

FORTHCOMING IASE CONFERENCES

2016 IASE ROUNDTABLE “PROMOTING UNDERSTANDING OF STATISTICS ABOUT SOCIETY” Berlin, Germany, 19–22 July, 2016

The Roundtable is a working conference with participation by invitation. About 40-50 persons from around the world will do work related to the conference theme. The Roundtable aims to advance current knowledge about ways to improve the understanding of data and statistics related to key social phenomena (such as trends in migration, employment, equality, demographic change, crime, poverty, access to services, energy, education, human rights, and others). Understanding of such issues is essential for civic engagement in modern societies but involves statistics that often are open, official, multivariate in nature, and/or dynamic, which are usually not at the core of regular statistics instruction.

The conference goal is to contribute to the development of conceptual frameworks, teaching methods, technology solutions, and curricular materials that can support and promote learning and understanding of statistics about such social phenomena.

Information about the topics and the roles for participants is available online:

iase-web.org/conference/roundtable16/

INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION (ICME 13)

Hamburg, Germany, 24–31 July, 2016



IASE supports a series of sessions at each ICME:

TSG 14: Teaching and learning of probability;

TSG 15: Teaching and learning of statistics.

The session on *Teaching and learning of probability* is organized by Carmen Batanero and Egan Chernoff. They welcome theoretical analyses and empirical research on:

- The nature of chance and probability.
- Statistical versus probabilistic knowledge and reasoning.
- Components of probability reasoning & literacy in everyday or professional settings.
- Probability in school curricula.
- Education of teachers.

For more information: www.icme13.org/files/tsg/TSG_14.pdf.

The session on *Teaching and learning of statistics* is organized by Dani Ben-Zvi and Gail Burrill. They describe the topics of the session as follows:

- Theoretical issues in learning and teaching statistics.
- Learning and teaching statistics in school and at the tertiary level.
- Reinforcing the connection between statistics and probability, data and chance.
- The emergence and development of students' reasoning, thinking, and literacy.
- Teachers' statistical knowledge and professional development of teachers.
- Innovative learning technology.
- Research priorities in statistics education.

For more information: www.icme13.org/files/tsg/TSG_15.pdf.

61th WORLD STATISTICS CONGRESS OF THE ISI

Marrakech, Morocco, 16–21 July, 2017



The 61th World Statistics Congress will take place in Marrakech, Morocco. The congress will bring together members of the statistical community to present, discuss, promote, and disseminate research and best practice in every field of statistics and its applications. There will also be a series of invited paper sessions and special topic sessions under the auspices of IASE. Researchers interested to organize a session, should note the date and apply by time.

There will also be an IASE satellite organized before or after the congress.

More information will be available online: www.isi2017.org/.

OTHER FORTHCOMING CONFERENCES

2016 JOINT MATHEMATICS MEETINGS

Seattle, WA, USA, 6–9 January, 2016



The largest mathematics meeting in the world will take place in Seattle. The deadlines for submission are gone and the programme comes close to its final appearance, e.g., the list of plenary talks gives an impression about the event

(http://jointmathematicsmeetings.org/meetings/national/jmm2016/2181_invspakers).

For more information: jointmathematicsmeetings.org/jmm.

CITADS – FIRST ERME TOPIC CONFERENCE ON ANTHROPOLOGICAL THEORY OF DIDACTICS

Castro-Urdiales, Spain, 26–30 January, 2016

Like the preceding conferences, this conference brings together researchers interested in the framework of ATD (Anthropological Theory of Didactics) and aims at the following objectives:

- Establishing an updated overview of the results and progress of ATD, concerning both basic research and the development of education and teacher training systems.
- Developing a research programme around the most relevant open problems, either related to difficulties affecting education systems or the development of didactics as a scientific discipline.
- Identifying and studying the specific problems raised by the extension of ATD's conceptual and methodological tools to other fields.

More information:

www.ciem.unican.es/5th-international-conference-anthropological-theory-didactic

**INDRUM – SECOND ERME TOPIC CONFERENCE ON
UNIVERSITY MATHEMATICS EDUCATION**

Montpellier, France, 31 March–2 April, 2016

The conference will focus on two topics: *Transition to university mathematics, or beyond*: challenges for, and novel approaches to, teaching mathematics at university level; the role of ICT and other resources in the teaching and learning of university mathematics; assessing the learning and teaching of mathematics at university level; the preparation and training of university mathematics teachers; and, collaborative research between university mathematics teachers and researchers in mathematics education.

Research on innovative course or task design: theoretical studies of mathematical themes in view of their teaching and learning; and, research on the teaching and learning of specific contents in different contexts, such as study programmes or institutions.

More information: indrum2016.sciencesconf.org/?lang=en.

**XXX REUNIÓN LATINOAMERICANA DE MATEMÁTICA EDUCATIVA
(RELME 30)**

Monterrey, México, 11–15 July, 2016

RELME conferences are on mathematics education. However, there are some activities (parallel sessions and workshops) in statistics education. The group on statistics education will be organized by Blanca Ruiz (bruiz@itesm.mx).

More information will be available at: relme30.mty.itesm.mx/

2016 JOINT STATISTICAL MEETINGS

Chicago, IL, USA, 30 July–4 August, 2016



JSM is one of the broadest conferences on statistics, with topics ranging from statistical applications to methodology and theory to the expanding boundaries of statistics, such as analytics and data science. JSM also offers a unique opportunity for statisticians from diverse areas to exchange ideas and explore opportunities for collaboration. Beginning statisticians (including current students) are able to learn from and interact with senior members of the profession.

More information: www.amstat.org/meetings/jsm.cfm

**ANNUAL CONFERENCE OF THE INTERNATIONAL GROUP FOR
THE PSYCHOLOGY OF MATHEMATICS EDUCATION (PME 40)**

Szeged, Hungary, 3–7 August, 2016

PME (Psychology of Mathematics Education) is an international group of mathematics educators and researchers who gather once a year to share its work and interests at its Annual Conference.

Information will be available at: www.igpme.org/index.php/annual-conference

ROYAL STATISTICAL SOCIETY INTERNATIONAL CONFERENCE
Manchester, UK, 5–8 September, 2016



Because of the range of topics presented and discussed and the breadth of the audience, this conference is the only one in the UK where all statisticians and users of data gather together. So it's the best forum to share information, network and learn from one another. The RSS conference has gained prestige for its focus on current statistical issues, how it fosters the exchange of ideas and information and the quality of its speakers. Plenary speakers will include Christl Donnelly (Imperial College London). Further information will be available shortly at:

www.rss.org.uk/RSS/Events/RSS/Events/Events.aspx?hkey=869e6d62-b611-4e61-a286-562b7d7f1e64

**THIRD ERME TOPIC CONFERENCE ON
MATHEMATICS TEACHER EDUCATION**

Berlin, Germany, October 5–7, 2016

The topic of this conference is “Researching mathematics teaching and mathematics teacher professional development”. ERME Topic Conferences (ETC) are organised on a specific research theme. Their aim is to extend the work of the group or groups in specific directions with clear value to the mathematics education research community. These topic conferences should increase the opportunities for cooperation, collaboration, and communication among researchers in mathematics education. ETCs build on European research while valuing wider perspectives. They have an interdisciplinary or multifaceted nature. Conference languages are English, French, and Spanish.

More information will be available at:

www.mathematik.uni-dortmund.de/~erme/index.php?slab=erme-topic-conferences

**AUSTRALIAN STATISTICAL CONFERENCE 2016 –
AUSTRALIAN CONFERENCE ON TEACHING STATISTICS (OZCOTS 2016)**

Canberra, Australia, 5–9 December, 2016



The major focus of the conference will be Big Data: Mining, Analysing and Teaching. It aims to bring together the statistical approaches to data analysis with the techniques of data mining and their use in teaching statistics. OZCOTS 2016 is integrated into this conference.

The teaching and learning of Statistics is now of more importance than ever to industry, government, business and indeed the whole of society. The roles of statistical understanding and statistical thinking are vital in all these areas across disciplines, increasingly driven by big data, evidence-based agendas, and technological advances which generate data as well as enabling more complex problem-solving, data visualisation and analysis. OZCOTS 2016 will consider many challenges of teaching statistics for future statisticians, statistical users and consumers under the theme of “Statistics Education in a Big Data Era”.

More information at: asc2016.com.au/ozcots/

DIDÁCTICA DE LA ESTADÍSTICA, LA PROBABILIDAD Y EL ANÁLISIS DE DATOS (V EDEPA)

Statistics Education and Data Analysis Conference
Cartago, Costa Rica, 5–9 December, 2016



The aim of the seminar is to bring university professors and secondary teachers together and improve the teaching of statistics and probability at the primary and secondary level. Besides presentations, workshops, lectures, and research reports, the main purpose of this event is to preserve and highlight the importance of teaching these topics in an increasingly competitive and computerized world. We hope to have input on teaching probability and statistics, particularly related to the topics proposed in the new programs of the Ministry of Education of Costa Rica, and proposals that deal with the emerging field of didactics of data analysis. The topics of the fourth seminar will be continued for this meeting.

- Data and context in statistics education: towards an evidence-based society.
- Statistics education in the school environment.
- Education of teachers of statistics.
- Assessment in statistics education.
- Statistics education in and for the workplace.
- Research in statistics education.
- Technology use in statistics education.
- Statistics education from an international perspective.

Information: Giovanni Sanabria (gsanabria@itcr.ac.cr) or
www.tec.ac.cr/sitios/Docencia/matematica/edepe/Paginas/default.aspx

10th CONGRESS OF EUROPEAN RESEARCH IN MATHEMATICS EDUCATION (CERME 10)

Dublin, Ireland, 1–5 February, 2017



This biennial congress is held by the European Society for Research in Mathematics Education. CERME is a congress designed to foster a communicative spirit. It deliberately and distinctively moves away from research presentations by individuals towards collaborative group work. Its main feature is a number of thematic groups whose members will work together in a common research area. The congress themes cover the whole spectrum of research in mathematics education but will include also a working group on probability and statistics education. Local Chair: Therese Dooley; Programme Chair: Ghislaine Gueudet (France). Information will be supplied online: www.mathematik.uni-dortmund.de/~erme/index.php?slab=conferences

2017 U.S. CONFERENCE ON TEACHING STATISTICS (USCOTS 7)

State College, PA, USA, 18–20 May, 2017

PAST IASE CONFERENCES

60th WORLD STATISTICS CONGRESS OF THE ISI

Rio de Janeiro, Brazil, 26–31 July, 2015



Besides the many lectures that have been directed towards the educational perspective, there were also two lunchtime discussions related to education: “Preparing students for the workforce: constructing and implementing meaningful data practicum capstone experiences for students” (J. Bailer) and “What do we do about the ‘literacy’ in statistical literacy at the college level?” (I. Gal). The invited sessions organised by

researchers connected to IASE were focused on various aspects of education, including:

- Contributions to education and dissemination of statistics in Brazil.
- Which is the right approach to learn statistics? Cues from different educational contexts based on an international project.
- Educational challenges in statistics.
- Big data analytics – experiences and perspective on education and talent training.
- Open data, civil society and monitoring social progress: challenges for statistics education.
- Implications of a data-rich, multivariate world: new needs and directions in statistical education.

More details may be seen from the proceedings at: www.isi2015.ibge.gov.br/

IASE 2015 SATELLITE CONFERENCE: ADVANCES IN STATISTICS EDUCATION: DEVELOPMENTS, EXPERIENCES, AND ASSESSMENTS

Rio de Janeiro, Brazil, 22–24 July, 2015



Besides advancing statistics education with presentations on its development, experiences, and assessments, the conference advanced the diversity of language of communication. For the first time, IASE proceedings include papers written in three languages, allowing for a broader participation and more diverse perspectives. The proceedings consist of 87 international contributions, including keynotes, workshops, contributed papers, and posters. They are available at:

iase-web.org/Conference_Proceedings.php?p=Advances_in_Stats_Education_2015

OTHER PAST CONFERENCES

XIX SIMPOSIO DE LA SOCIEDAD ESPAÑOLA DE INVESTIGACIÓN EN EDUCACIÓN MATEMÁTICA

XIXth Symposium of the Spanish Society of Research in Mathematics Education
Alicante, Spain, 3–5 September, 2015

While the symposium covered all areas of teaching of mathematics, there were quite a few strands on probability and statistics.

A plenary seminar was held on the didactics of probability with the following content:

- Research in probability education.
- Meanings of probability in textbooks for the primary education.
- Informal probabilistic reasoning in bachelor students.
- Problem solving in probability with the didactic intention to foster the education of mathematics teacher students.

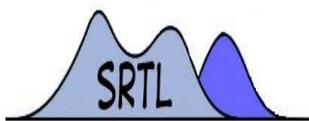
There were also two sessions devoted to statistics education.

The conference language was Spanish. The proceedings are available at:

www.seiem.es/publicaciones/actas.htm.

STATISTICAL REASONING, THINKING AND LITERACY RESEARCH FORUM

Paderborn, Germany, 26 July–1 August, 2015



Researchers in statistics education from eight countries around the world have been invited to share their work, discuss important issues, and initiate collaborative projects. With emphasis on the conference theme *Reasoning about models and modelling in the context of informal statistical inference*, an interesting range of diverse research presentations and discussions took place. There will be proceedings published from the conference.

A report on the conference: <https://blogs.uni-paderborn.de/srtl/srtl-9-2015/>

XXIX REUNIÓN LATINOAMERICANA DE MATEMÁTICA EDUCATIVA (RELME)

Panama, 20–24 July, 2015

RELME conferences are on mathematics education. There are always activities in statistics education, too. The aim of these conferences may be summarized as follows:

- Increase high quality research within and outside the classroom, disseminate and apply the results to improve teaching and learning of mathematics.
- Offer teachers the opportunity to learn new theoretical and methodological approaches as well as varied resources to improve the education of mathematics.
- Improve the relationship between educational institutions, colleges, and cultures.
- Improve the dialogue between colleagues from different levels about education.
- Reflect on the education of mathematics teachers at different educational levels.

The proceedings are available at: www.clame.org.mx/acta.htm

**TURNING DATA INTO KNOWLEDGE:
NEW OPPORTUNITIES FOR STATISTICS EDUCATION**

Lisbon, Portugal, 22–23 June, 2015

From the introduction to the proceedings: Currently, statistics education takes place in a new social and cultural context and faces a global challenge of meeting the calls for statistically literate and informed citizens who are able to turn data into knowledge. Such a challenge provides new opportunities to rethink both what statistics we teach and how we teach statistics. Doing so is imperative in order to develop students' ability to reason about data and to use them effectively and critically, in their daily life, for prediction and decision making. It is well known by both researchers and practitioners in school that statistical literacy and reasoning, which call for critical, investigative and communicative skills, prove to be difficult to students. Thus, current international curriculum recommendations suggest data-orientated approaches for teaching statistics, at all levels of schooling, using real data and taking advantage of available technology. Furthermore, to develop their statistical literacy and reasoning, students are expected to deal with data in significant and authentic contexts. This conference addresses these challenges and opportunities for statistics education, for all school levels.

The proceedings are available online:

www.researchgate.net/publication/281491464_Proceedings_of_the_International_Conference_Turning_data_into_knowledge_New_opportunities_for_statistics_education

2015 U.S. CONFERENCE ON TEACHING STATISTICS (USCOTS 6)

State College, PA, USA, 28–30 May, 2015



The theme of USCOTS 6 was “Making Connections”. Teachers of statistics strive to help their students to make connections with each other, to make connections among concepts in the course, and to make connections between statistics and other disciplines. Making professional connections can also help to enhance a statistics teacher’s effectiveness, for example by making connections with other statistics teachers and with scholars in fields that use statistics. The conference website illustrates the variety of topics and presentations: www.causeweb.org/uscots/

**SEGUNDAS JORNADAS VIRTUALES EN DIDÁCTICA DE LA
ESTADÍSTICA, PROBABILIDAD Y COMBINATORIA**

Granada, Spain, 10–12 April, 2015.



This electronic conference tries to use the innovative potential of the web. The participants read the papers or look at the videos of their choice, discuss with the authors, and react to comments by other participants.

The proceedings are available at: www.jydiesproyco.es/

**9th CONGRESS OF EUROPEAN RESEARCH IN MATHEMATICS EDUCATION
(CERME 9)**

Prague, Czech Republic, 4–8 February, 2015



This biennial congress held by the European Society for Research in Mathematics Education covers the whole spectrum of research in mathematics education but has a strong working group on probability and statistics education. The focus of this group in Prague – led by Corinne Hahn (France) – was on

- The nature and development of probabilistic and statistical thinking and its relationship to other types of mathematical thinking.
- The professional development of mathematics teachers to teach statistics and probability: Frameworks of teachers' knowledge (components and competences); evaluation of teachers' knowledge and ability to use computer tools.
- The role of computer tools on the learning and teaching of probability and statistics.
- The elaboration of theoretical frameworks that may provide insightful models for interpreting evidence from research on probability and statistics education.

Furthermore, there was a plenary (Carmen Batanero) on Understanding randomness: Challenges for research and teaching. The proceedings will soon be available from:

www.mathematik.uni-dortmund.de/~erme/index.php?slab=proceedings

**PROBLEM@WEB INTERNATIONAL CONFERENCE: TECHNOLOGY,
CREATIVITY AND AFFECT IN MATHEMATICAL PROBLEM SOLVING**

Faro, Portugal, 2–4 May, 2014



This conference was launched to embrace the opportunity of studying mathematical problem solving beyond the mathematics classroom, by looking at the context of two web-based inclusive mathematical competitions. Technology, creativity, and affect in mathematical problem solving were the three strands of this conference. There were a few contributions directly on probability and statistics. However, the results of the conference, the integration of technologies to support creativity and problem solving are relevant also for probability and statistics education.

The proceedings in English are available at: hdl.handle.net/10400.1/3750