C. on this land, legend has always embellished reality, leading us, from the path to Noah's Ark on Mountain Ararat in Eastern Turkey or the dramatically beautiful rock churches of the first Christians hiding in Cappadocia, to Ephesus or Aspendos, miraculously preserved monuments to the Hellenistic-Roman civilizations.

Turkey has the best of Mediterranean climates, though warmer and more reliable than the western Med but not as humid and sweltering as the eastern or southern Med. Spring begins in May and summer reaches deep into October along the lower Aegean and throughout the Mediterranean coasts. Istanbul, central and eastern parts of Anatolia become quite cold between December and April.

Spring and summer travellers to Turkey need to bring T-shirts, shorts, sunhat, pants, swim-wear, a sweater or a light jacket for that chilly evening after a suntan, and a sturdy pair of walking shoes. Those arriving in Turkey in the winter must pack rain-gear and a warm overcoat together with gloves, hats and warm woollens. During the Congress the weather could be warm with balmy evenings but one should not forget also the possibility of rain showers and cool evenings.

In 1923, Turkey became a republic under the leadership of Mustafa Kemal ATATÜRK. Today the Turkish State is a parliamentary democratic country employing a self-governing system. The capital is Ankara, in the heart of the country. The legislative power is vested in the TBMM (Turkish Grand National Assembly) and the executive power is used by the President as the Head of the State, together with the Council of Ministers and the Prime Minister.

The visitor today will discover every amenity of a modern western country, from efficient taxis to an extensive internal flight system. Today's Turkey, open to the world, follows a liberal policy in economy just as in its political structure.

Agriculture plays an important role in the economy of Turkey, which has signed a Customs Union Agreement with the European Union. Turkey is self-sufficient in food production and produces enough surpluses for export as well. Leading industries include the processing of agricultural products, metallurgy, textiles and the manufacturing of automobiles and agricultural machinery. With the increased development of summer and winter resorts, Turkey is becoming a major European tourist destination. The tourism industry earns an average annual income of more than \$7 billion U.S. for the Turkish economy and this amount is increasing yearly.

The population is 99% Moslem. Turkey is a secular state and recognizes freedom of worship. It is the only country in the world in which mosques, churches and synagogues have coexisted peacefully for centuries.

Turkey, known as " the cradle of civilization," hosted the first human settlement on its soil, which has been dated as 12,000 years old. Turkey is also the home of ancient cultures, including the Hattis, Hittites, Phrygians, Urartians, Lycians, lydians, Ionians, Persians, Macedonians, Romans, Byzantine's, Seljuks and Ottomans. Following the decline of Ottoman Empire, the modern Republic of Turkey was founded in 1923 by Mustafa Kemal, known as Ataturk, an army general and World War I hero. Ataturk is revered in Turkey and is cited as one of the world's greatest statesmen.

Turkish is an Altaic language written in the Latin script since 1928. Most well-educated Turks and especially those involved in the tourism business speak excellent English and often French and German as well.

Soccer, basketball and wrestling are Turkey's most popular spectator sports. A water sports haven, yachting, snorkelling, diving, fishing and windsurfing are also extremely popular. Turkey also offers downhill skiing, trekking and mountain biking.

Conference Excursion & Tours

The Scientific Program of the PME35 is enriched with various social events and tours in order for participants to explore the host city and country and for the conference to be an enjoyable and memorable event for everyone.

Conference Excursion

1st Excursion: Ankara City Tour

Duration: 5 Hours (included: transportation by coach bus, coordinator, professional guide, entrance to museum)



The meeting point of the tour is the conference venue, from where participants take the bus to the Anatolian Civilizations Museum, exhibiting gold, silver, glass, marble and bronze works date back as far as the second half of the first millennium BC. Then, they walk to the Ankara Castle built by the Romans, then repaired and expanded by the Selçuk in order to guard the city for centuries, is now a symbol of Ankara and its history is as old as the city itself. Later on, the bus will take participants to the II. Turkish Grand National Assembly Museum of Republic built as the Republican's People Party Headquarters in 1923, was later converted to function as the Assembly building in which Atatürk's principals and reforms came to life, the most important decisions taken on the way to develop the new Republic by contemporary legislation. Continuing the tour, the bus will take the participants to the Mausoleum of Atatürk, Republic's founder and leader. The

Anitkabir museum is located between the Tower of the National Pact and the Tower of the Revolution. A number of Ataturk's personal belongings are exhibited, including clothes that he wore, and gifts presented to him by visiting foreign dignitaries.

After enjoying the wonderful panoramic view of the city, the bus will take the participants back to the conference venue or to the hotels.



2nd Excursion: Kızılcahamam Soğuksu National Park Tracking Tour

Duration: 6 Hours (included: transportation by coach bus, coordinator, professional guide, entrance to museum)

The bus will depart from the conference venue. After 2 hours of driving, we will arrive to the entrance of the Soğuksu National Park. We will start walking through the peak and when we reach the peak, we will give a little break and enjoy the magnificent view and also have chance to see a rare type of vulture (Aegypius monachus) around the peak. Then we will start to walk down the hill and enjoy the hyacinths, Purple crocuses, yellow crocuses and other type of wildflowers. Lastly, we will walk through the forest and reach the starting point. Our bus will be waiting for us and we are expecting to be in Ankara around 7 pm.

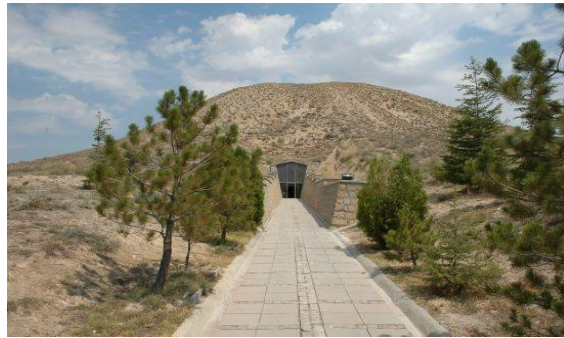
Personal Items required for this trip: photo camera, sun glasses, protective lipstick, trekking shoes, comfortable trekking clothes, hat, rain coat, spare socks and clothes.



3rd Excursion: Gordion

Duration: 5 Hours (included: transportation by coach bus, coordinator, professional guide, entrance to museum)

The bus will depart from the conference venue . After an hour of driving, we will arrive to Gordion which was the capital of the Phrygians where there are almost a hundred tumulus graves of notables who lived and died between Phrygian and Galatian times.



The largest tumulus has been identified as belonging to king Midas famed in Greek mythology as the possessor of the golden touch, and still contains some wooden furniture probably from his palace.

Next stop is the Acropolis and then to the Local Museum in which there are some remnants from the surroundings though the main findings are on display in the Anatolian Civilizations Museum in Ankara.

After a 5-hour tour, the participants will arrive back in the city approximately at 5 pm.

4th Excursion: Beypazarı

Duration: 6 Hours (included: transportation by coach bus, coordinator, professional guide)



The bus will depart from the conference venue. After 1.5 hours of scenic driving, we will arrive to Beypazarı. Beypazarı is small town and is situated on the historical Silk Road, and there are about 3000 existing wooden houses. The Beypazarı tour starts with Hıdırlıktepe, a panoramic hill overlooking Beypazarı, a good photo opportunity. The tour will continue with Aladdin Street, a unique place where local Beypazarı style houses can be seen. Next in the program will be the Living Museum. The museum features local handicrafts such as needlepoint, embroidery, jewellery, copperware and woodcarving. Our next stop will be the Aladdin Mosque, dating back to the Selçuklu period. After visiting the Aladdin Street area, we then visit the Silversmith's Market to see some examples of locally made silver handicrafts.

After a 6-hour tour, the participants will arrive back in the city approximately at 6 pm.

Pre-Post and Accompanying Tours

A variety of excursions and tours as well as holiday arrangements can be organized for all interested participants before and after the conference.

Excursions and tours are also organized for accompanying guests throughout the 4 days of the conference.

For further information please contact Administrative Secretariat, at adminpme35@arber.com.tr

Minimum of attendants: 5 pax/per tour/excursion

CAPPADOCIA TOUR (1 NIGHT & 2 DAYS)

Göreme Valley, Uçhisar, Göreme Open – Air Museum, Fairy Chimneys of Ürgüp, Devrent Valley



EPHESUS & PAMUKKALE TOUR (1 NIGHT & 2 DAYS)

Temple of Artemis, House of Virgin Mary, Şirince Village, Ancient City of Hierapolis, Terraces, Thermal Waters



SAFRANBOLU & AMASRA TOUR (1 NIGHT & 2 DAYS)

Cinci Han, Cinci Hamam, Koprulu Mosque with its sundial clock, Pasa Mosque and Ulu Mosque



ISTANBUL TOUR (1 NIGHT & 2 DAYS)

Sightseeing, Roman Hippodrome, Blue Mosque, St. Sophia (Hagia Sophia), Topkapi Palace, Grand Bazaar.



General Information

Languages

The official language of the conference is English. There will be no simultaneous translation.

Passport / VISA

Turkey is a EU-member candidate state. No visa is needed for EU citizens. For non-EU citizens please contact the nearest Turkish Embassy. Visas are needed for citizens of nearly all non-EU countries. Those who need an official invitation in order to obtain a visa for entering Turkey, contact the Conference Secretariat as soon as possible!

Details on visa requirements can be found on the [website of Ministry of Foreign Affairs](http://www.mfa.gov.tr/) <http://www.mfa.gov.tr/>. Consular section of the Ministry of Foreign Affairs: <http://www.mfa.gov.tr/turkish-representations.en.mfa>

PME35 cannot be held responsible for any matters related to obtaining visas.

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 is not an official invitation covering fees and other expenses and does not imply any financial support from the conference organisers.

Currency

The legal Turkish currency is Turkish Liras (TL) and Kuruş (Kurush) (Kr) (100 Turkish Kurush= 1 Turkish Lira). The approximate rate of exchange is about 2.20 TL/EUR. For the actual rate, check Central Bank Of the Republic of Turkey website: <http://www.tcmb.gov.tr/yeni/eng/>

Electrical Appliances

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

Most common power outlets are designed for ungrounded two-pin Euro plugs (those commonly found in small devices, razors, battery chargers). Power outlets for CEE 7/7 plugs are sometimes available, but if you have any device equipped with this kind of plug you should buy an adapter. Any other kind of plug needs an adapter.

Time Zone

The time in Turkey is two hours ahead of Greenwich Mean Time (GMT + 2). Same time zone is used all over the country.

Turkey Telephone Code

The international phone code for Turkey is +90

The phone code for Ankara is +90 312

Within Turkey, use 0 instead of +90 (ie. 0 312 for calling Ankara within Turkey)

Opening Hours

Large stores and the Grand Bazaar are generally open from 10 am - 6:30 pm. Large shopping malls are open from 10 am to 10 pm. Small shops stay open till all hours, generally opening between 9 and 10 in the morning. For most offices 9 am - 6pm, many bank branches close between 12:30am – 1.30pm for lunch.

In the middle of summer in hot southern locations, some shops may close in mid afternoon for a short siesta and then stay open till 9 or 10 at night. Breakfast is (7 - 10am) and lunch is (12am - 2:30pm) at standard times. Dinner tends to be late, around 8 - 9pm and even later during the summer months, although restaurants are generally open for service by 7 pm.

Climate

Ankara average Weather and Climate Chart.

| | Maximum | Minimum |
|--------------------------|-------------|-------------|
| Ankara weather in June | 24°C / 75°F | 11°C / 52°F |
| Ankara weather in July | 28°C / 82°F | 12°C / 54°F |
| Ankara weather in August | 28°C / 82°F | 12°C / 54°F |

Please also check the internet before you leave for Turkey (e.g. <http://www.weather.com>).

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.

Useful links

Conference Website

<http://www.pme35.metu.edu.tr>

ConfTool Conference Registration Website

<http://www.conftool.com/pme35>

PME Membership Website (for those not attending PME 35)

<http://www.conftool.com/pmemember>

International Group of PME

<http://igpme.org>

Math Union/ICMI, the International Commission on Mathematics Instruction

www.mathunion.org/icmi

Next ICME Congress, ICME 12, 8th July to 15th July 2012 in Soeul, Korea

www.icme12.org/en/index.htm

Middle East Technical University

www.metu.edu.tr

The Council of Higher Education

www.yok.gov.tr

Republic of Turkey Ministry of National Education

www.meb.gov.tr

Republic of Turkey Ministry of Culture and Tourism

<http://www.kulturturizm.gov.tr>

Republic of Turkey Ministry of Foreign Affairs

<http://www.mfa.gov.tr>